БЪЛГАРСКА АКАДЕМИЯ НА НАУКИТЕ
ИНСТИТУТ ПО БИОРАЗНООБРАЗИЕ И ЕКОСИСТЕМНИ ИЗСЛЕДВАНИЯ
1113 София, ул. Ю. Гагарин № 2 ☎ (02) 8736137, iber@iber.bas.bg; www.iber.bas.bg

ГОДИШЕН ОТЧЕТ ЗА 2022 Г.

на отдел „Животинско разнообразие и ресурси"
Институт по биоразнообразие и екосистемни изследвания при БАН

Приет на заседание на колегиума на отдела на 9 януари 2023 г.

1. СЪСТАВ НА ОТДЕЛА ПРЕЗ 2022 г.

Ръководител на отдела: проф. д.б.н. Бойко Б. Георгиев

Секция "Биоразнообразие и екология на безгръбначните животни"

Ръководител на секция: проф. д-р Влада Пенева

ИГ "Нематология"

1. проф. д-р Влада Пенева (ръководител на ИГ)
2. доц. д-р Стела Лазарова
3. гл. ас. д-р Милка Елшишка (в отпуск по майчинство до септември 2022 г.)
4. специалист биолог Александър Младенов (½ щат)
5. редовен докторант Стела Дипчикова

ИГ "Фауна, таксономия и екология на безгръбначните животни"

1. проф. д-р Драган Чобанов (ръководител на ИГ)
2. проф. д-р Любомир Пенев (в неплатен отпуск през 2022 г.)
3. доц. д-р Ивайло Дедов
4. доц. д-р Тошко Любомиров
5. доц. д-р Владимир Сакалян
6. доц. д-р Мария Наумова
7. доц. д-р Боян Вагалински (новоизбран доцент през 2022 г.)
8. гл. ас. д-р Вера Антонова
9. гл. ас. д-р Ивайло Тодоров
10. гл. ас. д-р Теодора Теофилова
11. гл. ас. д-р Боян Златков
12. гл. ас. д-р Симеон Борисов

13. специалист биолог Георги Христов

14. доц. д-р Христо Делчев (асоцииран учен)

15. докторант Теодор Трифонов (от август 2022 г.)

ИГ "Химична екология на насекомите"

16. доц. д-р Теодора Тошова (ръководител на ИГ)

17. проф. д.б.н. Митко Събчев (извънщатен)

ИГ "Цитотаксономия и еволюция"

18. проф. д-р Снежана Грозева (ръководител на ИГ)

19. доц. д-р Юлия Илкова

20. гл. ас. д-р Десислава Стоянова (в отпуск по майчинство през 2022 г.)

21. биолог Мария Кочева

22. проф. д.б.н. Параскева Михайлова (извънщатен)

ИГ "Протозоология"

23. проф. д-р Милчо Тодоров (ръководител на ИГ, новоизбран професор през 2022 г.)

24. проф. д-р Даниела Пиларска

25. доц. д-р Данаил Таков

26. ас. д-р Никола Бънков (защитил докторантура през 2022 г.)

27. лаборант Елена Цветанска-Николова

28. акад. проф. д.б.н. Васил Големански (асоцииран учен)

Секция "Биоразнообразие, популационна биология и ресурси от гръбначни животни"

Ръководител на секция: доц. д-р Борис Николов

ИГ "Териология"

29. доц. д-р Ценка Часовникарова (ръководител на ИГ)

30. гл. ас. д-р Атидже Ахмед

31. гл. ас. д-р Албена Власева

32. гл. ас. д-р Милена Господинова

33. ас. д-р Николай Долапчиев (защитил дисертация през 2022 г.)

34. биолог д-р Владимир Тодоров

35. биолог Николета Стоянова

36. задочен докторант Калина Вълчинкова (напуснала декември 2022 г.)

37. проф. д.б.н. Георги Марков (асоцииран учен)

38. доц. д-р Наско Атанасов (асоцииран учен)

ИГ "Българска орнитоцентрала"

39. доц. д-р Борис Николов (ръководител на ИГ)

40. ас. Марта Димитрова

41. ас. Лиляна Василева (асистент от септември 2022 г., отчислена с право за защита)

42. редовен докторант Кристина Панова

Секция „Биоразнообразие и екология на паразитите”

Ръководител на секцията: проф. д.б.н. Бойко Б. Георгиев

ИГ „Таксономия, еволюция и екология на хелминтите“

43. доц. д-р Гергана Василева (ръководител на ИГ)

44. проф. д.б.н. Бойко Георгиев

45. проф. д-р Анета Костадинова

46. доц. д-р Ясен Мутафчиев (от септември 2022 г.)

47. гл. ас. д-р Георги Атанасов (½ щат)

48. гл. ас. д-р Павел Николов (в неплатен отпуск 2021 г.)

49. биолог д-р Борислав Стоянов

50. биолог д-р Симона Георгиева (постдокторска стипендия в Южна Корея от септември 2021 г.)

51. биолог д-р Яна Димитрова (защитила докторантура през 2022 г.)

52. биолог Веселин Гьонов

53. биолог Нина Ванчева

ИГ "Молекулярно-еволюционни изследвания"

54. проф. д-р Георги Радославов (ръководител на ИГ)

55. проф. д-р Петър Христов

56. гл. ас. д-р Бойко Неов

57. редовен докторант Недялка Аценова

ИГ "Ултраструктура на паразитите"

58. доц. д-р Катя Георгиева (ръководител на ИГ)

59. доц. д-р Анета Йонева

60. проф. д-р Яна Мизинска-Боевска (асоциран учен)

ИГ "Кръвни паразити на птици”

61. проф. д-р Павел Зехтинджиев (ръководител на ИГ)

62. доц. д-р Михаела Илиева

63. доц. д-р Димитър Димитров

64. гл. ас. д-р Анелия Бобева (в отпуск по майчинство през 2022 г.)

65. гл. ас. д-р Мартин Маринов

66. специалист Мартин Георгиев (до септември 2022 г.)

67. специалист Николай Йорданов (от октомври 2022 г.)

2. НАУЧНИ И НАУЧНО-ПРИЛОЖНИ ПОСТИЖЕНИЯ ПРЕЗ 2022 Г.

2.1. НАУЧНИ ПОСТИЖЕНИЯ

Протисти

Въз основа на секвенции от ядрени (SSU) и митохондриални (COI и NADH) гени на голям брой черупчести амеби е направен опит да бъдат изяснени еволюцията и филогенетичните взаимовръзки между представителите на арцелинидите (Amoebozoa: Arcellinida) и да бъде оценена валидността на използваните таксономични критерии. Резултатите от секвенционния и филогенетичния анализи ясно показват, че род *Difflugia* не е монофилетичен, че родовете *Netzelia* и *Arcella* са тясно свързани, а род *Cryptodifflugia* стои в основата на клада Arcellinida. На базата на получените резултати е ревизирана систематиката на групата и са описани редица нови за науката таксони: 1 инфраразред (Cylindrothecina), 1 семейство (Cylindriflugiidae), 3 рода (*Cylindrifflugia, Galeripora* и *Golemanskia)* и 7 вида (*Arcella guadarramensis, Galeripora balari, Galeripora bufonipellita, Galeripora galeriformis, Galeripora naiadis, Galeripora sitiens* и *Galeripora succelli*). Изследванията са проведени от международен колектив от Испания, Швейцария, Бразилия и България, с ръководител E. Lara и участници R. González-Miguéns, C. Soler-Zamora, M. Villar-Depablo, **M. Todorov** (ИБЕИ), Q. Blandenier, C. Duckert, A.L. Porfirio-Sousa, G.M. Ribeiro, D. Ramos, D.J.G Lahr. и D. Buckley. Резултатите от изследванията са публикувани в две статии в списанията *Molecular Phylogenetics and Evolution* (Q1) и *Zoological Journal of the Linnean Society* (Q1).

Паразитни червеи

Проведено изследване върху разнообразието и популационно-генетичната структура на трематодни паразити (Digenea: Lepidapedidae) от дълбоководни риби (*Coelorinchus mediterraneus, Lepidion lepidion, Phycis blennoides, Trachyrincus scabrus* и *Mora moro*), събрани чрез дънно тралене от дълбочини между 400 и 2000 м от Западното Средиземноморие. Приложен е интегративен таксономичен подход за идентифициране и оценка на разнообразието на трематодите от род *Lepidapedon* и моделите на генетична и епидемиологична вариация на паразитните популации във връзка с вида гостоприемник и неговото географско и батиметрично разпределение. За подпомагане на видовата идентификация е използван частичен фрагмент на митохондриалния *nad*1 ген. Анализите разкриха ниско видово разнообразие и гостоприемникова специфичност, с наличието само на два вида, *L. desclersae* и *L. guevarai*, заразяващи множество гостоприемници. Генетичните анализи показаха липса на генетична диференциация на популациите на по-обилно секвенирания вид *L. desclersae*, докато екологичните анализи демонстрираха значителни разлики в епидемиологичните параметри на двата трематодни вида, свързани с вида гостоприемник и неговото географско и батиметрично разпределение. Изследването показва, че комбинирането на популационно-генетични и екологични анализи е обещаващ подход за оценка на факторите и възможните механизми, които определят моделите на свързаност между паразитните популации в дълбоководните морски екосистеми. Резултатите са публикувани в международното списание *Deep-Sea Research Part I* (**С. Георгиева, А. Костадинова**, съвместно с колеги от University of Valencia и Autonomous University of Barcelona, Испания).

Проучено е видовото разнообразие на трематодите от сем. Schistosomatidae, паразитиращи в морския охлюв *Pirenella cingulata* от Персийския залив. За първи път е разкрит жизненият цикъл на *Ornithobilharzia canaliculata* и е направен филогенетичен анализ на сем.

Schistosomatidae на основата на секвенции на рибозомния 28S и митохондриалния *cox*1 гени. Резултатите демонстрират: (а) липсата на монофилия на птичите шистозоми; (б) ранната еволюция на шистозомите с морски жизнен цикъл и последваща колонизация на сладководни басейни, съпроводена с колонизация на различни групи бозайници и птици; и (в) вторичен "host-" и "habitat-switching" с преминаване от сладководен към морски жизнен цикъл. Изследването предоставя важна информация за взаимоотношенията паразит-гостоприемник и подчертава значението на молекулярната систематика при оценката на етиологично значими паразити. Резултатите са обобщени в статия, отпечатана в международното списание *Scientific Reports* (**С. Георгиева**, съвместно с колеги от GEOMAR Helmholtz Centre for Ocean Research Kiel, NIOZ Royal Netherlands Institute for Sea Research и Hormozgan University of Medical Sciences, Иран).

Проведено е проучване чрез трансмисионна електронна микроскопия, предоставящо данни за структури, свързани с намирането, разпознаването и инвазията на гостоприемника при един от най-често срещащите се типове церкарии при трематодите – фуркоцеркариите. За целта са използвани церкарии на *Cardiocephaloides longicollis* (Rudolphi, 1819). Получените резултати предоставят нова информация, свързана с ултраструктурата на церкариите от семейство Strigeidae, като интерпретирането на тези данни са съществено важни за разбиране на механизмите на трансмисия и пенетрация, отговорни за заразяване на рибните гостоприемници. Съвместно изследване на **А. Йонева** (ИБЕИ-БАН) с А. Борн и Г. ван Биист (Институт по паразитология, Чешка академия на науките). Получените резултати са обобщени в статия в международното списание Parasitology Research.

Направена е оценка на комбинирания ефект на въздействието на манганова сол ($MnCl_2.H_2O$) и експериментална инфекция с *Fasciola hepatica* върху концентрацията на Mn в екпериментaлната система *Rattus norvegicus – Fasciola hepatica*. Концентрацията на Mn е определена в черния дроб, бъбреците и мускулите на гостоприемника, както и във *F. hepatica* чрез ICP метод. Третираните неинфектирани плъхове показват значително повишено ниво на Mn в бъбреците и мускулите и малко по-високо в черния дроб. При заразените плъхове концентрацията на Mn в черния дроб е намалена, повишена – в мускулатурата и непроменена в бъбреците в сравнение с тези, наблюдавани при неинфектирания гостоприемник. Във *F. hepatica*, изолирани от третирани с Mn плъхове, се наблюдава двойно повишена концентрация на Mn в сравнение с тази във *F. hepatica*, открита в нетретирани гостоприемници. Резултатите сочат важната роля на Mn-хомеостазата при взаимодействието между плъхове и *F. hepatica*. Статията е публикувана в списание *Acta Morphologica et Anthropologica*. **К. Георгиева** (ИБЕИ-БАН), съвместно с В. Нанев, И. Владов, Е. Дентева и М. Габрашанска от Института по експериментална морфология, патология и антропология с Антропологичен музей при БАН.

Проучено е видовото разнообразие на моногенеите от сем. Microcotylidae от четири вида риби от семейство Sparidae от крайбрежието на Алжир, западната част на Средиземно море. Направен е филогенетичен анализ, основан на секвенции на рибозомния ген 28S и митохондриалния ген *cox*1, получени за голяма част от събраните моногенеи. Генерирани са общо 46 секвенции от 38 изолата. Проучването предоставя: (а) първи молекулярни данни за представители на сем. Capsalidae в Средиземно море; (б) първо съобщение за представител на подсемейство Prostatomicrocotylinae в Средиземно море и в *D. vulgaris*; (в) първи *cox*1 секвенции за *Atrispinum acarne*; (г) второ съобщение на *Microcotyle erythrini* от *P. pagrus*; и (д) второто, потвърдено от молекулярни данни, съобщение за *S. chrysophrii* в диви популации на *S. aurata*. За първи път са представени филогенетични хипотези за семейство Microcotylidae, които разкриват монофилията на подсемейство Prostatomicrocotylinae и род *Microcotyle*, както и до голяма степен неразрешени отношения между подсемействата, като най-добре

представеното подсемейство Microcotylinae е полифилетично. Изследването подчертава важността на молекулярните методи при оценка на разнообразието на моногенеите и необходимостта от широка таксономична представеност за увеличаване на точността на филогенетичните реконструкции на отношенията в голямото и таксономично комплексно семейство Microcotylidae. Резултатите са публикувани в международното списание *Current Research in Parasitology & Vector-Borne Diseases* (**С. Георгиева** и **А. Костадинова**, съвместно с колеги от Université Oran 1 и Université Hassiba BenBouali de Chlef, Алжир).

Проведено е проучване на цестодни ларви (плероцерки) на *Progrillotia dasyatidis* (Trypanorhyncha: Progrillotiidae), изолирани от плавателния мехур на трииглата бодливка *Gasterosteus sculeatus* (Actinopterygii: Gasterosteidae). Материалът е изолиран от половозрели риби, уловени в сладководно блато, част от крайбрежните влажни зони „Атанасовско езеро“. Изготвено е морфологично описание на хелминта. Това е първото съобщение на хелминта за паразитофауната на България и първо намиране в този вид гостоприемник. Наличието на плероцерки с евагинирани сколекси, без следи от по-нататъшно развитие, говори за това, че рибата играе ролята на паратеничен гостоприемник, а не на междинен такъв в жизнения цикъл на паразита, каквито предположения се забелязват в съществуващата литература. Присъствието на типичен морски паразит като *P. dasyatidis* в сладководен водоем и само в половозрели риби, свидетелства за наличието на анадромна популация на гостоприемника, навлизаща за размножаване през пролетта от морето във влажните зони. През лятото (юли) и есента (септември) половозрели бодливки не са наблюдавани в изследваните влажни зони. Резултатите са обобщени и публикувани в международното списание *Journal of Helminthology* (**Б. Стоянов, Б. Георгиев**).

Изследвани са ултраструктурните белези на зрелия сперматозоид на *Tetragonocephalum* sp. – цестод от разред Lecanicephalidea, паразитиращ по хрустрялните риби. Зрели проглотиди от *Tetragonocephalum* sp. са изолирани и фиксирани за трансмисионна електронна микроскопия. На базата на проведените ултрасруктурни изследвания е установено, че зрелият сперматозоид притежава една аксонема, успоредни кортикални микротубули, спирално завито около аксонемата ядро и повърхностни спирални удебеления, които съответстват на сперматозоид от IV-ти тип (sensu Levron, 2010). Изследването е проведено от международен колектив от учени от Университета в Канзас, САЩ (J. Cielocha, E. Martinez, A. Jackson) и **А. Йонева** (ИБЕИ-БАН). Резултатите са публикувани в международното списание Journal of Parasitology.

Преописан е типовия вид на род *Diorchis* – *D. acuminata*, паразит по водните кокошки (Rallidae). Детайлното изследване на типовите материали (съдържащи екземпляри от два различни вида) позволи изясняване на диагностичните характеристики на *D. acuminata* и определянето на лектотип. Въз основа на сравнителен морфологичен анализ на типовите материали на видовете *Diorchis ransomi* и *D. longibursa* е предложено синонимизирането им с *D. acuminata*. Изследването е първа част от таксономична ревизия на цестодите от род *Diorchis*, паразитиращи по птици от семейство Rallidae. Резултатите са обобщени в статия, отпечатана в *Systematic Parasitology* (**Г. Василева**, **Б. Георгиев** и М. Маринова, ТУ – Стара Загора).

В резултат от цялостно проучване на фауната на хименолепидидите от водоплаващи птици от семейство Anatidae от България, три вида са установени за пръв път за фауната на страната. Това са *Diorchis asiatica* от *Tadorna ferruginea* (нов гостоприемник за вида), *Echinocotyle minutissima* от *Spatula querquedula* и *Fimbriarioides tadornae* от *Tadorna tadorna*. Видовете са преописани и е уточнен гостоприемниковия спектър, географско разпространение и синонимия. Авторството на *Diorchis diorchis* Burt & McLaughlin, 1975 е изяснено и позицията

му като синоним на *D. asiatica* е потвърдена. Резултатите са обобщени в статия, отпечатана в *Acta Zoologica Bulgarica* (**Г. Василева** и М. Маринова, ТУ Стара Загора).

Обобщени и анализирани са данните за разнообразието и разпространението на цестодите, паразитиращи по птици в Афротропическата зоогеографска област, като са добавени и нови данни по новосъбран материал от цестоди по птици от Република Габон и Федерална република Етиопия. От Габон са изследвани 226 екземпляра птици от 55 вида, а от Етиопия - 74 екземпляра птици от 43 вида. В събрания материал от циклофилидейни цестоди са идентифицирани общо 42 вида от 7 семейства. Анализирани са данните за видовото разнообразие на цестодната фауна в Афротропическия регион, публикувани за периода от 1772 г. до наши дни в 161 публикации. Информацията за таксономията на видовете цестоди и техните гостоприемници е обновена и анализирана. До този момент от Афротропическия регион са съобщени 425 вида цестоди от 15 семейства и 3 разреда. Най-богатото на видове семейство от разред Cyclophyllidea в Афротропическия регион е Davaineidae (119 вида цестоди), следвано от Hymenolepididae (103 вида), Dilepididae (84 вида**)** и Paruterinidae (48 вида). Като гостоприемници на циклофилидейни видове в Афротропическия регион са установени 340 вида птици от 26 разреда. С най-богати видови комплекси от цестоди са разредите Charadriiformes (86 вида), Passeriformes (68), Galliformes (49) и Columbiformes (36). Сравнението на установените цестодни видови комплекси показаха висока гостоприемникова специфичност и ниска степен на сходство. Резултатите са обобщени в три публикации в международни списания с IF и дисертационен труд за придобиване на образователната и научна степен „доктор“, успешно защитен през 2022 г. (**Я. Димитрова, Б. Георгиев, Г. Василева,** съвместно с J. Mariaux, Природонаучен музей, Женева).

Космополитният нематоден род *Streptocara* Railliet, Henry and Sisoff, 1912 (Nematoda: Acuariidae) включва паразити на горната част на храносмилателния тракт на водни и рядко сухоземни птици. Два вида от *Streptocara* са преописани от България с помощта на светлинна и сканираща електронна микроскопия: *Streptocara crassicauda* (Creplin, 1829) въз основа на екземпляри от *Larus genei*, *Larus minutus* (Laridae) и *Aythya ferina* (Anatidae) и *Streptocara recta* (von Linstow, 1879) от *Podiceps nigricollis* (Podicipedidae). Това е първото съобщение на *S. recta* от България. Обобщени са данните за гостоприемниците и разпространението на видовете от род *Strepotcara*. Шест вида са признати за валидни. *Streptocara crassicauda*, *S. californica* (Gedoelst, 1919), *S. formosensis* Sugimoto, 1930 и *S. incognita* Gibson, 1968 са паразити, добре адаптирани към птици от семейство Anatidae и понякога се срещат и при други птици, докато *S. recta* и *S. longispiculata* Gibson, 1968 са специалисти съответно по Podicipediformes и Gaviiformes. *Streptocara indica* Fotedar и Chishti, 1974 е признат за синоним на *S. crassicauda*, а *Schistogendra oligopapillata* Zhang and An, 2002 се счита за синоним на *Streptocara formosensis* Sugimoto, 1930. Предложен е ключ за идентификация на видовете от *Streptocara*. Изследването е публикувано в международното списание Diversity (**Я. Мутафчиев, Б. Георгиев**).

Проведено е проучване на паразитните съобщества в *Boops boops* (Teleostei: Sparidae) като индикатори за замърсяването на околната среда след нефтения разлив на петролния танкер “Престиж” (2002 г.) и неговите ефекти върху съобществата на бентосни/пелагични безгръбначни животни в засегната зона край бреговете на Галисия, Испания, 12–13 години след разлива. Нови данни за паразитните съобщества, събрани през 2014–2015 г., бяха анализирани заедно с две уникални бази данни, едната включваща данни събрани през 2001 г. (година преди нефтения разлив), и втората, включваща данни от 2005–2006 г., 3–4 години след разлива. Установени са значителни разлики за повечето параметри на съобществата и на често срещаните видове между двете бази данни взети в 9-годишен интервал след разлива (3–4 години и 12–13 години). Този резултат е в рязък контраст с малкото разлики между

дългосрочната база данни след разлива от 2014–2015 г. и базовите данни преди разлива от 2001 г. Многомерните анализи на сходството на съобществата потвърждават, че тези различия се отразяват в съществената диференциация на състава и структурата на паразитните съобщества след разлива и значителното хомогенизиране на съобществата, изследвани 12–13 г. след разлива и базовите данни. Като цяло, новите анализи демонстрират дългосрочна тенденция в паразитните съобщества, насочена към екологично възстановяване. Резултатите от изследването предполагат дългосрочни въздействия от нефтените разливи върху шелфовите бентосни/пелагични съобщества на безгръбначни животни, продължаващи над 10 г. Резултатите са публикувани в международното списание *Science of the Total Environment* (**А. Костадинова**, съвместно с колеги от University of Valencia, Испания).

Почвени нематоди

Изследван е един рядък вид, принадлежащ към род *Labronema* – *L. magnum.* Този вид е установен в две арктически полярни пустини – о-в Хукер (Архипелаг Земята на Франц Йосиф, Руска Арктика) и о-в Девон (Канадска Арктика). Представени са за първи път молекулярни данни за вида на базата на D2-D3 региона от 28S рибозомална ДНК (rDNA), както и допълнителна морфометрична характеристика. Популацията от о-в Девон е много сходна с типовата популация и с тази от о-в Хукер, въпреки че се наблюдават някои разлики: по-късо тяло, по-дебела кутикула, присъствие на неравности по кутикулата в областта на вулвата. Малките различия, наблюдавани между популациите най-вероятно се дължат на вътревидови вариации. Данните за ДНК и филогенетичния анализ потвърждават данните от предишни проучвания (на основата на морфологични данни), че родът е хетерогенен, със сложна таксономия и систематика. Реконструкцията на филогенетичните връзки в род *Labronema* е ограничена от малкия брой налични секвенции в GenBank (само за два вида). Затова са необходими задълбочени и целенасочени изследвания на основата на интегративен подход. *Labronema magnum* е установен за първи път в полярни пустини в настоящето изследване. Изследването е проведено от екип от ИБЕИ – **М. Елшишка**, **А. Младенов**, **С. Лазарова**, **Л. Лозанова**, **В. Пенева**. Резултатите са представени на Международна конференция по ДНК баркодиране и биоразнообразие (май 2022 г.).

Подготвен е актуализиран списък с видовете сухоземни нематоди от Морската част на Антарктика. Този списък включва 44 вида, принадлежащи към 21 рода, 15 семейства и 8 разреда от тип Nematoda. Предоставени са данни за тяхното разпространение, микроместообитания, растителни асоциации и наличието на ДНК последователности в GenBank. Прегледът на наличната литература показва, че различните райони са неравномерно изследвани. Само три острова (Сигни, Кинг Джордж и Ливингстън) са най-добре проучените места, с най-разнообразна нематодна фауна в Морската Антарктика. Изследването е проведено от екип от ИБЕИ – **М. Елшишка**, **А. Младенов**, **С. Лазарова** и **В. Пенева**. Подготвена е публикация, в която са представени получените резултати (Biodiversity Data Journal).

На основата на литературни данни са разгледани проблемите, които причиняват растително-паразитните нематоди по овощни култури от умерените ширини и тяхното устойчиво управление. Представени са списъци с растително-паразитните нематоди, които увреждат тези култури с важно стопанско значение (ябълка, круша, праскова, череша, вишна, бадем, орех, киви, ягода). Растително-паразитните нематоди *Pratylenchus, Meloidogyne, Nanidorus, Scutellonema, Paratylenchus, Xiphinema, Longidorus, Mesocriconema* и *Heliocotylenchus* са от особено значение за тези растения. Те причиняват некрози и гали по корените, хлороза, увяхване на листата, забавяне на растежа и/или загиване на растенията. В световен мащаб се наблюдава загуба от 12.3% за различните култури, дължаща се на растително-паразитните

нематоди. Установено, е че видовете от родовете *Pratylenchus* и *Meloidogyne* са основните вредители по овощните култури от умерените ширини. Коментирани са основни стратегии за устойчиво управление. Изследването е извършено от колектив E. Shokoohi (University of Limpopo, South Africa), Z. Handoo (Mycology and Nematology Genetic Diversity and Biology Laboratory, USA), **М. Елшишка** от ИБЕИ, Abdel-Moety Salama (Kafrelsheikh University, Egypt). Подготвена е глава от книга, която предстои да бъде публикувана в Nematode problems in temperate fruits and their sustainable management от издателство Elsevier Science & Technology.

Многоножки

Направен е подробен обзор на таксономията, разпространението и систематичното положение на многоножките от род *Stygiiulus*, при което се установи, че в състава му влизат 10 вида. Досега *Stygiiulus* беше считан за подрод на род *Typhloiulus*, но въз основа на морфологични и молекулярно-генетични данни, първият е издигнат в отделен родов ранг, а род *Alpityphlus* е предложен за негов младши субективен синоним. В допълнение, три подвида са издигнати в ранг на отделни видове, а друг подвид е синонимизиран с номинатния подвид на съответния вид. Обозначени са лектотипове на два вида, с цел стабилизиране на номенклатурното им положение. Накратко е обсъдено еволюционното и екологичното значение на адаптираните за филтриращ начин на хранене устни части, характерни за част от видовете от рода. Резултатите са публикувани в European Journal of Taxonomy (Q2). Ръководител: **Б. Вагалински**. Участници: **С. Борисов**, **А. Бобева,** G. Canciani и D. Ž. Antić.

Направена е таксономична ревизия на пещерните трихополидезмиди в Карпато-балканския и Родопския регион. В резултат са описани два нови рода и три нови вида, а един подвид е издигнат в отделен вид. Съставен е определителен ключ към известните до момента шест рода от изследваната територия. Очертани са някои закономерности и проблеми за разрешаване по отношение на систематиката на семейство Trichopolydesmidae. Резултатите са публикувани в Zookeys (Q1). Ръководител: D. Antić. Участници: **Б. Вагалински**, П. Стоев и N. Akkari.

Описан е новият монотипичен род *Bellatoiulus* (Diplopoda: Julidae) от Азербайджан. Създадени са кибертипове от мъжкия холотип и от женски паратип с помощта на компютърна микротомография. Накратко са обсъдени систематичното положение и екологичните особености на новия род и вид. Резултатите са публикувани в Zookeys (Q1). Ръководител: A. P. Evsyukov. Участници: **Б. Вагалински**, I. Y. Zabiyaka, E. V. Sadyrin.

Представени са нови фаунистични данни за 38 вида многоножки от Кавказкия регион, принадлежащи към девет семейства и шест разреда. 14 от видовете са представени с иконографии, подпомагащи по-лесното им определяне от не-специалисти. Резултатите са публикувани в Arthropoda Selecta (Q2). Ръководител: A. P. Evsyukov. Участници: S. I. Golovatch, **Б. Вагалински**, Y. A. Chumachenko, I. S. Turbanov, I. Y. Zabiyaka.

Паякообразни

Представени са нови таксономични и фаунистични данни за род *Zodarion* Walckenaer, 1826 (Araneae: Zodariidae) на Балканите. Описани са два вида нови за науката: *Zodarion emilijae* Deltshev & Naumova, 2022 от Северна Македония и *Z. weissi* Deltshev & Naumova, 2022 от България. Представени са нови таксономични и фаунистични данни за следните шест вида: *Z. blagoevi* Bosmans, 2009, *Z. epirense* Brignoli, 1984, *Z. konradi* Bosmans, 2009 (нов за Северна Македония), *Z. rubidum* Simon, 1914 (нов за България), *Z. scutatum* Wunderlich, 1980 (нов за

Черна гора) и *Z. zorba* Bosmans, 2009 (нов за България). Пет вида са премахнати от българския, гръцкия или северномакедонския чеклист на паяците като съмнителни, грешни или неправилно идентифицирани: *Zodarion epirense* Brignoli, 1984, *Z. evvoia* Bosmans, 2009, *Z. germanicum* (C. L. Koch, 1837), *Z. graecum* (C. L. Koch, 1843) и *Z. italicum* (Canestrini, 1868). Публикувано в *Zootaxa* (**IF**, SJR, **Q2**), в съавторство с **Х. Делчев**, С. Инджов и Д. Матевски от Северна Македония. Участник: **М. Наумова**.

Направено е детайлно изследване на два редки вида паяци (*Gnaphosa mongolica* Simon, 1895 и *Haplodrassus bohemicus* Miller & Buchar, 1977) от семейство Gnaphosidae. По време на интензивни изследвания на панонските пясъчни степи в Словакия, много екземпляри от двата вида бяха събрани между селата Radvaň nad Dunajom и Marcelová в периода 2017–2020 (145 екз. *G. mongolica* и 82 екз. *H. bohemicus*), което показва стабилни популации. Тези находки се явяват най-северното и най-западното местоположение на *G. mongolica* в Европа, а двата вида са нови за фауната на Словакия. Представени са таксономичните особености, снимки на хабитус и гениталии, известното към момента разпространение в Европа и фенологията на двата вида. По-подробно е дискутирана морфологията на копулативните органи на *H. bohemicus.* Представен е първият случай на гинандроморфия при *H. bohemicus,* която е и първо съобщение за гинандроморфен паяк от България. Публикувано в *Arachnologische Mitteilungen/Arachnology Letters* (SJR, Q3) в съавторство с колеги от Словакия и Унгария. Участник: **М. Наумова**.

Въпреки че Пловдив е вторият по големина град в България и на територията му има много природни местообитания с висока консервационна значимост, все още почти няма данни за видовия състав на фауната на паякообразните. Направен е първи опит да се обобщят наличните публикувани данни и да се предоставят оригинални данни за три разреда паякообразни. Установен е следният брой на изследваните таксони – паяци: 312 вида от 33 семейства, псевдоскорпиони: 4 вида от 4 семейства, един вид скорпиони (от семейство Euscorpiidae). От установените 317 вида паякообразни, нови за района на Пловдив са 280 вида. Тринадесет вида паяци са новоустановени за страната, като 5 от тях са първи съобщения и за Балканите. Видът *Lathys spasskyi* е първо съобщение от Европа, *а Zelotes harmeron* е първият публикуван запис от континенталната част на Европа. Представени са и оригинални фотографии на 13 вида паяци. Големият общ брой установени видове, както и многото нови записи за страната показват, че проучванията на паякообразните в градовете са неоправдано пренебрегвани. **М. Наумова**, в съавторство с В. Генчев, публикация в тематичен сборник за биоразнообразието на Пловдив (Mollov I., D. Georgiev, O. Todorov (Eds.) Faunistic diversity of the city of Plovdiv (Bulgaria), Vol. 2 – Vertebrates & Invertebrates. Bulletin of the Natural History Museum – Plovdiv, Supplement 2: 111-116).

Представени са нови фаунистични данни паяците от Шар планина (Косово) – една от най-слабо проучените области на Балканите. В резултат броят на известните паяци от косовската част на Шар планина беше увеличен от 27 на 74 вида. Представени са нови данни за петдесет вида, от които осем са първи записи за Шар планина, двадесет и осем са първи съобщения за Косово и един вид е нов за Северна Македония. Предоставени са снимки на редки и интересни видове, както и списък с всички видове паяци в Шар планина в Косово. Изследването е публикувано с съавторство с колеги от Косово (Grapci-Kotori, L., Geci, D., **Naumova, M.,** Ibrahimi, H., Bilalli, A., Musliu, M., Gashi, A. & Kasumaj, E.) в списанието Natura Croatica.

Акари

Установен е нов вид и род за фауната на Балканския полуостров паразитен акар по крилната мембрана на прилепи. Направено е хистологично изследване на тъканите в мястото на заразяването и е установена степента на патологичните изменения. Резултатите са публикувани в *Biodiversity Data Journal* (Q2). Ръководител: Н. Тошкова. Участници: **Б. Златков** (ИБЕИ-БАН), А. Факирова, В. Желязкова, Н. Симов.

Насекоми

Правокрили

Актуализирани са данните за разпространението на мароканските видове скакалци от семейство Pamphagidae. Описан е един нов вид за науката, *Euryparyphes minor* sp. n., и е предложена една нова таксономична комбинация. Резултатите са публикувани в Zootaxa (Q2). Ръководител: **Д. Чобанов**. Участник: B. Massa.

В системата за намиране на партньор на дългопипалните скакалци акустичните сигнали играят централна роля. В тази статия преглеждаме и описваме биоакустиката и кариотипната организация на Hetrodini, морфологично еднотипна група от Tettigonioidea с център на разпространение в Африка. Мъжките призивни песни се произвеждат от тегмино-тегминална стридулация. Спектралният състав, широкият честотен пик и частите от песента с най-голяма енергия се намират във високия аудио- и ниския ултразвуков спектър. По отношение на амплитудната модулация песните са сравнително просто структурирани и съдържат само един вид срички. Тези срички се състоят от силно заглушени импулси (нерезонансна песен) и са групирани в продължителни трели. Доколкото е известно, синтопичните видове се различават по честотата на повторение на сричката и/или групата от срички. За разлика от еднаквата морфология, кариотиповете на видовете са изненадващо разнообразни с вариращ брой хромозоми от 2n = 29 до 17 и една от двете системи за определяне на пола: X0 и нео-XY. В заключение считаме, че в таксономично отношение в момента е най-добре групата да се счита за трибус incertae sedis (без класификация в подсемейство) в рамките на Tettigoniidae (не Tettigoniinae sensu OSF). Резултатите са публикувани в Zootaxa (Q2). Ръководител: Klaus-Gerhard Heller. Участници: **Д. Чобанов** (ИБЕИ), E. Warchałowska-Śliwa и C. Hemp.

Изследвана е звуковата комуникация и морфологията на стридулаторния файл на *Isophya modestior* в целия му географски обхват. Нашите анализи потвърждават разделянето на вида на две основни групи – едната се среща в централната част на Балканския полуостров, а втората група се среща в Панонския басейн, Динаридите, Словения и СИ Италия. Нашето проучване показва, че подробните биоакустични анализи могат да помогнат за разгадаването на модели на вътрешноспецифични диференциация и по този начин предоставят полезен инструмент за таксономични изследвания. Резултатите са публикувани в Zookeys (Q2). Ръководител: S. Ivković. Участници: **Д. Чобанов** (ИБЕИ), L. Horvat, I. Ș. Iorgu и A. Hochkirch.

Проучено е генетичното разнообразие и филогенията на групата скакалци *Poecilimon ornatus* (Schmidt, 1850) с 13 вида и 5 подвида. Молекулярната филогения поддържа монофилията на групата и показва, че тя вероятно произхожда от южните Балкани. Счита се, че основните процеси са шест разселвания и пет изолации (vicariances), свързани с геоложки събития и промени в климата през плейстоцена. Автоматичните тестове за разграничаване на видовете показват предимно девет хипотетични вида в групата. Публикувано в Arthropod Systematics & Phylogeny (Q1). Ръководител: M. Kociński. Участници **Д. Чобанов** (ИБЕИ) и B. Grzywacz.

Под печат е изследване върху филогенетичното и кариотипно разнообразие и вътревидово диференциране на *Isophya modestior*, разпространен в Централна и Югоизточна Европа, където разпространението му е до голяма степен разделено от две големи реки (Сава и Дунав). Тъй като предишни проучвания върху песента и морфологията на стридулаторния файл в целия му географски обхват показаха, че видът е разделен на две основни групи, ние използваме филогенетични и кариологични анализи, за да оценим състоянието на анализираните по-рано популации. Филогенетичните анализи показаха съществуването на два основни клада в рамките на *I. modestior* с висока статистическа подкрепа. Сравнението на хромозомите на 51 екземпляра разкрива обособени разлики между техните кариотипове. Физическите характеристики на кариотиповете включват номер на хромозома (2n), морфология на половата хромозома (X) и модели на C-пояси. Резултатите са под печат в Biological Journal of the Lineean Society (Q1). Ръководител: S. Ivković. Участници: L.-S. Dey, F. Buzzetti, G. Puskás, E. Warchałowska-Śliwa, L. Horvat, **Д. Чобанов** (ИБЕИ) и A. Hochkirch.

Изследвани са произхода, моделите на разпространение, еволюционните стратегии и систематиката на *Poecilimon*, най-големият род дългопипални скакалци в Палеарктика с над 150 таксона. Ние използваме филогенетични анализи и анализи за оценка на времето на дивергенция, базирани на мултилокусни ДНК данни (ND2 + COI + 12 S + 16 S + ITS+28 S). На основата на филогенетични анализи и оценка на времето на дивергенция на линиите, правим реконструкция на анцестралните територии на рода, проследяваме на еволюцията на поведението (звукова комуникация) и морфо-физиологичните характеристики (размер и форма на тялото и размер на сперматофора) в този род. Въз основа на нашите резултати, ние предлагаме преработена систематика на *Poecilimon*, включително описание на нов вид, *P. nivalis* sp. n., и предлагаме три етапа в еволюцията на рода. Резултатите са под печат в едно от водещите списания, публикуващи оригинални научни разработки в областта на ентомологията – Systematic Entomology (Q1). Ръководител: **Д. Чобанов** (ИБЕИ). Участници: **С. Борисов** (първи автор), K.-G. Heller, B. Çıplak.

Видът скакалец *Eyprepocnemis plorans plorans* (Charpentier, 1825) е съобщен за първи път от България, с поне четири установени находища в Тракийската низина (гр. Пловдив; между с. Катуница и с. Ягодово, в землището на с. Ягодово и северно от него), по долините на реките Марица и Чая. Между октомври 2020 г. и ноември 2022 г бяха събрани 6 от общо 13 наблюдавани възрастни екземпляра. Представено е кратко обсъждане на вероятния път на колонизация. Публикация в тематичен сборник за Пловдив (**М. Наумова** и В. Генчев).

Сред насекомите разредите Blattodea и Orthoptera са характерни с високата си значимост за живота на хората и тяхната дейност, като създават медицински и селскостопански проблеми. Представителите на Blattodea имат важна роля като преносители на редица инфекциозни заболявания при хората и животните и са пряко свързани с живота и дейността на човека. От друга страна правокрилите са важни като селскостопански вредители, които причиняват големи щети на растенията. Изследването на механизмите на имунната защита и процесите, свързани с отговори срещу патогенни инфекции на тези два разреда, представлява интерес за по-пълно изясняване на възможностите за управление и контрол на техните популации. Този преглед обобщава информацията за защитните механизми (хемоцити, антимикробни пептиди, разпознаване на патогени, сигнални пътища, имунни и антивирусни отговори), проучени в представители на двата разреда. Списъкът включва 30 вида хлебарки и термити и 59 вида правокрили и се фокусира върху видове с медицинско значение (*Periplaneta americana, Blattella germanica*) и насекоми вредители в селското стопанство като *Locusta migratoria* и *Schistocerca gregaria*. Резултатите от изследванията са публикувани в *Polish Journal of Entomology***.** Ръководител **D. Takov,** участници **P. Ostoich,** M. Zubrik и **D. Pilarska.**

Полутвърдокрили

Осъществено е мащабно изследване за събиране на наличната в литературата (на протежение на почти два века - от 1833 до сега) информация за репродуктивната система на всички представители на Heteroptera, в съчетание с оригинални данни на авторите, които представляват 13.8% от общия брой изследвани видове, включени в обзора, и се отнасят до 140 вида от 30 семейства. Проведен е анализ на репродуктивната система на над 1000 вида насекоми от 63 семейства и 7 инфраразреда на Heteroptera за определяне броя семенни фоликули (705 вида) и броя овариоли (504 вида), както и наличието или отсъствието на придатъчни жлези към мъжката полова система. За част от изследваните видове са направени снимки на устройството на половата система. Публикувана в списание с импакт фактор (ZooKeys) е статия за еволюцията на броя семенни фоликули и броя овариоли при над 1000 вида от всички инфраразреди на подразред Heteroptera от над 60 семейства и около 200 литературни източника. В изследването участват колеги от Русия и от НПН-БАН, а от ИБЕИ – **Д. Томова** и **С. Грозева**.

Обобщени са данните за разпространението на водните Heteroptera от инфраразред Nepomorpha на базата на публикувани и оригинални данни за разпространението на водни хетероптери, срещащи се в България. Представено е разпространението по водосбори, а също и по типове местообитания. Коментирана е възможността за предпочитания на отделните видове хетероптери към конкретен тип местообитание. Присъствието на други два вида (съобщавани по-рано за страната) – *Micronecta minutissima* и *Sigara scripta*, се нуждае от потвърждение. Макар, че видовете водни Heteroptera са регистрирани в 21 типа местообитания, болшинството видове са намирани в местообитания от типа C2.3. Постоянни слабо подвижни водни тела. Множество видове са регистрирани в значително по-малко типове местообитания (C1.3, C1.6, X03). Тринадесет от видовете показват статистически значими положителни асоциации с конкретен тип местообитание. Обобщените данни показват, че водните хетероптери в България предпочитат местообитания с по-малка надморска височина. Малък брой от местообитанията на девет вида – *Arctocorisa germary, A. carinata, Calicorixa praeusta, Sigara assimilis, S. stagnalis, Micronecta carpatica, M. poweri, Anisops sardeus* и *Ochterus marginatus*, се нуждаят от опазване. Подготвен е ръкопис за Biodiversity Data Journal със заглавие „Distribution of aquatic true bugs (Hemiptera, Heteroptera, Nepomorpha) in Bulgaria“. **Д. Томова** (ИБЕИ) и Н. Симов (НПМ-БАН).

Изследван е кариотипът на три инвазивни вида хетероптери – *Corytucha arcuata* (Tingidae), *Leptoglossus occidentalis* (Coreidae) и *Halyomorpha halys* (Pentatomidae). Кариотипът на *H. halys* е определен като 2n=12+XY (♂). Тестисите са покрити с червена мембрана, но е трудно да се разграничат и преброят фоликулите в тестиса. Безцветните яйчници се състоят от 7 овариоли всеки. Кариотипът на *L. occidentalis* бе определен като 2n=18+2m+X (♂). Тестисите са едри, покрити с червена мембрана, с по 7 фоликула всеки. Женските на този вид не са изследвани. Тестисите на третия вид *C. arcuata* са с по два удължени фоликула във всеки тестис и кариотипът е същият като повечето изследвани видове от това семейство – 2n=12+XY (♂). Получена и анализирана е информация за разпределението на AT- и GC-повторите в хетерохроматина на тези видове. И трите вида могат да бъдат сериозни вредители в различни европейски страни и информацията както за застрашени местообитания, така и друга допълнителна информация за тях е ценна. Получените резултати са докладвани на 7th meeting of the IHS, Barcelona, 4-8 July 2022. Изследването е проведено съвместно с колеги от НПН-БАН, а от ИБЕИ – **Д. Томова** и **С. Грозева**.

Обобщена е информацията за 56 вида от 26 рода и 8 семейства щитоносни въшки (Homoptera, Coccomorpha) по различни дървесни видове у нас, както по литературни, така и

по собствени данни, събрани за последните 84 години (след първия подобен списък от 1938 г.). Работата включва последните таксономични и номенклатурни изменения за видовете Coccomorpha, описани за България. В процес на рецензиране за публикуване в списание Redia е статия. В изследването участват колега от ЛТУ и **С. Грозева** (ИБЕИ).

Двукрили

Подготвена е обзорна публикация, фокусирана върху изследванията за оценяване замърсяването в околната среда чрез използването на безгръбначни животни като биоиндикатори. Разгледано е значението на представителите на сем. Chironomidae като важна група биомониторни видове. Техният отговор на цитогенетично ниво, изразен чрез соматични хромозомни аберации и функционални изменения, ги прави перспективен обект за мониторинг на стрес въздействия във водоемите, тъй като предоставят ранни предупредителни сигнали за неблагоприятни дългосрочни ефекти от замърсяването върху екосистемите. Представени са два индекса (соматичен и цитогенетичен), определени на базата на соматични аберации, установени в политенните хромозоми на моделни видове хирономиди. Двата индекса могат да се използват като надежден и ефективен инструмент/метод за оценка степента на генотоксичност на различни токсини. Резултатите са публикувани в научното списание Journal of Research in Environmental and Earth Sciences. Изследването е извършено съвместно с колеги от Университета в Манчестер (Англия). От българска страна участват **П. Михайлова** и **Ю. Илкова** (ИБЕИ-БАН).

Описана е външната морфология на ларвата и политенните хромозоми на *Clunio marinus* Haliday, 1855 (Diptera, Chironomidae, Orthocladiinae) от две находища на Атлантическото крайбрежие. Извършен е сравнителен цитотаксономичен анализ на вида с други видове от род *Clunio*, като са посочени видово специфични осбености, по които отделните видове могат да бъдат детерминирани. Излязла от печат е статия на **П. Михайлова** в списание Zootaxa.

През 2022 г. продължи анализа на ларвен материал от ендемичния вид *Belgica antarctica*, събран в рамките на няколко Украински антарктически експедиции (2007-2021). Видът е съобщен за 26 точки на Антарктическия полуостров и 212 точки на 55 най-близки острови. За някои острови (Wilhelm Archipelago, South Shetland Islands, Palmer Archipelago и други острови от West Coast of Graham Land) видът е съобщен за първи път. Проучването документира първите подробни фотомикрографски изображения и описания на главовата капсула на ларвите и задните параподи. Получените резултати предполагат, че анализираните морфометрични характеристики не са свързани с диференциране на пола. Чрез цитогенетични методи са анализирани политенните хромозоми на вида. Данните за структурата и полиморфизма на хромозомите са подобни на докладваните в предишни изследвания (Atchley and Davis 1979). Трите инверсии, съхранили се за последните 40 години, потвърждават адаптивната им роля и стабилност при промените в местообитанието. Направен е и анализ на хаплотиповете на митохондриална ДНК чрез секвениране на фрагменти на COI ген в индивиди, събрани на Аржентинските острови. Всички анализирани индивиди принадлежат към хаплотип D. Една от последователностите съдържа A->T заместване на позиция 598 (JQ672705.1). Чрез анализ на сборните данни от секвенирането на целия геном на *B. antarctica* са идентифицирани 44 бактериални таксона, потенциално свързани с *B. antarctica*. Резултатите са получени съвместно с украински колеги и са докладвани на два научни форума: 1) с постер на 28th International Polar Conference Potsdam, Germany, 01–05 May 2022, German Society for Polar Research, и 2) с доклад на 10th SCAR Open Science Conference "Antarctica in a Changing World", 01–10 August 2022, Hyderabad, India. От българска страна в изследването участват **П. Михайлова** и **Ю. Илкова** (ИБЕИ-БАН).

Твърдокрили

Установени са нови данни за разпространението и хранителните растения за 31 вида и подвида златки (Coleoptera: Buprestidae) от подсемейство Agrilinae в България. Илюстрирани са някои основни морфологични белези, които позволяват по-доброто диференциране на таксоните *Agrilus angustulus angustulus, A. buresi, A. laticornis* и *A. obscuricollis*. Резултатите са публикувани в Spixiana (Q3). Ръководител **В. Сакалян**, участници **Т. Любомиров**, E. Migliaccio (Италия), В. Гащаров, Д. Дойчев (ЛТУ) и Г. Георгиев (ИГ-БАН).

Представени са нови данни за разпространението и хранителните растения за 19 вида и подвида златки (Coleoptera: Buprestidae) от подсемейство Chrysochroinae в България. Установено е четвъртото находище на Балканския полуостров на *Sphenoptera (Sphenoptera) cuprina cuprina*, който е много рядък в региона. Илюстриран е основният морфологичен белег, позволяващ диференцирането на близките видове *Sphenoptera (Chilostetatha) laportei* и *S. (C.) substriata*. Разработката е дело на колектив с участието на **В. Сакалян** (ръководител), **Т. Любомиров**, E. Migliaccio (Италия), В. Гащаров, Д. Дойчев (ЛТУ) и Г. Георгиев (ИГ-БАН). Статията е публикувана в Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa" (Q4).

Изследвани са сечковците (Coleoptera: Cerambycidae) от Пирин планина на базата на литературни данни и оригинални материали. Установени са 100 вида и подвида от 5 подсемейства. Два таксона (*Oxymirus cursor* и *Tetropium fuscum fuscum*) са нови за планината, а нови локалитети са установени за 13 вида и подвида. Изследваните сечковци принадлежат към 17 ареалографски категории, обединени в 8 комплекса. Доминиращи в района са видовете и подвидовете от Европейския комплекс (34%), следвани от тези от Палеарктичния (17%), Евросибирския (15%), Медитеранския (15%), Европейско-иранотуранския (9%), Балканския ендемичен (5%) и Холарктичния (4%) комплекси. Разработката е изготвена от колектив от ИГ-БАН с участието на **В. Сакалян** (ИБЕИ). Статията е публикувана в Biodiversity Data Journal (Q2).

Установени са нови данни за разпространението в Кения на 12 вида и подвида от 9 рода бръмбари бегачи (Coleoptera: Carabidae). Те принадлежат към подсемействата Anthiinae, Carabinae, Cindelinae, Dryptinae, Panagaeinae. Статията е изработена от **В. Сакалян** (ИБЕИ-БАН) и Г. Георгиев (ИГ-БАН) и е отпечатана в Silva Balcanica.

За пръв път е установен в България редкият, стенотопен степен вид бегач *Carabus* (*Tomocarabus*) *bessarabicus* Fischer von Waldheim, 1823 (Coleoptera: Carabidae). Видът е с висок консервационен статус навсякъде, където се среща. Находката е от Чепън планина и представлява най-югозападното находище на вида, отстоящо на повече от 1200 km от известния му досега ареал. Установени са общо четири екземпляра – три са уловени в почвени капани (1188 m н. в., непосредствено под връх Петров кръст) и един е намерен мъртъв под камък (1020 m н. в.). Видът е индикатор за ненарушени степни местообитания, а високата му значимост налага предприемането на незабавни мерки за включването му в националните и европейски природозащитни документи. Предвижда се също задействане на процедура за обявяване на Чепън планина за защитена територия. Разработката е в съавторство с Н. Коджабашев (ЛТУ) и е публикувана в списание Diversity (Q2 – Scopus). Ръководител: **Т. Теофилова.**

Разгледани са консервационната значимост и разнообразието на местообитанията в Западни Родопи и тяхното значение за фауната от бръмбари бегачи (Coleoptera: Carabidae) в района. Систематизирани са важните местообитания и са оценени заплахите за значимите видове

бегачи. Посочени са основните заплахи и проблеми, свързани с деградацията на местообитанията, както и някои мерки за тяхното смекчаване. Разработката е публикувана в реферирано списание (Biodiversity Journal). Част от резултатите са представени на международна научна конференция през 2019 г. Ръководител: **Т. Теофилова**.

Направено е проучване върху карабидофауната (Coleoptera: Carabidae) в изолирано местообитание – двор на къща без съществено антропогенно въздействие, в планинско село в Западни Родопи. Проучването е проведено с почвени капани, от май 2016 до април 2021 г. Уловени са 2512 екземпляра от 76 вида и 31 рода. Два вида (*Olisthopus rotundatus* и *Ophonus brevicollis*) са нови за Родопите. Наред с типичната планинско-горска фауна, са уловени много екотонни и открито живеещи видове. Екологичната структура на комплекса по отношение на жизнените форми и развитието на летателните крила показва наличие на стабилна околна среда в сравнение с други райони от България. Проучването демонстрира, че дори малките естествени местообитания могат да поддържат забележително разнообразие от видове. По време на 5-годишното проучване се наблюдава известно (както количествено, така и качествено) обедняване на видовия състав, което говори за екологично „изтощаване“ на улова. Разработката е публикувана в Zoology and Ecology (Q4 Scopus). Ръководител: **Т. Теофилова**.

Проучени са видовият състав и екологичната структура на карабидофауната (Coleoptera: Carabidae) в рапични полета и пасища в Румъния. Установени са 82 вида от 29 рода. Най-богати на видове са трибусите Harpalini (25), Amarini (12), Pterostichini (10) и Carabini (9) и родовете *Harpalus* (13) и *Amara* (11). Най-многобройни в рапичните полета са *Poecilus cupreus, Brachinus explodens* и *Brachinus elegans*, а в пасищата – *Pterostichus hungaricus, Calathus fuscipes, Harpalus caspius* и *Cylindera germanica*. Два вида са нови за фауната на Румъния. Разработката е публикувана във Folia Oecologica (Q3 Scopus). Ръководител: **Т. Теофилова**.

Направени са морфометрични измервания на масовия за Европа вид бръмбар-бегач *Poecilus cupreus* (Linnaeus, 1758) (Coleoptera: Carabidae). Екземплярите (по 100 мъжки и 100 женски от всяко находище) са събрани в рапични агроценози в България, Румъния и Германия. Размерите на бръмбарите от България са най-големи, като разликите в морфометричните структури на популациите са статистически значими. Разработката е оформена като публикация в съавторство с Д. И. Ахметова, В. Б. Минязова и Р. А. Суходольская. Резултатите са представени на конференция в Русия и са публикувани в тематичен сборник. Ръководител: **Т. Теофилова**.

Направени са морфометрични измервания на един от масовите за Европа видове бръмбари бегачи *Pterostichus melanarius* (Illiger, 1798) (Coleoptera: Carabidae). Екземплярите (по 100 мъжки и 100 женски от всяко находище) са от различни части на Европа и са събрани преди всичко в агроценози. Установени са изменчивост и вариране в размерите в зависимост от половата принадлежност, климатичните фактори и различните части на ареала на вида. Разработката е оформена като три публикации в съавторство с колеги от Русия и Украйна, които са кореспондиращи автори. Резултатите са представени на две конференции в Русия и са публикувани в списанията Известия Чеченского государственного педагогического университета и Ecologica Montenegrina (Q2 Scopus) и Life (Q2 Scopus). Участник: **Т. Теофилова**.

Изследвана е генетичната изменчивост на водния бръмбар *Elmis maugetii* Latreille, 1798 (Coleoptera: Elmidae) в Европа и Северна Африка. Секвенциите от mtDNA на ново баркодираните екземпляри са сравнени с наличните в основните бази (BOLD и NCBI

GenBank). Генетичното разнообразие е по-ниско в северните райони от Европа. Предполага се, че Балканският полуостров е основният ледников рефугиум на вида, от където започва разселването в останалите части на Европа. Разработката е в съавторство с колеги от Сърбия и Словакия (B. Novaković – кореспондиращ автор, M. Raković, F. Čiampor Jr и I. Živić) и е публикувана Biologia (Q3 Scopus). Участник: **Т. Теофилова**.

Направен е обзор на скарабеоидните бръмбари (Coleoptera: Scarabaeoidea), срещащи се в Сърнена Средна гора. Установени са 100 вида от 5 семейства. Нови за района са 63 вида, а за 84 вида са съобщени нови находища. Разработката е в съавторство с Я. Петрова (кореспондиращ автор), Д. Градинаров, Е. Чехларов и Н. Коджабашев и е публикувана в ZooNotes като част от тематичен сборник за биоразнообразието но Сърнена гора. Участник: **Т. Теофилова**.

Проследена е изменчивостта в размерите на *Pterostichus oblongopunctatus* (Fabricius, 1787) (Coleoptera, Carabidae) в широчинен и дължинен географски градиент. Кривата на установените резултати е пилообразна в съответствие с резултатите от други подобни изследвания върху род *Pterostichus*. Предположено е, че освен на комплекса от екологични фактори във всеки район, това се дължи и на възможна промяна в жизнения цикъл на вида в широчинния градиент. Разработката е съавторство с колеги от Русия. Представена е на конференция в Русия и е публикувана в тематичен сборник. Участник: **Т. Теофилова**.

На базата на теренни проучвания и литературни данни е направен обзор на видовия състав на карабидите (Coleoptera: Carabidae), срещащи се в Пловдив и близките му околности. Изготвен е видов списък от 167 вида, принадлежащи към 56 рода. Десет вида и три рода се съобщават за пръв път за Горнотракийската низина. Установени са както много екологично пластични и евритопни видове, така и някои специфични екстразонални видове, уловени предимно по бреговете на реките Чая и Марица. Зоогеографският анализ показва, че Средиземноморският и Северният Холарктичен комплекс преобладават (общо около 60% от видовете). Анализирани са жизнените форми, предпочитанията към влажността и степента на развитие на летателните крила на видовете бръмбари бегачи. Разработката е приета за публикуване в тематичен сборник за фауната на Пловдив. Ръководител: **Т. Теофилова**.

Hypera postica (Gyllenhal) (Coleoptera: Curculionidae) е един от основните вредители по люцерната в южна Европа и много други райони по света. Подробното описание на кариотипа (морфология, размер, брой на хромозомите и различия в диференциалното им оцветяване) и сравнителния анализ на тези характеристики са важни независими инструменти в таксономията и за разбиране на еволюцията на хромозомите, особено когато съществува филогенетична хипотеза за групата. Съвместно с колеги от Испания бе изследвана популация на *H. postica* от околностите на Lleida (Spain) с цел установяване на хромозомен полиморфизъм между индивидите, и по-специално на пол-детерминиращия механизъм. Определен е броят хромозоми, пол-детерминиращият механизъм и типът на оцветяване с АТ и ГЦ специфични флуорохроми при мъжките. Резултатите потвърждават заключението, че хромозомите не са подходящ белег за разграничаване на видовете от род *Hypera*. Обобщена е наличната в литературата информация за броя хромозоми и пол-детерминиращия механизъм на видовете от род *Hypera*. Представен е ръкопис за публикуване в Comparative Cytogenetics. От българска страна в изследването участва **С. Грозева**.

Направен е обобщен преглед на проучванията и прилагането на подходи за биологичен контрол чрез използване на ентомопатогени срещу селскостопански насекомни вредители като устойчива екологична практика за контролиране на тяхната увеличена плътност в земеделски култури, особено при монокултурите. Разгледани са три вида бръмбари – сивия

царевичен хоботник *Tanymecus dilaticollis*, обикновената житна пиявица *Oulema melanopus* и западният царевичен коренов червей *Diabrotica virgifera virgifera*. Те нанасят големи щети на земеделските култури в някои райони, в които са разпространени. Обобщени са наличните данни и характеристики, свързани с нападенията на вредителите, щетите по растенията, видовия състав на ентомопатогените и изпитванията им срещу целевите видове насекоми. Представеният списък включва вируси, бактерии, гъбни патогени, протозои и нематоди, установени и изпитани спрямо трите вида насекомни вредители или общо: 7 патогена при сивия царевичен хоботник *T. dilaticollis*, 12 патогена при обикновената житна пиявица *O. melanopus* и 32 патогена при западния царевичен коренов червей *D. v. virgifera*. Ръкописът е приет за публикуване в North-Western Journal of Zoology. Ръководител: **Д. Таков,** съвместно с Д. Велчев (Институт по царевицата, ССА), **Т. Тошова** и **Д. Пиларска** (по проект ФНИ КП-06-Н51/1/2022 г.).

Пеперуди

Разработена е нова методика за изучаване на сравнителната анатомия на ендофалуса при пеперудите. Тя позволява едновременно надуване и фиксиране на структурата. Качеството на фиксацията позволява прилагането на различни техники за наблюдение – светлинна, сканираща и конфокална микроскопия, както и хистологични и ултраструктурни изследвания. Резултатите са публикувани в Zoomorphology (Q2). Ръководител: **Б. Златков** (ИБЕИ-БАН). Участници: В. Вергилов, О. Сивилов, J. V. Pérez Santa-Rita, J. Baixeras.

Установен е нов вид пеперуда за фауната на България – *Klimeschia transversella* (Zeller, 1839) (Douglasiidae). Ларвите и се хранят с мащерка (*Thymus* spp.), но не е регистриран като вредител по култивирани растения. Резултатите са публикувани в Historia naturalis bulgarica (SJR). Ръководител: Ц. Цветанов. Участник: **Б. Златков** (ИБЕИ).

Ципокрили

Публикуван е осъвременен нов чеклист на българската мирмекофауна. Съобщени са 195 вида мравки от 43 рода, срещащи се в България. Към последния български каталог на мравките (от 2010 година) са добавени 44 вида, а 24 са синонимизирани или изключени след критичен анализ на последните таксономични ревизии. Обсъдено е състоянието и разпространението на 12 вида, описани от България, 23 вида са ендемични и субендемични за страната, 19 вида са с природозащитен статус и четири са екзотични. Резултатите са принос към таксономията и фаунистиката на мравките в България. Получените резултати са публикувани в Biodiversity Data Journal (Q2). Ръководител А. Лапева-Гьонова (БФ-СУ), участник **В. Антонова** (ИБЕИ).

Въздействията върху околната среда и дивата природа причиняват големи загуби на биоразнообразие. Интензификацията на селското стопанство води до фрагментация и загуба на естествени местообитания, местна растителност и места за гнездене и размножаване на много насекоми. Разбирането на адаптивността на насекомите към тези променящи се условия на околната среда е от решаващо значение за прогнозиране на тяхното оцеляване. Земните пчели, които са ключови опрашители на диви и култивирани растения, се използват като моделни видове за оценка на адаптацията на насекомите към антропогенни стресови фактори. Изследвани са ефектите от земеделския натиск върху два широко разпространи и често срещани европейски земни пчели, *Bombus pascuorum* (Scopoli, 1763) и *Bombus lapidarius* (Linnaeus, 1758). Чрез метода ДНК-секвениране, свързано с рестрикционно място (Restriction-site Associated DNA sequencing – RADSeq), за идентифицирани локуси под селективен натиск в земеделски-естествени градиенти от 103 места в рамките на 16 държави в Европа. Идентифицирани са 191 уникални локуса в *B. pascuorum* и 260 в *B. lapidarius*. По-

нататъшното изследване предполага инденфициране на няколко протеина, включително протеини за развитие на нервната система, мускулатурата или свързани с детоксикация, които все още не валидирани. Тези резултати дават представа за селското стопанство като стресов елемент за земните пчели и сигнал за действие за опазване в светлината на продължаващите антропогенни промени. Резултатите са публикувани в Frontiers in Genetics (Q2). Колективът е с водещата роля на K. Maebe (Гент, Белгия) и с участие на **Т. Любомиров**.

Изменението на климата е важен фактор за разпространението на вредители и хищници по медоносната пчела. Те оказват въздействие върху един от икономически най-важните опрашители и по този начин представляват сериозна заплаха за функционирането както на естествените екосистеми, така и на културите. Изследвано е въздействието на прогнозираното изменение на климата в периодите 2040–2060 и 2060–2080 г. върху потенциалното разпространение на европейския пчелен вълк *Philanthus triangulum* (Fabricius, 1775) – специализиран хищник върху медоносната пчела. Моделирано е неговото потенциално разпределение, използвайки метода MaxEnt въз основа на съвременни данни за неговото разпространение и биоклиматични променливи. Моделът показва цялостно добро представяне (AUC = 0.864) и прагът на вероятността за поява, оценен като точка с най-висок сбор от чувствителност и специфичност е 0.533. Годишният температурен диапазон (69.5%), средната температура през най-топлата четвърт (12.4%) и валежите през най-топлата четвърт (7.9%) са основните биоклиматични променливи, които значително влияят върху потенциалното разпространение на европейския пчелен вълк. Прогнозирани са потенциалните промени в разпространението в рамките на два сценария (оптимистичен RPC4.5 и песимистичен RCP8.5) и три глобално циркулационни модела (HadGEM2-ES, IPSL-CM5A-LR и MPI-SM-LR). Както оптимистичните, така и песимистичните сценарии показват, че изменението на климата значително ще увеличи наличието на потенциални ниши за европейския пчелен вълк. Загубите на потенциални ниши ще засегнат само малки области в Южна Европа. Повечето от очакваните промени за периода 2060–2080 г. вече ще са настъпили през 2040–2060 г. Прогнозираното разширяване на ареала на *P. triangulum* предполага, че разпространението и обилието на местните популации на този вид трябва да бъдат подложени на мониторинг. Резултатите са публикувани в Regional Environmental Change (Q2). Колективът е с водещата роля на R. Puchałka и с участие на **Т. Любомиров**.

Установени са шест вида от семейство Ichneumonidae, подсемейство Campopleginae (Insecta: Hymenoptera) от провинция Фарс в южен Иран на основата на материал, събиран по методика за масов улов на летящи насекоми чрез преграда по траекторията на полета. С първи регистрации за страната са видовете *Campoletis katalinarum* Vas, 2019 и *Lemophagus foersteri* (Tschek, 1871); четири вида са описани като нови за науката: *Campoletis rubella, Cymodusopsis riedeli, Lemophagus eburnipes* и *Melalophacharops persicus*. Представен е ключ за определяне на Палеарктичните видове от род *Cymodusopsis* Viereck, 1912. Резултатите са публикувани в Zootaxa (Q2). Колективът, представил резултатите, е с водещата роля на Vas Zoltan и с участие на **Т. Любомиров**.

Направен е преглед на фауната от 13 семейства ципокрили насекоми (Ampulicidae, Bembicidae, Bethylidae, Chrysididae, Crabronidae, Evanidae, Gasteruptidae, Heloridae, Pemphredonidae, Pompilidae, Psenidae, Sphecidae and Vespidae) от територията Кавказкия резерват Лагодехи (източна Грузия). На основата на материал от 1797 екземпляра, събиран по методика за масов улов на летящи насекоми чрез преграда по траекторията на полета, са регистрирани 94 вида. За фауната на Грузия са съобщени за пръв път три семейства (Heloridae, Gasteruptiidae и Bethylidae), 14 рода и 57 вида. Проучването подчертава значението на включването на изследваните защитени територии в опазването на разнообразието на ципокрилите насекоми и в допълнение демонстрира, че разнообразието от

насекоми трябва да се изучава отделно и по адекватни методи на регистрация, тъй като не следва непременно същите модели като други групи организми (напр. гръбначни животни или растения). Резултатите са публикувани в Annals of Agrarian Science. В авторския колектив участва **Т. Любомиров**.

Установени са три вида от семейство Ichneumonidae – подсемейство Campopleginae (Insecta: Hymenoptera) от България на основата на материал, събиран по методика за масов улов на летящи насекоми чрез преграда по траекторията на полета и светлинни ловилки. С първи регистрации за страната са видовете *Casinaria subglabra* Thomson, 1887 и *Nemeritis graeca* Hortsmann, 1975. Един вид (на основата на единствен женски екземпляр) е описан като нов за науката – *Echthronomas kolarovi*. Резултатите са публикувани в международно издание. Колективът е с водещата роля на Vas Zoltan и с участие на **Т. Любомиров**.

Представени са резултати от теренни проучвания, фокусирани върху разнообразието от семейство Pteromalidae (Hymenoptera) в десет полета с маслодайна рапица на територията на пет общини в централна България. На основата на материал от общо 93 птеромалидни екземпляра събрани чрез „косене“ на граничната линия или вътре в полето с маслодайна рапица бяха са установени 26 вида. Най-разпространеният род е *Mesopolobus* – 67% от взетите проби птеромалиди. Най-многоброен в пробите е видът *Mesopolobus morys* (Walker, 1848) – добре известен паразит по зелевият бръмбар-хоботник *Ceutorhynchus obstrictus* (T. Marsham, 1802) в Европа. Един вид – *Halticoptera patellana* (Dalman, 1818) – е установен за първи път за българската фауна. Резултатите са публикувани в Travaux du Biorisk (SJR). Ръководител **И. Тодоров,** участник **Т. Любомиров**.

Анализиран е видовият състав, обилието и видовото разнообразие на успешно имагиниралите от шипкови гали насекоми в условията на липсващ период на хибернация. През есента на 2018 г. са събрани голям брой гали от районите на Западна и Централна Стара планина и Западните Родопи, които веднага са поставени в лабораторни условия и по този начин не е предоставен пълноценния период на диапауза, който нормално се случва в природата през зимата. Получените данни са сравнени с тези от предходно изследване на същия галов комплекс за територията на Витоша, при което събраните гали са събирани по-късно през студения сезон и при които хибернацията на ларвите в галовите камерки е била започнала. Направено е и сравнение с резултати за видовия състав и обилието от изследвания на други автори, които са посочили условията на отглеждане на насекомите. Установени са 18 вида паразитоиди от семействата Eulophidae, Eupelmidae, Eurytomidae, Pteromalidae, Torymidae и Ichneumonidae. Изчислените индекси на Shannon-Wiener (H'), Margalef (d'), Pielou evenness (J') и Simpson показаха умерено видово разнообразие за изследваните райони. Основните заключения, получени на базата на резултатите от проведеното изследване и сравненията с предходни такива са следните: 1) Отсъствието на период на хибернация повлиява значително и в негативен аспект преживяемостта на ларвите на галообразувателя *D. rosae*, в резултат на което тяхната смъртност е много висока; 2) Значително намалява и преживяемостта на останалите галови обитатели – ларвите на паразитоидите и инквилините; 3) Въпреки отрицателното влияние върху броя индивиди, условията на отглеждане не понижават видовото богатство в съобществото и то остава високо. Освен тези резултати са получени и данни за някои конкретни видове – *Eurytoma caninae* и *Eupelmus fulvipes* са нови съобщения за фауната на България, *Oomyzus galerucivorus* е установен за първи път в гали на *D. rosae* (нова асоциация с този гостоприемник), а един вид от род *Stepanovia* е нов за науката и е описан в друга публикация, коментирана по-надолу. Статията за шипковите гали е публикувана в Biologia. Ръководител: **И. Тодоров**. Участници: А. Стоянова, П. Бояджиев и М. Антов (Пловдивски университет „Паисий Хилендарски“).

Направен е обзор на данните, публикувани до момента, отнасящи се за видове от надсем. Chalcidoidea за територията на Сърнена Средна гора, а също така са добавени и оригинални данни от колекционни материали на авторите. Установени са 15 вида от Eulophidae, 11 вида от Eupelmidae, 7 вида от Eurytomidae, 2 вида от Megastigmidae, 3 вида от Ormyridae, 9 вида от Pteromalidae и 4 вида от Torymidae. От тях 35 вида са нови съобщения за региона, а два вида са нови за фауната на България – *Neotrichoporoides biogradensis* Graham, 1987 (Eulophidae) и *Miscogaster hortensis* Walker, 1833 (Pteromalidae). Работата е публикувана в ZooNotes (Georgiev, D., Bechev, D. & Yancheva, V. (Eds.) Fauna of Sarnena Sredna Gora Mts, Part 3). Ръководител: М. Антов (Пловдивски университет „П. Хилендарски“. Участници: А. Стоянова, П. Бояджиев, Е. Котева (Пловдивски университет „Паисий Хилендарски“, Биологически факултет); **И. Тодоров** (ИБЕИ–БАН).

Проучването е фокусирано върху комплекс от паразитоидни ципокрили насекоми, обитаващи съцветията на гигантския карамфил *Dianthus giganteus* d'Urv. (Caryophyllaceae) в района на с. Арбанаси (област Велико Търново). От събраните съцветия е изведен богат на видове материал, състоящ се от хоботника *Sibinia subelliptica* (Desbrochers, 1873) и комплекс от 11 вида халцидоидеи – по два вида от семействата Eulophidae, Eupelmidae и Pteromalidae, четири вида от Eurytomidae и един вид от Torymidae. От тях *Eurytoma coleophorae* Zerova и *E. coleopterae* Zerova (Eurytomidae) са нови съобщения за фауната на България. Трофичната асоциация на хоботника *S. subelliptica* с гигантския карамфил *D. giganteus* е съобщена за първи път за науката. Всички установени взаимовръзки на изведените ципокрили насекоми с този гостоприемник (*S. subelliptica*) са оригинални и не са съобщавани по-рано. Също така всички халцидоидеи, с изключение на *Eupelmus barai* и *E. microzonus* (Eupelmidae), са съобщени за първи път като свързани с този вид растение. Направен е обзор на известните до момента данни за биологията на видовете, имагинирали от събраните съцветия. Работата е публикувана в сп. Graellsia. Ръководител: М. Антов (Пловдивски университет „Паисий Хилендарски“). Участници: А. Стоянова, П. Бояджиев (ПУ); **И. Тодоров** (ИБЕИ-БАН) и R. Askew (Франция).

Stepanovia Kostjukov, 2004 е класифициран като таксон с надвидов ранг на базата на видовата група *aurantiacus* от род *Aprostocetus* Westwood, 1833 и съдържа 10 вида с палеарктично разпространение. Шест от тях са свързани с гали на сем. Cynipidae (Hymenoptera) по растения от род *Rosa* (Rosaceae). Установеният по време на изследването върху шипковите гали нов вид от *Stepanovia* е морфологично близък до *S. rosae* Boyadzhiev & Todorov, 2013 и е описан под името *Stepanovia rosaeformis* Boyadzhiev & Antov, 2022. Изготвен е и определителен ключ за известните до момента видове от тази група, асоциирани с цинипидни гали. Статията е публикувана в сп. Spixiana. Ръководител: **И. Тодоров** (ИБЕИ-БАН). Участници: П. Бояджиев и М. Антов (Пловдивски университет).

Мекотели

При проучване на зообентоса по поречието на река Въча при град Кричим е намерен интересен представител на семейство Hydrobiidae. На основата на събрания материал е описане нов вид за науката – *Devetakia apostoli* n. sp. и е дискутиран неговия произход. Видът е първият представител на рода и първият вид от древния клад на Hydrobiidae от района на Западни Родопи. С новооописания вид видовете от род *Devetakia* стават общо пет. В публикацията е предложен ключ за тяхното определяне. Статията е публикувана в Historia naturalis bulgarica (Q4). Участник от звеното: **И. Дедов**.

На основата на материал, събран през 2012 г. в района на Лешнички водопад, Беласица, е описан нов за науката вид – *Bythinella fabiae* n. sp. Новият вид е описан от Югозападна

България, територия, която заедно с близките гранични територии на Гърция и Северна Македония, остава слабо проучена откъм сладководни мекотели, в т.ч. надсемейство Rissooidea. Направено е детайлно анатомично и конхиологично проучване на новият вид, като той е сравнен с близките му видове от рода в България и съседни държави. Предложен ключ за определяне на видовете от рода в тази част на Балканите. Статията е публикувана в Historia naturalis bulgarica (Q4). Участник от звеното: **И. Дедов**.

Концепцията за "миден часовник" в биомониторинговите изследвания е елемент на редица международни програми. Но се прилага за пръв път у нас. Извършен е полеви експеримент с миди, отглеждани в клетки, в три сладководни водни басейна (в Кърджали, язовирите Студен кладенец и Жребчево в България) за проследяване на вредните ефекти от субхронично замърсяване (30 дни) на метали, микро- и макроелементи, както и на някои органични токсични вещества, като полибромирани дифенил етери и хлорирани парафини. Изследвани са биометричните показатели, хистохимичните лезии в хрилете, биохимичните промени в храносмилателните жлези (антиоксидантни защитни ензими, като каталаза, глутатион редуктаза и глутатион пероксидаза; метаболитни ензими, като лактат дехидрогеназа, аланин аминотрансфераза и аспартат аминотрансфераза и невротрансмитер холинестераза), в допълнение и увреждането на ДНК в Китайска блатна мида, *Sinanodonta woodiana* (Lea, 1834). Установени са значителни корелационни тенденции между нивата на замърсяване и „отговорите' на биомаркерите. И двата тествани органа са податливи на оксидативен стрес, предизвикан от замърсяване. Различните промени в избраните биомаркери са свързани с различните видове и нива на замърсяване на водата. Резултатите са публикувани от международен колектив с участие на **Ц. Часовникарова** в списание Heliyon.

Птици

За популациите в периферните части на ареалите на планинските видове е известно, че са особено уязвими към промени в околната среда – както по отношение намаляване на площта на техните местообитания, така и по отношение на изолацията. Изискванията към местообитанията при два бореално-алпийски вида сови – пернатоногата (*Aegolius funereus*) и врабчовата кукумявка (*Glaucidium passerinum*) – са изследвани в техни рефугиални популации в Западните Родопи. Използвани са данни за присъствието на видовете за идентифициране на значими фактори, обуславящи тяхното наличие. Резултатите показват привързаността на пернатоногата кукумявка към сравнително гъсти гори (висока степен на склопеност), големи дървета (с диаметър ≥50 cm) и голямо количество паднала суха маса в предпоследен стадий на гниене. За врабчовата кукумявка като единствена значима променлива е установено общото количество на падналата дървесна суха биомаса. Резултатите показват предпочитание на двата вида сови към гори със структурни елементи, които са типични за горите във фаза на старост (дървета-ветерани, суха биомаса и др.), като врабчовата кукумявка е склонна към обитаване на по-слабо повлияни гори. Намирайки се в периферията на своите ареали в Европа, двата вида сови имат висок консервационен статус на Балканския полуостров. Затова са нужни допълнителни усилия за тяхното опазване в светлината на климатичните промени и последващите изменения в горските структурни параметри. Получените резултати могат да се използват за оптимизиране на горскостопанските практики в посока осигуряването както на устойчиви приходи от дървесината, така и за дългосрочното оцеляване на видовете. **Б. Николов** и съавтори, списание Avian Research.

Изследвана е ориентацията на тялото спрямо геомагнитното поле на блатни шаварчета (*Acrocephalus scirpaceus*), хванати по време на есенната им миграция, при експерименти с изкуствено отложен залез с два часа. Блатните шаварчета са нощни мигранти, мигриращи от

гнездовите си територии в Евразия до местата си на зимуване на юг от Сахара. Сравнението на резултатите след двуседмичен експеримент между контролните птици, тествани при естествения фотопериод и експерименталната група с отложен залез, показва, че ориентацията на тялото на птиците е запад-изток преди залез и се променя на североизток-югозапад след залез, което съответства на характерната за вида посока на миграция. Резултатите подкрепят хипотезата, че ориентацията на тялото спрямо геомагнитното поле може да е свързана с това как небесните и магнитните ориентири са интегрирани в компаса на мигриращите птици. Статията е публикувана във Journal of Comparative Physiology A, съвместно с учени от Швеция, с водещ автор G. Bianco от Университета на Лунд и участник от българска страна **М. Илиева**.

Бозайници

Проведен е интегративен анализ на изолирана популация на полевката *Microtus hartingi* от Източните Родопи чрез морфологични и морфометрични методи, компютърна томография, данни за генната секвенция на *Cyt b* и експериментална хибридизация. Установени са значителни изменения в развитието на черепа и зъбите. Филогенетична реконструкция, базирана на *Cyt b* последователности, показа, че *M. hartingi* от Източните Родопи образува отделен клад, който е сестрински на полевките от Североизточна Гърция. M. hartingi от Родопите е изолиран репродуктивно от *M. h. ankaraensis* от Мала Азия (Турция), както се вижда от малкия дял размножаващи се двойки при експериментална хибридизация, относително високата смъртност на хибридното поколение и повишената стерилност на хибридните мъжки. Обсъжда се възможното време на изолация на родопската популация и последиците от ефекта bottle neck върху сегашното ѝ състояние. Необходимо е популацията от Източните Родопи да бъде призната за застрашена популация и да бъде включена в националните природозащнитни мерки. **Н. Атанасов**, съвместно с учени от Русия и Латвия, публикация в списание *Diversity*.

Вътревидовият и междувидовият генни потоци са естествени еволюционни процеси, но основен проблем за опазване на таксоните е предизвиканата от човека хибридизация. За това от съществено значение е развитието на дискриминанти генетичните маркери за разграничаване на процесите на генен поток. Вълците (*Canis lupus*) са засегнати от хибридизация, особено в Южна Европа, където продължава реколонизация на исторически за вида ареали, което увеличава генния поток сред различните популации. Доказана е ефективността и високата информативност на SNP (единични нуклеотидни полиморфизми) диагностични маркери за установяване на хибридизацията при 5 вида представители на сем. Кучета. Методът е приложим при различни начини за събиране на материал, вкл. и неинвазивни. Той позволява интерпретирането на резултатите, получени в различни лаборатории, без да е необходимо калибриране – много важно условие при изследването на широко разпространени видове като представителите на сем. Кучета. Чрез разделянето на естествената популационна смес от междувидовидовите хибриди, дефинираният панел може да помогне за напредъка на еволюционните изследвания, мониторинга и своевременно управление на консервационните процеси. Международнен екип с участието на **А. Власева** и водещ автор A. V. Stonen, публикация в *Scientific Reports.*

Публикувано е проучване, с което е тествана хипотезата, че вълкът в Осоговската планина избира своята плячка опортюнистично, с предпочитание към най-изобилната плячка (апостатична селекция). За целта е извършена едновременна оценка на плътността на плячката чрез фотокапани. Резултатите показват, че дивата свиня е най-предпочитаната плячка, последвана от домашните коне. Сърната има по-малък, почни незначителен дял. Индексът на селективност също потвърди доминирането на дивата свиня в диетата на вълка

във всички сезони и всички години на изследването. Активното предпочитание към дива свиня е антиапостатично по природа, тъй като плътността на дивата свиня е 10 пъти по-ниска от тази на сърната. Новите резултатите от 2018-2020 г. се различават от тези, получени от предишно проучване в същия регион през 2002–2003 г., когато сърната представлява 71.9% от диетата на вълка. **Н. Долапчиев**, съвместно с колеги от СУ (Д. Златанова, Е. Попова, П. Петров) и ПП Витоша (Н. Дойкин), публикация в списание *Acta Zoologica Bulgarica*.

Характеризирани са параметрите на нарастване на 2-годишна мъжка кафява мечка от Старопланинската субпопулация за една година в естествени условия. Установено е, че наличието на ниска до средна степен на инвазия с паразитния нематод *Baylisascaris transfuga* (Ascarididae) не води до задържане на растежа. В. Тодоров и К. Вълчинкова (ИБЕИ), съвместно с К. Кънчев (ЛТУ). Публикация в Historia Naturalis Bulgarica.

Балканската дива коза (*Rupicapra rupicapra balcanica*) е широко разпространена на Балканския полуостров – в планинските масиви от Хърватия на север до Гърция на юг и до България на изток. Предходните познания за генетичната структура на популациите на балканската дива коза са ограничени до няколко локални изследвания. През 2022 г. е публикувано ново изследване, включващо популации от целия полуостров. Използвани са ядрени маркери (16 микросателита) и митохондриални маркери (частичен контролен регион от 376 базови двойки). Извлечена е ДНК от кости, изсушена кожа и мускулна тъкан, като успешно са генотипирани 92 индивида. Анализът разкри 3 клъстера, като индивидите от Сърбия и България се причисляват към два отделни клъстера, докато индивиди от другите страни принадлежат към един клъстер. Характеризирани са 13 нови хаплотипа от частични митохондриални ДНК последователности, със специфични хаплотипове във всички анализирани популации. Само два хаплотипа са разпространени във всички популациите, което показва възможни минали транслокации. Представеният генетичен състав на подвида предоставя е отправна точка за оценка на консервационния статус на балканската дива коза и позволява разработването на консервационни стратегии, необходими за нейното устойчиво управление и опазване. Международен колектив с участието на **Г. Марков** (ИБЕИ). Статия в списание Conservation Genetics.

Обзорна статия са разгледани данните и хипотезите за одомашняване на конете. Отразени са съвременните хипотези за одомашняването на конете в края на Бронзовата епоха (преди около 5.5 хил. г.) и последващото им разпространение, основани на генетични и археологични данни. В резултат на натрупаните нови данни за последните 5 години, най-достоверна е хипотезата за одомашняване на конете в региона на Северното Причерноморие, последвано бързо разпространение в посока на южно разположени високо развити цивилизации в Мала Азия и Близкия изток, вероятно провокирано от военни експанзии. Разгледани са две посоки на разпространение – Кавказка (Източно-причерноморска) и Балканска (Западно-причерноморска). Това разселване е съпроводено с изместване на характерните Анадолски (малоазийски) митохондриални генотипове на дивите коне от Анадола от специфични и доскоро смятани за средно-азиатски генотипове – Q и G. Археогенетичните изследвания на кавказки и балкански диви коне показват, че тези митохондриални генотипове са характерни за местните диви представители. **Н. Аценова, Б. Неов, Г. Радославов, П. Христов** (кореспондиращ автор), съвместно с Н. Палова и И. Механджийски (Селскостопанска академия); публикация в Journal of Equine Veterinary Science (Q2).

Събран е биологичен материал (кръв и косми) от няколко местни породи овце, отглеждани в контролирани условия. От 6 породи овце (Котленска, Черноглава плевенска, Брезнишка, Старозагорска, Среднородопска и Маришка) е изолирана тотална ДНК и намножен фрагмент,

обхващащ митохондриалния интергенен хипервариабилен регион (HVR, D-loop). Секвенирани и анализирани са около 200 проби от изследваният ДНК фрагмент. Резултатите показват значително генетично разнообразие от митохондриални хаплотипове, разпределени в двете очаквани митохондриални групи – европейско-специфичната група B (~80%) и анатолийската A (~20%). Допълнително е събран биологичен материал от Медночервена шуменска и Каракачанска порода овце за предстоящи анализи. Част от пробите са подложени на микросателитен анализ за установяване генетично сходство и интербридинг. Резултатите за местната Среднородопската овца и съвременно създадената порода Родопски Цигай (между местни и породисти животни от порода Цигай) са публикувани. Резултатите показват хетерогенна структура на двете групи и висока степен на хетерозиготност. Важен елемент от това изследване е установяването на запазената чистопородна структура на местната порода. Резултатите са публикуване в списание Diversity. **П. Христов** и **Г. Радославов**, съвместно с Ц. Оджакова и П. Тодоров (Селскостопанска академия).

2.2. НАУЧНО-ПРИЛОЖНИ ПОСТИЖЕНИЯ

Изследвано е въздействието на инвазивния вредител кафява миризливка *Halyomorpha halys* (Hemiptera: Pentatomidae) върху различни селскостопански плодове (лешници, боровинки, мандарина, лимон) в регионите Гурия и Самегрело, Грузия. Оценено е увреждането на лешниковите ядки, когато възрастните на *H. halys* са оставени да се хранят с ранни стадии на развитие на ядки, с ядки с все още невтвърдени черупки или с напълно развити ядки. Показано е, че лешниците са податливи на повреди, причинени от храненето на *H. halys* през целия период на развитие на ядките, особено в техния ранен стадий на развитие. Освен това миризливката уврежда много боровинките, когато плодовете са почти узрели. Плодовете на мандарина в ранните, както и в по-късните стадии на развитие също са повредени от вредителя и падат на земята преждевременно. Показано е, че плодовете на лимона не са податливи на щети, причинени от *H. halys*. Изследването е реализирано от екип с ръководител: М. Кереселидзе (Научно-изследователски център по земеделие, Тбилиси, Грузия). Участници: **Д. Пиларска**, А. Линде (Университета за устойчиво развитие, Еберсвалде, Германия) и Н. Гунтадзе (Аграрен университет, Грузия). Резултатите са публикувани в *Turkish Journal of Zoology* (Q3).

Западният царевичен коренов червей *Diabrotica virgifera virgifera* е инвазивен вид, който е важен неприятел по царевицата в Европа включително и в България. В търсене на алтернативни средства за борба с вредителя проучихме инсектицидните свойства на етерично масло от бял риган, *Origanum vulgare* subsp. *hirtum* (продукт на ИБЕИ-БАН) и на ентомопатогенната гъба *Metarhizium pemphigi* спрямо възрастни индивиди на този вид в лабораторни условия. Чистото етерично масло, изпитано в количества 3 µl, 5 µl и 10 µl, доведе до 97-100% средна коригирана смъртност на опитните насекоми с бърз летален ефект. При третирането на други индивиди на целевия вид с различни концентрации на етеричното масло (0.01, 0.1, 1 и 10 µl/ml) средният процент коригирана смъртност се увеличаваше с нарастване на концентрацията и времето след третиране. Средната летална концентрация LC_{50} беше 0.03 µl/ml. Средното летално време LT_{50} вариираше от 18 дни до 90 минути в зависимост от концентрацията. Ентомопатогенната гъба *M. pemphigi*, изпитана в пет конидиални концентрации ($2 \times 10^3 – 2 \times 10^7$ конидии/ml), показа относително по-ниска ефективност спрямо възрастните на *D. v. virgifera*. Десет дни след началото за екперимента средната коригирана смъртност варира от 14% при най-ниската концентрация до 73% при най-високата концентрация. LC_{50} беше 3.3×10^6 конидии/ml. Резултатите от това изследване показват, че етеричното масло от бял риган има инсектициден ефект и при ниски концентрации срещу западния царевичен коренов червей. Те са основа за бъдещи изследвания на белия риган като алтернатива на химичните инсектициди. Публикацията е

излязла от печат в Cereal Research Communications. Ръководител: **Т. Тошова,** съвместно с Д. Велчев от Институт по царевицата, М. Барта от Словашката академия на науките, **Д. Таков**, **И. Тодоров**, **Д. Пиларска**, М. Тот от Институт по растителна защита в Будапеща, **С. Берков** и **М. Николова**. Разработката е в рамките на Националната научна програма „Здравословни храни за силна биоикономика и качество на живот“.

В рамките на съвместен проект, финансиран от ФНИ, с Института по микробиология при БАН, се разработват и тестват нови биологични подходи за ограничаване на инфекциозна патология при риби със значение за аквакултурите чрез използване на пробиотици и техни постметаболити. Набавена е система за контролирана среда за отглеждане в оптимални условия на моделни организми – риби от вида обикновен шаран *Cyprinus carpio*. За нуждите на проекта е набавен щам на Koi herpesvirus и клетъчна линия CCB (*Cyprinus carpio* brain), в която вирусът се реплицира успешно. Направен е обстоен литературен обзор на възможностите за използване на пробиотици за редуциране или предотвратяване на инфекция с Koi herpesvirus при отглеждането на аквакултури. Резултатите са обобщени в статия, приета за печат в международното специализирано списание *Acta Microbiologica Bulgarica* (**Г. Атанасов,** съвместно с колеги от Института по микробиология при БАН).

Разработени са текстовете за 75 вида птици, включени в Атласа на миграциите на птиците в Евразия и Африка – проект, изпълняван от Европейския съюз за опръстеняване на птиците (EURING) и координиран от Конвенцията за мигриращите видове (Бонска конвенция), финансиран от правителството на Италия. Акцент във всеки видов очерк е частта, посветена на миграционните придвижвания на дадения вид, като за извършване на анализите бяха използвани множество карти (интерактивни и статични), изготвени въз основа на цялата база данни на EURING, както и всички важни литературни източници. Форматът на Атласа (онлайн издание) бе избран с цел максимално лесна достъпност от всички заинтересовани страни, като се предвижда и регулярно осъвременяване на съдържанието с нарастването на информацията в базата данни на EURING. Атласът на миграциите на птиците в Евразия и Африка се очертава да бъде сред основните инструменти, подпомагащи решенията, свързани с опазване и управление на отделни популации, видове или групи от видове птици в изследвания регион, както и стимулиращи бъдещи научни изследвания върху тях. Той се явява първият от набор от атласи, които Конвенцията за мигриращите видове има визията да създаде за в бъдеще – своеобразен Световен атлас на миграциите при животните, който ще допринесе за опазването на голям брой мигриращи животински видове (**Б. Николов**, 75 видови очерка In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds) 2022. The Eurasian African Bird Migration Atlas. https://migrationatlas.org EURING/CMS).

Проведени за изследвания на птиците чрез високо технологични GPS-предаватели за индивидуално проследяване на моделни видове в района на Калиакра (https://www.youtube.com/watch?v=jyJHaNTWpjw). Обобщените данни от предприетите от вятърните паркове в региона на Калиакра мерки и внедрените мониторингови системи са представени на международна научна конференция (https://cww2022.org/), посветена на въздействията на вятърните генератори върху биологичното разнообразие, проведена на 4-8 април 2022 г. в Нидерландия (https://www.youtube.com/watch?v=pW36JCp4kgg). В резултат на представените данни за предприети след задълбочен анализ мерки, Постоянният комитет на Бернската конвенция с единодушно съгласие взе решение да затвори досието по случая "Калиакра", свързан с инвестициите във ВЕИ в Североизточна България. Това стана ясно след като в Страсбург бе прекратено делото за изграждането на ветропаркове в района на Калиакра и Балчик (Agenda Bureau Bern Convention November 2022). Резултатите от тази научно-приложна разработка позволяват развитието на ветроенергийни паркове в хармония с

природата и в съответствие с най-добрите природозащитни практики в тази област. **П. Зехтинджиев, М. Маринов, К. Бедев** и **Н. Йорданов.**

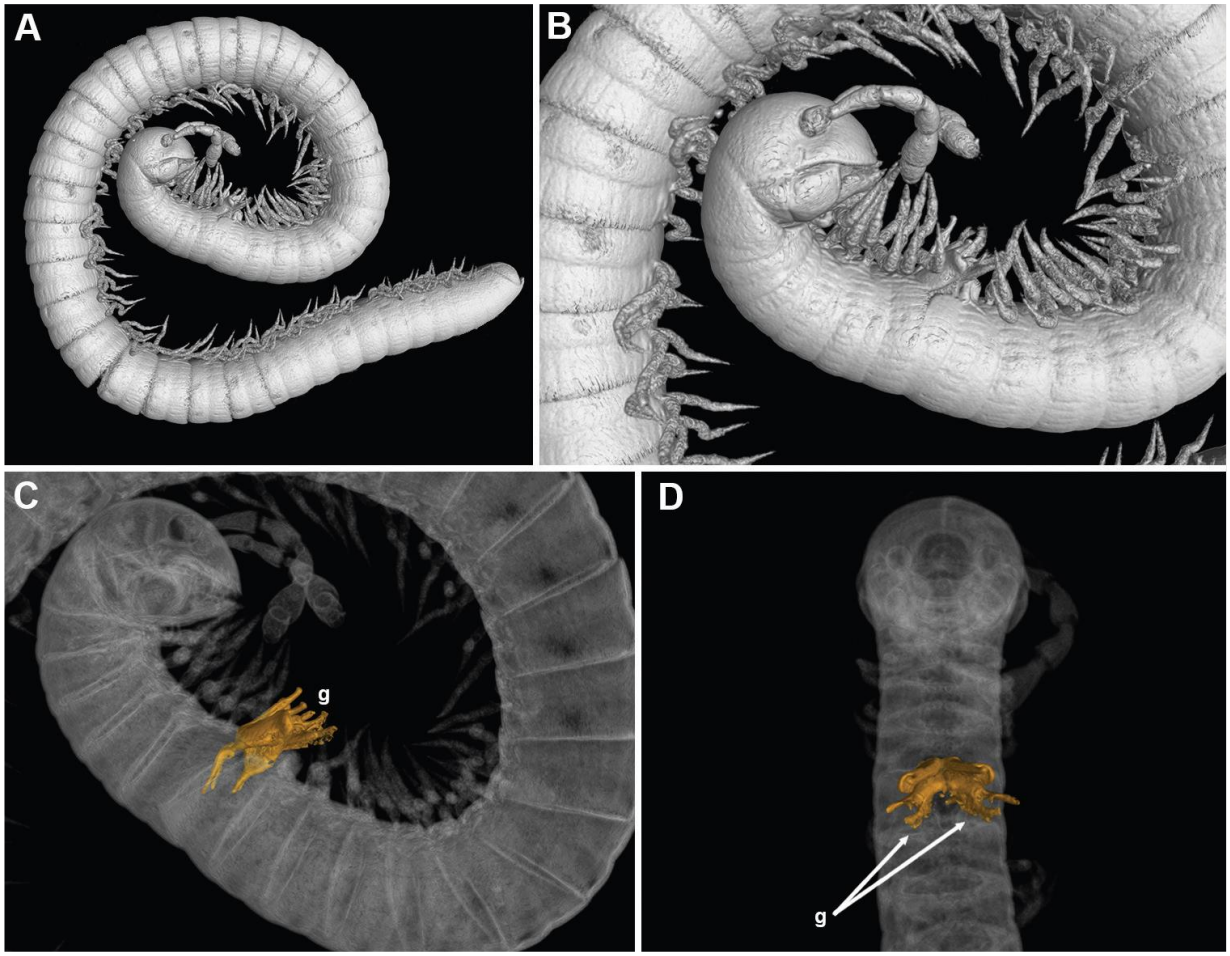
През 2022 г. бяха освободени 24 млади червени ангъча (*Tadorna ferruginea*), излюпени и отгледани в БЕБ „Калимок“ към ИБЕИ-БАН, в рамките на дългогодишна програма за размножаване и реинтродукция на редки видове птици в България. Всички птици са маркирани с индивидуални цветни пръстени, които позволяват разпознаване на индивидите от разстояние, а на две от птиците са поставени GPS-GSM предаватели. Малките червени ангъчи са реинтродуцирани през м. юли в подходящо местообитание в ЗЗ „Белите скали“. Това е част от дългосрочна програма за възстановяване на червения ангъч в тази защитена зона, част от националната мрежа Натура 2000 (**П. Зехтинджиев и колектив**).

Завършени са генетичните изследвания за проучване на историята на формирането на породата Дунавски кон. Анализът на генетичното разнообразие при съществуващите генеалогични линии на конете от тази порода чрез анализ на сателитни маркери показа, че от петте основни линии в тази порода, две се различават от основния характерен генотип. Резултатът може да се обясни с участието в тяхното създаване на разплодни животни, внесени през минали периоди от Сърбия и Унгария. **Н. Аценова, Б. Неов, Г. Радославов и П. Христов**, съвместно с колеги от Българското дружество по коневъдство и Селскостопанска академия. Публикация в списание Veterinary Sciences (Q1).

КРАТКА ФОРМУЛИРОВКА НА ИЗБРАНИ НАУЧНИ И НАУЧНО-ПРИЛОЖНИ ПОСТИЖЕНИЯ (ПРЕДЛОЖЕНИЕ ЗА НА ПРЕДСТАВЯНЕТО НА ИНСТИТУТА В ДОКЛАДА НА БАН)

Научно постижение:

В областта на разнообразието на животните, описани са нови таксони: 1 инфраразред, 1 семейство, 3 рода и 7 вида черупчести амеби (проф. М. Тодоров и кол.), 3 рода и 4 вида многоножки (доц. Б. Вагалински и кол.), 2 вида паяци (доц. М. Наумова и кол.), 2 вида правокрили (д-р С. Борисов, проф. Д. Чобанов и колектив), 5 вида ихнеумонидни оси (доц. Т. Любомиров и кол.), 1 вид халцидни оси (доц. И. Тодоров и кол.) и 2 вида сладководни охлюви (доц. И. Дедов и кол.). Разкрити са непознати по-рано модели на формирането на разнообразието и популационно-генетичната структура на трематодни паразити в дълбоководни риби с прилагане на подходи на интегративната таксономия и епидемиологичния анализ (д-р С. Георгиева, проф. А. Костадинова и кол.). Публикувано е обобщение върху еволюцията на репродуктивната биология при полутвърдокрилите насекоми, включващо данни за над 1000 вида (над 60 семейства) от всички инфраразреди (проф. С. Грозева, д-р Д. Стоянова и кол.). Изследванията са принос към разкриване на биоразнообразието на България и други региони, както и към разбиране на механизмите, отговорни за неговото формиране и поддържане.



Детайли от устройството на новооткрития вид многоножка *Bellatoiulus golovatchi* – общ вид (A, B) и дигитално очертани гоноподи (C, D).

Научно-приложни постижения:

Учени от ИБЕИ провеждат изследвания чрез високотехнологични GPS-предаватели за индивидуално проследяване на моделни видове птици в района на ветроенергийните паркове при Калиакра. Обобщените данни за предприетите мерки и внедрените мониторингови системи са докладвани на научна конференция, посветена на въздействията на вятърните генератори върху биоразнообразието (април 2022 г., Нидерландия). На основата на данните за внедрените предохранителни мерки, през 2022 г. Постоянният комитет на Бернската конвенция взе решение да затвори досието по случая "Калиакра", свързано с инвестициите във ветрогенераторната индустрия в Североизточна България. Резултатите от тази разработка позволяват развитието на ветроенергийни паркове в хармония с природата и в съответствие с най-добрите световни природозащитни практики (ръководител проф. П. Зехтинджиев).

Изследване на поведението на реещи се птици с помощта на високотехнологични GPS-предаватели в района на ветроенергийните паркове при Калиакра

Завършени са генетичните изследвания върху историята на формирането на породата Дунавски кон. Разкритото генетичното разнообразие при генеалогичните линии от тази порода чрез анализ на сателитни маркери показа, че от петте основни линии, две се различават от основния характерен генотип. Резултатите са основа за планиране на развъдната дейност и опазването на чистотата на тази ценна порода (колектив от ИБЕИ с ръководител проф. Г. Радославов, съвместно с колеги от Българското дружество по коневъдство и Селскостопанска академия).

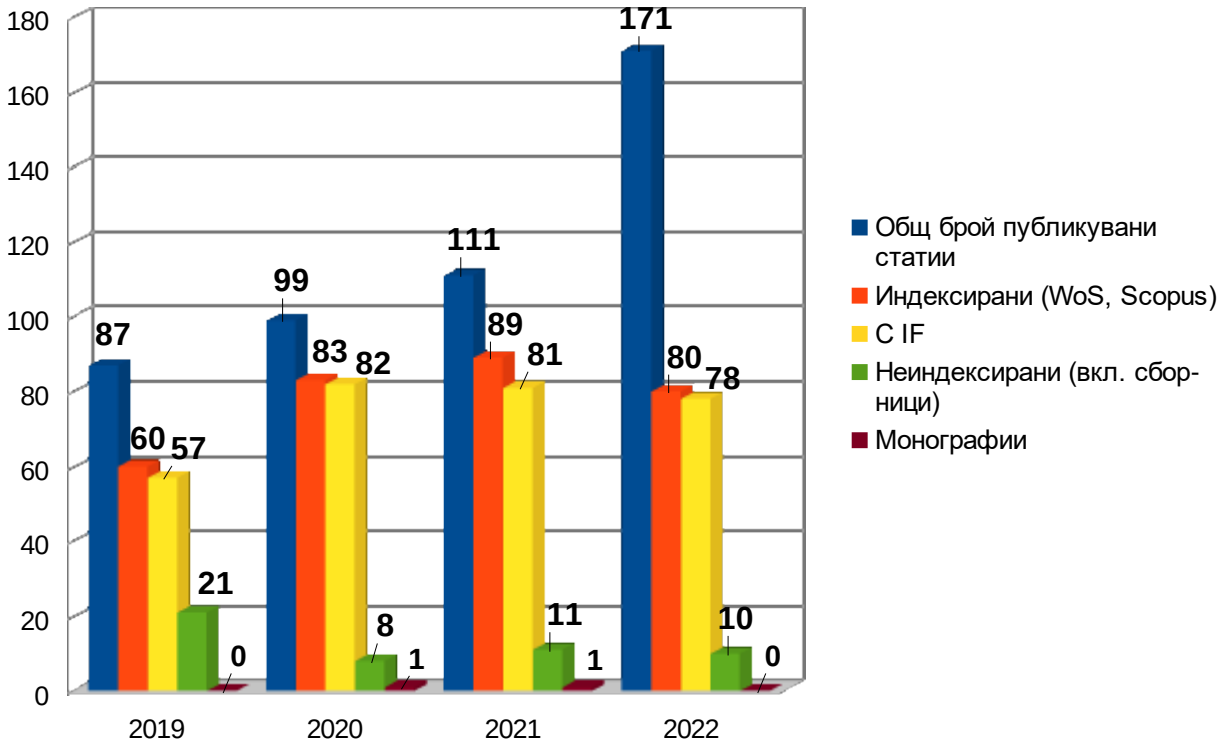
Типичен представител на породата Дунавски кон

3. ПУБЛИКАЦИИ – 2022 г. (извадка от SONIX 11.01.2023 г.)

Подробен списък е представен в **Приложение 1**.

Обобщени данни:

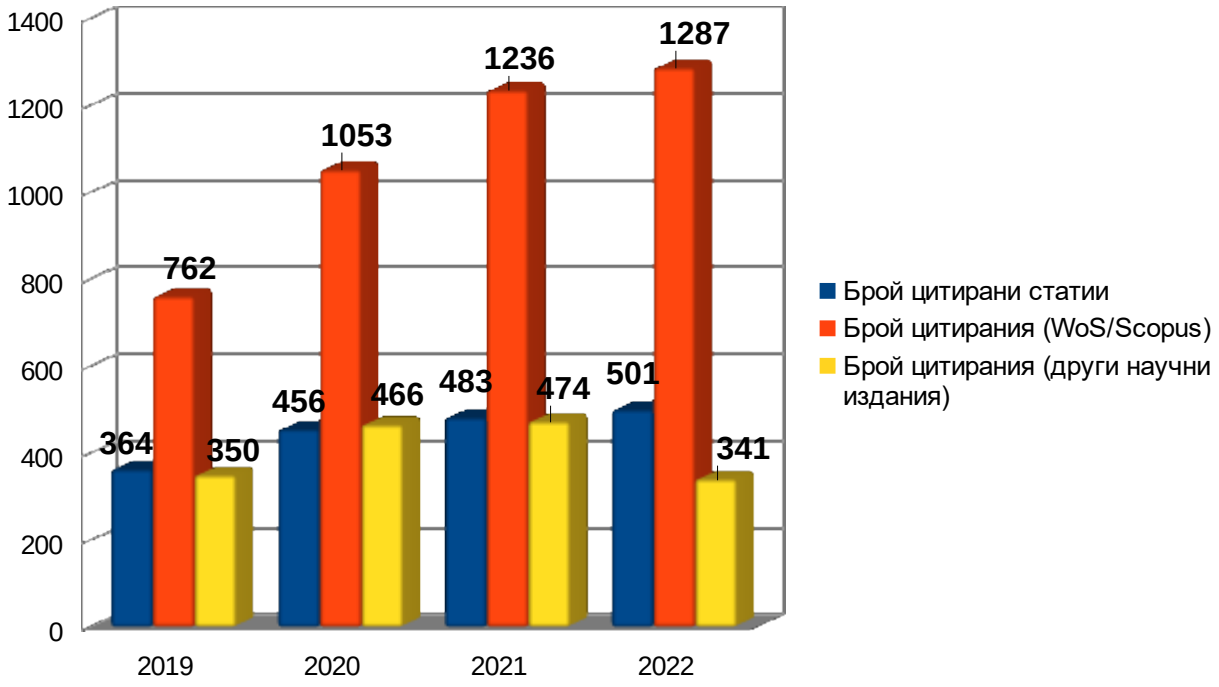
Рубрикация	Излезли	Приети	Общ брой
Научни публикации – общо	**171**	**8**	**179**
Научни публикации в издания, индексирани в WoS, Scopus (общо):	**80**	**7**	**87**
Общо бр. статии в списания с IF	**78**	**7**	**85**
Q1 - оглавява ранглистата (Web of Science) – няма	-	-	
Q1	23	2	25
Q2	20	-	20
Q3	12	1	13
Q4	23	4	27
Научни публикации в издания, индексирани в WoS или Scopus, но без IF и SJR	2	-	1
Научни публикации, отразени в профилирани бази-данни (EBSCO, BIOSIS Citation Index, Zoological Record, eLIBRARY.ru, и др.)	**6**	**1**	7
Статии в издания, неиндексирани в WoS, Scopus, тематични сборници, вкл. сборници от международни и национални научни форуми	**10**	**-**	**10**
Публикации в депозитни бази	**75**	**-**	**75**
Монографии, глави от книги	**-**	**-**	**-**



Сравнение на броя публикувани статии по години (2019-2022 г.)

4. ЦИТИРАНИЯ НА ТРУДОВЕТЕ НА УЧЕНИТЕ ОТ ОТДЕЛА ПРЕЗ 2022 г.

Пълен списък на всички цитирания е представен в Приложение 2



Сравнение на броя цитирания по години (2019–2022)

5. ПРОЕКТИ С УЧАСТИЕТО НА УЧЕНИ ОТ ОТДЕЛА ПРЕЗ 2021 г. (извадка от SONIX – 11.01.2023 г.)

Общ брой: 34

5.1. Проекти, финансирани от външни източници по международни програми (РП на ЕС, НАТО, ЮНЕСКО и др.) - 5 бр.

№	Договор № /Акроним / Име	Фин. институция	Година на конкурса	Период на договора от-до	По отношение на проекта звеното е:	Ръководител на екипа от звеното	Участници от звеното (бр.
1	№ -АБР: COST Action: **CA17108** Инвазивни видове комари от род *Aedes*	COST	2018	2018 - 2022	Съизпълнител	**Анелия Борисова Бобева**	1
2	№ COST Action **CA17106** АБР: **MOBILISE** Mobilising Data, Experts and Policies in Scientific Collections	COST	2018	2018 - 2023	Водеща организация	**Бойко Божидаров Георгиев**	32
3	№ 871043 АБР: **DiSSCo-Prepare** DiSSCo-Prepare Европейска комисия - H2020-INFRADEV-2018-2020	Европейска комисия - H2020-INFRADEV-2018-2020	2019	2020-2024	Съизпълнител	**Бойко Божидаров Георгиев**	1
4	№ 101060954 АБР: NATURE FIRST Nature First Европейска комисия	HORIZON-CL6-2021-BIODIV-01-02	2021	2022 - 2025	Съизпълнител	**Владимир Руменов Тодоров**	1
5	№ 101081964 АБР: BioMonitor4CAP Advanced biodiversity monitoring for results-based and effective agricultural policy and transformation	Horizon Europe FP EC Конкурс – Biodiversity and ecosystem services (HORIZON-CL6-2022-BIODIV-01)	2022	2022 - 2026	Съизпълнител	**Драган Петров Чобанов.**	1

5.2. Проекти, финансирани от други европейски и международни програми и фондове – 2 бр.

№	Договор № /Акроним / Име	Фин. институция	Година на конкурса	Период на договора от-до	По отношение на проекта звеното е:	Ръководител на екипа от звеното (име)	Участници от звеното (бр.
1	№ -АБР: Определяне и анализ на правокрили насекоми за предложените зони	Swiss Agency for Development and	2018	2018 - 2022	Подизпълнител	**Драган Чобанов**	1

№	Договор № /Акроним / Име	Фин. институция	Година на конкурса	Период на договора от-до	По отношение на проекта звеното е:	Ръководител на екипа от звеното (име)	Участници от звеното (бр.
	за защита във водосбора на Брегалница (Р Македония)	Cooperation (Швейцарска агенция за развитие и сътрудничество)					
2	№ АБР: Атлас на миграциите на птиците в Европа	Конвенция за мигриращите видове/ Европейски съюз за опръстеняване на птиците (EURING)	2018	2019 – 2022	Подизпълнител	**Борис Николов**	1

5.3. Проекти, финансирани по ФНИ – 18 бр.

№	Договор № /Акроним / Име	Фин. институция	Година на конкурса	Период на договора от-до	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното (име, тел., email)	Участници от звеното
1	№ КП-06 ПН61/4/2022 Мониторинг на ефектите от глобалните климатични промени, чрез качествен и количествен анализ на моделни групи животни в избрани коридори за проникване на топлолюбива фауна в България	ФНИ	2022	няма - няма	Водеща организация		Мария Василева Наумова.	7
2	№ - АБР: Биоразнообразие на семействата Eulophidae и Pteromalidae (Hymenoptera: Chalcidoidea) в планински местообитания. Баркодинг и разграничаване на морфологично близки видове	ФНИ	2017	2017 - 2022	Водеща организация		Ивайло Александров Тодоров	2
3	№ КП-06-Н33/16 АБР: - Роля на мигриращи и местни диви птици като резервоари на векторно-предавани инфекции при хората	Фонд "Научни изследвания"	2019	2019 - 2022	Съизпълнител	Национален Център по Заразни и Паразитни Болести	Павел Христов Зехтинджиев	3

№	Договор № /Акроним / Име	Фин. институция	Година на конкурса	Период на договора от-до	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното (име, тел., email)	Участници от звеното
4	№ КП-06-Н31/13/ АБР: - Оценка на състоянието на застрашени тревисти местообитания в България чрез популационно-генетично изследване на моделни групи насекоми	ФНИ	2019	2019 - 2022	Водеща организация	БФ-СУ , д-р Огнян Сивилов (кустос в БФ-СУ)	Драган Петров Чобанов	5
5	№ КП-06-Русия-18 от 27АБР: Еволюционни аспекти на репродуктивната биология и цитогенетика при хемиптероидни насекоми (Hemiptera)	ФНИ, конкурс България-Русия	2019	2019 – 2022	Водеща организация	ЗИН-РАН	Снежана Михайлова Грозева	2
6	№ - КП-06-РУСИЯ-6 АБР: - Закономерности на формирането на разнообразието и еволюция на асоциациите "паразит-гостоприемник" на избрани моделни групи хименолепидидни цестоди от дребни бозайници от Северна Палеарктика – интегративен подход	ФНИ, конкурс за проекти по програми за двустранно сътрудничество 2018 г. – България–Русия 2018-2019 г.	2019	2019 - 2022	Водеща организация	Институт по систематика и екология на животните, Руска академия на науките (Сибирско отделение) (ИСЕЖ-РАН)	Бойко Божидаров Георгиев	3
7	№ Н-19-ГРАД-010 ИБЕР АБР: Сравнителни популационно-генетични изследвания на древни и съвременни социално и исторически значими животни от България	ФНИ	2018	2019 - 2022	Водеща организация	Национален природонаучен музей, София (НПНМ)	Георги Александров Радославов	3
8	№ КП-06-Н 36/4 АБР: Нови биологични подходи за ограничаване на инфекциозна патология при риби със значение за аквакултурите чрез използване на пробиотици и техни постметаболити	Фонд Научни Изледвания	2019	2019 - 2022	Водеща организация	Институт по микробиология, БАН	Георги Евтимов Атанасов	1
9	№ КП-06-Н31/4 АБР: Полов отбор при пеперудите: механизми на копулация и функционална морфология на копулационните органи	Фонд "Научни изследвания"	2019	2020 - 2022	Водеща организация	-	Боян Петров Златков	1

№	Договор № /Акроним / Име	Фин. институция	Година на конкурса	Период на договора от-до	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното (име, тел., email)	Участници от звеното
	(Insecta: Lepidoptera)							
10	№ КП-06-Русия/6 АБР: "Биогеографски връзки между Кавказ и Балканския полуостров - данни от молекулярни и кибертаксономични изследвания върху многоножки от семейство Julidae (Myriapoda: Diplopoda)"	Фонд "Научни изследвания"	2020	2020 - 2022	Водеща организация	Донски държавен технически университет	Боян Людмилов Вагалински	3
11	№ - АБР: Acta zoologica bulgarica	ФНИ	2021	2021 - 2022	Водеща организация		Бойко Божидаров Георгиев	
12	№ КП-06-М51/2 АБР: Видообразуване в динамична среда. Сравнително филогеографско изследване върху сухоземната фауна в Източното Средиземноморие	Фонд "Научни изследвания" МУ и постдокторанти	2021	2021 - 2023	Водеща организация		Симеон Бориславов Борисов	4
13	№ КП-06-Н51/8 АБР: Комплексни генетични и етологични изследвания за дългосрочно in situ и ex situ опазване на кафявата мечка, *Ursus arctos*	Фонд "Научни изследвания"	2021	2021 - 2024	Съизпълнител	Софийски университет	Владимир Руменов Тодоров	1
14	№ КП-06-Н56/11 АБР: осДНК Интеграция на ДНК баркодиране и метабаркодиране от околна среда за оценка безопасността и качеството на български пчелни продукти. Идентификация на актуални заболявания по пчелите и определяне на флористичния състав на цветния прашец	Фонд "Научни изследвания"	2021	2021 - 2024	Водеща организация	Институт по животновъдни науки – Костинброд	Петър Иванов Христов	3
15	№ КП-06 Н51/16 АБР: Генетична структура на популациите на български местни породи овце. Изясняване на произхода, филогенезата, одомашняването и уникалност	Фонд "Научни изследвания"	2021	2021 - 2024	Водеща организация		Георги Александров Радославов	4

№	Договор № /Акроним / Име	Фин. институция	Година на конкурса	Период на договора от-до	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното (име, тел., email)	Участници от звеното
16	№ КП-06-Н51/1 АБР: Н-22-ТТОШ-010 Биоразнообразие на целеви групи насекоми (Coleoptera, Hymenoptera и Lepidoptera) и техните патогени от различни местообитания в България	ФНИ	2021	2022 - 2025	Водеща организация	Димитър Велчев, ИЦ - гр. Кнежа, ССА Ана Нахирнич - Бешкова, НПМ, БАН Marek Barta, Institute of Forest Ecology, Slovak Academy of Sciences	Теодора Бориславова Тошова	6
17	№ - Филогеографски пътища и бариери Между Балканите, Карпатите и Мала Азия: комбинирано еволюционно-екологично изследване върху моделна група насекоми Insecta: Orthoptera: Barbitistini)	ФНИ	2017	2017 – 2022 (до 02.2022)	Водеща организация		Драган Петров Чобанов	4
18	№ КП-06-COST-9/20.07. АБР: Опазване на сладководните миди на Балканския полуостров / Conservation of freshwater mussels on the Balkan Peninsula	ФНИ	2022	2022 - 2023	Водеща организация		Милчо Тодоров Тодоров	4

5.4. Научни проекти на конкурсен принцип от страната, финансирани от министерства и ведомства - 4 бр.

№	Тип	Договор № / Акроним / Име	Финансираща инст.	Год. конкурс	Период на договора	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното (име, тел., email)	Участници от звеното
1	Министерства и други ведомства	№ 13711/18.09.2020 АБР: Анализ на демографската структура на кафявата мечка (Ursus Arctos) в Стара планина.	**ПУДООС**	2019	2020 - 2022	Водеща организация		Владимир Руменов Тодоров	3
2	Министерства и други ведомства	№ А-19-ДВАР-050 АБР: **ННП Здравословни храни** 2.3.2.-5 Изпитване на биопрепарати и други	МОН, ННП Здравословни храни	2018	2018 - 2022	Съизпълнител	АУ Пловдив – Координатор; БАН; ССА;	Теодора Бориславова Тошова	4

№	Тип	Договор № / Акроним / Име	Финансиращ а инст.	Год. конкур с	Период на договора	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното (име, тел., email)	Участни ци от звеното
		натурални продукти или вещества от растителен произход с инсектицидно действие върху Tanymecus dilaticollis, Oulema melanopus и Diabrotica virgifera virgifera в лабораторни и полеви условия					СУ, УХТ Пловдив; ТУ Стара Загора		
3	Министерства и други ведомства	№ Д01-230/06.12.2018 г АБР: **ННП Опазване на околната среда** и намаляване на риска от неблагоприятни явления и природни бедствия.РП.I.7. Биоразнообразие, екосистемни функции и качество на жизнената среда. РП.I.7.8. ЗАДАЧА 8. Създаване и тестване с теренни данни на пространснтвена база данни за биоразнообразие и екосистеми.	МОН	2018	2018 - 2023	Подизпълнител		Бойко Божидаров Георгиев	9
4	Министерства и други ведомства	№ DO1-403/18.12.2020 АБР: **DiSSCo-BG** Разпределена система от научни колекции – България (DISSCO-BG): Етар 1	Национална пътна карта за научна инфраструктура, МОН	2019	2020 - 2024	Водеща организация	Национален природонаучен музей, БАН	Бойко Божидаров Георгиев	64

5.5. Научни проекти финансирани от университети – 2 бр.

№	Тип	Договор № / Акроним / Име	Финансиращ а инст.	Год. конкур с	Период на договора	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното (име, тел., email)	Участни ци от звеното
1	Университети	№ - АБР: - Имунитетът в екологичните и еволюционни процеси: Скритата цена на заболяването, имунните функции и последствията от тях за	Университет Лунд, Швеция	2017	2017 - 2022	Съизпълнител	Проф. Деннис Хаселкуист - Лунд, Швеция, Проф.	Павел Христов Зехтинджиев	4

№	Тип	Договор № / Акроним / Име	Финансираща инст.	Год. конкурс	Период на договора	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното (име, тел., email)	Участници от звеното
		еволюционната приспособеност.					Гедиминас Валкюнас - Университет Жилниус, Литва.		
2	Университети	№ Дистанционен многопараметричен мониторинг на представителни елементи от биологичното разнообразие на о-в Ливингстън, Антарктика	Национален център за полярни изследвания към СУ "Св. Климент Охридски"	2021	2021 - 2023	Водеща организация		Борис Петров Николов	3

5.6. Проекти с фирми (български и чуждестранни) - през 2022 г. няма

5.7. Проекти по международно сътрудничество (ЕБР) – 1 бр.

№	Тип	Договор № / Акроним / Име	Финансираща инст.	Год. конкурс	Период на договора	По отношение на проекта звеното е:	Други организации-участници	Ръководител на екипа от звеното	Участници от звеното
1	Международно сътрудничество в рамките на междуакадемични договори и споразумения (ЕБР)	№ Проучвания върху биоразнообразието и таксономията на веспидните и апоидните оси и пчели (Hymenoptera: Vespidae и Apoidea) в северозападен Виетнам	БАН, сътрудничество с Виетнам	2020	2021 - 2022	Съизпълнител	Няма - освен партниращата страна.	**Тошко Любомиров**	1

5.8. Проект по бюджетна субсидия.

ANIDIV 4 - Популационна структура, видово разнообразие и съобщества на животни в естествени и повлияни екосистеми – ANIDIV 4, Срок 2020 – 2022 г. Ръководители: **Бойко Георгиев, Владимир Сакалян**

5.9. Проект, финансирани от други източници – 1 бр.

№ АБР: Orthoptera of the Balkan Peninsula and the Carpathian Basin II: a database of digital data in the Orthoptera Species File. Финансиран от: The Orthopterists' Society in cooperation with the Illinois Natural History Survey. Срок: 2020-2022; ИБЕИ е водеща организация. Партньор: "Grigore Antipa" National Museum of Natural History, Kiseleff blvd. 1, Bucharest, Romania. **Ръководител: Драган Петров Чобанов**. Участници от звеното: 3

6. Лично участие на хора от звеното във външни проекти

№	Тип	Служител	Тип на проекта	Име на проекта	Име на финансиращата организация	От година	До година	Забележка
1	Министерства и други ведомства	Дедов, Ивайло Кънев	Министерства и други ведомства	Design and implementation of biodiversity surveys in the framework of the Environmental and Social Impact Assessment (ESIA) for the Cebren Power Project. North Macedonia.	LEAD IFI European Bank for Reconstruction and Development.	2021	2022	
2	Други национални фондове	Дедов, Ивайло Кънев	Други национални фондове	Сравнителен анализ на керамиката от Североизточна България и южната част на Българското Черноморие от началото на ранната бронзова епоха.	ФНИ НА СУ „СВ. КЛИМЕНТ ОХРИДСКИ“, Договор № 80-10-31 от 2021 г.	2021	2022	
3	Други национални фондове	Дедов, Ивайло Кънев	Други национални фондове	Shar Planina Mt.: a refuge of the Balkan mires	Sigrid Rausing Foundation. Program: Young ecologists support program "d-r Ljupčo Melovski“, Organization that coordinates the program: Macedonian Ecological Society, Intermediate Grant Award	2021	2022	Leader of the project: Marija Trencheva
4	ФНИ	Пиларска, Даниела Кирилова	ФНИ	Експанзия на инвазивния насекомен вредител Corythucha arcuata (Say, 1832) Hemiptera: Tingidae в дъбовите гори на България и Австрия.	ФНИ	2021	2023	

№	Тип	Служител	Тип на проекта	Име на проекта	Име на финансиращата организация	От година	До година	Забележка
				Конкурс за двустранно сътрудничество България-Австрия (2021-2023).				
5	Други европейски и международни програми и фондове	Георгиева, Симона	Други европейски и международни програми и фондове	Revealing unrecorded taxa in South Korea	National Research Foundation of Korea	2021	2024	
6	Други европейски и международни програми и фондове	Георгиева, Симона	Други европейски и международни програми и фондове	Zoonotic Parasites in the Korean freshwaters	Korean Disease Control and Prevention Agency	2021	2024	
7	Министерства и други ведомства	Кьонева, Вера Антонова	Министерства и други ведомства	Консултации и подпомагане на събирането, анализа и интерпретацията на данни за типове природни местообитания и видове за целите на НСМСБР и политиката по опазване на БР	МОСВ	2022	2022	Ключов експерт по безгръбначни
8	Министерства и други ведомства	Наумова, Мария Василева	Министерства и други ведомства	Консултации и подпомагане на събирането, анализа и интерпретацията на данни за типове природни местообитания и видове за целите на НСМСБР и политиката по опазване на биологичното разнообразие	МОСВ	2022	2022	
9	Министерства и други ведомства	Димитров, Димитър Владимиров	Министерства и други ведомства	Консултации и подпомагане на събирането, анализа и интерпретацията на данни за типове природни местообитания и видове за целите на Националната система за мониторинг на състоянието на биологичното раз	Споразумение между Национален природонаучен музей - БАН и Министерството на околната среда и водите рег. № Д-33-19/08.07.2022 г.	2022	2022	
10	Министерства и други ведомства	Власева, Албена Йорданова	Министерства и други ведомства	Консултации и подпомагане на събирането, анализа и интерпретацията на данни за типове	НПНМ	2022	2022	

№	Тип	Служител	Тип на проекта	Име на проекта	Име на финансиращата организация	От година	До година	Забележка
				природни местообитания и видове за целите на НСМСБР и политиката по опазване на биологичното разнообразие.				
11	Министерства и други ведомства	Дедов, Ивайло Кънев	Министерства и други ведомства	Консултации и подпомагане на събирането, анализа и интерпретацията на данни за типове природни местообитания и видове за целите на Националната система за мониторинг на състоянието на биологичното раз	Министерството на околната среда и водите рег. № Д-33-19/08.07.2022 г.	2022	2022	

7. Лични стипендии, грантове и други спонсорства за стимулиране на научен обмен

№	Служител	Тип на гранта	Име на гранта	Име на финансиращата организация	От година	До година	Забележка
1	Георгиева, Симона	Друго	Life-cycles of trematode parasites in Lake Tanganyika: novel insights in taxonomy	Systematics Research Fund	2020	2022	
2	Георгиева, Симона	Друго	From coast to coast: host-parasite networks of the invasive lionfish Pterois miles (Bennett) and P. volitans (L.) (Actinopterygii: Scorpaenidae)	Quality-assured Transnational Access programme (8th Call) of the ASSEMBLE Plus project, EU	2020	2022	
3	Георгиева, Симона	Стипендия за научен обмен	Fish parasite diversity across spatial scales. BOF Postdoctoral Visiting Fellowship	Hasselt University	2021	2022	
4	Пиларска, Даниела Кирилова	Друго	Мобилност по програма Еразъм плюс в Czech University of Life Sciences Prague, mobility training	БАН	2022	2022	

6. ПРИЛОЖНА ДЕЙНОСТ (извадка от SONIX - 11.01.2023 г.)

Е15б: Реализация на научни продукти - Актуални в периода

№	Наименование на продукта	Име на проекта, резултат от който е продуктът	Област на приложение	Година на създаване на продукта	Форма на участие на звеното в реализацията
1	Методика за мониторинг на малки сухоземни охлюви, Stylommatophora (1)	Теренни проучвания на разпространение на видове/ оценка на състоянието на видове и хабитати на територията на цялата страна – I фаза“, Договор No 2601 / 30. 07. 2013г. „Теренни проучвания на разпространение и численост на безгръбначни животни"	биоразнообразие	2015	Друго
2	Методика за мониторинг на средни и големи сухоземни охлюви, Stylommatophora (2)	Теренни проучвания на разпространение на видове/ оценка на състоянието на видове и хабитати на територията на цялата страна – I фаза“, Договор No 2601 / 30. 07. 2013г. „Теренни проучвания на разпространение и численост на безгръбначни животни“	биоразнообразие	2015	Друго
3	Методика за мониторинг на видове от клас Crustacea	Теренни проучвания на разпространение на видове/ оценка на състоянието на видове и хабитати на територията на цялата страна – I фаза“, Договор No 2601 / 30. 07. 2013г. „Теренни проучвания на разпространение и численост на безгръбначни животни"	Биоразнообразие	2015	Друго
4	Методика за мониторинг но видове от клас Gastropoda (1)	Теренни проучвания на разпространение на видове/ оценка на състоянието на видове и хабитати на територията на цялата страна – I фаза“, Договор No 2601 / 30. 07. 2013г. „Теренни проучвания на разпространение и численост на безгръбначни животни"	Биоразнообразие	2015	Друго
5	Методика за мониторинг но видове от клас Gastropoda (2)	Теренни проучвания на разпространение на видове/ оценка на състоянието на видове и хабитати на територията на цялата страна – I фаза“, Договор No 2601 / 30. 07. 2013г. „Теренни проучвания на разпространение и численост на безгръбначни животни"	Биоразнообразие	2015	Друго
6	Методика за мониторинг на мравки от род Formica	Теренни проучвания на разпространение на видове/оценка на състоянието на видове и хабитати на територията на цялата страна – I фаза	НСМСБР към ИАОС-МОСВ	2015	Друго

НАУЧНО-ПОПУЛЯРНИ ПУБЛИКАЦИИ

E03/8.1: Научно-популярни произведения - излезли от печат (приети - няма)

Тодоров, В.. Проблем с мечките или проблем с хората. Гора, 9, ИАГ, 2022, 24-26

Таков, Д.. Короядите са опасност за горите! Но и те са уязвими …. Природа, 2, "Проф. Марин Дринов", 2022, 66-73

Таков, Д.. Кравето мляко – познатата непозната храна. Hera.bg (електронно списание), секция "Здраве", 2022

Таков, Д.. Млякото – да сме спокойни ли или да сложим една голяма въпросителна?. Списание "ХИ&Т" ("Хранителна индустрия и търговия"), електронно издание, „Ран – Р", 2022

Таков, Д.. Млякото – позната храна или изненадващо загадъчна вселена. "ИСКАМ ДА ЗНАМ" знанието е храна за душата (електронно издание), Наука, 2022

Таков, Д.. Черната муха – войник и борбата с органичните отпадъци. ПРИРОДА, 1, Проф. Марин Дринов, 2022, 100-106

Теофилова Т. М.. Полеви определител за нуждите на теренните проучвания във връзка с изготвянето на План за действие за опазване на видовете бръмбари бегачи Carabus menetriesi pacholei Sokolář, 1911 и Carabus hungaricus Fabricius, 1792 в България. 2022, 1-16

ЛЕКЦИИ И ДРУГИ ОБЩЕСТВЕНИ ИЗЯВИ ЗА ПОПУЛЯРИЗИРАНЕ НА НАУЧНИ ПОСТИЖЕНИЯ, МЕДИЙНИ ИЛИ ОБЩЕСТВЕНИ ИЗЯВИ

№	Дата на провеждане	Наименование на изявата	Име на събитие/предаване	Автор(и)
1	21.01.2022	за мечките и хората	следобеден блок	**Vladimir Todorov**,
2	20.02.2022	.....	БНР за децата	**Vladimir Todorov**,
3	03.05.2022	Среща – презентация на авторска научно-популярна поетична книга"Театърът "Природа" Представя ..." с ученици - 4 клас на СОУ "Св. Св. Кирил и Методий", гр. Сливница	Публична презентация	**Takov, D.**,
4	16.06.2022	Среща – презентация на авторска научно-популярна поетична книга"Театърът "Природа" Представя ..." с ученици - 8 клас на Професионална Гимназия "Никола Й. Вапцаров", гр. Сливница	Публична презентация	**Takov, D**,
5	30.09.2022	С какво се хранят дъждосвирцовите птици на морския бряг? Как съвременните ДНК методи ни помагат да разберем повече за живота на птиците?	Европейска нощ на учените 2022	**Лиляна Василева**, **Анелия Бобева**, **Невена Иванова**, **Людмила Лозанова**, **Мартин Маринов**, **Бойко Неов**, Николай Симов, **Стефания Клайн**, **Борис**

				Николов,
6	23.11.2022	„От мравката до слона – с какво можем да се занимаваме в зоологията?“ лектор доц. Диана Пенева Златанова	"Цикъл лекции в изучаването и опазването на биоразнообразието"	**Николай Панайотов Долапчиев**,
7	30.11.2022	"Екологични ниши на вълка и неговата плячка в Осогово"	"Цикъл лекции в изучаването и опазването на биоразнообразието"	**Николай Панайотов Долапчиев**,

7. УЧЕБНА ДЕЙНОСТ (извадка от SONIX - 11.01.2023 г.)

Е24/1: Лекции и спец.курсове, водени от служители на звеното

Тип обучителна дейност	Брой ВУ	Брой теми	Брой часове	Брой лектори
Лекция	**4**	**9**	**231**	**3**
Спец. курс	0	0	0	0

№	Служител от звеното	Тип обучение	Тип дейност	Към ЦО (да/не)	В учебно заведение (ако не е към ЦО)	Тема	Часове	Год.
1	Часовникарова, Ценка Георгиева	Обучение – бакалавърска програма	Лекция	Не	Пловдивски университет "Паисий Хилендарски"	Медицинска зоология – II час	45	2022
2	Часовникарова, Ценка Георгиева	Обучение – бакалавърска програма	Лекция	Не	Пловдивски университет "Паисий Хилендарски"	Приложна териология	30	2022
3	Часовникарова, Ценка Георгиева	Обучение – бакалавърска програма	Лекция	Не	Пловдивски университет "Паисий Хилендарски"	Зоология	21	2022
4	Часовникарова, Ценка Георгиева	Обучение – магистърска програма	Лекция	Не	Пловдивски университет "Паисий Хилендарски"	Биоразнообразие, екология и консервация на гръбначни животни	15	2022
5	Пиларска, Даниела Кирилова	Обучение – бакалавърска програма	Лекция	Не	Нов български университет	Генно модифицирани организми	15	2022
6	Пиларска, Даниела Кирилова	Обучение – магистърска програма	Лекция	Не	Нов български университет	Биологично разнообразие	15	2022
7	Георгиев, Бойко Божидаров	Обучение – докторанти	Лекция	Не	Център за обучение, БАН	Въведение в изследователската работа (биологични	30	2022

№	Служител от звеното	Тип обучение	Тип дейност	Към ЦО (да/не)	В учебно заведение (ако не е към ЦО)	Тема	Часове	Год.
						науки)		
8	Георгиев, Бойко Божидаров	Обучение – магистърска програма	Лекция	Не	СУ "Св. Климент Охридски", Биологически факултет	Основи на таксономията и фаунистиката	30	2022
9	Георгиев, Бойко Божидаров	Обучение – докторанти	Лекция	Да	Център за обучение, БАН	Основи на таксономията и филогенетиката	30	2022

E24/2: Упражнения и семинари, водени от служители на звеното

Тип обучителна дейност	Брой ВУ	Брой теми	Брой часове	Брой лектори
Упражнение	**1**	**1**	**50**	**1**
Семинар	0	0	0	0

№	Служител от звеното	Тип обучение	Тип дейност	Към ЦО (да/не)	В учебно заведение (ако не е към ЦО)	Тема	Часове	Год.
1	**Часовникарова, Ценка Георгиева**	Обучение – бакалавърска програма	Упражнение	Не	Пловдивски университет "Паисий Хилендарски"	Теренна практика по зоология на гръбначните животни	50	2022

E03/6.1: Учебници, учебни помагала:

Пиларска Д., Лазаров, С.. Въведение в морската биология, кратък курс. Издателство на НБУ, 2022, 300

E25a: УЧАСТИЕ В ИЗПИТНИ КОМИСИИ В РАМКИТЕ НА БАН

Брой уч.заведения: 1	Брой комисии: 12	Брой лектори: 8

№	Служител от звеното	Име на комисията	Комисията е в рамките на БАН (да/не)	учебно заведение/ изследователска институция	Год.	Забележка
1	Димитров, Димитър Владимиров	Комисия за провеждане на процедура по избор на кандидат за	Да	Институт по биоразнообразие и екосистемни изследвания	2022	Кандидат - Лиляна Василева Василева

№	Служител от звеното	Име на комисията	Комисията е в рамките на БАН (да/не)	учебно заведение/ изследователска институция	Год.	Забележка
		заемане на академичната длъжност “Асистент”				
2	Илиева, Михаела Николова	Комисия за провеждане на процедура по избор на кандидат за заемане на академична длъжност "асистент"	Да	Институт по биоразнообразие и екосистемни изследвания	2022	
3	Зехтинджиев, Павел Христов	научното жури (НЖ), определено със Заповед на Директора на ИБЕИ-БАН № 105 / 22.12.2021	Да	Институт по биоразнообразие и екосистемни изследвания	2022	
4	Зехтинджиев, Павел Христов	Научно Жури за Защита на Научна степен Доктор на Боян МИчев	Да	Институт по биоразнообразие и екосистемни изследвания	2022	
5	Грозева, Снежана Михайлова	Изпитна комисия в конкурс за редовна докторантура по "Ентомология"	Да	Институт по биоразнообразие и екосистемни изследвания	2022	кандидат за докторант Нефеле Котица
6	Тошков, Тошко Любомиров	Изпитна комисия за редовна докторантура по специалност Ентомология - юни 2022	Да	Институт по биоразнообразие и екосистемни изследвания	2022	
7	Тошков, Тошко Любомиров	Изпитна комисия за редовна докторантура по специалност Ентомология - декември 2022	Да	Институт по биоразнообразие и екосистемни изследвания	2022	
8	Тошова, Теодора Бориславова	Изпитна комисия в конкурс за редовна докторантура по "Ентомология", 07.12.2022	Да	Институт по биоразнообразие и екосистемни изследвания	2022	Заповед 97/02.11.2022 г 07.12.2022 Нефели
9	Николов, Борис Петров	Комисия за избор на асистент	Да	Институт по биоразнообразие и екосистемни изследвания	2022	Лиляна Василева, ИГ "Българска орнитологическа централа"
10	Чобанов, Драган Петров	Комисия за конкурсен изпит по научна специалност "Ентомология"	Да	Институт по биоразнообразие и екосистемни изследвания	2022	Заповед 46/26.05.2022 - кандидат Теодор Трифонов

№	Служител от звеното	Име на комисията	Комисията е в рамките на БАН (да/не)	учебно заведение/ изследователска институция	Год.	Забележка
11	Чобанов, Драган Петров	Комисия за конкурсен изпит по научна специалност "Ентомология"	Да	Институт по биоразнообразие и екосистемни изследвания	2022	Заповед 97/02.11.2022; Кандидат Nefeli Kotitsa
12	Чобанов, Драган Петров	Научно жури за избор на главен асистент	Да	Институт по биоразнообразие и екосистемни изследвания	2022	Заповед 2/05.01.2022; Кандидат д-р Симеон Борисов
13	Тошова, Теодора Бориславова	Изпитна комисия в конкурс за редовна докторантура по "Ентомология" 15.06.2022 г.	Да	Институт по биоразнообразие и екосистемни изследвания	2022	Заповед 46/26.05.2022 Конкурсен изпит по научна специалност "Ентомология" за редовна докторантура кандидат: Теодор Трифонов; дата: 15.06.2022 г.
14	Грозева, Снежана Михайлова	Изпитна комисия в конкурс за редовна докторантура по "Ентомология"	Да	Институт по биоразнообразие и екосистемни изследвания	2022	Заповед 46/26.05.2022 Конкурсен изпит по научна специалност "Ентомология" за редовна докторантура кандидат: Теодор Трифонов; дата: 15.06.2022 г.

Ръководство на докторанти

Научни ръководители на защитили докторанти през 2022 г.:

№	Служител от звеното- научен ръководител	Име на докторанта	Учебно заведение/ изследователска институция	Тема	Година на защита
1	Георгиев, Бойко Божидаров	Яна Димитрова Димитрова	ИБЕИ-БАН	Таксономия и разпространение на цестодите по птици в Афротропическата зоогеографска област	2022
2	Василева, Гергана Петрунова	Яна Димитрова Димитрова	ИБЕИ-БАН	Таксономия и разпространение на цестодите по птици в Афротропическата зоогеографска област	2022
3	Николов, Борис Петров	Надежда Джоргова	ИБЕИ-БАН	Пространствено разпределение и характеристика на гнездовите местообитания при скалния орел (Aquila chrysaetos), белоопашатия мишелов (Buteo rufinus) и сокола скитник (Falco peregrinus) в Стара планина	2022
4	Тодоров, Милчо Тодоров	Никола Сашов Бънков	ИБЕИ-БАН	Състав, разпространение и екологична характеристика на текамебните съобщества от сфагновите мъхове в България	2022

E24/3: Следдипломни квалификации и специализации, ръководени от служители на звеното - няма

E24/4: Подготвени дипломанти, ръководени от служители на звеното – няма

8. ОРГАНИЗАЦИОННА ДЕЙНОСТ (извадка от SONIX - 11.01.2023 г.)

8.1. Участие в органи на управление на БАН или СНЗ на БАН

№	Служител	Ръководна длъжност	От година	До година	Име на комисията
1	Грозева, Снежана Михайлова	Член на НС на СНЗ	2010	2022	НС на ИБЕИ-БАН
2	Пиларска, Даниела Кирилова	Член на НС на СНЗ	2010	2022	
3	Пенева, Влада Кирилова	Член на НС на СНЗ	2010	2022	
4	Георгиев, Бойко Божидаров	Ръководител секция/лаборатория/ ВНЗ	2010	До момента	Секция "Биоразнообразие и екология на паразитите"
5	Марков, Георги Георгиев	Член на НС на СНЗ	2010	До момента	
6	Михайлова, Параскева Владимирова	Член на НС на СНЗ	2010	До момента	
7	Тошова, Теодора Бориславова	Ръководител секция/лаборатория/ ВНЗ	2010	До момента	Химична екология на насекомите
8	Пенева, Влада Кирилова	Ръководител секция/лаборатория/ ВНЗ	2010	До момента	
9	Марков, Георги Георгиев	Ръководител секция/лаборатория/ ВНЗ	2010	До момента	
10	Георгиев, Бойко Божидаров	Председател на НС на СНЗ	2011	До момента	НС на ИБЕИ-БАН
11	Георгиев, Бойко Божидаров	Член на НС на СНЗ	2011	До момента	
12	Георгиев, Бойко Божидаров	Ръководител секция/лаборатория/ ВНЗ	2011	До момента	Отдел "Животинско разнообразие и ресурси"
13	Големански, Васил Григоров	Член на ЕК към НС на СНЗ	2011	До момента	Комисия за издателската дейност
14	Георгиев, Бойко Божидаров	Член на ЕК към упр.орган на БАН	2012	До момента	Комисия по научна политика и стратегия към ОС на БАН
15	Грозева, Снежана Михайлова	Член на ЕК към упр.орган на БАН	2013	До момента	Академичен съвет на БАН
16	Георгиев, Бойко Божидаров	Зам. директор на СНЗ	2015	До момента	ИБЕИ-БАН

№	Служител	Ръководна длъжност	От година	До година	Име на комисията
17	Георгиева, Катя Иванова	Ръководител секция/лаборатория/ ВНЗ	2015	До момента	Изследователска група "Ултраструктура на паразитите"
18	Чобанов, Драган Петров	Секретар на НС на СНЗ	2015	До момента	
19	Георгиев, Бойко Божидаров	Член на ОС на БАН	2016	До момента	Общо събрание на БАН
20	Георгиев, Бойко Божидаров	Член на ЕК към упр.орган на БАН	2016	До момента	Комисия по нормативни и общоакадемични актове към ОС на БАН
21	Чобанов, Драган Петров	Секретар на ОС на БАН	2016	До момента	
22	Грозева, Снежана Михайлова	Член на НС на СНЗ	2018	2022	НС на НПМ-БАН
23	Николов, Борис Петров	Председател на ОС на СНЗ	2018	До момента	
24	Василева, Гергана Петрунова	Член на НС на СНЗ	2019	2023	НС на ИБЕИ-БАН
25	Георгиева, Катя Иванова	Научен секретар на СНЗ	2019	До момента	ИБЕИ-БАН
26	Георгиева, Катя Иванова	Член на НС на СНЗ	2019	До момента	НС на ИБЕИ-БАН
27	Николов, Борис Петров	Ръководител секция/лаборатория/ ВНЗ	2019	До момента	Ръководител на секция „Биоразнообразие, популационна биология и ресурси от гръбначни животни“
28	Николов, Борис Петров	Член на НС на СНЗ	2019	До момента	

8.2. Участие в експертни органи в областта на науката и висшето образование

№	Служител	Име на експертния орган	Към организация	Място	От година	До година
1	Големански, Васил Григоров	Фондация „Св. Кл. Охридски”	при СУ	В страната	1998	До момента
2	Големански, Васил Григоров	National Japan Prize Foundation		В чужбина	2001	До момента
3	Георгиев, Бойко Божидаров	Междуведомствена експертна група по биоразнообразие към МОСВ	МОСВ	В страната	2011	До момента
4	Големански, Васил Григоров	Консултативен научен съвет към изследователско направление на БАН "Биоразнообразие, биоресурси и екология"		В страната	2011	До момента
5	Големански, Васил	Постоянна научноекспертна	Национален	В страната	2013	До момента

№	Служител	Име на експертния орган	Към организация	Място	От година	До година
	Григоров	комисия към НФНИ за Биология и Медицина	фонд "Научни изследвания"			
6	Големански, Васил Григоров	Комисия към САЧК – БАН за изработване на нов Правилник за избора на академици и член-кореспонденти в БАН(2015)		В страната	2015	До момента
7	Грозева, Снежана Михайлова	Комисия за програмна акредитация по Генетика	ИБЕИ-БАН	В страната	2020	До момента
8	Грозева, Снежана Михайлова	Комисия за програмна акредитация по Зоология		В страната	2020	До момента
9	Грозева, Снежана Михайлова	Комисия за програмна акредитация по Ентомология	ИБЕИ-БАН	В страната	2020	До момента
10	Георгиев, Бойко Божидаров	Съвет на настоятелите на Българската академия на науките	по Закона за Българската академия на науките	В страната	2020	До момента

8.3. Участие в органи на управление на научни учреждения, организации и ВУ - няма вкарани в SONIX

8.4. Членство в организационни и програмни комитети на научни форуми - 1

№	Период на провеждане	място на провеждане	име на форума	Лица и отговорна длъжност
1	25.10.2022 - 28.10.2022	Bodrum, Turkey	International Malacology Symposium	1. **Дедов, Ивайло Кънев** - Друга отг. длъжност в прогр. комитет

8.5. Членство в редакционни колегии и съвети на научни издания

Брой издания: 35	Брой отговорни длъжности: 55	Лица от звеното на отговорни длъжности: 26

№	Име на изданието	Тип на изданието	Обхват	Реферира се	Лица и отговорна длъжност
1	Animal and Veterinary Sciences	Списание	Международни	Да	1. **Господинова, Милена Кирилова** - Член на редакционна колегия, 2020 - 2022
2	Current Research in Parasitology & Vector-Borne Diseases	Списание	Международни	Не	2. **Костадинова, Анета Кирилова** - Главен редактор, 2020 - До момента
3	Acta Zoologica Bulgarica	Списание	Международни	Да	3. **Евтимова, Весела** - Член на редакционен съвет, 2015 - До момента 4. **Михайлова, Параскева Владимирова** - Член на редакционна колегия, 1998 - До момента 5. **Марков, Георги Георгиев** - Член

№	Име на изданието	Тип на изданието	Обхват	Реферира се	Лица и отговорна длъжност
					на редакционен съвет, 2012 - До момента **6. Мечева, Румяна Панайотова** - Член на редакционна колегия, 2006 - До момента **7. Апостолу, Апостолос Йоанис** - Заместник главен редактор, 2015 - До момента **8. Събчев, Митко Ангелов** - Член на редакционен съвет, 2000 - До момента **9. Георгиев, Бойко Божидаров** - Главен редактор, 2013 - До момента **10. Чобанов, Драган Петров** - Член на редакционна колегия, 2016 - До момента **11. Николов, Борис Петров** - Член на редакционен съвет, 2016 - До момента **12. Тодоров, Милчо Тодоров** - Член на редакционен съвет, 2016 - До момента **13. Пенева, Влада Кирилова** - Член на редакционна колегия, 2010 - До момента **14. Луканов, Симеон Петров** - Член на редакционна колегия, 2020 - До момента
4	Comparative cytogenetics	Списание	Международни	Да	**15. Грозева, Снежана Михайлова** - Член на редакционна колегия, 2008 - До момента **16. Михайлова, Параскева Владимирова** - Член на редакционна колегия, 2007 - До момента **17. Часовникарова, Ценка Георгиева** - Член на редакционна колегия, 2017 - До момента
5	Chironomus Newsletter	Списание	Международни	Да	**18. Михайлова, Параскева Владимирова** - Член на редакционна колегия, 1987 - До момента
6	Journal of Insects	Списание	Международни	Да	**19. Михайлова, Параскева Владимирова** - Член на редакционна колегия, 2013 - До момента
7	Фауна на България	Научна поредица	Национални	Да	**20. Михайлова, Параскева Владимирова** - Председател на редакционен съвет, 2008 - До момента **21. Големански, Васил Григоров** - Член на редакционна колегия, 1980 - До момента
8	Biodiversity Data Journal	Списание	Международни	Да	**22. Пенева, Влада Кирилова** - Член на редакционна колегия, 2014 - До момента **23. Георгиева, Симона** - Член на редакционна колегия, 2021 - До

№	Име на изданието	Тип на изданието	Обхват	Реферира се	Лица и отговорна длъжност
					момента
9	Pathogens	Списание	Международни	Да	**24. Христов, Петър Иванов** - Член на редакционна колегия, 2020 - До момента
10	Podoces	Списание	Международни	Да	**25. Николов, Борис Петров** - Член на редакционен съвет, 2008 - До момента
11	Frontiers in Insect Science - Invertebrate Physiology	Списание	Чуждестранни	Да	**26. Христов, Петър Иванов** - Член на редакционна колегия, 2020 - До момента
12	Silva Balkanika	Научна поредица	Международни	Да	**27. Пиларска, Даниела Кирилова** - Член на редакционна колегия, 2014 - До момента **28. Големански, Васил Григоров** - Член на редакционен съвет, 2010 - До момента **29. Евтимова, Весела** - Член на редакционен съвет, 2019 - До момента
13	Turkish Journal of Parasitology	Научна поредица	Международни	Да	**30. Пиларска, Даниела Кирилова** - Член на редакционен съвет, 2014 - До момента
14	Folia Parasitologica	Списание	Международни	Да	**31. Георгиев, Бойко Божидаров** - Член на редакционна колегия, 1997 - До момента
15	Annual of Natural Sciences Department	Списание	Национални	Не	**32. Пиларска, Даниела Кирилова** - Заместник главен редактор, 2021 - 2022
16	Archivum of Biological Sciences	Списание	Международни	Да	**33. Големански, Васил Григоров** - Член на редакционна колегия, 2008 - До момента
17	Защита природе (Сърбия)	Списание	Чуждестранни	Не	**34. Големански, Васил Григоров** - Член на редакционна колегия, 2004 - До момента
18	Природа	Списание	Национални	Да	**35. Големански, Васил Григоров** - Член на редакционна колегия, 2012 - До момента **36. Иванов, Димитър Асенов** - Член на редакционна колегия, 2017 - До момента
19	Frontiers in Bee Science	Списание	Международни	Да	**37. Христов, Петър Иванов** - Член на редакционен съвет, 2022 - 2024
20	Acta protozoologica	Списание	Международни	Да	**38. Големански, Васил Григоров** - Член на редакционна колегия, 1966 - До момента
21	Frontiers in Ethology	Списание	Международни	Да	**39. Илиева, Михаела Николова** - Член на редакционна колегия, 2022 - До момента
22	Frontiers in Insect Science	Списание	Международни	Да	**40. Тошова, Теодора Бориславова** - Член на редакционна колегия, 2022 - До момента

№	Име на изданието	Тип на изданието	Обхват	Реферира се	Лица и отговорна длъжност
23	Journal of Insect Biodiversity	Списание	Международни	Да	**41. Тошков, Тошко Любомиров** - Член на редакционна колегия, 2017 - 2022
24	Diversity MDPI	Списание	Международни	Да	**42. Тошков, Тошко Любомиров** - Член на редакционна колегия, 2022 - 2022
25	Frontiers in Bird Science	Списание	Международни	Да	**43. Николов, Борис Петров** - Член на редакционна колегия, 2022 - До момента
26	Comptes Rendus de l'Académie Bulgare des Sciences	Списание	Международни	Да	**44. Големански, Васил Григоров** - Член на редакционна колегия, 2009 - До момента **45. Иванов, Димитър Асенов** - Член на редакционна колегия, 2022 - До момента
27	Acta Parasitologica	Списание	Международни	Да	**46. Георгиев, Бойко Божидаров** - Член на редакционна колегия, 2002 - До момента
28	Vestnik Zoologii	Списание	Международни	Да	**47. Георгиев, Бойко Божидаров** - Член на редакционна колегия, 2010 - До момента
29	Systematic Parasitology	Списание	Международни	Да	**48. Георгиев, Бойко Божидаров** - Член на редакционна колегия, 1998 - До момента
30	ZooKeys	Списание	Международни	Да	**49. Георгиев, Бойко Божидаров** - Член на редакционна колегия, 2008 - До момента
31	Applied Microbiology: Theory＆Technology	Списание	Международни	Да	**50. Таков, Данаил Илчев** - Член на редакционна колегия, 2019 - До момента
32	Journal of BioScience and Biotechnology	Списание	Международни	Не	**51. Часовникарова, Ценка Георгиева** - Член на редакционна колегия, 2015 - До момента
33	Diversity, MDPI	Списание	Международни	Да	**52. Димитров, Димитър Владимиров** - Член на редакционна колегия, 2021 - До момента **53. Христов, Петър Иванов** - Член на редакционна колегия, 2019 - До момента
34	Biosciences Biotechnology Research Asia	Списание	Международни	Да	**54. Грозева, Снежана Михайлова** - Член на редакционна колегия, 2017 - До момента
35	Macedonian Journal of Ecology and Environment	Списание	Международни	Да	**55. Чобанов, Драган Петров** - Член на редакционна колегия, 2021 - До момента

9. ЕКСПЕРТНА ДЕЙНОСТ (извадка от SONIX - 11.01.2023 г.)

9.1. Участие в съвети, комисии и други експертни органи на външни за БАН институции (E26/B1)

№	Име на служителя	име на експертния орган	Период
1	Георгиев, Бойко Божидаров	Национална агенция по оценяване и акредитация, МС	1997 - До момента
2	Дедов, Ивайло Кънев	Научно-консултативния съвет за прилагане на Вашингтонската Конвенция (CITES)	2003 - До момента
3	Големански, Васил Григоров	Научен комитет по проблемите на околната среда (SCOPE) (Paris)	2008 - До момента
4	Георгиев, Бойко Божидаров	Междуведомстен консултативен съвет по проблемите на биоразнообразието към МОСВ	2010 - До момента
5	Николов, Борис Петров	Междуведомствена координационна експертна група по Конвенцията по биологично разнообразие към МОСВ	2011 - До момента
6	Тодоров, Милчо Тодоров	Национален Комитет по Програмата «Човек и биосфера»- ЮНЕСКО	2014 - 2022
7	Николов, Борис Петров	Конвенция за международна търговия със застрашени видове от дивата фауна и флора CITES към МОСВ	2015 - До момента
8	Дедов, Ивайло Кънев	IUCN Species Survival Commision (SSC), Mollusc Specialist Group	2017 - До момента
9	Пеев, Страхил Георгиев	МРГ "Защитени видове"	2017 - До момента
10	Николов, Борис Петров	Конвенция за мигриращите видове (Бонска конвенция) - външен експерт за МОСВ	2019 - До момента
11	Николов, Борис Петров	Междуведомствена работна група за изготвяне на „Нац. доклад "Околна среда 2020 г."	2021 - 2022
12	Грозева, Снежана Михайлова	Постоянна Научно-експертна комисия по биологически науки към ФНИ	2021 - 2025
13	Христов, Петър Иванов	Консултативната комисия по генетично модифицирани организми	2022 - 2025
14	Георгиев, Бойко Божидаров	ERANET SEA-EU	2022 - До момента

9.2. Експертизи в помощ на институции и органи на управление

Е 3.11: Експертни доклади по писмена заявка от държавни и общински органи и институции, които не се заплащат – 1 бр.

№	Име на служителя	Вид на експертната дейност	Име на експертизата	Към институция	Година
1	Теофилова, Теодора Мариус	Доклад по писмена заявка	Извършване на теренни проучвания и разработване на План за действие за вида Алпийска розалия в България	Оперативна програма „Околна среда 2014 – 2020 г.“	2022

Е26/С1: Експертизи в помощ на институции - платени

Брой експертизи: 15	Брой експерти от звеното: 5

№	Име на служителя	Вид на експертната дейност	Име на експертизата	Към институция	Година
1	Дедов, Ивайло Кънев	Експертиза	Анализ и оценка на състоянието на Chilostoma (Wladislawia) polinskii (A.J. Wagner, 1928) в България. Доклад към ИАОС-МОСВ, 6 с.	ИАОС-МОСВ	2022
2	Дедов, Ивайло Кънев	Експертиза	Анализ и оценка на състоянието на Chilostoma (Wladislawia) sztolcmani (A.J. Wagner, 1928) в България. Доклад към ИАОС-МОСВ, 6 с.	ИАОС-МОСВ	2022
3	Дедов, Ивайло Кънев	Експертиза	Анализ и оценка на състоянието на Macedonica zilchi Urbański, 1972 в България. Доклад към ИАОС-МОСВ, 6 с.	Доклад към ИАОС-МОСВ	2022
4	Дедов, Ивайло Кънев	Експертиза	Анализ и оценка на състоянието на Vertigo (Vertilla) angustior Jeffreys 1830 в България. Доклад към ИАОС-МОСВ, 18 с.	ИАОС-МОСВ	2022
5	Дедов, Ивайло Кънев	Експертиза	Анализ и оценка на състоянието на Vertigo (Vertigo) moulinsiana (Dupuy 1849) в България. Доклад към ИАОС-МОСВ, 20 с.	ИАОС-МОСВ	2022
6	Кьонева, Вера Антонова	Доклад по писмена заявка	Анализ и оценка на състоянието на Formica rufa (Червена горска мравка) в България	ИАОС-МОСВ	2022
7	Кьонева, Вера Антонова	Доклад по писмена заявка	Анализ и оценка на състоянието на Formica lugubris (Космата горска мравка) в България	ИАОС-МОСВ	2022
8	Кьонева, Вера Антонова	Доклад по писмена заявка	Анализ и оценка на състоянието на Formica pratensis (Ливадна мравка) в България	ИАОС-МОСВ	2022
9	Кьонева, Вера Антонова	Доклад по писмена заявка	Анализ и оценка на състоянието на Formica exsecta (Вдлъбнатоглава мравка) в България	ИАОС-МОСВ	2022
10	Тодоров, Милчо Тодоров	Експертиза	Специфични цели ЗЗ BG0000399 Българка	МОСВ	2022
11	Тодоров, Милчо Тодоров	Експертиза	Специфични цели ЗЗ BG0001493 Централен Балкан-буфер	МОСВ	2022
12	Николов, Борис Петров	Консултация	Консултантска дейност при превода на 23 научно-популярни филма за телевизионния канал National Geographic и NG Wild в България	Студио "Медиа Линк"	2022
13	Николов, Борис Петров	Консултация	Консултантска дейност при превода на две научнопопулярни книги: (1) „Тайният живот на омарите“ с автор Тревър Корсън и „Красноречието на сардината“ с автор Бил Франсоа.	Издателство „Жанет 45“	2022
14	Кьонева, Вера	Експертиза	Оценка за съвместимост към	МОСВ и МЗх	2022

№	Име на служителя	Вид на експертната дейност	Име на експертизата	Към институция	Година
	Антонова		Стратегически план за развитие на земеделието и селските райони на Република България за периода 2023-2027 г.		
15	Теофилова, Теодора Мариус	Доклад по писмена заявка	Извършване на теренни проучвания и разработване на План за действие за опазване на видовете Менетриезиев бегач и Унгарски бегач в България	Оперативна програма „Околна среда 2014 – 2020 г.“	2022

E26/D1: Експертизи в помощ на институции – неплатени - 2 бр.

№	Име на служителя	Вид на експертната дейност	Име на експертизата	Към институция	Година
1	Теофилова, Теодора Мариус	Доклад по писмена заявка	Извършване на теренни проучвания и разработване на План за действие за вида Алпийска розалия в България	Оперативна програма „Околна среда 2014 – 2020 г.“	2022
2	Димитров, Димитър Владимиров	Становище	Актуализиране на списъка с видове птици (checklist) за докладване през 2025 г., съгласно изискванията на чл. 12 от Директива 2009/147/ЕО, относно опазване на дивите птици	Изпълнителна агенция по околна среда	2022

9.3. Рецензии и становища по процедури за образователно ниво, научни степени и академични длъжности

Брой рецензии / становища: 22	Брой експерти от звеното: 12

№	Име на служителя, направил рецензията / становището	Вид рецензия / становище	Име на лицето, за което е била процедурата	От уч. заведение / изсл. институция	Година
1	Димитров, Димитър Владимиров	Становище - ОНС "доктор"	Евлоги Емилов Ангелов	Лесотехнически университет - София	2022
2	Димитров, Димитър Владимиров	Становище - ОНС "доктор"	Георги Петков Герджиков	Национален природонаучен музей - БАН	2022
3	Димитров, Димитър Владимиров	Рецензия - ОНС "доктор"	Надежда Иванова Джоргова	ИБЕИ-БАН	2022
4	Георгиев, Бойко Божидаров	Становище - ОНС "доктор"	Яна Димитрова	ИБЕИ-БАН	2022
5	Пиларска, Даниела Кирилова	Становище - ОНС "доктор"	Никола Бънков	ИБЕИ, БАН	2022
6	Пиларска, Даниела Кирилова	Рецензия - професор	Милчо Тодоров	ИБЕИ, БАН	2022
7	Пиларска, Даниела Кирилова	Становище - ОНС "доктор"	Ралица Цекова	Югозападен университет "Неофит Рилски"	2022

№	Име на служителя, направил рецензията / становището	Вид рецензия / становище	Име на лицето, за което е била процедурата	От уч. заведение / изсл. институция	Година
8	Часовникарова, Ценка Георгиева	Становище - ОНС "доктор"	Николай Долапчиев	СУ "Кл. Охридски"	2022
9	Грозева, Снежана Михайлова	Становище - доцент	д-р Надежда Тодорова	ИБЕИ-БАН	2022
10	Грозева, Снежана Михайлова	Становище - доцент	д-р Светла Гатева	ИБЕИ-БАН	2022
11	Михайлова, Параскева Владимирова	Становище - доцент	Светла Петрова Гатева	ИБЕИ-БАН	2022
12	Пенева, Влада Кирилова	Становище - доцент	Боян Вагалински	ИБЕИ, БАН	2022
13	Пенева, Влада Кирилова	Рецензия - професор	Гергана Василева	ИБЕИ, БАН	2022
14	Пенева, Влада Кирилова	Становище - професор	Милчо Тодоров	ИБЕИ, БАН	2022
15	Лазарова, Стела Стоянова	Становище - доцент	Боян Людмилов Вагалински	ИБЕИ-БАН	2022
16	Георгиева, Катя Иванова	Становище - професор	Гергана Василева	ИБЕИ-БАН	2022
17	Василева, Гергана Петрунова	Становище - професор	Милчо Тодоров	ИБЕИ-БАН	2022
18	Пиларска, Даниела Кирилова	Становище - професор	Гергана Петрунова Василева	ИБЕИ, БАН	2022
19	Пиларска, Даниела Кирилова	Рецензия - доцент	Karolina Resnerova	Czech University of Life Sciences, Prague	2022
20	Николов, Борис Петров	Рецензия - ОНС "доктор"	Георги Герджиков	НПМ-БАН	2022
21	Часовникарова, Ценка Георгиева	Становище - доцент	д-р Светла Гатева	ИБЕИ, БАН	2022
22	Чобанов, Драган Петров	Становище - доцент	д-р Боян Людмилов Вагалински, гл.ас.	ИБЕИ-БАН	2022

9.4. Други рецензии

Брой брой рецензии : 117	Брой експерти от звеното: 25

№	Име на служителя, направил рецензията / становището	Вид рецензия / становище	Публична / Анонимна	Име на книгата / списанието / конф., за която е правена рецензията	Брой	Година
1	Теофилова, Теодора Мариус	Рецензия на статия	Публична	Uttar Pradesh Journal of Zoology	2	2022
2	Таков, Данаил Илчев	Рецензия на статия	Анонимна	European Journal of Entomology	1	2022
3	Пиларска, Даниела	Рецензия на	Анонимна	Turkish Journal of Zoology	1	2022

№	Име на служителя, направил рецензията / становището	Вид рецензия / становище	Публична / Анонимна	Име на книгата / списанието / конф., за която е правена рецензията	Брой	Година
	Кирилова	статия				
4	Теофилова, Теодора Мариус	Рецензия на статия	Анонимна	Entomological Communications	1	2022
5	Грозева, Снежана Михайлова	Рецензия на статия	Анонимна	DNA	1	2022
6	Наумова, Мария Василева	Рецензия на статия	Анонимна	Macedonian Journal of Ecology and Environment	2	2022
7	Наумова, Мария Василева	Рецензия на статия	Анонимна	Macedonian Journal of Ecology and Environment	2	2022
8	Илкова, Юлия Спасова	Рецензия на статия	Анонимна	Ecotoxicology and Environmental Safety	1	2022
9	Стоянов, Борислав Йорданов	Рецензия на статия	Анонимна	Acta Zoologica Bulgarica	1	2022
10	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Journal of Nematology	1	2022
11	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Nature Conservation Research	2	2022
12	Таков, Данаил Илчев	Рецензия на статия	Анонимна	Turkish J. of Zoology	1	2022
13	Наумова, Мария Василева	Рецензия на статия	Публична	Zootaxa	2	2022
14	Тошова, Теодора Бориславова	Друга рецензия	Анонимна	CABI Compendia	1	2022
15	Тошова, Теодора Бориславова	Рецензия на статия	Анонимна	Acta Phytopathologica et Entomologica Hungarica	1	2022
16	Таков, Данаил Илчев	Рецензия на статия	Анонимна	Acta fytotechnica et zootechnica	1	2022
17	Тошков, Тошко Любомиров	Рецензия на статия	Анонимна	Insects. MDPI	4	2022
18	Тошков, Тошко Любомиров	Рецензия на статия	Анонимна	Genes. MDPI	1	2022
19	Тошков, Тошко Любомиров	Рецензия на статия	Анонимна	Journal of the Entomological Research Society	1	2022
20	Таков, Данаил Илчев	Рецензия на статия	Анонимна	Journal of Insects as Food and Feed	1	2022
21	Тошков, Тошко Любомиров	Рецензия на статия	Анонимна	Biodiversity Data Journal	1	2022
22	Тошова, Теодора Бориславова	Рецензия на статия	Анонимна	Trakya University Journal of Natural Sciences	1	2022
23	Тошков, Тошко Любомиров	Рецензия на статия	Анонимна	REDIA - Journal of Zoology	1	2022
24	Георгиева, Симона	Рецензия за проект	Анонимна	Полски Научен Фонд	1	2022
25	Таков, Данаил Илчев	Рецензия на статия	Анонимна	Acta Parasitologica	1	2022

№	Име на служителя, направил рецензията / становището	Вид рецензия / становище	Публична / Анонимна	Име на книгата / списанието / конф., за която е правена рецензията	Брой	Година
26	Георгиева, Симона	Рецензия на статия	Анонимна	Pathogens	1	2022
27	Георгиева, Симона	Рецензия на статия	Анонимна	Journal of Helminthology	1	2022
28	Георгиева, Симона	Рецензия на статия	Анонимна	Parasitology International	1	2022
29	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	Egyptian Journal of Biological Pest Control	1	2022
30	Таков, Данаил Илчев	Рецензия на статия	Анонимна	Acta Zoologica Bulgarica	1	2022
31	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	Acta zoologica bulgarica	1	2022
32	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	Biocontrol Science and Technology	1	2022
33	Михайлова, Параскева Владимирова	Рецензия на статия	Анонимна	Comparative Cytotenetics	1	2022
34	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	Наука за гората	1	2022
35	Михайлова, Параскева Владимирова	Рецензия на статия	Анонимна	Zootaxa	1	2022
36	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	European Journal of Protistology	1	2022
37	Теофилова, Теодора Мариус	Рецензия на статия	Публична	Current Journal of Applied Science and Technology	1	2022
38	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	Acta zoologica bulgarica	2	2022
39	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	Insects	1	2022
40	Георгиева, Катя Иванова	Рецензия на статия	Анонимна	Frontiers in Microbiology	1	2022
41	Кьонева, Вера Антонова	Рецензия на статия	Анонимна	Biodiversity Data Journal	1	2022
42	Кьонева, Вера Антонова	Рецензия на статия	Анонимна	Ecological Indicators	1	2022
43	Василева, Гергана Петрунова	Рецензия на статия	Анонимна	Folia Parasitologica	1	2022
44	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	Silva Balcanica	1	2022
45	Димитров, Димитър Владимиров	Рецензия на статия	Анонимна	Animals	1	2022
46	Димитров, Димитър Владимиров	Рецензия на статия	Анонимна	Acta Zoologica Bulgarica	1	2022
47	Димитров, Димитър Владимиров	Рецензия на статия	Анонимна	Microorganisms	1	2022
48	Димитров, Димитър	Рецензия на	Анонимна	Malaria Journal	1	2022

№	Име на служителя, направил рецензията / становището	Вид рецензия / становище	Публична / Анонимна	Име на книгата / списанието / конф., за която е правена рецензията	Брой	Година
	Владимиров	статия				
49	Димитров, Димитър Владимиров	Рецензия на статия	Анонимна	Diversity	1	2022
50	Димитров, Димитър Владимиров	Реферирание на статия	Публична	Diversity, MDPI	5	2022
51	Димитров, Димитър Владимиров	Рецензия на статия	Анонимна	International Journal for Parasitology: Parasites and Wildlife	1	2022
52	Николов, Борис Петров	Рецензия на статия	Анонимна	Acta zoologica bulgarica	2	2022
53	Николов, Борис Петров	Рецензия на статия	Анонимна	Historia naturalis bulgarica	1	2022
54	Николов, Борис Петров	Рецензия на статия	Анонимна	Zoonotes	2	2022
55	Николов, Борис Петров	Рецензия на статия	Анонимна	Bird Conservation International	1	2022
56	Сакалян, Владимир Парунак	Рецензия на статия	Анонимна	Macedonian Journal of Ecology and Environment	1	2022
57	Тошова, Теодора Бориславова	Рецензия на статия	Анонимна	Scientific Reports	1	2022
58	Чобанов, Драган Петров	Рецензия на статия	Анонимна	BULLETIN OF THE NATURAL HISTORY MUSEUM - PLOVDIV	1	2022
59	Чобанов, Драган Петров	Рецензия на статия	Анонимна	FRAGMENTA FAUNISTICA	1	2022
60	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Agronomy	1	2022
61	Пиларска, Даниела Кирилова	Рецензия на статия	Анонимна	Наука за гората	1	2022
62	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	European Journal of Plant Pathology	1	2022
63	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Microorganisms	1	2022
64	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Plants	1	2022
65	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Scientia Agriculturae Bohemica	1	2022
66	Златков, Боян Петров	Реферирание на статия	Анонимна	Acta zoologica bulgarica	2	2022
67	Златков, Боян Петров	Рецензия на статия	Анонимна	Historia naturalis bulgarica	3	2022
68	Маринов, Мартин Петров	Рецензия на статия	Анонимна	Acta Zoologica Bulgarica	2	2022
69	Тошова, Теодора Бориславова	Рецензия на статия	Анонимна	Insects	4	2022

№	Име на служителя, направил рецензията / становището	Вид рецензия / становище	Публична / Анонимна	Име на книгата / списанието / конф., за която е правена рецензията	Брой	Година
70	Илиева, Михаела Николова	Рецензия на статия	Анонимна	Acta Zoologica Bulgarica	4	2022
71	Лазарова, Стела Стоянова	Рецензия на статия	Анонимна	Microorganisms (MDPI)	1	2022
72	Теофилова, Теодора Мариус	Рецензия на статия	Публична	Annual Research & Review in Biology	1	2022
73	Георгиев, Бойко Божидаров	Рецензия на статия	Анонимна	Comparative Parasitology	1	2022
74	Георгиев, Бойко Божидаров	Рецензия на статия	Анонимна	Insights in Biology and Medicine	1	2022
75	Георгиев, Бойко Божидаров	Рецензия на статия	Анонимна	Journal of Helminthology	1	2022
76	Георгиев, Бойко Божидаров	Рецензия за проект	Анонимна	ERANET SEA-EC	5	2022
77	Дедов, Ивайло Кънев	Рецензия на статия	Анонимна	Biodiversity Data Journal	1	2022
78	Дедов, Ивайло Кънев	Рецензия на статия	Анонимна	Chemical and Biological Technologies in Agriculture	1	2022
79	Дедов, Ивайло Кънев	Рецензия на статия	Анонимна	Folia Malacologica	1	2022
80	Дедов, Ивайло Кънев	Рецензия на статия	Анонимна	Molluscan Research	2	2022
81	Дедов, Ивайло Кънев	Рецензия на статия	Анонимна	ZooTaxa	1	2022
82	Дедов, Ивайло Кънев	Друга рецензия	Публична	International Malacology Symposium, 25-28 October 2022, Bodrum, Turkey, Abstracts	2	2022
83	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Russian Journal of Nematology	2	2022
84	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Journal of Natural History	1	2022
85	Пенева, Влада Кирилова	Рецензия на статия	Анонимна	Horticulture, MDPI	1	2022

9.5. Лично членство в научни организации

№	Служител	Организация	Статут в организацията	Година от-до
1	Михайлова, Параскева Владимирова	International FEBS organization	Редови член	1985 - До момента
2	Пенева, Влада Кирилова	Българско паразитологично дружество	Редови член	1987 - До момента
3	Грозева, Снежана	Всесоюзное энтомологическое	Редови член	1988 - До момента

№	Служител	Организация	Статут в организацията	Година от-до
	Михайлова	общество		
4	Пенева, Влада Кирилова	European Society of Nematologists	Редови член	1995 - До момента
5	Дедов, Ивайло Кънев	Истражувачко Друштво на Студенти Биолози - Македония	Редови член	1997 - До момента
6	Пиларска, Даниела Кирилова	Society for Invertebrate Pathology	Редови член	1998 - 2022
7	Пиларска, Даниела Кирилова	Българско паразитологично дружество	Редови член	2000 - 2022
8	Михайлова, Параскева Владимирова	Съюз на учените в България-секция Молекул. биология	Редови член	2000 - До момента
9	Николов, Борис Петров	International Shrike Working Group Член на Афро-европейската секция на ISWG.	Редови член	2000 - До момента
10	Йонева, Анета Владимирова	Българско паразитологично дружество	Редови член	2001 - До момента
11	Георгиева, Катя Иванова	Българско паразитологично дружество	Редови член	2001 - До момента
12	Грозева, Снежана Михайлова	International Heteropterologists Society	Редови член	2006 - До момента
13	Пенева, Влада Кирилова	СЪЮЗ НА УЧЕНИТЕ В БЪЛГАРИЯ, секция "Биология"	Редови член	2008 - До момента
14	Чобанов, Драган Петров	The Orthopterists' Society	Редови член	2008 - До момента
15	Николов, Борис Петров	European Ornithologists' Union	Редови член	2008 - До момента
16	Наумова, Мария Василева	European Society of Arachnology	Редови член	2009 - До момента
17	Часовникарова, Ценка Георгиева	СЪЮЗ НА УЧЕНИТЕ В БЪЛГАРИЯ, секция "Биология"	Редови член	2010 - До момента
18	Таков, Данаил Илчев	Българско паразитологично дружество	Редови член	2010 - До момента
19	Димитров, Димитър Владимиров	European Ornithologists' Union	Редови член	2011 - До момента
20	Тодоров, Милчо Тодоров	International Society for Testate Amoebae Research	Редови член	2011 - До момента
21	Георгиев, Бойко Божидаров	Българско паразитологично дружество	Изборен член	2011 - До момента
22	Георгиев, Бойко Божидаров	СЪЮЗ НА УЧЕНИТЕ В БЪЛГАРИЯ, секция "Биология"	Редови член	2011 - До момента
23	Наумова, Мария Василева	СЪЮЗ НА УЧЕНИТЕ В БЪЛГАРИЯ, секция "Биология"	Редови член	2012 - До момента
24	Бобева, Анелия Борисова	Българско паразитологично дружество	Редови член	2012 - До момента
25	Елшишка, Милка	Българско паразитологично	Редови член	2013 - До момента

№	Служител	Организация	Статут в организацията	Година от-до
	Тодорова	дружество		
26	Чобанов, Драган Петров	Grasshopper Specialist Group (SSC-IUCN)	Редови член	2013 - До момента
27	Георгиева, Симона	American Society of Parasitologists	Редови член	2013 - До момента
28	Златков, Боян Петров	Societas Europea Lepidopterologica	Редови член	2013 - До момента
29	Николов, Борис Петров	Европейски съюз за маркиране на птиците	Като представител на БАН	2013 - До момента
30	Маринов, Мартин Петров	Българско паразитологично дружество	Редови член	2013 - До момента
31	Вагалински, Боян Людмилов	International Society of Myriapodology	Редови член	2014 - До момента
32	Маринов, Мартин Петров	Animal Behavior Society	Редови член	2015 - До момента
33	Маринов, Мартин Петров	European Ornithologists' Union	Редови член	2015 - До момента
34	Елшишка, Милка Тодорова	Асоциация на младите полярни изследователи (АПЕКС България)	Редови член	2016 - До момента
35	Елшишка, Милка Тодорова	СЪЮЗ НА УЧЕНИТЕ В БЪЛГАРИЯ, секция "Биология"	Редови член	2017 - До момента
36	Хубанчева, Антония Юриева	British Ecological Society	Редови член	2017 - До момента
37	Хубанчева, Антония Юриева	Animal Behavior Society	Редови член	2017 - До момента
38	Николов, Борис Петров	Iran Bird Records Committee	Редови член	2017 - До момента
39	Тодоров, Ивайло Александров	СЪЮЗ НА УЧЕНИТЕ В БЪЛГАРИЯ, секция "Биология"	Редови член	2018 - 2022
40	Николов, Борис Петров	International Bio-logging Society	Редови член	2018 - До момента
41	Василева, Лиляна Василева	International Wader Study Group	Редови член	2019 - До момента
42	Георгиева, Симона	The Society for the Study of Evolution	Редови член	2019 - До момента
43	Георгиева, Симона	The Systematics Association	Редови член	2019 - До момента
44	Василева, Лиляна Василева	Animal Behavior Society	Редови член	2020 - До момента
45	Георгиева, Симона	The Korean Society for Parasitology and Tropical Medicine	Редови член	2021 - До момента

10. ДОПЪЛНИТЕЛНИ ДЕЙНОСТИ

Е 3.7: Организирани от звеното международни научни форуми (с минимум 30 участника)

Период на провеждане	Място на провеждане	Абре-виатура	Име на форума	Тип на форума	Обхват на форума	Брой уч.	Организа-тор	Координатор
19.09.2022 - 20.09.2022	София, България	2nd ICBotMyco	2nd International Conference on Botany and Mycology	Конференция	Международен	135	Да	Денчев, Ц.
29.09.2022 - 30.09.2022	Sofia, Bulgaria	Seminar of Ecology	INTERNATIONAL SEMINAR OF ECOLOGY-2022 Actual problems of Ecology	Семинар	Международен	60	Да	-
13.11.2022 - 15.11.2022	Demre, Turkey	ESENIAS 11 (1)	Joint ESENIAS and DIAS Scientific Conference 2022 "Invasive alien species under conditions of global crisis"	Конференция	Международен	220	Да	Тричкова, Т.

E40: Гостували чуждестранни учени

№	Име на учения	Държава	Година	Брой дни	Повод и финансови условия за гостуване	Забележка
1	Donard Geci	Kosovo	2022	4	За сметка на изпращаща институция	
2	Halil Ibrahimi	Kosovo	2022	4	За сметка на изпращаща институция	
3	Linda Grapci-Kotori	Kosovo	2022	4	За сметка на изпращаща институция	
4	Astrit Bilalli	Kosovo	2022	4	За сметка на изпращаща институция	
5	Pavlo Kolavenko	Ukraine	2022	90	За сметка на правителствена програма	Обучение на нови съвременни цитогенетични и молекулярно-цитогенетични методи при насекоми
6	Jan Zukal	Czech Republic	2022	31	За сметка на изпращаща институция	
7	Jiri Pikula	Czech Republic	2022	7	За сметка на изпращаща институция	
8	Jiří Kvaček	Czech Republic	2022	4	За своя сметка	
9	Hatıra Taşkın	Turkey	2022	7	По съвместен проект от общоакадемична спогодба (ЕБР)	Разходите са изцяло за сметка на турския партньор.
10	Elena Lazzaro	Italy	2022	20	За сметка на изпращаща институция	
11	Roman Godunko	Czech Republic	2022	35	По съвместен проект от общоакадемична спогодба (ЕБР)	

ПРИЛОЖЕНИЕ 1

ГОДИШЕН ОТЧЕТ

на отдел „Животинско разнообразие и ресурси”

ПУБЛИКАЦИИ

публикувани или приети за печат през 2022 г.

ОБОБЩЕНИ ДАННИ (извадка от SONIX, 11.01.2023 г.):

Рубрикация	Излезли	Приети	Общ брой
Научни публикации – общо	**171**	**8**	**179**
Научни публикации в издания, индексирани в WoS, Scopus (общо):	**80**	**7**	**87**
Общо бр. статии в списания с IF	**78**	**7**	**85**
Q1 - оглавява ранглистата (Web of Science) – няма	-	-	
Q1	23	2	25
Q2	20	-	20
Q3	12	1	13
Q4	23	4	27
Научни публикации в издания, индексирани в WoS или Scopus, но без IF и SJR	2	-	1
Научни публикации, отразени в профилирани бази-данни (EBSCO, BIOSIS Citation Index, Zoological Record, eLIBRARY.ru, и др.)	**6**	**1**	7
Статии в издания, неиндексирани в WoS, Scopus, тематични сборници, вкл. сборници от международни и национални научни форуми	**10**	-	**10**
Публикации в депозитни бази	**75**	-	**75**
Монографии, глави от книги	-	-	-

Е 1.1 а. Научни публикации в издания, индексирани в WoS, Scopus, ERIH+ (публикувани) – 78 бр. (SONIX – 11.01.2023)

Легенда: А: Коригиращ Коефициент; Б: Процент автори от звеното; Q – квартил (WoS/Sc)

№	Публикация	А	Б	Q
1	**Grozeva S**, **Stoianova D**, Konstantinov F, Simov N, Kuznetsova V. A synopsis of the numbers of testicular follicles and ovarioles in true bugs (Heteroptera, Hemiptera) – sixty-five years of progress after J. Pendergrast's review.. ZooKeys, 1136, Pensoft, 2022, ISSN:ISSN 1313-2970 (online) | ISSN 1313-2989 (print), DOI:https://doi.org/10.3897/zookeys.1136.96431, 71-123. SJR (Scopus):0.639, JCR-IF (Web of Science):1.492 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	40.00	**Q1**
2	**Nikolov, B. P.**, **Zlatanov, T.**, Groen, T., Stoyanov, S., Hristova-Nikolova, I., Lexer, M.. Habitat requirements of Boreal Owl (Aegolius funereus) and Pygmy Owl (Glaucidium passerinum) in rear edge montane populations on the Balkan Peninsula. Avian Research, 13, Elsevier, 2022, ISSN:2053-7166, DOI:https://doi.org/10.1016/j.avrs.2022.100020, JCR-IF (Web of Science):2.043 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	33.33	**Q1**
3	**Teofilova T. M.**, Kodzhabashev N. D.. Carabus (Tomocarabus) bessarabicus Fischer von Waldheim, 1823 (Coleoptera: Carabidae) – new steppe element for the Bulgarian fauna from the karst refugium of the Chepan Planina Mt.. Diversity, 14, 12, MDPI, 2022, ISSN:1424-2818, DOI:10.3390/d14121123, 1-11. SJR (Scopus):0.668, JCR-IF (Web of Science):3.031 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	50.00	**Q1**
4	**Trichkova T.**, **Todorov M.**, Kenderov M., Hubenov Z., Botev I., Stefanov T., Georgiev D., Jurajda P.. Invasive alien species of benthic macroinvertebrates and fish in the Bulgarian sector of the Danube River - results of the Joint Danube Survey 4 (JDS4). 14, Water, 2022, ISSN:2073-4441, DOI:10.3390/w14152299, 1-19. SJR (Scopus):0.716, JCR-IF (Web of Science):3.53 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	25.00	**Q1**
5	**Yoneva A.**, van Beest G.S., Born-Torrijos A. Search, find and penetrate: Ultrastructural data of furcocercariae of Cardiocephaloides longicollis (Digenea, Strigeidae) explain their transmission and infection strategy into fish host. Parasitology Research. Parasitology Research, 121, Springer, 2022, DOI:https://doi.org/10.1007/s00436-022-07448-0, 877-889. SJR (Scopus):0.562, JCR-IF (Web of Science):2.383 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	33.33	**Q1**
6	Achatz, T.J., Martens, J.R., **Kostadinova, A.**, Pulis, E.E., Orlofske, S.A., Bell, J.A., Fecchio, A., Oyarzún-Ruiz, P., Syrota, Y.Y.,, Tkach, V.V.. Molecular phylogeny of Diplostomum, Tylodelphys, Austrodiplostomum and Paralaria (Digenea: Diplostomidae) necessitates systematic changes and reveals a history of evolutionary host switching events.. International Journal for Parasitology, in press, Elsevier, 2022, ISSN:ISSN 0020-7519, DOI:https://doi.org/10.1016/j.ijpara.2021.06.002, SJR (Scopus):1.482, JCR-IF (Web of Science):3.981 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	10.00	**Q1**
7	Antić, D., **Vagalinski, B.**, Stoev, P., Akkari, N.. A review of the cavernicolous Trichopolydesmidae (Diplopoda, Polydesmida) from the Carpathian-Balkan arch and the Rhodope Mountains, with descriptions of two new genera and three new species. Zookeys, 1097, Pensoft, 2022, ISSN:13132970, DOI:10.3897/zookeys.1097.83916, 1-46. SJR (Scopus):0.64, JCR-IF (Web of Science):1.492 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	25.00	**Q1**
8	Bianco, G., Köhler, R.C., **Ilieva, M.**, Åkesson, S.. The importance of time of day for magnetic body alignment in songbirds. Journal of Comparative Physiology A, 208, 2022, DOI:0.1007/s00359-021-01536-9, 135-144. SJR (Scopus):0.71, JCR-IF (Web of Science):2.389 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	25.00	**Q1**

№	Публикация	А	Б	Q
9	Evsyukov, A.P., **Vagalinski, B.**, Zabiyaka, I.Y., Sadyrin, E.V.. A new millipede genus and species of the tribe Pachyiulini from the Caucasus (Diplopoda, Julida, Julidae). Zookeys, 1097, Pensoft, 2022, ISSN:13132970, DOI:10.3897/zookeys.1097.81792, 47-63. SJR (Scopus):0.64, JCR-IF (Web of Science):1.492 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	25.00	**Q1**
10	Georgieva E., Antal L., Stoyanova S., Aranudova D., Velcheva I.,, Iliev I., Vasileva T., Bivolarski V, Mitkovska V., **Chassovnikarova T.**, Todorova B.. Biomarkers for pollution in caged mussels from three reservoirs in Bulgaria: A pilot study.. Heliyon, Elsevier, 2022, p.e09069. SJR (Scopus):0.46, JCR-IF (Web of Science):2.85 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	9.09	**Q1**
11	Golenishchev F., Zorenko T., Petrova T., Voyta L., Kryuchkova L., **Atanasov N**. Evaluation of the "Bottleneck" Effect in an Isolated Population of Microtus hartingi (Rodentia, Arvicolinae) from the Eastern Rhodopes (Bulgaria) by Methods of Integrative Analysis.. Diversity, 14, 9, MDPI, 2022, 709. SJR (Scopus):0.668, JCR-IF (Web of Science):3.029 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	16.67	**Q1**
12	González-Miguéns R., **Todorov M.**, Blandenier Q., Duckert C., Porfirio-Sousa A.L., Ribeiro G.M., Ramos D., Lahr D.J.G., Buckley D., Lara E.. Deconstructing Difflugia: the tangled evolution of lobose testate amoebae shells (Amoebozoa: Arcellinida) illustrates the importance of convergent evolution in protist phylogeny. 175, Molecular Phylogenetics and Evolution, 2022, ISSN:1055-7903 (print), 1095-9513 (online), SJR (Scopus):1.533, JCR-IF (Web of Science):5.019 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	10.00	**Q1**
13	González-Miguéns, R., Soler-Zamora, C., Villar-Depablo, M., **Todorov, M.**, Lara, E.. Multiple convergences in the evolutionary history of the testate amoeba family Arcellidae (Amoebozoa: Arcellinida: Sphaerothecina): when the ecology rules the morphology.. 194, 4, Zoological Journal of the Linnean Society, 2022, ISSN:0024-4082, DOI:10.1093/zoolinnean/zlab074, 1044-1071. SJR (Scopus):1.112, JCR-IF (Web of Science):3.834 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	20.00	**Q1**
14	Ivković, S., **Chobanov, D.**, Horvat, L., Iorgu, I.Ș., Hochkirch, A.. Geographic differentiation in male calling song of Isophya modestior (Orthoptera, Tettigoniidae, Phaneropterinae). ZooKeys, 1122, Pensoft, 2022, ISSN:1313-2970, DOI:doi: 10.3897/zookeys.1122.85721, 107-123. SJR (Scopus):0.64, JCR-IF (Web of Science):1.492 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	20.00	**Q1**
15	Khosravi, M, Thieltges, DW, Shamseddin, J, **Georgieva, S**. Schistosomes in the Persian Gulf: novel molecular data, host associations, and life-cycle elucidations. Scientific Reports, 12, 13461, Nature, 2022, ISSN:2045-2322, DOI:10.1038/s41598-022-17771-2, SJR (Scopus):1.005, JCR-IF (Web of Science):4.996 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	25.00	**Q1**
16	Kociński, M., **Chobanov, D.**, Grzywacz, B.. New insights into the genetic diversity of the Balkan bush-crickets of the Poecilimon ornatus group (Orthoptera: Tettigoniidae). Arthropod Systematics & Phylogeny, 80, 2022, ISSN:1864-8312, DOI:DOI 10.3897/asp.80.e82447, 243-259. SJR (Scopus):1.03, JCR-IF (Web of Science):2.8 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	33.33	**Q1**
17	Odjacova, Ts., Todorov, P, **Radoslavov, G**, **Hristov, P**. Microsatellite Genotyping of Two Bulgarian Sheep Breeds. Diversity, 14, 210, MDPI, 2022, ISSN:1424-2818, DOI:https://doi.org/10.3390/d14030210, 1-12. SJR (Scopus):0.7, JCR-IF (Web of Science):2.465 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	50.00	**Q1**
18	Pérez-del-Olmo, A., **Georgieva, S.**, Dallarés, S., Constenla, M., **Kostadinova, A.**, Carrassón, M.. Linking integrative taxonomy and ecology: Diversity and population structure of two platyhelminth parasites (Digenea: Lepidapedidae) of sympatric deep-sea	1.000	33.33	**Q1**

№	Публикация	А	Б	Q
	fishes in the Western Mediterranean.. Deep-Sea Research Part I, Elsevier, 2022, DOI:https://doi.org/10.1016/j.dsr.2022.103948, 103948. SJR (Scopus):0.855, JCR-IF (Web of Science):3.101 **Q1, не оглавява ранглистата (Scopus)** Линк			
19	Pérez-del-Olmo, A., Raga, J.A., **Kostadinova A.**. Parasite communities in a marine fish indicate ecological recovery from the impacts of the Prestige oil-spill 12–13 years after the disaster.. Science of the Total Environment, 847, Elsevier, 2022, 157354. JCR-IF (Web of Science):10.753 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	33.33	**Q1**
20	Salkova, D, Shumkova, R, Balkanska, R, Palova, N, **Neov, B**, **Radoslavov, G**, **Hristov, P**. Molecular Detection of Nosema spp. in Honey in Bulgaria. Veterinary Sciences, 9, 10, MDPI, 2022, ISSN:2306-7381, DOI:https://doi.org/10.3390/vetsci9010010, 1-10. SJR (Scopus):2.5, JCR-IF (Web of Science):2.304 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	42.86	**Q1**
21	Shahrbanou Bakhshi Amrei ·, **Vlada Peneva**, Farshad Rakhshandehroo, Majid Pedram. Description of Longidorus armeniacae n. sp. (Nematoda: Longidoridae), associated. European Journal of Plant Pathology, 2022, JCR-IF (Web of Science):1.907 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	25.00	**Q1**
22	Stonen, A. V., Mattucci, F., Fabbri, E., Galaverni, M., Cocchiararo, B., Nowak, C., Godinho, R., Ruiz-González, A., Kusak, J., Skrbinšek, T., Randi, E., **Vlasseva, A.**, Mucci, N., Caniglia, R.. A reduced SNP panel to trace gene flow across southern European wolf populations and detect hybridization with other Canis taxa.. Scientific Reports, 12, 1, 2022, DOI:https://doi.org/10.1038/s41598-022-08132-0, art. 4195. SJR (Scopus):1.005, JCR-IF (Web of Science):4.996 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	7.14	**Q1**
23	Yordanov, G, Mehandjyiski, I, Palova, N, **Atsenova, N**, **Neov, B**, **Radoslavov, G**, **Hristov, P**. Genetic diversity and structure of the main Danubian horse paternal genealogical lineages based on microsatellite genotyping. Veterinary Sciences, 9, 333, MDPI, 2022, ISSN:2306-7381, DOI:https://doi.org/10.3390/vetsci9070333, 1-14. SJR (Scopus):0.52, JCR-IF (Web of Science):2.518 **Q1, не оглавява ранглистата (Scopus)** Линк	1.000	57.14	**Q1**
1	**Atsenova, N**, Palova, N, Mehandjyiski, I, **Neov, B**, **Radoslavov, G**, **Hristov, P**. The sequence analysis of mitochondrial DNA revealed some major centers of horse domestications: the archaeologist's cut. Journal of Equine Veterinary Science, 109, 103830, Elsevier, 2022, ISSN:0737-0806, DOI:https://doi.org/10.1016/j.jevs.2021.103830, 1-8. SJR (Scopus):0.41, JCR-IF (Web of Science):1.583 **Q2 (Scopus)** Линк	1.000	66.67	**Q2**
2	**Chobanov, D.**, Massa, B.. On some Moroccan Pamphagidae, with the description of a new species of Euryparyphes (Orthoptera: Caelifera). Zootaxa, 5104, 3, Magnolia Press, 2022, ISSN:1175-5326, DOI:https://doi.org/10.11646/zootaxa.5104.3.3, 409-425. SJR (Scopus):0.56, JCR-IF (Web of Science):1.026 **Q2 (Scopus)** Линк	1.000	50.00	**Q2**
3	**Deltshev, C.**, **Naumova, M.**, Matevski, D., Indzhov, S.. New taxonomic and faunistic data on the genus Zodarion Walckenaer, 1826 (Araneae: Zodariidae) in the Balkans, with the descriptions of two new species. Zootaxa, 5174, 3, Magnolia Press, 2022, ISSN:1175-5326, DOI:10.11646/ZOOTAXA.5174.3.3, 247-261. SJR (Scopus):0.56, JCR-IF (Web of Science):1.091 **Q2 (Web of Science)** Линк	1.000	50.00	**Q2**
4	**Michailova, P**. External morphology of larva and polytene chromosomes of Clunio marinus Haliday, 1855 (Diptera, Chironomidae, Orthocladiinae) from two localities of the Atlantic coast. Zootaxa, 5141, 2, 2022, ISSN:ISSN 1175-5326 (print edition), ISSN 1175-5334 (online edition),, DOI:https://doi.org/10.11646/zootaxa.5141.2.4, 163-173. JCR-IF (Web of Science):1.026 **Q2 (Web of Science)** Линк	1.000	100.00	**Q2**
5	**Stoyanov, B.**, **Georgiev, B. B.**. Marine parasite in a freshwater wetland: New host	1.000	100.00	**Q2**

№	Публикация	А	Б	Q
	and geographical records of Progrillotia dasyatidis (Cestoda: Trypanorhyncha) from Gasterosteus aculeatus (Actinopterygii: Gasterosteidae) in Bulgaria, with comments on its life-cycle.. Journal of Helminthology, 96, Cambridge University Press, 2022, DOI:10.1017/S0022149X22000578, e70. JCR-IF (Web of Science):1.866 **Q2 (Web of Science)** Линк			
6	**Toshkova, N.**, **Zlatkov, B.**, Fakirova, A., Zhelyazkova, V., Simov, N.. First record of Psorergatoides Fain, 1959 (Acari, Cheyletoidea, Psorergatidae) for the Balkan Peninsula with description of the cutaneous lesions on the wing membrane of its hosts Myotis myotis (Borkhausen, 1797) and Myotis blythii (Tomes, 1857) (Chiroptera, Vespertilionidae). Biodiversity Data Journal, 10, e89514, Pensoft, 2022, SJR (Scopus):0.492, JCR-IF (Web of Science):1.54 **Q2 (Scopus)** Линк	1.000	40.00	**Q2**
7	**Vagalinski, B.**, **Borissov, S.**, **Bobeva, A.**, Canciani, G., Antić, D.Ž.. The mostly cavernicolous millipede genus Stygiiulus Verhoeff, 1929, stat. nov.: taxonomy, distribution and phylogenetic relationships (Diplopoda, Julida, Julidae). European Journal of Taxonomy, 798, Museum National d'Histoire Naturelle, 2022, ISSN:21189773, DOI:https://doi.org/10.5852/ejt.2022.798.1669, 30-69. SJR (Scopus):0.56, JCR-IF (Web of Science):1.398 **Q2 (Scopus)** Линк	1.000	60.00	**Q2**
8	**Zlatkov, B.**, Vergilov, V., Sivilov, O., Perez Santa-Rita, J., Baixeras, J.. New approaches for studying the functional anatomy of the phallus in Lepidoptera. Zoomorphology, Springer, 2022, DOI:https://doi.org/10.1007/s00435-022-00566-4, SJR (Scopus):0.41, JCR-IF (Web of Science):1.138 **Q2 (Scopus)** Линк	1.000	20.00	**Q2**
9	Evsyukov, A.P., Golovatch, S.I., **Vagalinski, B.**, Chumachenko, Y.A., Turbanov, I.S., Zabiyaka, I.Y.. New records of millipedes (Diplopoda) from the Caucasus region. Arthropoda Selecta, 31, 2, KMK Scientific Press Ltd., 2022, ISSN:0136006X, DOI:10.15298/arthsel.31.2.03, 157-165. SJR (Scopus):0.45, JCR-IF (Web of Science):0.664 **Q2 (Scopus)** Линк	1.000	16.67	**Q2**
10	Georgiev, G., **Sakalian, V.**, Mirchev, P., Georgieva, M., Belilov, S. A checklist and areography of the longhorn beetles (Coleoptera, Cerambycidae) of Pirin Mountains, Bulgaria.. Biodiversity Data Journal, 10, e93718, Pensoft, 2022, ISSN:1314-2828, DOI:10.3897/BDJ.10.e93718, 1-21. SJR (Scopus):0.492, JCR-IF (Web of Science):1.54 **Q2 (Scopus)** Линк	1.000	20.00	**Q2**
11	Grapci-Kotori, L., Geci, D., **Naumova, M.**, Ibrahimi, H., Bilalli, A., Musliu, M., Gashi, A., Kasumaj, E.. Spiders from Sharr Mountain - new faunistic data (Arachnida: Araneae). Natura Croatica, 31, 2, 2022, DOI:10.20302/NC.2022.31.24, 335-350. SJR (Scopus):0.42 **Q2 (Scopus)** Линк	1.000	12.50	**Q2**
12	Hart, A., Verbeeck, J., Ariza, D., Cejas, D., Ghisbain, G., Honchar, H., Radchenko, V., Straka, J., **Ljubomirov, T.**, Lecocq, T., Dániel-Ferreira, J., Flaminio, S., Bortolotti, L., Karise, R., Meeus, I., Smagghe, G., Vereecken, N., Vandamme, P., Michez, D., Maebe, K.. Signal of adaptation to agricultural stress in the genomes of two Euripean bumblebees. Frontiers in Genetics, 13, 993416, Frontiers Media S.A., 2022, ISSN:1664-8021, DOI:doi.org/10.3389/fgene.2022.993416, 1-17. SJR (Scopus):1.096, JCR-IF (Web of Science):4.772 **Q2 (Scopus)** Линк	1.000	5.00	**Q2**
13	Heller, K.-G., **Chobanov, D.**, Warchalowska-Sliwa, E., Hemp, C.. Review of song patterns and sound production in armoured ground crickets (Orthoptera: Tettigoniidae: Hetrodini) with karyological data and taxonomic notes. Zootaxa, 5120, 4, Magnolia Press, 2022, ISSN:1175-5326, DOI:https://doi.org/10.11646/zootaxa.5120.4.1, 451-481. SJR (Scopus):0.56, JCR-IF (Web of Science):1.026 **Q2 (Scopus)** Линк	1.000	25.00	**Q2**
14	Lapeva-Gjonova, A., **Antonova, V.**. An updated checklist of ants (Hymenoptera, Formicidae) of Bulgaria, after 130 years of research. Biodiversity Data Journal, 10, Pensoft Publishers, 2022, ISSN:1314-2828, DOI:https://doi.org/10.3897/BDJ.10.e95599,	1.000	50.00	**Q2**

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	SJR (Scopus):0.49, JCR-IF (Web of Science):1.54 **Q2 (Scopus)** Линк			
15	Luzyanin S. L., Gordienko T. A., Saveliev A. A., Ukhova N. L., Vorobeva I. G., Solodovnikov I. A., Anciferov A. L., Nogovitsyna S. N., Aleksanov V. V., **Teofilova T. M.**, Sukhodolskaya R. A.. Impact of climatic factors on sexual size dimorphism in ground beetle Pterostichus melanarius (Illiger, 1798) (Coleoptera, Carabidae). Ecologica Montenegrina, 58, 2022, ISSN:2336-9744, DOI:10.37828/em.2022.58.1, 1-13. SJR (Scopus):0.393 **Q2 (Scopus)** Линк	1.000	9.09	**Q2**
16	Luzyanin S., Saveliev A., Ukhova N., Vorobyova I., Solodovnikov I., Anciferov A., Shagidullin R., **Teofilova T.**, Nogovitsyna S., Brygadyrenko V., Alexanov V., Sukhodolskaya R.. Modeling sexual differences of body size variation in ground beetles in geographical gradients: a case study of Pterostichus melanarius (Illiger, 1798) (Coleoptera, Carabidae). Life, 12, 1, MDPI, 2022, ISSN:2075-1729, DOI:10.3390/life12010112, 1-13. SJR (Scopus):0.588, JCR-IF (Web of Science):3.817 **Q2 (Scopus)** Линк	1.000	8.33	**Q2**
17	Marx, Melanie, Schumm, Yvonne R., Kardynal, Kevin J., Hobson, Keith A., Rocha, Gregorio, **Zehtindjiev, Pavel**, Bakaloudis, Dimitris, Metzger, Benjamin, Cecere, Jacopo G., Spina, Fernando, Cianchetti-Benedetti, Marco, Frahnert, Sylke, Voigt, Christian C., Lormee, Herve, Eraud, Cyril, Quillfeldt, Petra. Feather stable isotopes (delta H-2(f) and delta C-13(f)) identify the Sub-Saharan wintering grounds of turtle doves from Europe. European Journal of Wildlife Research, 68, 22, Springer, 2022, DOI:https://doi.org/10.1007/s10344-022-01567-w, 2-14. SJR (Scopus):0.628, JCR-IF (Web of Science):2.249 **Q2 (Web of Science)** Линк	1.000	6.25	**Q2**
18	Olszewski, P., Dyderski, M., Dylewski, Ł., Bogusch, P., Schmid-Egger, C., **Ljubomirov, T.**, Zimmermann, D., Le Divelec, R., Wiśniowski, B., Twerd, L., Pawlikowski, T., Mei, M., Popa, A., Szczypek, J., Sparks, T., Puchałka, R.. European beewolf (Philanthus triangulum) will expand its geographic range as a result of climate warming. Regional Environmental Change, 22, 129, Springer Nature Switzerland, 2022, ISSN:1436-378X, DOI:https://doi.org/10.1007/s10113-022-01987-z, 1-12. SJR (Scopus):1.143, JCR-IF (Web of Science):4.704 **Q2 (Scopus)** Линк	1.000	6.25	**Q2**
19	Rezić, A., Iacolina, L., Bužan, E., Safner, T., Bego, F., Gačić, D., Maletić, V., **Markov, G.**, Milošević, D., Papaioannou, H., Šprem, N.. The Balkan chamois, an archipelago or a peninsula? Insights from nuclear and mitochondrial DNA. Conservation Genetics, 23, 3, 2022, DOI:doi.org/10.1007/s10592-022-01434-w, 527-539. SJR (Scopus):0.826, JCR-IF (Web of Science):2.538 **Q2 (Web of Science)** Линк	1.000	9.09	**Q2**
20	Vas, Z., Rezaei, S., Fallahzadeh, M., Mohammadi-Khorambadi, A., Saghaei, N., **Ljubomirov, T.**. Contributions to the taxonomy, identification, and biogeography of Palaearctic Campopleginae (Hymenoptera: Ichneumonidae), with the descriptions of four new species from Iran. Zootaxa, 5134, 2, Magnolia Press, 2022, ISSN:1175-5334, DOI:https://doi.org/10.11646/zootaxa.5134.2.5, 261-274. SJR (Scopus):0.557, JCR-IF (Web of Science):1.091 **Q2 (Web of Science)** Линк	1.000	16.67	**Q2**
1	**Dyugmedzhiev, A.**, **Andonov, K.**, **Todorov, V.**, Martínez del Mármol, G., Stanchev, N. A possible case of syntopy between Bitis arietans and Daboia mauritanica based on new reptile localities in southwestern Morocco. Herpetology Notes, 15, 2022, 33-46. SJR (Scopus):0.32 **Q3 (Scopus)** Линк	1.000	60.00	**Q3**
2	**Takov, D.**, Barta, M., **Toshova, T.**, Doychev, D., **Pilarska, D**. On the pathogenicity of Metarhizium pemphigi against Ips typographus L. Comptes rendus de l'Académie bulgare des Sciences, 75, 4, Марин Дринов, 2022, ISSN:1310–1331, DOI:https://doi.org/10.7546/CRABS.2022.04.10, 554-560. SJR (Scopus):0.194, JCR-IF (Web of Science):0.378 **Q3 (Scopus)** Линк	1.000	60.00	**Q3**
3	**Teofilova T.**. Ground beetles in Romanian oilseed rape fields and adjacent grasslands	1.000	100.00	**Q3**

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	(Coleoptera: Carabidae). Folia Oecologica, 49, 2, 2022, ISSN:1336-5266, DOI:10.2478/foecol-2022-0017, 148-158. SJR (Scopus):0.26 **Q3 (Scopus)** Линк			
4	**Todorov, I.**, Boyadzhiev, P., Antov, M., Stojanova, A. Interrupted hibernation of the gall-inducer affects its parasitoids – A case study on some gall communities of Diplolepis rosae (Hymenoptera: Cynipidae) in Bulgaria. Biologia, 77, 4, Springer, 2022, ISSN:0006-3088, DOI:10.1007/s11756-022-01184-7, 3143-3155. SJR (Scopus):0.339, JCR-IF (Web of Science):1.35 **Q3 (Scopus)** Линк	1.000	25.00	**Q3**
5	**Toshova, T.**, Velchev, D., Barta, M., **Takov, D.**, **Todorov, I.**, **Pilarska, D.**, Tóth, M., **Berkov, S.**, **Nikolova, M**. Insecticide activity of Greek oregano essential oil and entomopathogenic fungus Metarhizium pemphigi against Diabrotica virgifera virgifera LeConte. Cereal Research Communications, 50, 4, Springer Nature, 2022, ISSN:01333720, DOI:10.1007/s42976-022-00266-1, 1045-1054. SJR (Scopus):0.329, JCR-IF (Web of Science):1.24 **Q3 (Scopus)** Линк	1.000	66.67	**Q3**
6	Antov, M., Stojanova, A., **Todorov, I.**, Boyadzhiev, P., Askew, R.. Chalcidoid parasitoids (Hymenoptera: Chalcidoidea) associated with Sibinia subelliptica (Desbrochers, 1873) (Coleoptera: Curculionidae) in Bulgaria. Graellsia, 78, 2, Spanish National Research Council (CSIC), 2022, e171. SJR (Scopus):0.25 **Q3 (Scopus)** Линк	1.000	20.00	**Q3**
7	Ivanova-Aleksandrova, N, **Dundarova, H**, **Neov, B**, Emilova, R, Georgieva, I, Rayna Antova, Kirov, K, Pikula, J, Zukalová, K, Zukal, J. Ectoparasites of Cave-Dwelling Bat Species in Bulgaria. Proceedings of the Zoological Society, 2022, DOI:https://doi.org/10.1007/s12595-022-00451-4, SJR (Scopus):0.228, JCR-IF (Web of Science):0.71 **Q3 (Web of Science)** Линк	1.000	20.00	**Q3**
8	Kereselidze, M., **Pilarska, D.**, Guntadze, N., Linde, A.. Halyomorpha halys Stål, (Hemiptera:Pentatomidae) feeding effects on some agricultural fruits in Georgia.. Turkish Journal of Zoology, 46, 3, TÜBİTAK, 2022, DOI:10.3906/zoo-2202-23, 298-303. SJR (Scopus):0.26, JCR-IF (Web of Science):0.673 **Q3 (Scopus)** Линк	1.000	25.00	**Q3**
9	Novaković B. B., Raković M. B., Čiampor Jr F., **Teofilova T. M.**, Živić I. M.. Genetic variability of riffle beetle Elmis maugetii Latreille, 1798 (Coleoptera: Elmidae) in Europe and North Africa. Biologia, 77, SpringerLink, 2022, ISSN:1336-9563, DOI:10.1007/s11756-022-01206-4, 3173-3183. SJR (Scopus):0.339, JCR-IF (Web of Science):1.653 **Q3 (Scopus)** Линк	1.000	20.00	**Q3**
10	Šestáková, A., Černecká, Ľ., **Naumova, M.**, Purgat, P., Szita, E., Gajdoš, P.. A review of two very rare ground spiders from sandy habitats, new for Slovakia (Gnaphosidae, Araneae). Arachnologische Mitteilungen/Arachnology Letters, 64, 2022, 14-24. SJR (Scopus):0.36 **Q3 (Scopus)** Линк	1.000	16.67	**Q3**
11	Shumkova, R, Balkanska, R, Salkova, D, **Hristov, P**. Impat of the plant-based natural supplement IMMUNOSTART HERB on honey bee colony performance. Acta Veterinaria-Beograd, 72, 3, Faculty of Veterinary Medicine, University of Belgrade, Serbia, 2022, ISSN:0567-8315, DOI:10.2478/acve-2022-0028, 348-361. SJR (Scopus):0.25, JCR-IF (Web of Science):1 **Q3 (Scopus)** Линк	1.000	25.00	**Q3**
12	Trifonova, Iva, Christova, Iva, Ivanova-Aleksandrova, Nadya, Gladnishka, Teodora, Ivanova, Vladislava, Panayotova, Elitsa, Taseva, Evgenia, **Dimitrov, Dimitar**, **Marinov, Martin**, Kamenov, Galin, **Zehtindjiev, Pavel**. Survey of Borrelia burgdorferi sensu lato and West Nile fever virus in wild birds in Bulgaria. Biologia, 77, 12, 2022, DOI:10.1007/s11756-022-01239-9, 3519-3524. JCR-IF (Web of Science):1.653 **Q3 (Web of Science)** Линк	1.000	27.27	**Q3**
1	**Dedov, I. K.**, Mitov, P. G., Zapryanov, L., Georgiev, G., Gashtarov, V.. Distribution of the Invasive Land Snail Eobania vermiculata (O. F. Müller, 1774) (Gastropoda: Helicidae)	1.000	20.00	**Q4**

№	Публикация	А	Б	Q
	in Bulgaria. Acta Zoologica Bulgarica, 74, 4, 2022, ISSN:0324-0770 (print) | 2603-3798 (online), 611-622. JCR-IF (Web of Science):0.448 **Q4 (Web of Science)** Линк			
2	**Djorgova, N.**, **Ragyov, D.**, Popgeorgiev, G., **Biserkov, V.**, Biserkov, Y., Zlatanova, D., **Nikolov, B.P.**. Habitat preferences of three species of diurnal birds of prey in relation to their potential foraging resources in the Balkan Mountains Range, Bulgaria. Acta Zoologica Bulgarica, 74, 3, 2022, 385-402. SJR (Scopus):0.24, JCR-IF (Web of Science):0.448 **Q4 (Scopus)** Линк	1.000	57.14	**Q4**
3	**Dolapchiev N.P.**. Apostatic or Anti-apostatic? Prey Selection of Wolf Canis lupus L. (Mammalia: Canidae) in the Osogovo Mountain, Bulgaria. ACTA ZOOLOGICA BULGARICA, 74 (2), June 2022, Institute of Biodiversity and Ecosystem Research – Bulgarian Academy of Sciences (IBER – BAS), 2022, ISSN:0324-0770 (print) | 2603-3798 (online), 235-244. SJR (Scopus):0.21, JCR-IF (Web of Science):0.448 **Q4 (Web of Science)** Линк	1.000	25.00	**Q4**
4	**Kazakov, S.**, **Stoianova, D.**, Nikolova, Y., **Pehlivanov, L.**. Spawning of Stocked Brown Trout Salmo trutta Linnaeus, 1758 (Actinopterygii: Salmonidae) in Tailwater Section, Downstream Ogosta Reservoir, Bulgaria. ACTA ZOOLOGICA BULGARICA, 74, 1, IBER-BAS, 2022, ISSN:03240770, 111-118. SJR (Scopus):0.237 **Q4 (Scopus)** Линк	1.000	75.00	**Q4**
5	**Sakalian, V.**, **Ljubomirov, T.**, Migliaccio, E., Gashtarov, V., Doychev, D., Georgiev, G. New data on the distribution and host plants of subfamily Agrilinae in Bulgaria. Spixiana, 45, 1, 2022, ISSN:0341-8391, 67-72. SJR (Scopus):0.19, JCR-IF (Web of Science):0.391 **Q4 (Web of Science)** Линк	1.000	33.33	**Q4**
6	**Sakalian, V.**, **Ljubomirov, T.**, Migliaccio, E., Gashtarov, V., Doychev, D., Georgiev, G. New data on the taxonomy, distribution and host plants of subfamily Chrysochroinae (Coleoptera: Buprestidae) in Bulgaria.. Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa", 65, 1, Pensoft, 2022, ISSN:2247-0735, DOI:0.3897/travaux.65.e77971, 121-128. SJR (Scopus):0.143 **Q4 (Scopus)** Линк	1.000	33.33	**Q4**
7	**Takov, D.**, **Ostoich, P.**, Zubrik, M., **Pilarska, D.**. Coleopterans as model organisms in insect immunity: a review.. North-Western Journal of Zoology, 18, 1, 2022, ISSN:1843-5629, 104-111. SJR (Scopus):0.23, JCR-IF (Web of Science):0.75 **Q4 (Web of Science)** Линк	1.000	75.00	**Q4**
8	**Takov, D.**, **Ostoich, P.**, Zubrik, M., **Pilarska, D.**. Immune and defense mechanisms in representatives of Blattodea and Orthoptera: a review. Polish Journal of Entomology, 91, 1, 2022, ISSN:0032-3780, DOI:10.5604/01.3001.0015.8099, 33-49. SJR (Scopus):0.26 **Q4 (Scopus)** Линк	1.000	75.00	**Q4**
9	**Teofilova T. M.**. Ground beetle (Coleoptera: Carabidae) communities and microhabitat diversity in a mountain village house yard – a case study from the Western Rhodope Mountains in Bulgaria. Zoology and Ecology, 32, 2, 2022, ISSN:2165-8013, DOI:10.35513/21658005.2022.2.8, 153-164. SJR (Scopus):0.168 **Q4 (Scopus)** Линк	1.000	100.00	**Q4**
10	**Todorov, I.**, **Ljubomirov, T.**, **Peneva, V.**. Pteromalid fauna (Hymenoptera: Pteromalidae) in oilseed rape (Brassica napus L.) fields in Bulgaria – species composition and perspectives for biological control. BioRisk, 17, Pensoft Publishers, 2022, DOI:10.3897/biorisk.17.77454, 329-342. SJR (Scopus):0.235 **Q4 (Scopus)** Линк	1.000	100.00	**Q4**
11	**Todorov, V. R.**, **Valchinkova, K.**, Kanchev, K.. Growth in a young male brown bear (Ursus arctos L., 1758) (Mammalia: Carnivora) captured and tagged with GPS-GSM collar. Historia Naturalis Bulgarica, 44, 2, 2022, DOI:https://doi.org/10.48027/hnb.44.021, 9-13. SJR (Scopus):0.103 **Q4 (Scopus)** Линк	1.000	66.67	**Q4**
12	**Varadinova, E.**, **Georgieva, G.**, **Ihtimanska, M.**, **Vidinova, Y.**, **Evtimova,**	1.000	100.00	**Q4**

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	V., **Tyufekchieva, V.**, **Todorov, M.**. Macrozoobenthos in Mountain Standing Water Bodies in Bulgaria. Acta Zoologica Bulgarica, Supplement 16, 2022, ISSN:0324-0770, 1-12. SJR (Scopus):0.21 **Q4 (Web of Science)** Линк			
13	**Vasileva, G.P.**, **Marinova, M. H.**, **Georgiev, B. B.**. Revision of the species of the genus Diorchis Clerc, 1903 (Cestoda, Hymenolepididae) from rallid birds: a redescription of Diorchis acuminata (Clerc, 1902). Systematic Parasitology, 99, 3, Springer, 2022, ISSN:0165-5752, DOI:https://doi.org/10.1007/s11230-022-10032-w, 347-365. SJR (Scopus):0.471, JCR-IF (Web of Science):1.023 **Q4 (Web of Science)** Линк	1.000	100.00	**Q4**
14	**Vidinova, Y.**, **Tyufekchieva, V.**, **Ihtimanska, M.**, **Evtimova, V.**, **Varadinova, E.**, **Todorov, M.**, **Georgieva, G.**. Benthic Macroinvertebrate Assemblages in Karst Springs Ecosystems in Bulgaria. Acta Zoologica Bulgarica, Supplement 16, 2022, ISSN:0324-0770, 1-16. SJR (Scopus):0.21 **Q4 (Web of Science)** Линк	1.000	100.00	**Q4**
15	Boyadzhiev, P., Antov, M., **Todorov, I.**. Description of Stepanovia rosaeformis sp. n. (Hymenoptera: Eulophidae) from Bulgaria. Spixiana, 45, 1, Zoologische Staatssammlung München, 2022, ISSN:0341-8391, 77-82. SJR (Scopus):0.19, JCR-IF (Web of Science):0.391 **Q4 (Web of Science)** Линк	1.000	33.33	**Q4**
16	Georgiev, D., **Dedov, I. K.**, **Taseva M.**. First discovery of a Devetakia species (Gastropoda: Hydrobiidae) from the Rhodopes Mountains, Bulgaria.. Historia naturalis bulgarica, 44, 1, National Museum of Natural History, Bulgarian Academy of Sciences, 2022, ISSN:ISSN 2603-3186 (online) | ISSN 0205-3640 (print), DOI:https://doi.org/10.48027/hnb.44.012, 5-8. SJR (Scopus):0.3 **Q4 (Scopus)** Линк	1.000	66.67	**Q4**
17	Georgiev, D., **Dedov, I.**. New Records of Terrestrial Gastropods (Gastropoda, Mollusca) from Strandzha Mts. (Bulgaria) and its Adjacent Coastal Area.. Ecologia Balkanica, Special Edition, 5, Union of Scientists in Bulgaria – Plovdiv and the University of Plovdiv Publishing House, 2022, ISSN:Online ISSN: 1313-9940 | Print ISSN: 1314-0213, 17-23. SJR (Scopus):0.137 **Q4 (Scopus)** Линк	1.000	50.00	**Q4**
18	Georgiev, D., **Trichkova T.**, **Todorov M.**, **Dedov, I.**. On the freshwater snails of Strandzha Mts and its adjacent coastal area.. Ecologia Balkanica, Special Edition, 5, Union of Scientists in Bulgaria – Plovdiv and the University of Plovdiv Publishing House, 2022, ISBN:Online ISSN: 1313-9940 | Print ISSN: 1314-0213, 79-81. SJR (Scopus):0.137 **Q4 (Scopus)** Линк	1.000	75.00	**Q4**
19	Georgiev, D., Schneppat, U., E., **Dedov, I.**. Bythinella fabiae n. sp., a new spring-snail species (Gastropoda: Rissooidea) from the Belasitsa Mountains, South-West Bulgaria.. Historia naturalis bulgarica, 44, 4, National Museum of Natural History, Bulgarian Academy of Sciences, 2022, ISSN:ISSN 2603-3186 (online) | ISSN 0205-3640 (print), DOI:https://doi.org/10.48027/hnb.44.041, 31-36. SJR (Scopus):0.3 **Q4 (Scopus)** Линк	1.000	33.33	**Q4**
20	Jiyoung, P., Sakelarieva, L., **Varadinova, E.**, **Evtimova, V.**, **Vidinova, Y.**, **Tyufekchieva, V.**, **Georgieva, G.**, **Ihtimanska, M.**, **Todorov, M.**. Taxonomic Composition and Dominant Structure of the Macrozoobenthos in the Maritsa River and Some Tributaries, South Bulgaria. Acta Zoologica Bulgarica, Supplement 16, 2022, ISSN:0324-0770, 1-14. SJR (Scopus):0.21 **Q4 (Web of Science)** Линк	1.000	77.78	**Q4**
21	Kornienko, S. A., **Vasileva, G. P.**, **Georgiev, B. B.**. New cestode species of the genus Neoskrjabinolepis Spassky, 1947 (Cyclophyllidea: Hymenolepididae) from the Common Shrew (Sorex araneus L.) in Europe.. Systematic Parasitology, 99, 1, Springer, 2022, DOI:https://doi.org/10.1007/s11230-021-10012-6, 13-21. SJR (Scopus):0.412, JCR-IF (Web of Science):1.023 **Q4 (Web of Science)** Линк	1.000	66.67	
22	Marinova, M.H., **Vasileva, G.P.**. New records of hymenolepidid cestodes (Cyclophyllidea: Hymenolepididae) from ducks (Anseriformes: Anatidae) in Bulgaria.	1.000	50.00	

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	Acta Zoologica Bulgarica, 74, 2, 2022, 305-315. SJR (Scopus):0.213, JCR-IF (Web of Science):0.354 **Q4 (Scopus)** Линк			
23	Tsvetanov, T., **Zlatkov, B.**. Klimeschia transversella (Zeller, 1839), a new species for Bulgaria (Insecta: Lepidoptera: Douglasiidae). Historia naturalis bulgarica, 44, 5, 2022, DOI:https://doi.org/10.48027/hnb.44.051, 37-40. SJR (Scopus):0.1 **Q4 (Scopus)** Линк	1.000	50.00	
	Научни публикации в издания, индексирани в WoS или Scopus, но без IF и SJR (публикувани)			
1	Lablack, L, Rima, M, **Georgieva, S**, Marzoug, D, **Kostadinova, A**. Novel molecular data for monogenean parasites of sparid fishes in the Mediterranean and a molecular phylogeny of the Microcotylidae Taschenberg, 1879. Current Research in Parasitology & Vector-Borne Diseases, 2, ELSEVIER, 2022, ISSN:2667-114X, DOI:https://doi.org/10.1016/j.crpvbd.2021.100069, 100068 **Без JCR или SJR – индексиран в WoS или Scopus (Scopus)** Линк	1.000	40.00	
2	**Georgieva K**, Nanev V, Vladov I, Dencheva E, Gabrashanska M. Profile of manganese accumulation in the host-parasite (Rattus norvegicus-Fasciola hepatica) system after manganese salt treatment. Acta Morphologica et Anthropologica, 29, (3-4), Prof. Marin Drinov Publishing House, Bulgarian Academy of Sciences, 2022, ISSN:1311-8773 (print), 2535-0811 (online), DOI:10.7546/AMA.29.3-4.2022.32, 174-177 **Без JCR или SJR – индексиран в WoS или Scopus** Линк	1.000	20.00	

Е 1.1А а: Публикации, отразени в профилирани бази от данни (EBSCO, BIOSIS Citation Index, Zoological Record, eLIBRARY.ru, и др.) (публикувани) – 7 бр. (SONIX – 06.01.2023)

№	Публикация	А	Б
1	**Aneliya Bobeva**, Eberhard Zielke. On abdomen pattern and some other differentiating features of female Hydrotaea borussica Stein from Bulgaria, verified by DNA analysis, and in females of similar species (Diptera: Muscidae). Entomologist's Monthly Magazine, 158, 2, Pemberley Books (Publishing), 2022, ISSN:0013-8908, DOI:https://doi.org/10.31184/M00138908.1582.4114 **Международно академично издателство (Zoological Record)**	1.000	50.00
2	**Teofilova T. M.**. Conservation significance and habitats variety in the Western Rhodope Mts. as a factor for the diversity of the ground beetles (Coleoptera Carabidae). Biodiversity Journal, 13, 3, 2022, ISSN:2039-0408, DOI:10.31396/Biodiv.Jour.2022.13.3.601.612, 601-612 **Международно неакадемично издателство (BIOSIS Citation Index)** Линк	1.000	100.00
3	**Теофилова Т. М.**, Соболев А. Е., Андреева А. В., Суходольская Р. А.. Изменчивость размеров и половой диморфизм в популяциях жужелицы Pterostichus melanarius Ill. (Coleoptera, Carabidae) в агроценозах Европы. Известия Чеченского государственного педагогического университета. Серия 2. Естественные и технические науки, 2, 25, 2022, DOI:10.54351/25876074-2021-2-25-35, 35-45 **Международно академично издателство (eLIBRARY.ru)** Линк	1.000	25.00
4	Antov, M., **Todorov, I.**, Boyadzhiev, P., Stojanova, A., Koteva, E.. Chalcidoid wasps (Hymenoptera: Chalcidoidea: Eulophidae, Eupelmidae, Eurytomidae, Megastigmidae, Ormyridae, Pteromalidae and Torymidae) from Sarnena Sredna Gora Mts. ZooNotes, Supplement 11, PLOVDIV UNIVERSITY PRESS "PAISII HILENDARSKI", 2022, ISSN:1313-9916, 64-75 **Международно академично издателство (Zoological Record)** Линк	1.000	20.00
5	Petrova Y., Gradinarov D., **Chehlarov E.**, **Teofilova T.**, Kodzhabashev N.. Scarabaeoid	1.000	40.00

	beetles (Coleoptera: Scarabaeoidea) in Sarnena Sredna Gora Mountains. ZooNotes, Supplement 11, PLOVDIV UNIVERSITY PRESS "PAISII HILENDARSKI", 2022, ISSN:1313-9916, 10-45 **Международно академично издателство (Zoological Record)** Линк		
6	Ахметова Д. И., Ухова Н. Л., Алексанов В. В., Воробьева И. Г., Ананина Т. Л., **Теофилова Т. М.**, Суходольская Р.А.. Изменчивость размеров жужелицы Pterostichus oblongopunctatus Fabricius (Coleoptera, Carabidae) в географических градиентах. Биодиагностика состояния природных и природнотехногенных систем: Материалы XX Всероссийской научнопрактической конференции, Вятский государственный университет, 2022, ISBN:9785982282583, 3, 365-367 **Международно неакадемично издателство (eLIBRARY.ru)** Линк	1.000	14.29

Е 1.3 а: Научни публикации в издания, неиндексирани в WoS, Scopus, ERIH+ или други профилирани бази от данни, тематични сборници, вкл. сборници от международни и национални научни форуми (публикувани)

№	Публикация	А	Б
1	**Michailova, P.**, **Ilkova, J.**, White, K.. New genomic approach for assessing pollution of aquatic ecosystems (Review). Journal of Research in Environmental and Earth Sciences, 8, 2, Quest Journals, 2022, ISSN:2348–2532, 43-49 **Международно неакадемично издателство (Друга база (не влиза в К2))** Линк	1.000	66.67
2	**Naumova, M.**, Genchev, V.. First records of Eyprepocnemis plorans (Charpentier, 1825) in Bulgaria (Orthoptera: Acrididae). in: Mollov I., D. Georgiev, O. Todorov (Eds.) Faunistic diversity of the city of Plovdiv (Bulgaria), Vol. 2 - Vertebrates & Invertebrates, Supplement, 2, Bulletin of the Natural History Museum - Plovdiv, 2022, ISSN:2534-9635, 111-116 **Национално неакадемично издателство (Друга база (не влиза в К2))** Линк	1.000	50.00
3	**Naumova, M.**, Genchev, V.. Review of the spiders, pseudoscorpions and scorpions in the region of Plovdiv, S Bulgaria (Arachnida: Araneae, Pseudoscorpiones & Scorpiones). in: Mollov I., D. Georgiev, O. Todorov (Eds.) Faunistic diversity of the city of Plovdiv (Bulgaria), Vol. 2 - Vertebrates & Invertebrates, Supplement, 2, Bulletin of the Natural History Museum - Plovdiv, 2022, ISSN:2534-9635, 83-110 **Национално неакадемично издателство (Друга база (не влиза в К2))** Линк	1.000	50.00
4	**Sakalian, V.**, Georgiev, G. New data on the distribution of ground beetles (Coleoptera: Carabidae) in Kenya. Silva Balcanica, 23, 2, 2022, ISSN:1311-8706, DOI:10.3897/silvabalcanica.22.e97628, 43-46 **Международно академично издателство**	1.000	50.00
5	**Teofilova T. M.**. Ground beetles (Coleoptera: Carabidae) found in the city and surroundings of Plovdiv (Central Bulgaria). Bulletin of the Natural History Museum – Plovdiv, Supplement 2, Plovdiv University Press, 2022, ISSN:2534-9635, 65-81 **Национално неакадемично издателство (Друга база (не влиза в К2))** Линк	1.000	100.00
6	**Teofilova T.M.**, Akhmetova D. I., Sukhodolskaya R. A., Minyazova V. B.. Body size variation in ground beetle Poecilus cupreus (L.) (Coleoptera, Carabidae) in agrocenoses of Europe. Modern Challenges in Zoological Studies in Russia and Adjacent Territories: Materials of Russian Scientific Conference dedicated to the memory of Prof. Vadim V. Zolotuhin, Ulyanovsk State Pedagogical University, 2022, ISBN:978-5-905595-46-2, 5, 32-36 **Международно неакадемично издателство** Линк	1.000	25.00
7	Gojšina V., Páll-Gergely B., Vujić M., **Dedov, I.**. First record of the genus Xeropicta Monterosato, 1892 (Gastropoda: Eupulmonata: Geomitridae) in Serbia.. Folia Malacologica, 30, 1, The Association of Polish Malacologists, 2022, ISSN:1506-7629, DOI:https://doi.org/10.12657/folmal.030.008, 47-53 **Национално академично издателство**	1.000	25.00
8	Japoshvili, G., **Ljubomirov, T.**. Wasps of the families Ampulicidae, Bembicidae, Bethylidae, Chrysididae, Crabronidae, Evaniidae, Gasteruptiidae, Heloridae, Pemphredonidae, Pompilidae,	1.000	50.00

	Psenidae, Sphecidae and Vespidae (Hymenoptera) of Lagodekhi protected areas, from Georgia (Sakartvelo). Annals of Agrarian Science, 19, 4, Agricultural University of Georgia, 2022, ISSN:2667-9531, 269-287 **Международно неакадемично издателство** Линк		
9	Tzvetkov, P., **Dedov, I.**, Beshkov, S., Shurulinkov, P.. Environmental Dimensions. Urban Agriculture for Improving the Quality of Life. Examples from Bulgaria (Ed. Dona Pickard), 6, Springer, 2022, ISBN:978-3-030-94743-9 (eBook), DOI:https://doi.org/10.1007/978-3-030-94743-9, 197, 111-134 **Международно академично издателство** Линк	1.000	25.00
10	Vas, Z., **Ljubomirov, T.**. New species and new records of Campopleginae from Bulgaria (Hymenoptera: Ichneumonidae). Annales Musei historico-naturalis Hungarici, 114, 1, Hungary Natural History Museum, 2022, ISSN:2786-1368, DOI:https://doi.org/10.53019/AnnlsMusHistNatHung.2022.114.1, 1-8 **Международно академично издателство (Друга база (не влиза в К2))** Линк	1.000	50.00

Е 1.5 а: Научни монографии (първа част – книги) (публикувани) - 0

YY а: Публикации в депозитни бази и в други (публикувани) - 75

№	Публикация	А	Б
1	**Nikolov, B.**. Alpine Swift Tachymarptis melba. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
2	**Nikolov, B.**. Arctic Loon Gavia arctica. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
3	**Nikolov, B.**. Atlantic Puffin Fratercula arctica. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
4	**Nikolov, B.**. Black Guillemot Cepphus grylle. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
5	**Nikolov, B.**. Black-necked Grebe Podiceps nigricollis. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
6	**Nikolov, B.**. Black-winged Stilt Himantopus himantopus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
7	**Nikolov, B.**. Bohemian Waxwing Bombycilla garrulus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
8	**Nikolov, B.**. Brünnich's Guillemot Uria lomvia. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
9	**Nikolov, B.**. Caspian Tern Hydroprogne caspia. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
10	**Nikolov, B.**. Common Goldeneye Bucephala clangula. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas.	1.000	100.00

	https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк		
11	**Nikolov, B.**. Common Kingfisher Alcedo atthis. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
12	**Nikolov, B.**. Common Merganser Mergus merganser. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
13	**Nikolov, B.**. Common Quail Coturnix coturnix. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
14	**Nikolov, B.**. Common Sandpiper Actitis hypoleucos. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
15	**Nikolov, B.**. Common Shelduck Tadorna tadorna. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
16	**Nikolov, B.**. Curlew Sandpiper Calidris ferruginea. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
17	**Nikolov, B.**. Demoiselle Crane Anthropoides virgo. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
18	**Nikolov, B.**. Dunlin Calidris alpina. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
19	**Nikolov, B.**. Dunnock Prunella modularis. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
20	**Nikolov, B.**. Eleonora's Falcon Falco eleonorae. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
21	**Nikolov, B.**. Eurasian Hoopoe Upupa epops. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
22	**Nikolov, B.**. Eurasian Nuthatch Sitta europaea. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
23	**Nikolov, B.**. Eurasian Pygmy Owl Glaucidium passerinum. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
24	**Nikolov, B.**. Eurasian Scops Owl Otus scops. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
25	**Nikolov, B.**. Eurasian Stone-curlew Burhinus oedicnemus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00

26	**Nikolov, B.**. Eurasian Treecreeper Certhia familiaris. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
27	**Nikolov, B.**. Eurasian Wryneck Jynx torquilla. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
28	**Nikolov, B.**. European Bee-eater Merops apiaster. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
29	**Nikolov, B.**. Gadwall Mareca strepera. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
30	**Nikolov, B.**. Great Bustard Otis tarda. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
31	**Nikolov, B.**. Great Crested Grebe Podiceps cristatus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
32	**Nikolov, B.**. Great Grey Owl Strix nebulosa. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
33	**Nikolov, B.**. Great Grey Shrike Lanius excubitor. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
34	**Nikolov, B.**. Great Spotted Woodpecker Dendrocopos major. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
35	**Nikolov, B.**. Green Sandpiper Tringa ochropus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
36	**Nikolov, B.**. Guillemot Uria aalge. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
37	**Nikolov, B.**. Gull-billed Tern Gelochelidon nilotica. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
38	**Nikolov, B.**. Kentish Plover Charadrius alexandrinus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
39	**Nikolov, B.**. Lesser Kestrel Falco naumanni. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
40	**Nikolov, B.**. Little Auk Alle alle. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
41	**Nikolov, B.**. Little Grebe Tachybaptus ruficollis. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas.	1.000	100.00

	https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк		
42	**Nikolov, B.**. Little Owl Athene noctua. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
43	**Nikolov, B.**. Little Stint Calidris minuta. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
44	**Nikolov, B.**. Little Tern Sternula albifrons. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
45	**Nikolov, B.**. Long-eared Owl Asio otus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
46	**Nikolov, B.**. Long-tailed Tit Aegithalos caudatus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
47	**Nikolov, B.**. Northern Fulmar Fulmarus glacialis. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
48	**Nikolov, B.**. Northern Hawk-Owl Surnia ulula. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
49	**Nikolov, B.**. Northern Shoveler Spatula clypeata. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
50	**Nikolov, B.**. Purple Sandpiper Calidris maritima. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
51	**Nikolov, B.**. Pygmy Cormorant Microcarbo pygmaeus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
52	**Nikolov, B.**. Razorbill Alca torda. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
53	**Nikolov, B.**. Red-backed Shrike Lanius collurio. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
54	**Nikolov, B.**. Red-breasted Merganser Mergus serrator. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
55	**Nikolov, B.**. Red-crested Pochard Netta rufina. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
56	**Nikolov, B.**. Red-footed Falcon Falco vespertinus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00

57	**Nikolov, B.**. Roseate Tern Sterna dougallii. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
58	**Nikolov, B.**. Sandwich Tern Thalasseus sandvicensis. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
59	**Nikolov, B.**. Short-eared Owl Asio flammeus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
60	**Nikolov, B.**. Short-toed Treecreeper Certhia brachydactyla. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
61	**Nikolov, B.**. Slavonian Grebe Podiceps auritus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
62	**Nikolov, B.**. Smew Mergellus albellus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
63	**Nikolov, B.**. Snow Bunting Plectrophenax nivalis. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
64	**Nikolov, B.**. Spanish Sparrow Passer hispaniolensis. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
65	**Nikolov, B.**. Spotted Nutcracker Nucifraga caryocatactes. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
66	**Nikolov, B.**. Spotted Redshank Tringa erythropus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
67	**Nikolov, B.**. Tawny Owl Strix aluco. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
68	**Nikolov, B.**. Temminck's Stint Calidris temminckii. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
69	**Nikolov, B.**. Tengmalm's Owl Aegolius funereus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
70	**Nikolov, B.**. Western Barn Owl Tyto alba. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
71	**Nikolov, B.**. Western Capercaillie Tetrao urogallus. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
72	**Nikolov, B.**. Whiskered Tern Chlidonias hybrida. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas.	1.000	100.00

	https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк		
73	**Nikolov, B.**. White-tailed Eagle Haliaeetus albicilla. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
74	**Nikolov, B.**. Wood Sandpiper Tringa glareola. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00
75	**Nikolov, B.**. Woodchat Shrike Lanius senator. In: Spina, F., Baillie, S.R., Bairlein, F., Fiedler, W. and Thorup, K. (Eds). The Eurasian African Bird Migration Atlas. https://migrationatlas.org, EURING/CMS, 2022 **Друго** Линк	1.000	100.00

II. ОБЩ БРОЙ ПРИЕТИ ЗА ПЕЧАТ ПРЕЗ 2022 г. – 7 бр.

№	Публикация	А	Б	Q
1	**Borissov, S.B.**, Heller, K.-G., Çıplak, B., **Chobanov, D.P.**. Origin, evolution and systematics of the genus Poecilimon (Orthoptera: Tettigoniidae) – an outburst of diversification in the Aegean area. Systematic Entomology, Wiley-Blackwell Publishing Ltd, приета за печат: 2022, ISSN:1365-3113, DOI:DOI: 10.1111/syen.12580, SJR (Scopus):1.54, JCR-IF (Web of Science):4.841 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	50.00	**Q1**
2	**Takov, D.**, Velchev, D., **Toshova, T.**, **Pilarska, D**. Entomopathogens of three beetle species with agricultural importance (Tanymecus dilaticollis, Oulema melanopus and Diabrotica virgifera virgifera): a review. North-Western Journal of Zoology, (in press), приета за печат: 2022, ISSN:1584-9074, SJR (Scopus):0.23, JCR-IF (Web of Science):0.778 **Q4 (Web of Science)** Линк	1.000	75.00	**Q4**
3	Cielocha J., Martinez E., Jackson A., **Yoneva A.**. Characterization of spermatozoon ultrastructure in Tetragonocephalum sp. (Cestoda: Lecanicephalidea: Tetragonocephalidae) from the whipray, Urogymnus asperrimus 1 (Dasyatidae: Urogymninae). Journal of Parasitology, 108, 5, 500-510, приета за печат: 2022, ISSN:0022-3395, DOI:http://do.org/10.1645/22-42, SJR (Scopus):0.421, JCR-IF (Web of Science):1.343 **Q3 (Scopus)** Линк	1.000	25.00	**Q3**
4	Gojšina, V. Z., **Dedov, I. K.**. Three terrestrial gastropods (Mollusca: Gastropoda) new for the fauna of Bosnia & Herzegovina. Acta Zoologica Bulgarica. Acta Zoologica Bulgarica, приета за печат: 2022, ISSN:ISSN: 0324-0770 (print) | 2603-3798 (online), JCR-IF (Web of Science):0.362 **Q4 (Scopus)** Линк	1.000	50.00	**Q4**
5	Ivković, S., Dey, L.-S., Buzzetti, F.M., Puskás, G., Warchałowska-Śliwa, E., Horvat, L., **Chobanov, D.**, Hochkirch, A.. Strong intraspecific phylogenetic and karyotypic diversification in Isophya modestior (Orthoptera: Tettigoniidae: Phaneropterinae). Biological Journal of the Linnean Society, Oxford Academic, приета за печат: 2022, ISSN:1095-8312, SJR (Scopus):0.77, JCR-IF (Web of Science):2.277 **Q1, не оглавява ранглистата (Web of Science)** Линк	1.000	12.50	**Q1**
6	Mancheva Kapka, Danova Svetla, Vilhelmova-Ilieva Neli, Simeonova Lora, Dobreva Lili, **Atanasov Georgi**. Koi herpesvirus highlights and potential of probiotics to reduce or even to prevent Koi herpesvirus infection. Acta Microbiologica Bulgarica, Bulgarian Society for Microbiology (Union of Scientists in Bulgaria), приета за печат: 2022, ISSN:0204-8809, SJR (Scopus):0.12, JCR-IF (Web of Science):0.167 **Q4 (Scopus)** Линк	1.000	16.67	**Q4**
7	Mitev, T., **Dedov, I.**, Hristovski, S.. Content of Zn, Cu, Mn and Cd in soils, plants	1.000	33.33	**Q4**

	and Turkish snails (Helix lucorum L.) in Skopje (North Macedonia).. Acta Zoologica Bulgarica, Institute of Biodiversity and Ecosystem Research — Bulgarian Academy of Sciences, приета за печат: 2022, ISSN:ISSN: 0324-0770 (print) | 2603-3798 (online), SJR (Scopus):0.213 **Q4 (Scopus)** Линк			
8	Can, I., **Ljubomirov, T.**. New data for Mutillidae, Pompilidae, Scoliidae, Tiphiidae (Hymenoptera: Vespoidea) fauna of Türkiye.. Munis Entomology & Zoology, 18, 2, Gazi Üniversitesi Fen Fakültesi, 2023, ISSN:1306-3022, 526-535 **Международно неакадемично издателство (Zoological Record)** Линк	1.000	50.00	

ПРИЛОЖЕНИЕ 2

ЦИТИРАНИЯ (извадка от SONIX 11.01.2023 г.)

Съдържание:

2.1. Цитати в WoS или Scopus

Брой цитирани публикации: 501	Брой цитиращи източници: 1287	Коригиран брой: 1268.256

1986

1. **Georgiev, B**, **Biserkov, V**, Genov, T. In toto staining method for cestodes with iron acetocarmine. Helminthologia, 23, 1986, 279-281

Цитира се в:

1.	Ahuir-Baraja, A.E., 2022. First evidence of presence of plastic debris in digestive system of Mola mola (L.) from western Mediterranean Sea. Marine Pollution Bulletin, 175, p.113326., **@2022** Линк	**1.000**
2.	Benovics M., Reslová N., Škorpíková L. , Seidlová L. & Mikulka O. 2022. Helminth fauna of the Eurasian beaver in the Czech Republic with remarks on the genetic diversity of specialist Stichorchis subtriquetrus (Digenea: Cladorchiidae) . Parasitology Research 121, 633–644 . https://doi.org/10.1007/s00436-021-07379-2, **@2022** Линк	**1.000**
3.	Benovics, M., Mikulíček, P., Žákovicová, Z., Papežík, P. and Pantoja, C., 2022. Hidden in plain sight: novel molecular data reveal unexpected genetic diversity among paramphistome parasites (Digenea: Paramphistomoidea) of European water frogs. Parasitology, 149(11), pp.1425-1438., **@2022** Линк	**1.000**
4.	Kerroucha, R., Medjoual, I., Bourguig, L. and Senouci, K., 2022. Identification of the main intestinal helminths of local breed chickens (Gallus gallus domesticus Linnaeus, 1758) reared in traditional mode in the Oran region. Helminthologia, 59(2), 170-178., **@2022** Линк	**1.000**
5.	Kvach Y., Snigirov S., Leonchyk Y. & Zamorov V. 2022. The first data on parasite community of the black scorpionfish, Scorpaena porcus (Actinopterygii: Scorpaenidae), from the North-Western Black Sea. Journal of Applied Ichthyology . https://doi.org/10.1111/jai.14300, **@2022** Линк	**1.000**
6.	Kvach, Y., Kutsokon, Y., Janáč, M., Dykyy, I., Dzyziuk, N., Dudliv, I. and Nazaruk, K., 2022. Parasites of the invasive Chinese sleeper Perccottus glenii (Actinopterygii: Odontobutidae) in the region of the first introduction of the Carpathian population. Oceanological and Hydrobiological Studies, 51(1): 1-9., **@2022** Линк	**1.000**
7.	Marinova, M.H. and Vasileva, G.P., 2021. Morphology and Host Ranges of Three Cestode Species of Sobolevicanthus Spasskii & Spasskaya, 1954 (Cyclophyllidea: Hymenolepididae) from Ducks (Anatidae) in Bulgaria, with Comments on their Differential Characteristics. ACTA ZOOLOGICA BULGARICA, 73(3), pp.437-449., **@2022** Линк	**1.000**
8.	Ondračková M., Tkachenko M. Y., Bartáková V., Bryjová A., Janáč M.l, Zięba G., Pyrzanowski K., Kvach Y. 2022. Population genetic structure, parasite infection and somatic condition of pumpkinseed Lepomis gibbosus (Actinopterygii: Centrarchidae) in the Oder river basin. Journal of Fish Biology https://doi.org/10.1111/jfb.15273, **@2022** Линк	**1.000**
9.	Penadés-Suay, J., Jarque-Rico, A.E., Tomás, J. and Aznar, F.J., 2022. Determinants of diversity and composition of the tapeworm fauna of blue sharks, Prionace glauca: a geographical and host-specificity analysis. Journal of Helminthology, 96, p.e87., **@2022** Линк	**1.000**
10.	PENADÉS-SUAY, J., Regacho, T. and Aznar, F.J., 2022. Feeding on clean food? Potential effects of electric organ discharges by Torpedo spp.(Torpediniformes: Torpedinidae) on their trophically transmitted parasites. Integrative Zoology 17(2): 234-245., **@2022** Линк	**1.000**
11.	Pérez-del-Olmo A., Raga J. A., Kostadinova A. 2022. Parasite communities in a marine fish indicate ecological recovery from the impacts of the Prestige oil-spill 12–13 years after the disaster. Science of The Total Environment 847: 157354. https://doi.org/10.1016/j.scitotenv.2022.157354, **@2022** Линк	**1.000**
12.	Pravdová, M., Kolářová, J., Grabicová, K., Randák, T., Janáč, M., Kvach, Y., Jurajda, P. and Ondračková, M., 2022. Pharmaceutical contamination and biotic factors affecting parasitism in common carp (Cyprinus carpio). Aquaculture Research, 53(11): 4116-4127.	**1.000**

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2. Соколов, В., Шурхал, А., Данилкин, А., Подогас, А., Ракицкая, Т., **Марков, Г.**. Сравнительный анализ электрофоретических спектров белков крови и мышечной ткани европейской (Capreolus capreolus L.) и сибирской (C. pygargus Pall.) косуль. Доклады Академии Наук СССР, 288, 5, 1986, ISSN:0869-5652, 1274-1276. ISI IF:0.323

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3. **Michailova, P.**. "C" banding in the polytene chromosomes of a group "plumosus" and their experimental hybrids. Genetica (Hague), 74, 1987, ISSN:0016-6707, 41-51

Цитира се в:

14. Bolshakov, V.; Movergoz, E.; Stolbov, V. Karyotypes and COI Gene Sequences of Chironomus agilis2, Ch. balatonicus, and Camptochironomus tentans (Diptera, Chironomidae) from Kurchatskoe Lake, Tyumen Region, Russia. Diversity 2022, 14, 1044. https://doi.org/10.3390/d14121044, **@2022** Линк **1.000**

4. Данилкин, А., **Марков, Г.**. К таксономии косуль (Capreolus pygargus Pall.) Дальнего Востока, Восточной Сибири и Тянь-Шаня. Известия АН СССР, 2, 1987, ISSN:0002-3329, 315-318. ISI IF:0.182

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15. Deng, M.-X., B. Xiao, J.-X. Yuan, J.-M. Hu, K. Kim, M. Westbury, X.-L. Lai, G.-L. Sheng. Ancient Mitogenomes Suggest Stable Mitochondrial Clades of the Siberian RoeDeer. Genes 13(1) (2022): 114. (IF2020: 4.096, JCR: Q2, SJR: Q2) https://doi.org/10.3390/genes13010114, **@2022** Линк **1.000**

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5. **Michailova P**. The polytene chromosomes and their significance to the systematics of the family Chironomidae, Diptera. Acta Zoologica Fennica, 186, 1989, ISBN:951-9481-31-1, 107

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6. **Grozeva, S.**, Kuznetsova, V.. Karyotypes and some structural properties of the reproductive system of bugs of the subfamily Artheneinae (Heteroptera, Pentatomomorpha, Lygaeidae). Entomological Review, 69, 1990, ISSN:0013-8738 (print version) 1555-6689 (electronic version), 14-26

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18. Toscani, M.A., Pigozzi, M.I., Papeschi, A.G. and Bressa, M.J., 2022. Histone H3 methylation and autosomal vs. sex chromosome segregation during male meiosis in Heteroptera. Frontiers in Ecology and Evolution, p.172., **@2022** Линк **1.000**

7. Hansson, B. S., Toth, M., Lofstedt, C., Szocs, G., **Subchev, M.**, Lofqvist, J. Pheromone variation among eastern European and a western Asian population of the turnip moth Agrotis segetum. Journal of Chemical Ecology, 16, 5, Springer International Publishing AG, 1990, DOI:10.1007/BF01014094. pmid:24263831, 1611-1622. ISI IF:1.3

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19. Straub, F., Kuppler, J., Fellendorf, M., Teuscher, M., Vogt, J., Ayasse, M. Land-use stress alters **1.000**

cuticular chemical surface profile and morphology in the bumble bee Bombus lapidarius. PLoS ONE 17(5) (2022): e0268474. ISSN: 1932-6203(IF), **@2022** Линк

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8. **Peneva V**, Nedelchev S. On the morphology and distribution of Rotylenchus agnetis Szczygiel, 1968 (Nemata: Hoplolaimidae) in Bulgaria.. Fundamental and Applied Nematology, 15, 1, Brill, 1992, ISSN:11645571, 91-96 **(x)**

Цитира се в:

20. Skwiercz, Andrzej, Tatyana Stefanovska, Miloslav Zouhar, Valentina Pidlisnyuk, and Łukasz Flis. "First report of the Rotylenchus agnetis Szczygieł, 1968, Rotylenchus pumilus Perry, 1959 and Paratylenchus nanus Cobb, 1923 associated with Miscanthus x giganteus in Ukraine." Acta Scientiarum Polonorum Hortorum Cultus 21 (5): 153-161, 2022, **@2022** Линк **1.000**

9. **Todorov, M.**, **Golemansky, V**. Effect of pesticides Fundasol, Fuzamicin and Lavendotricin on the growth of laboratory cultures of Protozoa. Acta zoologica bulgarica, 45, 1992, ISSN:0324-0770, 20-25

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21. Freitas Y.G.C., Ramos B.R.O., Silva Y.G., Sampaio G.S., Nascimento L.S., Branco C.W.C., Miranda V.B.S. 2022. Testate amoebae: a review on their multiple uses as bioindicators. Acta Protozoologica, 61: 1–9. (https://doi.org/10.4467/16890027AP.22.001.15671) (ISSN: 0065-1583 (Print); 1689-0627 (Online)) (IF 2021 = 0.581) (SJR 2021 – 0.222) (Q3), **@2022** Линк **1.000**

22. Luu H.T.T., Esteban G.F., Butt A.A., Green I.D. 2022. Effects of Copper and the Insecticide Cypermethrin on a Soil Ciliate (Protozoa: Ciliophora) Community. Protist, 173, 125855. (https://doi.org/10.1016/j.protis.2021.125855) (ISSN: 1434-4610) (IF 2021 = 2, 656) (SJR 2021 – 0.767) (Q2), **@2022** Линк **1.000**

10. **Grozeva, S**, Kerzhner, IM. On the phylogeny of the Aradid subfamilies (Heteroptera, Aradidae). Acta zoologica hungarica, 38, 3-4, 1992, ISSN:0236-7130, 199-205. ISI IF:0.186

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23. Rakitov, R., 2022. The mouthparts of the Aradidae (Insecta: Hemiptera: Heteroptera). Arthropod Structure & Development, 71, p.101211., **@2022** Линк **1.000**

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Брой цитирани публикации: 55	Брой цитиращи източници: 77	Коригиран брой: 76.354

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