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New species, subspecies and genera described by the staff of the Hungarian Natural History Museum in 2022

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Abstract – In this paper an overview and a list are given of the new taxa described by the scientific staff members and volunteer researchers of the Hungarian Natural History Museum in 2022. The list contains 83 species-group and 18 genus-group names proposed by the authors. With one figure.

Key words – biodiversity, description, overview, new genera, new species, taxonomy

INTRODUCTION

Natural history museums of the world traditionally play the most important role in taxonomical research, given their large and historical collections serve as a base both for acquiring the taxonomical expertise and for continuously providing novel taxonomical results by researchers working on the collections.

Since 2019, annual overviews and lists of the taxa described as new to science by the researchers (both scientific staff members and volunteers) of the Hungarian Natural History Museum (HNHM) were published online as blog posts of the HNHM (Jókuthy 2020, Vas 2021, Vas & Szőke 2022*a*, 2023). These compilations are in Hungarian, with the purpose of communicating the scientific results of ongoing research activities in the HNHM to the society. From last year on an annual overview and a complete list of new taxa are also published in the present journal, with the purpose of traditional, long-term archiving of the taxonomical results of the researchers of the HNHM (Vas & Szőke 2022*b*).

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TAXONOMICAL AND GEOGRAPHICAL COVERAGE

In 2022, researchers of the HNHM described 82 species new to science, as well as one subspecies and 18 new genera. The majority of them is animal taxa: newly described vertebrates include three bat species (Mammalia) (Csorba & Furey 2022, Kusuminda *et al.* 2022, Saikia *et al.* 2022), and a subspecies of the Alpine newt (Amphibia) (Vörös 2022*c*), whereas invertebrates are represented by 52 species and 12 genera of insects (Insecta) (see the details and references in the next paragraph), one species and one genus of spiders (Arachnida) (Szabó *et al*. 2022*b*), four species of potworms (Annelida) (Dózsa-Farkas *et al*. 2022), eight species and one genus of gastropods (Mollusca) (Vicián & Kovács 2022), and seven species and one genus of brachiopods (Brachiopoda) (Dulai 2022, Vörös 2022*a*, *b*).

The newly described insect taxa consist of 22 species and two genera of wasps (Hymenoptera) (Szabó *et al*. 2022*a*, Vas 2022*a*, *b*, *c*, *d*, *e*, Vas & Ljubomirov 2022, Vas *et al*. 2022), 18 species and nine genera of butterflies and moths (Lepidoptera) (Bálint 2022*a*, *b*, Bálint *et al*. 2022*a*, *b*, Bartsch & Sáfián 2022, Benedek *et al*. 2022, Gielis *et al*. 2022, Sáfián 2022, Sáfián & Bartsch 2022, Sáfián & Collins 2022*a*, *b*, Sáfián *et al*. 2022), nine species and one genus of beetles (Coleoptera) (Makranczy 2022, Szabó *et al*. 2022*d*), two species of dustywings (Neuroptera) (Zhao *et al*. 2022), and one species of cockroaches (Blattodea) (Szabó *et al*. 2022*c*). Newly described plants are represented by a species of seed ferns (Pteridospermophyta) and a species of conifers (Pinophyta) (Barbacka *et al*. 2022). Four species and two genera of lichens (Lichenophyta) were also newly described (Kondratyuk *et al*. 2022*a*, *b*, *c*), as well as an ichnospecies and an ichnogenus (Fodor & Dávid 2022).

New species and subspecies were described from 25 countries of the world. Among these, four of them are European (Bulgaria, Hungary, Italy, Poland), nine of them are Asian (Afghanistan, Bhutan, Cambodia, China, India, Iran, South Korea, Sri Lanka, Turkmenistan), nine of them are African (Ghana, Guinea, Kenya, Liberia, Mozambique, Republic of the Congo, Republic of South Africa, Tanzania, Zambia), and three of them are American countries (Argentina, Chile, Peru) (Fig. 1). Numbers of newly described species per continents are also indicated in Fig. 1. For more details and for associations of the new taxa and their type localities see the list below.

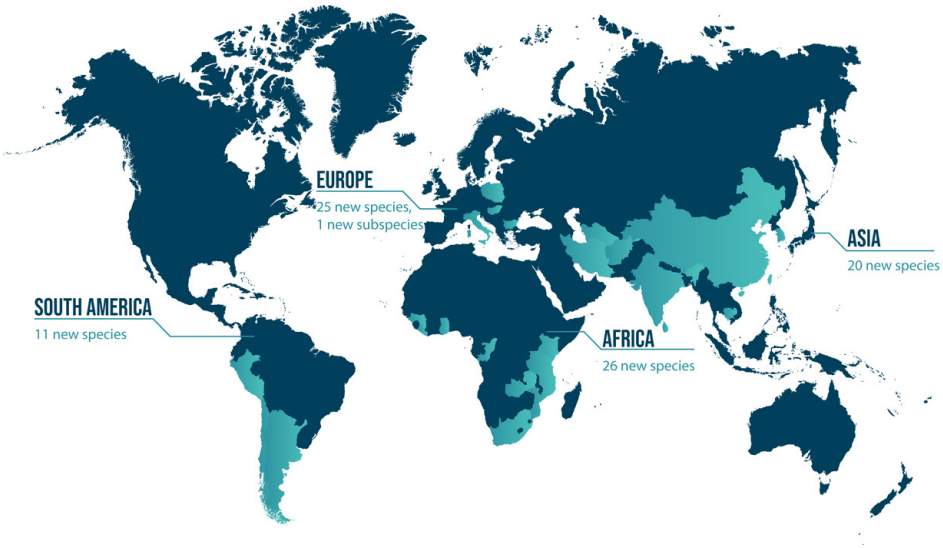

Figure 1. Collecting localities of the type material of new species and subspecies at county level (light blue), and their numbers per continents (compiled by Viktória Szőke)

LIST OF NEW TAXA

Collecting localities of the type material of new species and subspecies are indicated in square brackets at country level. Extinct taxa are marked with the † symbol (in this case, the geological era, period or epoch is also indicated in square brackets).

Phylum: Chordata
Class: Mammalia
Order: Chiroptera
Family: Miniopteridae

Miniopterus phillipsii Kusuminda, Mannakkara, Ukuwela, Kruskop, Amarasinghe, Saikia, Venugopal, Karunarathna, Gamage, Ruedi, Csorba, Yapa et Patterson, 2022 [Sri Lanka, India]

Family: Vespertilionidae

Glischropus meghalayanus Saikia, Ruedi et Csorba, 2022 [India]
Myotis hayesi Csorba et Furey, 2022 [Cambodia]

Class: Amphibia
Order: Caudata
Family: Salamandridae

Ichthyosaura alpestris bakonyiensis Vörös, 2022 [Hungary]

Phylum: Arthropoda
Class: Insecta
Order: Coleoptera
Family: Staphylinidae

Thinodromus franzi Makranczy, 2022 [Chile]
Thinodromus janinae Makranczy, 2022 [Chile]
Thinodromus kadari Makranczy, 2022 [Chile]
Thinodromus newtonorum Makranczy, 2022 [Chile]
Thinodromus saizi Makranczy, 2022 [Chile]
Thinodromus struyvei Makranczy, 2022 [Chile]
Thinodromus tegens Makranczy, 2022 [Chile]
Thinodromus toroi Makranczy, 2022 [Argentina]

Family: Elateridae

†*Ajkaelater* Szabó, Kundrata, Hoffmannova, Németh, Bodor, Szenti, Prosvirov, Kukovecz et Ősi, 2022 [Cretaceous]
†*Ajkaelater merkli* Szabó, Kundrata, Hoffmannova, Németh, Bodor, Szenti, Prosvirov, Kukovecz et Ősi, 2022 [Hungary, Cretaceous]

Order: Lepidoptera
Family: Lycaenidae

Airanna Bálint, 2022
Bozanonia Bálint, 2022
Iolaus brazza Sáfián et Collins, 2022 [Republic of the Congo]
Iolaus bundali Sáfián et Congdon, 2022 [Tanzania]
Iolaus collinsi Sáfián, Bayliss et Congdon, 2022 [Mozambique]
Iolaus freyaallanae Sáfián, 2022 [Zambia]
Iolaus gatamaiyu Sáfián et Collins, 2022 [Kenya]
Iolaus ivani Sáfián et Collins, 2022 [Zambia]
Iolaus njombe Sáfián, 2022 [Tanzania]
Iolaus uluguru Sáfián, 2022 [Tanzania]

Johntennentia Bálint, 2022
Pamiria wojtusiaki Bálint, 2022 [India]
Pamiria zhdankoi Bálint, 2022 [Afghanistan]
Penaincisalia jadwigae Bálint, Boyer et Pyrcz, 2022 [Peru]
Tennentia Bálint, 2022
Thecloxurina fortunatas Bálint, Boyer et Pyrcz, 2022 [Peru]

Family: Sesiidae

Chlorosphecia Bartsch et Sáfián, 2022
Chlorosphecia bele Bartsch et Sáfián, 2022 [Liberia, Ghana]
Nimbamina Sáfián et Bartsch, 2022
Nimbamina blei Sáfián et Bartsch, 2022 [Liberia]
Tipulamima hesperia Bartsch et Sáfián, 2022 [Guinea, Ghana]

Family: Noctuidae

Baimistra Benedek, Volynkin, Saldaitis et Tóth, 2022
Cranionycta keeskleini Gielis et Kiss, 2022 [Bhutan]
Cranionycta punakhae Gielis et Kiss, 2022 [Bhutan]
Marcinistra Benedek, Volynkin, Saldaitis et Tóth, 2022
Marcinistra leichina Benedek, Volynkin, Saldaitis et Tóth, 2022 [China]
Vargalorta Benedek, Volynkin, Saldaitis et Tóth, 2022

Order: Hymenoptera
Family: Ichneumonidae

Campoletis rubella Vas, 2022 [Iran]
Campoplex andariel Vas, 2022 [Republic of South Africa]
Cymodusa irata Vas, 2022 [Turkmenistan]
Cymodusopsis riedeli Vas, 2022 [Iran]
Diadegma bruxa Vas, 2022 [Republic of South Africa]
Diadegma ekimmara Vas, 2022 [Republic of South Africa]
Diadegma endrega Vas, 2022 [Kenya]
Diadegma katakan Vas, 2022 [Republic of South Africa]
Diadegma kikimora Vas, 2022 [Kenya]
Diadegma striga Vas, 2022 [Republic of South Africa]
Dicamptus johanssoni Vas, 2022 [Republic of the Congo]
Echthronomas kolarovi Vas, 2022 [Bulgaria]
Eriborus elgonensis Vas, 2022 [Kenya]

Eriborus rubens Vas, 2022 [Republic of South Africa]
Euryophion titanius Vas, 2022 [Republic of the Congo, Liberia]
Hyposoter ardens Vas, 2022 [Republic of South Africa]
Lemophagus eburnipes Vas, 2022 [Iran]
Melalophacharops persicus Vas, 2022 [Iran]
Xanthocampoplex melanocephalus Vas, 2022 [Republic of South Africa]

Family: Bethylidae

†*Ajkanesia* Szabó et Brazidec, 2022 [Cretaceous]
†*Ajkanesia harmincipsziloni* Szabó et Brazidec, 2022 [Hungary, Cretaceous]
†*Amissidigitus* Szabó et Brazidec, 2022 [Cretaceous]
†*Amissidigitus belae* Szabó et Brazidec, 2022 [Hungary, Cretaceous]

Family: †Spahiopterygidae

†*Spathiopteryx soosi* Szabó, Brazidec et Perrichot, 2022 [Hungary, Cretaceous]

Order: Neuroptera
Family: Coniopterygidae

Heteroconis orbicularis Zhao, Sziráki et Liu, 2022 [China]
Heteroconis yunnanensis Zhao, Sziráki et Liu, 2022 [China]

Order: Blattodea
Family: †Alienopteridae

†*Alienopterix santonicus* Szabó, Kóbor, Szabó et Ősi, 2022 [Hungary, Cretaceous]

Class: Arachnida
Order: Araneae
Family: Hersiliidae

†*Hungarosilia* Szabó, Hammel, Harms, Kotthoff, Bodor, Novák, Kovács et Ősi, 2022 [Cretaceous]

†*Hungarosilia verdesi* Szabó, Hammel, Harms, Kotthoff, Bodor, Novák, Kovács et Ősi, 2022 [Hungary, Cretaceous]

Phylum: Annelida
Class: Clitellata
Order: Enchytraeida
Family: Enchytraeidae

Decimodrilus bulbosus Dózsa-Farkas, Nagy, Felföldi et Hong, 2022 [South Korea]
Fridericia jeoksangsaniensis Dózsa-Farkas, Nagy, Felföldi et Hong, 2022 [South Korea]
Fridericia sphaericoides Dózsa-Farkas, Nagy, Felföldi et Hong, 2022 [South Korea]
Mesenchytraeus globiferus Dózsa-Farkas, Nagy, Felföldi et Hong, 2022 [South Korea]

Phylum: Mollusca
Class: Gastropoda
Order: Neotaenioglossa
Family: Cassidae

†*Cassis kalmani* Vicián et Kovács, 2022 [Hungary, Eocene]

Family: Cymatiidae

†*Cymatiella dulaii* Vicián et Kovács, 2022 [Hungary, Eocene]
†*Monoplex szakonyii* Vicián et Kovács, 2022 [Hungary, Eocene]
†*Parasassia vargai* Vicián et Kovács, 2022 [Hungary, Eocene]
†*Protoplex*? *zsoldosi* Vicián et Kovács, 2022 [Hungary, Eocene]
†*Pseudosassia* Vicián et Kovács, 2022 [Eocene]
†*Pseudosassia gurdoni* Vicián et Kovács, 2022 [Hungary, Eocene]
†*Pseudosassia traceyi* Vicián et Kovács, 2022 [Hungary, Eocene]

Family: Personidae

†*Personopsis merlei* Vicián et Kovács, 2022 [Hungary, Eocene]

Phylum: Brachiopoda
Class: Rhynchonellata
Order: Terebratulida
Family: †Arzonellinidae

†*Arzonellina bogicae* Vörös, 2022 [Hungary, Jurassic]

Family: Chlidonophoridae

†*Eucalathis davidi* Dulai, 2022 [Italy, Pliocene]
†*Eucalathis dorae* Dulai, 2022 [Italy, Pliocene]

Family: †Nucleatidae

†*Vjalovithyris*? *harskutica* Vörös, 2022 [Hungary, Cretaceous]

Family: †Pygopidae

†*Antinomia contracta* Vörös, 2022 [Hungary, Jurassic]
†*Antinomia picteti* Vörös, 2022 [Hungary, Cretaceous]
†*Dyscoliope* Vörös, 2022 [Jurassic, Cretaceous]
†*Dyscoliope guttula* Vörös, 2022 [Hungary, Cretaceous]

Phylum: Embryophyta
Class: Pinophyta
Order: Pinales

†*Aciphyllum triangulatum* Barbacka et Górecki, 2022 [Poland, Jurassic]

Class: Pteridospermophyta

†*Komlopteris distinctiva* Barbacka, 2022 [Poland, Jurassic]

Phylum: Lichenophyta
Class: Lecanoromycetes
Order: Baeomycetales
Family: Trapeliaceae

Farkasiella S. Y. Kondratyuk et L. Lőkös, 2022

Order: Teloschistales
Family: Teloschistaceae

Jackelixia hosseussii S. Y. Kondratyuk, L. Lőkös et J.-S. Hur, 2022 [Argentina]
Kudratoviella S. Y. Kondratyuk, L. Lőkös, I. Kärnefelt et A. Thell, 2022
Orientophila viticola S. Y. Kondratyuk, L. Lőkös et J.-S. Hur, 2022 [South Korea]
Ovealmbornia ovei S. Y. Kondratyuk, L. Lőkös, I. Kärnefelt et A. Thell, 2022 [Republic of South Africa]
Xanthokarrooa elsiae S. Y. Kondratyuk, L. Lőkös, I. Kärnefelt et A. Thell, 2022 [Republic of South Africa]

Ichnotaxa

†*Nodulichnus* Fodor et Dávid, 2022 [Miocene]
†*Nodulichnus hungaricus* Fodor et Dávid, 2022 [Hungary, Miocene]

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A 2022. év tudományra új fajai, alfaja és nemzetségei a Magyar Természettudományi Múzeumban

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Összefoglalás – Jelen munkában a szerzők a Magyar Természettudományi Múzeum tudományos munkatársai és önkéntes kutatói által 2022-ben tudományra újként leírt taxonokat tekintik át és összegzik. A listában 83 fajcsoport- és 18 nemzetségcsoport-nevet sorolnak fel. Egy ábrával.

Kulcsszavak – áttekintés, biodiverzitás, új fajok, új nemzetségek, taxonómia

ÁBRAMAGYARÁZAT

1. ábra. A tudományra új fajok és alfaj típusanyagának országszintű lelőhelyei (világoskék) és kontinensenként összegzett száma (a grafikát Szőke Viktória készítette)

* levelező szerző