

New species and genera described in the Hungarian Natural History Museum in 2021

ZOLTÁN VAS^{1*} & VIKTÓRIA SZÓKE²

¹ *Hungarian Natural History Museum, Department of Zoology, Hymenoptera Collection,
H-1088 Budapest, Baross u. 13, Hungary. E-mail: vas.zoltan@nhmus.hu;
<https://orcid.org/0000-0002-1361-180X>*

² *Hungarian Natural History Museum, Department of Zoology, Collection of Smaller Insect Orders,
H-1088 Budapest, Baross u. 13, Hungary. E-mail: szoke.viktoria@nhmus.hu*

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 2021. The list contains 69 species-group and eight genus-group names proposed by the authors. With one figure.

Key words – biodiversity, description, list, 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 2021a, VAS & SZÓKE 2022). These compilations are in Hungarian, with the purpose of communicating the scientific results of ongoing research activities in the HNHM to the society. From this year on, by editorial decision, a more concised version of the 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.

* corresponding author

TAXONOMICAL, CHRONOLOGICAL AND GEOGRAPHICAL COVERAGE

In 2021, researchers of the HNHM described 69 species new to science, as well as eight new genera. One of the new species is a fossilised flowering plant (Magnoliophyta) from the Miocene (ERDEI & HABLY 2021), while the other newly described species are all animals. Vertebrates are represented by a new rain frog species (Amphibia) (SZÉKELY *et al.* 2021), invertebrates by 58 new species of insects (Insecta) and by nine new species of gastropods (Mollusca). The new insect species consists of 27 species of rove beetles (Coleoptera) (MAKRANCZY 2021*a, b*), 16 species of butterflies (Lepidoptera) (BÁLINT *et al.* 2021, FARFÁN *et al.* 2021, SÁFIÁN 2021*a, b*, TÓTH 2021*a, b*), 13 species of ichneumon wasps (Hymenoptera) (VAS 2021*b, c, d, e*, VAS & DI GIOVANNI 2021), one species of dustywings (Neuroptera) (SZIRÁKI 2021), and one species of dragonflies (Odonata) (KOVÁCS *et al.* 2021).

All described insects are recent, as well as three gastropod species (VARGA 2021, ZALLOT *et al.* 2021), while six of the new gastropod species are extinct species from the Jurassic period (SZABÓ & JAILTY 2021). The above-mentioned flowering plant from the Miocene and one of the Jurassic gastropods were placed in newly described genera (i.e., these fossils represented new taxa both at genus- and species-level) (ERDEI & HABLY 2021, SZABÓ & JAILTY 2021). Furthermore, six new genera of recent lichens (Lichenophyta) were established in a revisionary study (KONDRATYUK *et al.* 2021).

New species were described from 28 countries of the world. Among these, two of them are European (Hungary, Italy), ten of them are Asian (Cambodia, China, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, Philippines, Vietnam), nine of them are African (Burundi, Cameroon, Democratic Republic of the Congo, Kenya, Liberia, Madagascar, Republic of South Africa, Tanzania, Uganda), and seven of them are American countries or territorial collectivities (Belize, Brazil, Ecuador, French Guiana, Paraguay, Peru, United States of America) (Fig. 1). Numbers of newly described species per continents are indicated in Fig. 1. For more details and for associations of the new taxa and their type localities see the list below.

LIST OF NEW TAXA

Countries of type localities of new species are indicated in square brackets. Extinct species and genera are marked with the † symbol (in this case, the geological period or epoch is also indicated in square brackets).

Phylum: Chordata
Class: Amphibia
ORDER: ANURA
Family: Strabomantidae

Pristimantis lojanus Székely, Székely, Ordoñez-Delgado, Armijos-Ojeda et Vörös, 2021 [Ecuador]

Phylum: Arthropoda
Class: Insecta
ORDER: COLEOPTERA
Family: Staphylinidae

Anotylus analepticus Makranczy, 2021 [Malaysia]
Anotylus bolmorum Makranczy, 2021 [Philippines]
Anotylus crepidatus Makranczy, 2021 [Malaysia]
Anotylus cyzicus Makranczy, 2021 [Malaysia]
Anotylus deductus Makranczy, 2021 [Malaysia]
Anotylus erratus Makranczy, 2021 [Indonesia]
Anotylus fusoides Makranczy, 2021 [Malaysia]
Anotylus gagatinus Makranczy, 2021 [Indonesia]
Anotylus hauriens Makranczy, 2021 [Malaysia]
Anotylus intuitus Makranczy, 2021 [Indonesia]
Anotylus jaechi Makranczy, 2021 [Indonesia]
Anotylus kurbatovi Makranczy, 2021 [Myanmar]
Anotylus lagreanus Makranczy, 2021 [Laos]
Anotylus laobianus Makranczy, 2021 [China]
Anotylus loricatus Makranczy, 2021 [Malaysia]
Anotylus nepalensis Makranczy, 2021 [Nepal]
Anotylus pingbianus Makranczy, 2021 [China]
Anotylus shavrini Makranczy, 2021 [Philippines]
Anotylus tangotadosi Makranczy, 2021 [Indonesia]
Anotylus ustulosus Makranczy, 2021 [Indonesia]
Anotylus velatus Makranczy, 2021 [Malaysia]
Thinodromus carltoni Makranczy, 2021 [Belize]
Thinodromus dryophilus Makranczy, 2021 [USA]
Thinodromus fractus Makranczy, 2021 [Brazil]
Thinodromus minusculus Makranczy, 2021 [Paraguay]
Thinodromus rubiginosus Makranczy, 2021 [USA]
Thinodromus vernicatus Makranczy, 2021 [French Guiana]

ORDER: LEPIDOPTERA

Family: Erebidae

- Naarda merkli* Tóth, 2021 [Indonesia]
Naarda scutigera Tóth, 2021 [Nepal, Cambodia, Vietnam]
Naarda vojnitsi Tóth, 2021 [Vietnam]

Family: Lycaenidae

- Iridana languyi* Sáfián, 2021 [Liberia]
Johnsonita carpia Bálint, Boyer et Pýrcz, 2021 [Ecuador]
Johnsonita iacinta Bálint, Boyer et Pýrcz, 2021 [Peru]
Johnsonita ianusca Bálint, Lorenc-Brudecka et Pýrcz, 2021 [Ecuador]
Johnsonita oxalida Bálint, Boyer et Pýrcz, 2021 [Peru]
Johnsonita subcunicula Bálint, Cerdana et Pýrcz, 2021 [Peru]
Johnsonita turquisca Bálint, Boyer et Pýrcz, 2021 [Ecuador]
Johnsonita zubkova Bálint, Boyer et Lorenc-Brudecka, 2021 [Peru]
Liptena chrislowei Sáfián, 2021 [Cameroon]
Liptena introspectionem Sáfián, 2021 [Uganda, Democratic Republic of the Congo]
Liptena minimis Sáfián, 2021 [Cameroon]
Liptena neiltennanti Sáfián, 2021 [Liberia]
Podanotum pajaten Farfan, Cerdana et Bálint, 2021 [Peru]

ORDER: HYMENOPTERA

Family: Ichneumonidae

- Campoletis clepsydra* Vas, 2021 [Kenya]
Campoletis kangalogba Vas, 2021 [Kenya]
Campoplex baal Vas, 2021 [Republic of South Africa]
Campoplex diablo Vas, 2021 [Republic of South Africa]
Campoplex mephisto Vas, 2021 [Republic of South Africa]
Casitaria brachycera Vas, 2021 [Republic of South Africa]
Casitaria caliginea Vas, 2021 [Burundi]
Casitaria corvina Vas, 2021 [Burundi]
Cymodusa capensis Vas, 2021 [Republic of South Africa]
Dusona nigrescens Vas, 2021 [Uganda]
Dusona solinervosa Vas, 2021 [Uganda]
Hyposoter nanodraco Vas, 2021 [Republic of South Africa]
Klutiana brevigentalis Vas, 2021 [Tanzania]

ORDER: NEUROPTERA
Family: Coniopterygidae

Hemisemidalis pennyi Sziráki, 2021 [Madagascar]

ORDER: ODONATA
Family: Argiolestidae

Argiolestes varga Kovács et Theischinger, 2021 [Indonesia]

Phylum: Mollusca
Class: Gastropoda
ORDER: CAENOGASTROPODA
Family: Cochlostomatidae

Cochlostoma stelucarum Zallot, De Mattia, Fehér et Gittenberger, 2021 [Italy]

ORDER: LITTORINIMORPHA
Family: Hydrobiidae

Alzoniella katagabriellae Varga, 2021 [Hungary]

Family: Moitessieriidae

Paladilhiopsis pallgergelyi Varga, 2021 [Hungary]

ORDER: VETIGASTROPODA
Family: Ataphridae

†*Solariconulus kachchhensis* Szabó et Jaitly, 2021 [India, Jurassic]

Family: Metriomphalidae

†*Planiturbo lerensis* Szabó et Jaitly, 2021 [India, Jurassic]

Family: Paraturbinidae

†*Chartronella belaensis* Szabó et Jaitly, 2021 [India, Jurassic]

Family: Pleurotomariidae

†*Jumaramaria* Szabó et Jaitly, 2021 [Jurassic]

†*Jumaramaria jumaraensis* Szabó et Jaitly, 2021 [India, Jurassic]

ORDER: "HETEROBRANCHIA"

Family: Aplustridae

†*Sulcoactaeon? haboensis* Szabó et Jaitly, 2021 [India, Jurassic]

ORDER: "CERITHIIFORME"

Family: Cryptaulacidae

†*Exelissa indiana* Szabó et Jaitly, 2021 [India, Jurassic]

Phylum: Tracheophyta

Class: Angiospermae

ORDER: ?ERICALES

Family: ?Theaceae

†*Mecsekispermum* Hably et Erdei, 2021 [Miocene]

†*Mecsekispermum gordonioides* Hably et Erdei, 2021 [Hungary, Miocene]

Phylum: Lichenophyta

Class: Lecanoromycetes

ORDER: CALICIALES

Family: Physciaceae

Helmutiopsis Kondratyuk, Lőkös et Hur, 2021

Huriopsis Kondratyuk et Lőkös, 2021

Klauskalbia Kondratyuk, Lőkös, Farkas et Hur, 2021

Kudratovia Kondratyuk, Lőkös et Hur, 2021

Kurokawia Kondratyuk, Lőkös et Hur, 2021

Poeltonia Kondratyuk, Lőkös et Hur, 2021

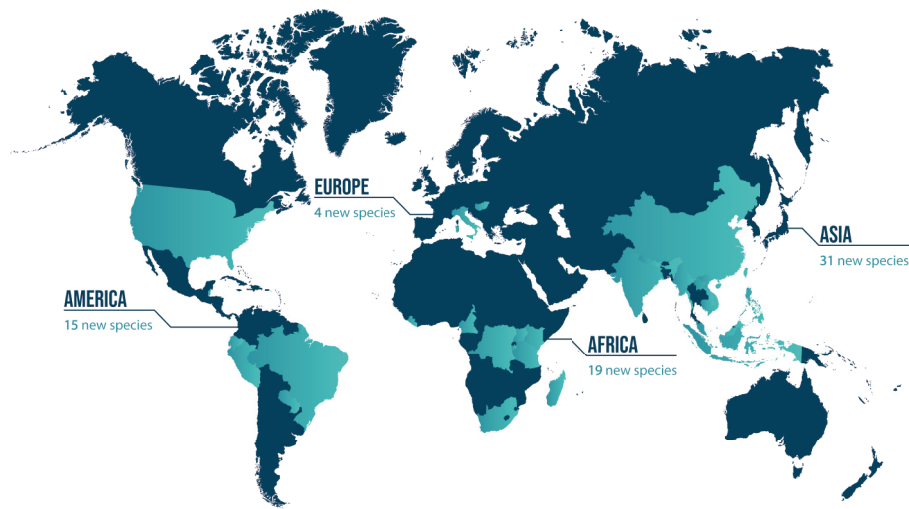


Figure 1. Countries of type localities of new species (light blue), and numbers of new species per continents (compiled by Viktória Szőke)

*

Acknowledgements – We are grateful to the scientific staff members and volunteer researchers of the HNHM who helped us compiling all the necessary information, namely: Zsolt Bálint, Boglárka Erdei, Zoltán Fehér, Lilla Hably, Tibor Kovács, László Lőkös, György Makranczy, Szabolcs Sáfián, János Szabó, György Sziráki, Balázs Tóth, András Varga, Judit Vörös. This paper was supported by the János Bolyai Research Scholarship of the Hungarian Academy of Sciences.

REFERENCES

- BÁLINT ZS., BOYER P., CERDEÑA J., FARFÁN LARICO J., LORENC-BRUDECKA J., PRIETO C. & PYRCZ T. W. 2021: Contributions to the knowledge of Neotropical Lycaenidae: taxonomy of *Johnsonita* Salazar & Constantino, 1995 with descriptions of seven new species (Theclinae: Eumaeini). – *Zootaxa* **4963**(1): 11–57.
<https://doi.org/10.11646/zootaxa.4963.1.2>
- ERDEI B. & HABLY L. 2021: Fossil *Gordonia* (sl)-like (Theaceae) winged seeds from the early Miocene of the Mecsek Mts, W Hungary. – *Palaeobiodiversity and Palaeoenvironments* **101**(1): 59–67.
<https://doi.org/10.1007/s12549-020-00461-0>

- FARFÁN J., CERDEÑA J., LAZO-RIVERA A., HUANCA-MAMANI W. & BÁLINT Zs. 2021: A new species of Podanotum Torres & Johnson, 1996 (Lepidoptera, Lycaenidae) from northern Peru. – *Revista Peruana de Biología* **28**(4): 1–6.
<https://doi.org/10.15381/rpb.v28i4.20968>
- JÓKUTHY E. 2020: A Peppa malac alakú ivarszervtől Szörnyella bundájáig – 84 új fajt fedeztek fel a múzeum kutatói 2019-ben. [84 new species were described by the researchers of the Hungarian Natural History Museum in 2019.] – *A Magyar Természettudományi Múzeum blogja*. https://mttmuseum.blog.hu/2020/03/18/84_uj_fajt_fedeztek_fel_a_muzeum_kutato_i_2019-ben (accessed 27 October 2022)
- KONDRATYUK S. Y., LÖKÖS L., KÄRNEFELT I., THELL A., JEONG M.-H., OH S.-O., KONDRATIUK A. S., FARKAS E. & HURJ.-S. 2021: Contributions to molecular phylogeny of lichen-forming fungi 2. Review of current monophyletic branches of the family Physciaceae. – *Acta Botanica Hungarica* **63**(3–4): 351–390.
<https://doi.org/10.1556/034.63.2021.3-4.8>
- KOVÁCS T., THEISCHINGER G., HORVÁTH R. & JUHÁSZ P. 2021: Odonata from Batanta (Indonesia, West Papua) with description of one new species. – *Opuscula Zoologica Instituti Zoosystematici et Oecologici Universitatis Budapestinensis* **52**(2): 119–139.
<https://doi.org/10.18348/opzool.2021.2.119>
- MAKRANCZY GY. 2021a: Review of the Anotylus exasperatus species group 1. – The species without external sexual dimorphism (Insecta: Coleoptera: Staphylinidae: Oxytelinae). – *Annalen des Naturhistorischen Museums in Wien, B* **123**: 13–98.
- MAKRANCZY GY. 2021b: New species in the Thinodromus ferrugineus species group (Coleoptera: Staphylinidae: Oxytelinae). – *Koleopterologische Rundschau* **91**: 85–101.
- SÁFIÁN SZ. 2021a: Iridana languyi sp. nov., a new Liptenine lycaenid species from Liberia (Lepidoptera, Lycaenidae, Poritiinae, Liptenini). – *Annales Musei historico-naturalis hungarici* **113**: 83–92.
<https://doi.org/10.53019/AnnlsMusHistNatHung.2021.113.83>
- SÁFIÁN SZ. 2021b: Taxonomical notes on the Liptena augusta and L. batesana species complexes with description of four new species (Lepidoptera, Lycaenidae, Poritiinae). – *Annales Musei historico-naturalis hungarici* **112**: 105–124.
<https://doi.org/10.53019/AnnlsMusHistNatHung.2020.112.105>
- SZABÓ J. & JAILTY A. K. 2021: New taxa of Middle Jurassic gastropods from Kachchh (western India) in the collections of the Banaras Hindu University (Varanasi, India). – *Annales Musei historico-naturalis hungarici* **112**: 19–35.
<https://doi.org/10.53019/AnnlsMusHistNatHung.2020.112.19>
- SZÉKELY P., SZÉKELY D., ORDÓÑEZ-DELGADO L., ARMIJOS-OJEDA D. & VÖRÖS J. 2021: Our unknown neighbor: a new species of rain frog of the genus Pristimantis (Amphibia: Anura: Strabomantidae) from the city of Loja, southern Ecuador. – *PLoS One* **16**(10): e0258454.
<https://doi.org/10.1371/journal.pone.0258454>
- SZIRÁKI GY. 2021: A new Hemisemidalis species from Madagascar (Neuroptera: Coniopterygidae). – *Folia entomologica hungarica* **82**: 69–73.
<https://doi.org/10.17112/FoliaEntHung.2021.82.69>

- TÓTH B. 2021a: A new species of Naarda Walker, 1866 from the northern Oriental region (Lepidoptera: Erebidae, Hypeninae). – *Annales Musei historico-naturalis hungarici* **113**: 39–49.
<https://doi.org/10.53019/AnnlsMusHistNatHung.2021.113.51>
- TÓTH B. 2021b: Two new species of Naarda Walker, 1866 from Southeast Asia (Lepidoptera: Erebidae, Hypeninae). – *Folia entomologica hungarica* **82**: 59–67.
<https://doi.org/10.17112/FoliaEntHung.2021.82.59>
- VARGA A. 2021: Two new stygobiont freshwater snail species from Hungary (Mollusca: Gastropoda: Truncatelloidea). – *Annales Musei historico-naturalis hungarici* **112**: 91–104.
<https://doi.org/10.53019/AnnlsMusHistNatHung.2020.112.91>
- VAS Z. 2021a: Biodiverzitás-kutatás a Covid idején – 2020 tudományra új fajai, alfajai és nemzetségei a Magyar Természettudományi Múzeumban. [New species, subspecies and genera described in the Hungarian Natural History Museum in 2020.] – *A Magyar Természettudományi Múzeum blogja*. <https://mttmuzeum.blog.hu/2021/03/09/2020-tudomanyra-uj-fajai-alfajai-es-nemzetsegei-a-magyar-termeszettudomanyi-muzeumban> (accessed 27 October 2022)
- VAS Z. 2021b: First record of Cymodusa Holmgren from the Afrotropical region with the description of a new species (Hymenoptera: Ichneumonidae: Campopleginae). – *Zootaxa* **5067**(3): 447–450.
<https://doi.org/10.11646/zootaxa.5067.3.8>
- VAS Z. 2021c: Klutiana brevigenalis sp. n., a new species of Nesomesochorinae from the Afrotropical region (Hymenoptera: Ichneumonidae). – *Annales Musei historico-naturalis hungarici* **112**: 85–90.
<https://doi.org/10.53019/AnnlsMusHistNatHung.2020.112.85>
- VAS Z. 2021d: New species and records of Afrotropical Campoletis Förster, 1869 (Hymenoptera: Ichneumonidae: Campopleginae). – *Annales Musei historico-naturalis hungarici* **113**: 39–49.
<https://doi.org/10.53019/AnnlsMusHistNatHung.2021.113.39>
- VAS Z. 2021e: New species and records of Afrotropical Campopleginae III. (Hymenoptera: Ichneumonidae). – *Folia entomologica hungarica* **82**: 23–42.
<https://doi.org/10.17112/FoliaEntHung.2021.82.23>
- VAS Z. & DI GIOVANNI F. 2021: New species and records of Afrotropical Campopleginae II. (Hymenoptera: Ichneumonidae). – *Folia entomologica hungarica* **82**: 7–22.
<https://doi.org/10.17112/FoliaEntHung.2021.82.7>
- VAS Z. & SZŐKE V. 2022: 2021 tudományra új fajai és nemzetségei a Magyar Természettudományi Múzeumban. [New species and genera described in the Hungarian Natural History Museum in 2021.] – *A Magyar Természettudományi Múzeum blogja*. https://mttmuzeum.blog.hu/2022/03/24/2021_tudomanyra_uj_fajai_es_nemzetsegei_a_magyar_termeszettudomanyi_muzeumban (accessed 27 October 2022)
- ZALLOT E., DE MATTIA W., FEHÉR Z. & GITTENBERGER E. 2021: Cochlostoma revised: the subgenus Clessiniella Zallot et al., 2015 (Caenogastropoda, Cochlostomatidae). – *European Journal of Taxonomy* **762**: 49–95.
<https://doi.org/10.5852/ejt.2021.762.1453>

...●...

A 2021. év tudományra új fajai és nemzetségei a Magyar Természettudományi Múzeumban

VAS ZOLTÁN^{1*} & SZŐKE VIKTÓRIA²

¹ Magyar Természettudományi Múzeum, Állattár, Hártyásszárnyúak gyűjteménye,
H-1088 Budapest, Baross u. 13, Magyarország. E-mail: vas.zoltan@nhmus.hu;
<https://orcid.org/0000-0002-1361-180X>

² Magyar Természettudományi Múzeum, Állattár, Kisebb rovarrendek gyűjteménye,
H-1088 Budapest, Baross u. 13, Magyarország. E-mail: szoke.viktoria@nhmus.hu

Összefoglalás – Jelen munkában a szerzők a Magyar Természettudományi Múzeum tudományos munkatársai és önkéntes kutatói által 2021-ben tudományra újként leírt taxonokat tekintik át és összegezik. A listában 69 fajcsoport- és nyolc nemzetségcsoport-nevet sorolnak fel.

Kulcsszavak – áttekintés, biodiverzitás, lista, új fajok, új genuszok, taxonómia

ÁBRAMAGYARÁZAT

1. ábra. A tudományra új fajok lelőhelyeinek országai (világoskék) és kontinensenként összegzett száma (a grafikát Szőke Viktória készítette)

* levelező szerző