



Global diversity of earthworms and enchytraeids (Clitellata): papers in honor of András Zicsi (1928–2015)

RÜDIGER M. SCHMELZ (ED.)

- 11 **Annotated checklist of earthworm species described by András Zicsi (Clitellata: Megadrili)**
CSABA CSUZDI, TÍMEA SZEDERJESI, EMMA SHERLOCK
- 43 **DNA barcoding of the Italian anecic *Octodrilus* species in rural (vineyard) and forested areas with description of *Octodrilus zicsiniello* sp. nov. (Clitellata, Megadrili)**
CSABA CSUZDI, TÍMEA SZEDERJESI, DANIEL FERNÁNDEZ MARCHÁN, IRENE DE SOSA, FEDERICO GAVINELLI, LUCA DORIGO, ALBERTO PAMIO, ANGELO LEANDRO DREON, SILVIA FUSARO, ENZO MORETTO & MAURIZIO GUIDO PAOLETTI
- 65 **Insights into the diversity of Hormogastridae (Annelida, Oligochaeta) with descriptions of six new species**
DANIEL F. MARCHÁN, ROSA FERNÁNDEZ, NURIA SÁNCHEZ, IRENE DE SOSA, DARÍO J. DÍAZ COSÍN & MARTA NOVO
- 96 **Interrelation of *Proctodrilus* species (Oligochaeta: Lumbricidae) with leaching and layering in European soil profiles**
NORBERT HÖSER
- 111 **Morphological and molecular distinction of two *Fridericia* species (Clitellata, Enchytraeidae) having same spermatheca type**
HAJNALKA NAGY, TAMÁS FELFÖLDI & KLÁRA DÓZSA-FARKAS
- 124 **Checklist of earthworms (Oligochaeta: Lumbricidae) from Serbia: a review**
MIRJANA STOJANOVIĆ, JOVANA SEKULIĆ & TANJA TRAKIĆ
- 156 **Solving a nomenclatural conundrum: *Cernosvitovia crainensis* (Mršić, 1989) and *Aporrectodea macvensis* Šapkarev in Mršić, 1991 (Lumbricidae)**
DAVID NICOLSON & CSABA CSUZDI
- 160 **Contribution to the knowledge of the earthworm fauna of Turkey with description of three new species (Clitellata: Megadrili)**
TÍMEA SZEDERJESI, LÁSZLÓ DÁNYI, MEHMET BORA KAYDAN & CSABA CSUZDI
- 173 **New earthworm records (Clitellata: Lumbricidae) from Bulgaria since 2012**
HRISTO VALCHOVSKI, METE MISIRLIOĞLU² & MIRJANA STOJANOVIĆ
- 175 **Green light to an integrative view of *Microscoclex phosphoreus* (Dugès, 1837) (Annelida: Clitellata: Acanthodrilidae)**
EMILIA ROTA, SVANTE MARTINSSON, CHRISTER ERSÉUS, VALENTIN N. PETUSHKOV, NATALJA S. RODIONOVA & PIETRO OMODEO
- 190 **Resurrection of the earthworm species *Dendrobaena fedtschenkoi* (Michaelsen, 1900), a former synonym of *Dendrobaena hyblica* (Rosa, 1893) (Clitellata: Megadrili)**
TÍMEA SZEDERJESI, ROBABEH LATIF, ORSOLYA MÁRTON & CSABA CSUZDI
- 197 **Distribution of non-lumbricid earthworms (Clitellata: Acanthodrilidae, Criodrilidae, Megascolecidae and Onerodrilidae) on the Balkans and Anatolia with first record of *Amyntas morrissi* (Beddard, 1892) from Turkey**
İBRAHİM METE MISIRLIOĞLU & MIRJANA STOJANOVIĆ

- 206 **Comparative studies on reproductive traits of natural populations of *Eisenia andrei* Bouché, 1972 from Zagros Mountain, Iran (Annelida: Oligochaeta)**
ROBABEH LATIF, MASOUMEH MALEK, ATABAK ROOHI AMINJAN, NASIM NADIMOGHADAM, OMID MIRSHAMSI, HASSAN MIRMONSEF, ELHAM HOSSEINI
- 214 **The first proandric species of *Tritogenia* Kinberg, 1867 from Botswana, *Tritogenia talana* sp.n. (Clitellata, Crassielitellata, Tritogeniidae)**
THEMBEKA CLARA NXELE, JADWIGA DANUTA PLISKO & BOIPELO K. RAMONGALO
- 218 **Morphological and molecular evidence reveal a new species of the earthworm genus *Pontodrilus* Perrier, 1874 (Clitellata, Megascolecidae) from Thailand and Peninsular Malaysia**
TEERAPONG SEESAMUT, CHIRASAK SUTCHARIT, PARIN JIRAPATRASILP, RATMANEE CHANABUN & SOMSAK PANHA
- 238 **Nine new species of the "*aeruginosus*"-group in *Amyntas* (Clitellata: Megascolecidae) from Nam Et-Phouley National protected Area, Laos**
YONG HONG, KHAMLA INKHAVILAY & SAMUEL W. JAMES
- 251 **First record of the earthworm genus *Pheretima* Kinberg, 1867 sensu stricto in Vietnam, with description of a new species (Annelida: Clitellata: Megascolecidae)**
TUNG T. NGUYEN, NAM Q. NGUYEN & ANH D. NGUYEN
- 259 **Two new species of earthworms belonging to the genus *Amyntas* (Oligochaeta: Megascolecidae) from Guangxi Province, China**
YAN DONG, ZHU YUAN, JIBAO JIANG, QI ZHAO, JIANGPING QIU
- 269 **Three new earthworm species of the *tokioensis*-group in the genus *Amyntas* (Oligochaeta: Megascolecidae) from Guangxi Province, China**
JI-BAO JIANG, YAN DONG, ZHU YUAN & JIANG-PING QIU
- 279 **New earthworm species of the genus *Amyntas* from Hainan Island, China (Megascolecidae, Clitellata)**
QI ZHAO, XUANZHU YAO, YAQIONG LAN, JUNXIAN XU & JIANGPING QIU
- 287 **Four new *Amyntas* and *Metaphire* earthworm species from nine provinces in southern China**
JING SUN, JI-BAO JIANG, SCOTT BARTLAM, JIANG-PING QIU & FENG HU
- 302 **Two new earthworm species of the genus *Drawida* (Oligochaeta: Moniligastridae) from southwestern Taiwan**
HUEI-PING SHEN, CHIH-HAN CHANG & WEN-JAY CHIH
- 313 **Biogeography meets taxonomy: Distribution-based inferences on the accuracy of identification and synonymization of East Asian earthworms**
HUEI-PING SHEN
- 337 **New enchytraeid species from Mount Hallasan (Jeju Island, Korea) (Enchytraeidae, Oligochaeta)**
KLÁRA DÓZSA-FARKAS, TAMÁS FELFÖLDI, HAJNALKA NAGY & YONG HONG
- 382 **Two new *Mesenchytraeus* species (Annelida: Clitellata: Enchytraeidae) from Changbai Mountain, China**
JUNQIAN ZHANG, YAJING LU & ZHICAI XIE
- 395 **Preliminary taxonomical investigation of soil enchytraeids (Clitellata, Enchytraeidae) from south region of Tibet, China**
YAJING LU, ZHICAI XIE & JUNQIAN ZHANG
- 411 **Observations on an epilobic *Lumbricus rubellus* (Oligochaeta, Lumbricidae) from the Great Smoky Mountains National Park, Tennessee, USA**
ROBERTO CARRERA-MARTÍNEZ & MAC A. CALLAHAM, JR.

- 414 **New *Diploptrema* and *Lavello-drilus* earthworm species from southern Mexico (Annelida, Crassici-tellata, Acanthodrilidae)**
CARLOS FRAGOSO & PATRICIA ROJAS
- 431 ***Protozapotecia acaxetlensis* and *Protozapotecia oyametlensis*, two new earthworm species (Crassici-tellata: Acanthodrilidae) from Mexican central mountains**
GABRIELA CERVANTES & CARLOS FRAGOSO
- 440 **Two new earthworm species (Oligochaeta: Annelida) of the Orinoquia region of Colombia**
LILIANA V. CELIS, ALEXANDER FEIJOO & ORLANDO RANGEL-CH.
- 448 **New species and records of earthworms (Annelida, Oligochaeta) in plantain cropping systems in Colombia's coffee-growing region**
ALEXANDER FEIJOO M., LUIS FERNANDO ZULUAGA Z. & LIGIA JANNETH MOLINA R.
- 459 **Three new species of *Holoscolex* (Clitellata, Glossoscolecidae) from the Gurupi Biological Reserve, last forest remnant of the Belém Endemism Area, Eastern Amazon**
LUIS MANUEL HERNÁNDEZ-GARCÍA, JESÚS ENRIQUE BURGOS-GUERRERO, BIANCA TAMIRES SILVA DOS SANTOS, GUILLAUME XAVIER ROUSSEAU & SAMUEL WOOSTER JAMES
- 472 ***Brasilisia* n. gen. and *Arraia* n. gen., two new genera of Ocnodrilidae (Annelida, Clitellata, Oligochaeta) from Eastern Amazonia, Brazil**
LUIS MANUEL HERNÁNDEZ-GARCÍA, JESÚS ENRIQUE BURGOS-GUERRERO, GUILLAUME XAVIER ROUSSEAU & SAMUEL WOOSTER JAMES
- 481 **Additions to *Andiorrhinus* (*Turedrilus*) (Rhinodrilidae, Clitellata) from Eastern Amazonia**
LUIS MANUEL HERNÁNDEZ-GARCÍA, MARIE LUISE BARTZ, JESÚS ENRIQUE BURGOS-GUERRERO, SANDRIEL COSTA SOUSA, GUILLAUME XAVIER ROUSSEAU & SAMUEL WOOSTER JAMES
- 492 **New species of *Glossoscolex* and *Fimoscolex* earthworms (Oligochaeta: Glossoscolecidae) from Embrapa Forestry, Paraná, Brazil**
ALEXANDER FEIJOO M & GEORGE G. BROWN
- 503 **Earthworm species in various land use systems in the Campos Gerais region of Lapa, Paraná, Brazil**
WILIAN C. DEMETRIO, ALESSANDRA SANTOS, TALITA FERREIRA, HERLON NADOLNY, GUILHERME B. X. CARDOSO, JULIA L. M. TORRES, RAFAELA DUDAS, VIVIANE DE OLIVEIRA, JULIA O. BARRETO, SAMUEL W. JAMES, ELODIE DA SILVA, GEORGE G. BROWN & MARIE L. C. BARTZ
- 517 **Earthworm species in no-tillage agroecosystems and native Atlantic forests in Western Paraná, Brazil**
ALESSANDRA SANTOS, TATIANE GORTE, WILIAN C. DEMETRIO, TALITA FERREIRA, HERLON NADOLNY, GUILHERME B.X. CARDOSO, CAROLINE TONETTI, RICARDO RALISCH, AMANDA P. NUNES, ANA CAROLINA P. COQUEIRO, HUDSON C.L. LEANDRO, CASSIO A.R. WANDSCHEER, JEANKLEBER BORTOLUZZI, GEORGE G. BROWN & MARIE L.C. BARTZ
- 535 **Earthworm species in public parks in Curitiba, Paraná, Brazil**
TALITA FERREIRA, ALESSANDRA SANTOS, WILIAN C. DEMETRIO, GUILHERME B. X. CARDOSO, RAFAEL MORAES, ORLANDO ASSIS, CINTIA NIVA, MANOELA SMOKANIT, JULIANE KNÓPIK, KLAUS D. SAUTTER, GEORGE G. BROWN & MARIE L. C. BARTZ
- 548 **New species-group taxa of *Glossoscolex* (Clitellata: Glossoscolecidae) from Rio Grande do Sul, Brazil**
MARIE L. C. BARTZ, SAMUEL W. JAMES, GERUSA P. K. STEFFEN, ZAIDA ANTONIOLLI, RICARDO B. STEFFEN & GEORGE G. BROWN
- 562 **Earthworm diversity in Rio Grande do Sul, Brazil**
GERUSA PAULI KIST STEFFEN, RICARDO BEMFICA STEFFEN, MARIE LUISE CAROLINA BARTZ, SAMUEL WOOSTER JAMES, RODRIGO JOSEMAR SEMINOTTI JACQUES, GEORGE GARDNER BROWN & ZAIDA INÉS ANTONIOLLI