

ACTA PARASITOLOGICA



CONTENTS

ORIGINAL PAPERS

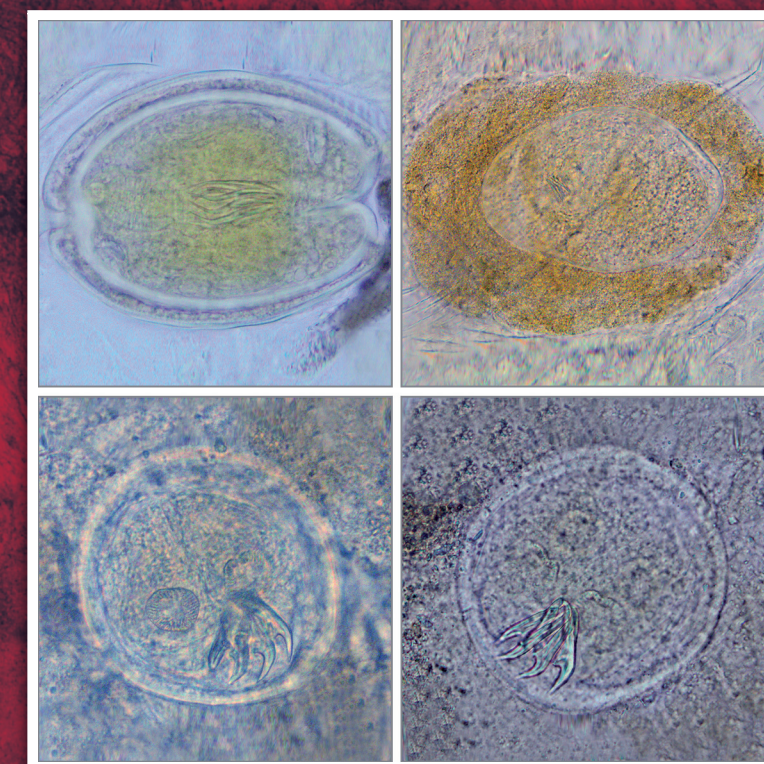
Karbowiak Grzegorz, Demiaszkiewicz Aleksander W., Pyziel Anna M., Wita Irena, Moskwa Bożena, Werszko Joanna, Bień Justyna, Goździk Katarzyna, Lachowicz Jacek and Cabaj Władysław – The parasitic fauna of the European bison (<i>Bison bonasus</i>) (Linnaeus, 1758) and their impact on the conservation. Part 1 The summarising list of parasites noted.....	363
Karbowiak Grzegorz, Demiaszkiewicz Aleksander W., Pyziel Anna M., Wita Irena, Moskwa Bożena, Werszko Joanna, Bień Justyna, Goździk Katarzyna, Lachowicz Jacek and Cabaj Władysław – The parasitic fauna of the European bison (<i>Bison bonasus</i>) (Linnaeus, 1758) and their impact on the conservation. Part 2 The structure and changes over time.....	372
Georgiev Boyko B., Angelov Aleksandar, Vasileva Gergana P., Sánchez Marta I., Hortas Francisco, Mutafchiev Yassen, Pankov Plamen and Green Andy J. – Larval helminths in the invasive American brine shrimp <i>Artemia franciscana</i> throughout its annual cycle	380
Abu-Madi Marawan A. and Behnke Jerzy M. – Feline patent <i>Toxoplasma</i> -like coccidiosis among feral cats (<i>Felis catus</i>) in Doha city, Qatar and its immediate surroundings.....	390
Ribeiro Thamy S., Lizama Maria A.P. and Takemoto Ricardo M. – Metazoan endoparasites diversity of <i>Pseudoplatystoma corruscans</i> (Siluriformes: Pimelodidae) as an indicator of environmental alterations on a tropical aquatic system	398
Andres Michael J., Ray Candis L., Pulis Eric E., Curran Stephen S. and Overstreet Robin M. – Molecular characterization of two opecoelid trematodes from fishes in the Gulf of Mexico, with a description of a new species of <i>Helicometra</i>	405
Ming Li, Chong Wang, Grim J. Norman, Jianguo Wang and Xiaoning Gong – Ultrastructural study of <i>Balantidium ctenopharyngodoni</i> Chen, 1955 (Class: Litostomatea) from China with an emphasis on its vestibulum	413
Özer Ahmet, Öztürk Türkay, Korniyushin Vadim V., Kornyychuk Yulia and Yurakhno Violetta – <i>Grillotia erinaceus</i> (van Beneden, 1858) (Cestoda:Trypanorhyncha) from whiting in the Black Sea, with observations on seasonality and host-parasite interrelationship	420
Skoracki Maciej, Kavetska Katarzyna, Ozminski Michał and Zawierucha Krzysztof – <i>Calamicoptes anatidus</i> sp. nov., a new quill wall mite (Acari: Laminosioptidae) from the Greater Scaup <i>Aythya marila</i> (L.) (Aves: Anseriformes)	426
Adamska Malgorzata, Leonska-Duniec Agata, Lanocha Natalia and Skotarczak Bogumila – Thermophilic potentially pathogenic amoebae isolated from natural water bodies in Poland and their molecular characterization	433
Nelli Sargsyan, Felix Danielyan and Marine Arakelyan – Seven new species of helminths for reptiles from Armenia.....	442
Belotindos Lawrence P., Lazaro Jonathan V., Villanueva Marvin A. and Mingala Claro N. – Molecular detection and characterization of <i>Theileria</i> species in the Philippines.....	448
Jeyaprita Parasurama Jawaharlal, Madhumathi Jayaprakasam, Prince Rajaiah Prabhu and Kaliraj Perumal – Repeat Region of <i>Brugia malayi</i> Sheath Protein (Shp-1) Carries Dominant B Epitopes Recognized in Filarial Endemic Population	454
Chikhlyayev Igor and Ruchin Alexander – The helminth fauna study of European common brown frog (<i>Rana temporaria</i> Linnaeus, 1758) in the Volga basin	459
Derda Monika, Wojtkowiak-Giera Agnieszka and Hadaś Edward – Comparative analyses of different genetic markers for the detection of <i>Acanthamoeba</i> spp. isolates.....	472
García-Prieto Luis, Ruiz-Torres Nallely, Osorio-Sarabia David and Merlo-Serna Aldo – <i>Foleyellides rhinellae</i> sp. nov. (Nematoda, Onchocercidae) a new filaria parasitizing <i>Rhinella marina</i> (Anura, Bufonidae) in Mexico.....	478
Crafford Dionne, Luus-Powell Wilmien and Avenant-Oldewage Annemarië – Monogenean parasites from fishes of the Vaal Dam, Gauteng Province, South Africa II. New locality records	485
Kocięcki Jarosław, Czaplicka Ewa and Kocięcka Wanda – Ocular system involvement in the course of human trichinellosis. Pathological and diagnostic aspects.....	493
Zimmermann Michael R., Luth Kyle E. and Esch Gerald W. – Differences in snail ecology lead to infection pattern variation of <i>Echinostoma</i> spp. larval stages... ..	502
Fraija-Fernández Natalia, Aznar Francisco J., Raga Juan A., Gibson David and Fernández Mercedes – A new brachycladiid species (Digenea) from Gervais’ beaked whale <i>Mesoplodon europaeus</i> in north-western Atlantic waters.....	510
Unger Patrick, Klimpel Sven, Lang Thomas and Palm Harry – Metazoan parasites from herring (<i>Clupea harengus</i> L.) as biological indicators in the Baltic Sea... ..	518
del Villar Luis Pérez, Vicente Belén, Blanco-Gómez Adrian, Castellanos Andrés, Pérez-Losada Jesús and Muro Antonio – Identifying phenotypes involved in susceptibility to <i>Schistosoma mansoni</i> infection in F1B6CBA mice.....	529
Monteiro Cassandra M. and Brasil-Sato Marília C. – A new species of <i>Rhimonastes</i> (Monogeneoidea, Dactylogyridae), nasal parasite of <i>Prochilodus argenteus</i> (Actinopterygii, Characiformes) from Brazil.....	540

RESEARCH NOTES

Ball Stanley J., Pittilo Micheal R. and Snow Keith R. – Observations on oocyst development of <i>Eimeria stiedai</i> in rabbits.....	544
Zygner Wojciech, Gójska-Zygner Olga, Wesołowska Agnieszka and Wędrychowicz Halina – Increased serum urea to creatinine ratio and its negative correlation with arterial pressure in canine babesiosis	548

ACTA PARASITOLOGICA

ISSN 1230-2821
eISSN 1896-1851



Witold Stefański Institute of Parasitology
Polish Academy of Sciences
Warszawa, Poland

W. STEFAŃSKI INSTITUTE OF PARASITOLOGY
Polish Academy of Sciences, Twarda 51/55, 00-818 Warszawa, Poland
Director: Władysław Cabaj

ACTA PARASITOLOGICA

An electronic version of this journal is available at www.springerlink.com

www.actaparasitologica.pan.pl

Founded in 1953 by the Polish Parasitological Society as Acta Parasitologica Polonica
Since 1992 quarterly Acta Parasitologica

Editor in Chief Anna Puciłowska
Associate Editors Zofia Graczyk, Daniel Młocicki

Editorial Board

Jerzy M. Behnke, University of Nottingham, UK
Rodney A. Bray, The Natural History Museum, UK
Janine N. Caira, University of Connecticut, USA
Anindo Choudhury, Oregon State University, USA
David Bruce Conn, Berry College, USA
Thomas H. Cribb, The University of Queensland, Australia
Jacek Dabert, A. Mickiewicz University, Poland
Jitender P. Dubey, Animal and Natural Resources Institute, USA
Ian Fairweather, Queen's University of Belfast, UK
Carlos Feliu, University of Barcelona, Spain
Robin B. Gasser, University of Melbourne, Australia
Boyko B. Georgiev, Bulgarian Academy of Sciences, Bulgaria
Lynda M. Gibbons, University of London, UK
David I. Gibson, The Natural History Museum, UK
Bruno Gottstein, University of Berne, Switzerland
Thaddeus K. Graczyk, Northern Arizona University, USA
Jean-Lou Justine, Muséum National d'Histoire Naturelle, France

Zbigniew Kabata, Pacific Biological Station, Canada
Graham C. Kearn, University of East Anglia, UK
Malcolm W. Kennedy, University of Glasgow, UK
Felipe Kierszenbaum, Michigan State University, USA
Dave Knox, Moredun Research Institute, UK
Ronny J.I. Larsson, University of Lund, Sweden
Marshal W. Lightowlers, Melbourne University, Australia
D. Timothy J. Littlewood, The Natural History Museum, UK
David J. Marcogliese, St. Lawrence Centre, Montreal QC, Canada
Jean Mariaux, Muséum d'Histoire Naturelle, Switzerland
František Moravec, Academy of Sciences, Czech Republic
Robin M. Overstreet, University of Southern Mississippi, USA
Wojciech Piasecki, Agricultural University of Szczecin, Poland
Edoardo Pozio, Istituto Superiore di Sanità, Italy
Aloysius G.M.Tielens, Vrije Universiteit Amsterdam, Netherlands
Vasyl V. Tkach, University of North Dakota, USA
Ian Whittington, The South Australian Museum, Australia

Address of the Editorial Office: W. Stefański Institute of Parasitology, Polish Academy of Sciences, 51/55 Twarda Street, 00-818 Warszawa, Poland; Tel.: +48-22-6206226, Fax: +48-22-6206227, e-mail: actapar@twarda.pan.pl

Copyright

© 2014 W. Stefański Institute of Parasitology, PAS. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic or otherwise, without the prior written permission of the Publisher, W. Stefański Institute of Parasitology, PAS, 51/55 Twarda Street, 00-818 Warszawa, Poland

Subscription details and back volumes

Starting from 2007 journal may be ordered only from Springer-Verlag at www.springer.com; whereas back volumes may be ordered from W. Stefański Institute of Parasitology, PAS, Warszawa, Poland

Cover illustration: from B.B. Georgiev *et al.*, Fig. 1c,d,e,f; p. 382

Instructions for Authors

ACTA PARASITOLOGICA, an international, peer-reviewed journal, publishes original full length articles, short research notes, invited review articles and book reviews, of high scientific quality on all aspects of pure and applied parasitology. Casuistic notes and papers of local importance are not accepted. Submission of the manuscript implies that it has not been published before nor is being considered for publication elsewhere. The manuscript should be accompanied by a letter signed by the authors. If the article was prepared jointly with other authors, the signatory of this form warrants that he has been authorized by all co-authors to sign this agreement on their behalf, and agrees to inform his co-authors of the terms of this agreement. The corresponding author is requested to provide an e-mail address to facilitate.

MANUSCRIPT SUBMISSION

Before submission of the manuscript Authors should register themselves first as new users and then upload their manuscripts along with a cover letter. Authors should submit their manuscripts online by using link <http://www.editorialmanager.com/ap/>. Then, please follow the instructions given on the screen. Submission of a manuscript implies: that the work described has not been published before; that it is not under consideration for publication anywhere else; that its publication has been approved by all co-authors. The publisher will not be held legally responsible should there be any claims for compensation. In case of any problems please contact directly to the Editorial Office actapar@twarda.pan.pl. Authors are asked to suggests at least three potential referees including their addresses, e-mail addresses and, if possible, telephone and fax numbers.

ETHICS IN PUBLISHING

For information on Ethics in publishing and Ethical guidelines for journal publication see <http://www.springer.com/authors/journal+authors/journal+authors+academy?SGWID=0-1726414-12-837825-0>

PERMISSIONS

Authors wishing to include figures and/or text that have already been published elsewhere are required to obtain permission from the copyright owner for both the print and online format and to include evidence that such permission has been granted when submitting their papers.

PAGE CHARGES

There are no page charges for publication in *Acta Parasitologica*. However, there are charges associated with the reproduction of colour illustrations and the purchase of reprints. Online publication of colour illustrations is always free of charge. For colour in the print version, authors will be expected to make a contribution towards the extra costs of 300 € for the first page and 100 € for every additional page, to Versita. Authors who decided to withdraw their article during its processing and/or after its acceptance they would be asked to cover editorial costs of 80 € (+local taxes) per page (1800 characters including spaces), however, not less than 500 € per article.

MANUSCRIPTS

Manuscripts should be submitted in correct English checked by a native English-speaking biologist/parasitologist. Authors are responsible for the linguistic accuracy of their papers. Authors should clearly confirm that their manuscript submitted to this journal was neither send to another journal nor any part of it has been published or is being considered for publication elsewhere in any form.

The manuscript should contain: the title (as concise and informative as possible); the affiliation(s) and address(es) of the author(s); corresponding author e-mail address, telephone and fax numbers of the corresponding author; running title; abstract (preferably not exceeding 200–250 words) and keywords proposed by the authors (up to 6). The name(s) of the author(s).

Papers should be typed in English with double-spacing, and wide margins including a left-hand margin of not less than 2.5 cm. The text should be composed of the Introduction, Materials and methods, Results, and Discussion, provided with Acknowledgements if any, References, Tables and Figures. No part of the manuscript should be typed in capitals. Latin terms, including genus and species names should be written in italics. Only the generally accepted abbreviations and symbols are allowed. Abbreviations should be defined at first mention and used consistently thereafter.

The description of new species should be supported, if possible, by results obtained by means of molecular analysis. Contributors of taxonomic studies are encouraged to use molecular analysis where this is appropriate and feasible.

NOMENCLATURE

The authors should follow the international rules of nomenclature in the names of organisms they describe. Recommendations of the International Code of Zoological Nomenclature, London 1999 should be strictly adhered to.

REFERENCES

Only references cited in the text may be included in their list. They should be arranged in the alphabetical order in the following format **for journal article** author(s), year of publication, journal title (full name in italics), volume, range of pages, and full DOI should be provided by author(s).

Example: Dabert J., Skoracki M. 2007. *Syringoplutarchusia nordmanni*, a new genus and species of the feather mite family Syringobiidae (Acari, Astigmata, Pterolichoidea) from the Black-winged Pratincole *Glareola nordmanni* (Charadriiformes, Glareolidae). *Acta Parasitologica*, 52, 62–69. DOI: 10.2478/s11686-007-0008-1.

Contents are abstracted/indexed in Academic OneFile, Animal Breeding Abstracts, BIOBASE/CABS (Current Awareness in Biological Sciences), Biological Abstracts, Biological Sciences, Biology & Environmental Sciences (ISI) Biosis Previews, CAB Abstracts Entomology Abstracts, Chemical Abstracts Service (CAS), CAB Abstracts, CAB International, CSA, Current Abstracts, Current Contents/ Agriculture, EBSCO, Elsevier Biobase, Environmental Science and Pollution Management, Environmental Science Database, Fishlit, Gale, GeoRef, Global Health, Google Scholar, Helminthological Abstracts, Index Copernicus, INIS Atomindex, Journal Citation Reports/Science Edition, OCLC, Pig News and Information, Protozoological Abstracts, PsJC, PubMed/Medline, Referativnyi Zhurnal, Review of Medical and Veterinary Entomology, Review of Medical and Veterinary Mycology, Science Citation Index Expanded (SciSearch), SCImago, SCOPUS, SIGZ, Summon by Serial Solutions, Toxicology Abstracts, Tropical Diseases Bulletin, Veterinary Bulletin, Zoological Record

For a book: Author(s), date, title, publisher, publication place.
Example: Rohde K. (Ed.). 2005. Marine Parasitology. CSIRO Publishing, Collingwood VIC 3066, Australia and CABI Publishing, Wallingford, UK, 565 pp.

For book chapter or article in an edited book: Author(s) of chapter, year, chapter title. In: Editors of the book (Eds.), book title in italics, place of publication, publisher, chapter page range.

Example: Cribb T.H. 2005. Family Opecoelidae Ozaki, 1925. In: (Eds. A. Jones, R.A. Bray and D.I. Gibson) Keys to the Trematoda. Vol. 2. CABI Publishing and The Natural History Museum, Wallingford, 443–531.

For proceedings from a conference: Author(s), year of publication, title. In: Conference name, date, place of conference, page range.

Example: Świderski Z., Chomicz L., Grytner-Zięcina B., Sereda M.J. 2002. Ultrastructural characteristic of the oncospherical germinative cells in *Echinococcus multilocularis* and *E. granulosus*. In: Proceedings of the 10th International Congress of Parasitology ICOPA X: Symposia, Workshops and Contributed Papers, 4–9 August, 2002, Vancouver, Canada, 551–554.

For thesis: Author(s), year of publication, title, information, place of publication.
Example: McKerr G. 1985. The fine structure and physiology of a trypanorhynch tapeworm *Grillotia erinaceus*. PhD Thesis, The Queen's University of Belfast, Northern Ireland, UK.

Names of authors and titles of references should be given in original languages, except these written in non Latin characters. The latter should be translated into English. When there is more than one reference of a given author in the same year, the references should be distinguished by letter 'a' being used for the first reference and 'b', 'c' for the following. The method of citation in the text should correspond to that in recent issues of *Acta Parasitologica*. Correct references are the responsibility of the author(s). In addition, authors should provide complete, correct and properly structured DOI number to references, whenever it is possible. If the article and book has DOI number, the author should include it in the references. DOIs are very easy to find. Please keep in mind that the DOI number will automatically make the active link.

TABLES

Tables must be provided in Word format with Roman numbering and clear headings should be typed on separate pages. The text should not duplicate information given in the Tables and Figures. Where necessary, results should be analysed using an appropriate statistical test.

FIGURES

When first submitting a manuscript for peer review, low-resolution versions of figures should be uploaded to limit file size. In the final submission the line drawings should not be larger than twice the final size. Lines should be bold enough to withstand reduction. Lettering, symbols and scale bars which appear on figures (kept to a minimum) should be of good quality and of sufficient size to withstand reduction. The legends should be typed on a separate page. All figures should be clearly marked with Arabic numbering. All figures should be send in TIFF. The following resolutions are optimal: photographs – 300 dpi, line figures – 600 dpi.

FINAL PROOFREADING

Authors will receive a pdf file with the edited version of their manuscript for final proofreading. This is the last opportunity to view an article before its publication. The purpose of the proof is to check for typesetting or conversion errors and the completeness and accuracy of the text, tables and figures. Substantial changes in content, e.g., new results, title and authorship, are not allowed without the approval of the Editor. After online publication, further changes can only be made in the form of an Erratum, which will be hyperlinked to the article.

ELECTRONIC REPRINTS

After publication the corresponding author receives a pdf file with the published version of the manuscript.

TRANSFER OF COPYRIGHT AGREEMENT

A properly completed TCA must be provided for each submitted manuscript.

OFFPRINTS

Offprints can be ordered by the corresponding author(s).

CARE OF EXPERIMENTAL ANIMALS

It is the responsibility of authors to ensure that their practices conform with their national animal ethics guidelines. Submitted papers must contain precise details on the care and use of animals and of experimental procedures, especially interventions such as surgery and tissue sampling, and methods of euthanasia. Referees are asked to indicate whether there is any reason to consider that experimental animals were not well treated or care not taken to avoid distress, and papers may ultimately be rejected on such grounds.

CONFLICT OF INTERESTS

All authors are requested to disclose any actual or potential conflict of interest including any financial, personal or other relationships with other people or organizations within three years of beginning the submitted work that could inappropriately influence, or be perceived to influence, their work.