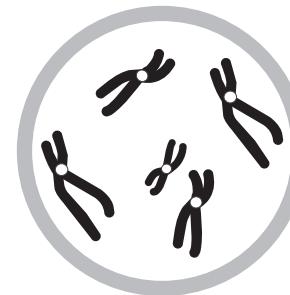


# Contents

- 267** Karyotype characteristics and chromosomal polymorphism of *Chironomus "annularius"* sensu Strenzke (1959) (Diptera, Chironomidae) from the Caucasus region  
Mukhamed Kh. Karmokov
- 285** Karyotypic variation in the long-whiskered catfish *Pimelodus blochii* Valenciennes, 1840 (Siluriformes, Pimelodidae) from the lower Tapajós, Amazonas and Trombetas Rivers  
Ivanny Coelho da Fonseca, Luan Aércio Melo Maciel, Frank Raynner Vasconcelos Ribeiro, Luís Reginaldo Ribeiro Rodrigues
- 299** 23rd International Colloquium on Animal Cytogenetics and Genomics (23 ICACG)  
June 9–12, 2018, Saint-Petersburg, Russia  
Svetlana Galkina, Maria Vishnevskaya
- 361** First cytogenetic analysis of lesser gymnures (Mammalia, Galericidae, *Hylomys*) from Vietnam  
Svetlana V. Pavlova, Larisa S. Biltueva, Svetlana A. Romanenko, Natalya A. Lemskaya, Anton V. Shchinov, Alexei V. Abramov, Viatcheslav V. Rozhnov
- 373** Cytogenetic studies in three octopods, *Octopus minor*, *Amphioctopus fangsiao*, and *Cistopus chinensis* from the coast of China  
Jin-hai Wang, Xiao-dong Zheng
- 387** Extensive karyotype variability of African fish genus *Nothobranchius* (Cyprinodontiformes)  
Eugene Krysanov, Tatiana Demidova
- 403** New chromosome counts and genome size estimates for 28 species of *Taraxacum* sect. *Taraxacum*  
Petra Macháčková, Luboš Majeský, Michal Hroneš, Eva Hřibová, Bohumil Trávníček, Radim J. Vašut
- 421** The karyotypes and evolution of ZZ/ZW sex chromosomes in the genus *Characidium* (Characiformes, Crenuchidae)  
Marcela Baer Pucci, Viviane Nogaroto, Luiz Antonio Carlos Bertollo, Orlando Moreira-Filho, Marcelo Ricardo Vicari
- 439** First illustration of chromosomes and genetic system of Lecanodiaspidinae (Homoptera, Coccoidea, Asterolecaniidae s.l.)  
Ilya A. Gavrilov-Zimin

COMPARATIVE CYTOGENETICS ◆ 12(3), 2018



# COMPARATIVE Cytogenetics

International Journal of Plant &amp; Animal Cytogenetic, Karyosystematics, and Molecular Systematics


**PENSOFT**

12(3) ◆ 2018



COMPARATIVE  
**Cytogenetics**

International Journal of Plant & Animal Cytogenetics,  
Karyosystematics, and Molecular Systematics

**Editors-in-Chief:**

Prof. Dr. Valentina G. Kuznetsova  
Zoological Institute, St. Petersburg  
valentina\_kuznetsova@yahoo.com

Dr. Ilya A. Gavrilov-Zimin  
Zoological Institute, St. Petersburg  
coccids@gmail.com

**Managing Editor:** Dr. Lyubomir Penev

**Language Editors:** Robert B. Angus

**Editorial Board:**

**Robert B. Angus** (University of London, r.angus@rhul.ac.uk), **Irina Yu. Baklushinskaya** (Koltsov Institute of Developmental Biology RAS, Moscow, irina.bakl@gmail.com), **Alicja Boron** (University of Warmia and Mazury, Olsztyn, alibo@uwm.edu.pl), **Nina Sh. Bulatova** (Institute of Ecology and Evolution, Moscow, ninbul@mail.ru), **Julio R. Daviña** (Universidad Nacional de Misiones, Posadas, juliordavina@gmail.com), **Grazyna Furgala-Selezniow** (University of Warmia and Mazury, Olsztyn, grazska@uwm.edu.pl), **Natalia V. Golub** (Zoological Institute, St. Petersburg, psocid@zin.ru), **Vladimir E. Gokhman** (Moscow State University, gokhman@bg.msu.ru), **Veronika V. Golygina** (Institute of Cytology and Genetics, Novosibirsk, nika@bionet.nsc.ru), **Ekatерина Горнунг** (University of Rome "Sapienza", ekaterina.gornung@gmail.com), **Snejana Grozeva** (Institute of Biodiversity and Ecosystem Research, Sofia, sgrozeva@yahoo.com), **Vladimir A. Lukhtanov** (St. Petersburg State University, lukhtanov@mail.ru), **Anna Maryanska-Nadachowska** (Institute of Systematics and Evolution of Animals, Krakow, maryanska@isez.pan.krakow.pl), **Seppo Nokkala** (University of Turku, seppo.nokkala@utu.fi), **Andrey Polyakov** (Institute of Cytology and Genetics SB RAS, Novosibirsk, polyakov@bionet.nsc.ru), **Petr Rab** (Institute of Animal Physiology and Genetics, Libechov, rab@iapc.cas.cz), **Nazar Shapoval** (Russian Academy of Sciences, St. Petersburg, nazaret@bk.ru), **Joan Vallès** (Universitat de Barcelona, joanvalles@ub.edu), **Jan Zima** (Institute of Vertebrate Biology, Brno, jzima@brno.cas.cz)

**International Advisory Board:**

**Ekaterina D. Badaeva** (Institute of Molecular Biology, Moscow, \_badaeva@mail.ru), **Katsuhiro Kondo** (Hiroshima University, Hiroshima, kkondo@hiroshima-u.ac.jp), **Iya I. Kiknadze** (Institute of Cytology and Genetics, Novosibirsk, kiknadze@bionet.nsc.ru), **Frantisek Marec** (Institute of Entomology, Ceske Budejovice, marec@entu.cas.cz), **Jon Martin** (University of Melbourne, Melbourne, j.martin@unimelb.edu.au), **Paraskeva Michailova** (Institute of Zoology, Sofia, michailova@zoology.bas.bg), **Benjamin B. Normark** (University of Massachusetts, Amherst, bnormark@ent.umass.edu), **Walther Traut** (University of Luebeck, Luebeck, traut@molbio.uni-luebeck.de), **Ludmila V. Vysotskaya** (Novosibirsk State University, Novosibirsk, vysot@fen.nsu.ru)

All correspondence with reference to editorial matters should be addressed to: Dr. Ilya Gavrilov-Zimin by e-mail: coccids@gmail.com with subject "Comparative Cytogenetics" or to the address: Zoological Institute, Russian Academy of Sciences, Universitetskaya nab. 1, St. Petersburg 199034, Russia.

**Creative Commons Attribution License.** This is an open access journal distributed under the terms of the Creative Commons Attribution License 3.0 CC-BY, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

**Subscription for 2014:**

The printed version: institutional subscription - € 145.00; individual subscription - € 70.00;  
subscribers from Russia - € 120.00.

PENSOFT Publishers

Prof. Georgi Zlatarski 12, 1700 Sofia, Bulgaria  
Tel. +359-2-8704281  
Fax: +359-2-8704282  
e-mail: info@pensoft.net  
<http://compcytogen.pensoft.net>