

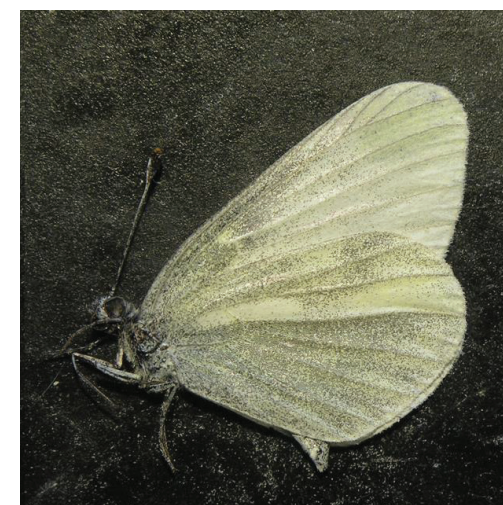
Contents

- 281** Karyotype characteristics and polymorphism peculiarities of *Chironomus bernensis* Wülker & Klötzli, 1973 (Diptera, Chironomidae) from the Central Caucasus and Ciscaucasia
Mukhamed Kh. Karmokov, Natalia V. Polukonova, Olga V. Sinichkina
- 299** Genetic integrity of four species of *Leptidea* (Pieridae, Lepidoptera) as sampled in sympatry in West Siberia
Vladimir I. Solovyev, Yury Ilinsky, Oleg E. Kosterin
- 325** First description of B chromosomes in the *Hyphessobrycon* (Characiformes, Characidae) genus: a hypothesis for the extra element of *Hyphessobrycon eques* Steindachner, 1882
Diovani Piscor, Patricia Pasquali Parise-Maltempi
- 335** General trends of chromosomal evolution in Aphidococca (Insecta, Homoptera, Aphidinea + Coccinea)
Ilya A. Gavrilov-Zimin, Andrey V. Stekolshchikov, D.C. Gautam
- 423** Molecular cytogenetic studies in the ladybird beetle *Henosepilachna argus* Geoffroy, 1762 (Coleoptera, Coccinellidae, Epilachninae)
Pablo Mora, Jesús Vela, Olivia Sanllorente, Teresa Palomeque, Pedro Lorite
- 435** Spreading of heterochromatin and karyotype differentiation in two *Tropidacris* Scudder, 1869 species (Orthoptera, Romaleidae)
Marília de França Rocha, Mariana Bozina Pine, Elizabeth Felipe Alves dos Santos Oliveira, Vilma Loreto, Raquel Bozini Gallo, Carlos Roberto Maximiano da Silva, Fernando Campos de Domenico, Renata da Rosa
- 451** Contributions to cytogenetics of *Plectranthus barbatus* Andr. (Lamiaceae): a medicinal plant
Aryane Campos Reis, Lyderson Facio Viccini, Saulo Marçal de Sousa



COMPARATIVE Cytogenetics

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





COMPARATIVE Cytogenetics

A peer-reviewed open-access journal

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** (Koltzov Institute of Developmental Biology RAS, Moscow, irina.bakl@gmail.com), **Alicja Boron** (University of Warmia and Mazury, Olsztin, 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, Olsztin, graszka@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), **Ekaterina Gornung** (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@iapg.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), **Katsuhiko 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