

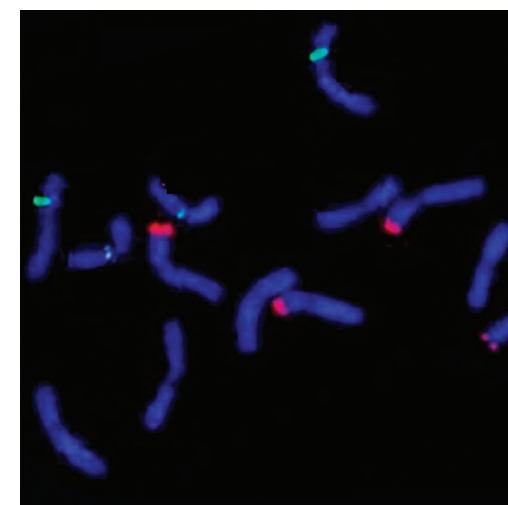
- 465** Repetitive sequences: the hidden diversity of heterochromatin in prochilodontid fish
Maria L. Terencio, Carlos H. Schneider, Maria C. Gross, Edson Junior do Carmo, Viviane Nogaroto, Mara Cristina de Almeida, Roberto Ferreira Artoni, Marcelo R. Vicari, Eliana Feldberg
- 483** Intragenomic variations of multicopy ITS2 marker in *Agrodiaetus* blue butterflies (Lepidoptera, Lycaenidae)
Nazar A. Shapoval, Vladimir A. Lukhtanov
- 499** Identification of new cytotypes of *Valeriana jatamansi* Jones, 1970 (Valerianaceae) from North-Western Himalayan region of India
Savita Rani, Tilak Raj Sharma, Rakesh Kapila, Rakesh Kumar Chahota
- 513** Variability of 18rDNA loci in four lace bug species (Hemiptera, Tingidae) with the same chromosome number
Natalia V. Golub, Viktor B. Golub, Valentina G. Kuznetsova
- 523** First evidence for (TTAGG)_n telomeric sequence and sex chromosome post-reduction in Coleorrhyncha (Insecta, Hemiptera)
Valentina G. Kuznetsova, Snezana M. Grozeva, Viktor Hartung, Boris A. Anokhin
- 533** (GAA)_n microsatellite as an indicator of the A genome reorganization during wheat evolution and domestication
Irina G. Adonina, Nikolay P. Goncharov, Ekaterina D. Badaeva, Ekaterina M. Sergeeva, Nadezhda V. Petrash, Elena A. Salina
- 549** Variation of karyotype and nuclear DNA content among four species of *Plectranthus* L' Héritier, 1788 (Lamiaceae) from Brazil
Thaís Furtado Nani, Amanda Teixeira Mesquita, Fernanda de Oliveira Bustamante, Sandro Barbosa, João Vítor Calvelli Barbosa, Lisete Chamma Davide
- 565** Cytogenetic description of the earthworm *Drawida ghilarovi* Gates, 1969 (Oligochaeta, Moniligastridae) from the southern Russian Far East
Alim P. Anisimov, Galina V. Roslik, Gennady N. Ganin
- 579** Chromosome analysis of *Endochironomus albipennis* Meigen, 1830 and morphologically similar *Endochironomus* sp. (Diptera, Chironomidae) from water bodies of the Volga region, Russia
Natalya Durnova, Ludmila Sigareva, Olga Sinichkina

Continued on back of this page



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

Contents

595

Chromosomal distribution of microsatellite repeats in Amazon cichlids genome (Pisces, Cichlidae)

Carlos Henrique Schneider, Maria Claudia Gross, Maria Leandra Terencio, Édika Sabrina Girão Mitozo de Tavares, Cesar Martins, Eliana Feldberg

607

First description of the karyotype of a eucharitid wasp (Hymenoptera, Chalcidoidea, Eucharitidae)

Igor Silva Santos, Jacques Hubert Charles Delabie, Marco Antonio Costa, Cléa Santos Ferreira Mariano, Janisete Gomes Silva

613

Comparative cytogenetic study of three *Macrolophus* species (Heteroptera, Miridae)

Ana Maria Jauset, Eva Edo-Tena, Cristina Castañé, Nuria Agustí, Oscar Alomar, Snejana Grozeva

625

Cytogenetic analyses of five amazon lizard species of the subfamilies Teiinae and Tupinambinae and review of karyotyped diversity the family Teiidae

Natália Dayane Moura Carvalho, Federico José Arias, Francijara Araújo da Silva, Carlos Henrique Schneider, Maria Claudia Gross

645

Ribosomal DNA in diploid and polyploid *Setaria* (Poaceae) species: number and distribution

Thaís Furtado Nani, Gisele Cenzi, Daniele Luis Pereira, Lisete Chamma Davide, Vânia Helena Techio

661

Whole chromosome painting of B chromosomes of the red-eye tetra *Moenkhausia sanctaefilomenae* (Teleostei, Characidae)

Patricia Elda Sobrinho Scudeler, Débora Diniz, Adriane Pinto Wasko, Claudio Oliveira, Fausto Foresti

671

First cytogenetic report in *Cichlasoma sanctifranciscense* Kullander, 1983 (Perciformes, Cichlidae) from northeastern Brazil with inferences on chromosomal evolution of Cichlasomatini

Leandro A. Argôlo, Paulo Roberto Antunes de Mello Affonso

683

The blue butterfly *Polyommatus (Plebicula) atlanticus* (Lepidoptera, Lycaenidae) holds the record of the highest number of chromosomes in the non-polyploid eukaryotic organisms

Vladimir A. Lukhtanov

691

Analysis of meiotic chromosome structure and behavior in Robertsonian heterozygotes of *Ellobius tancrei* (Rodentia, Cricetidae): a case of monobrachial homology

Sergey Matveevsky, Irina Bakloushinskaya, Valentina Tambovtseva, Svetlana Romanenko, Oxana Kolomiets