

Contents

5 Preface

Trifonov, V.A. (Novosibirsk); Cioffi, M.B. (São Carlos); Liehr, T. (Jena)

Original Articles

6 SINE-B1 Distribution and Chromosome Rearrangements in the South American *Proechimys gr. goeldii* (Echimyidae, Rodentia)

Araújo, N.P. (Belo Horizonte/Jaru); Sena, R.S. (Belo Horizonte); Bonvicino, C.R. (Rio de Janeiro); Kuhn, G.C.S.; Svartman, M. (Belo Horizonte)

14 Homogeneously Staining Regions (HSR) in Chromosome 1 of the House Mouse: Synapsis and Recombination at Meiosis

Torgunakov, N.Y.; Kizilova, E.A.; Karamysheva, T.V.; Malinovskaya, L.P.; Bikchurina, T.I.; Borodin, P.M. (Novosibirsk)

23 Evolution of Sex Chromosome Heteromorphy in Geographic Populations of the Japanese Tago's Brown Frog Complex

Kuwana, C. (Higashi-Hiroshima); Fujita, H. (Saitama); Tagami, M. (Kakamigahara); Matsuo, T. (Nagasaki); Miura, I. (Higashi-Hiroshima)

32 Evolution of Tandemly Arranged Repetitive DNAs in Three Species of Cyprinoidei with Different Ploidy Levels

Bishani, A.; Prokopov, D.Y.; Romanenko, S.A.; Molodtseva, A.S.; Perelman, P.L. (Novosibirsk); Interesova, E.A. (Tomsk); Beklemisheva, V.R.; Graphodatsky, A.S.; Trifonov, V.A. (Novosibirsk)

43 Uterine Leiomyomas with an Apparently Normal Karyotype Comprise Minor Heteroploid Subpopulations Differently Represented in vivo and in vitro

Koltsova, A.S.; Efimova, O.A.; Pendina, A.A.; Chiryaeva, O.G.; Osinovskaya, N.S.; Shved, N.Y.; Yarmolinskaya, M.I.; Polenov, N.I.; Kunitsa, V.V.; Sagurova, Y.M.; Tral, T.G.; Tolibova, G.K.; Baranov, V.S. (St. Petersburg)

52 Comparative Cytogenetics in Four *Leptodactylus* Species (Amphibia, Anura, Leptodactylidae): Evidence of Inner Chromosomal Diversification in Highly Conserved Karyotypes

da Silva, D.S. (Abaetetuba); da Silva Filho, H.F. (Belém); Cioffi, M.B. (São Carlos); de Oliveira, E.H.C. (Ananindeua/Belém); Gomes, A.J.B. (Abaetetuba)

63 Chromosome Mapping of U2 snDNA in Species of *Leptodactylus* (Anura, Leptodactylidae)

Gazoni, T.; Dorigon, N.S.; da Silva, M.J.; Cholak, L.R.; Haddad, C.F.B.; Parise-Maltempi, P.P. (Rio Claro)

70 A New Variant B Chromosome in Auchenipteridae: The Role of (GATA)_n and (TTAGGG)_n Sequences in Understanding the Evolution of Supernumeraries in *Trachelyopterus*

Felicetti, D.; Haerter, C.A.G.; Baumgärtner, L.; Paiz, L.M. (Cascavel); Takagui, F.H. (Londrina); Margarido, V.P. (Cascavel); Blanco, D.R. (Santa Helena); Feldberg, E. (Manaus); da Silva, M. (Ponta Grossa); Lui, R.L. (Cascavel)

82 Molecular Cytogenetic Characterization of the Murine Melanoma Cell Lines S91 Clone M3 and B16-F1 with Variant B16-4A5

Piaszinski, K. (Jena); Rincic, M. (Zagreb); Liehr, T.; Azawi, S. (Jena)

93 Tandem Repeat-Based Probes Support the Loop Model of Pericentromere Packing

Ivanova, N.G.; Ostromyshenskii, D.; Podgornaya, O. (St. Petersburg)

103 Author Index

104 Subject Index