

Contents

5 Preface

Giovannotti, M.; Olmo, E.; Caputo-Barucchi, V. (Ancona)

Review Articles

7 Understanding the Evolution of Reptile Chromosomes through Applications of Combined Cytogenetics and Genomics Approaches

Deakin, J.E.; Ezaz, T. (Canberra, ACT)

21 The Mobilome of Reptiles: Evolution, Structure, and Function

Boissinot, S.; Bourgeois, Y. (Abu Dhabi); Manthey, J.D. (Lubbock, TX);
Ruggiero, R.P. (Abu Dhabi)

34 Hox Genes in Reptile Development, Epigenetic Regulation, and Teratogenesis

Martín-del-Campo, R. (Mazatlán); Sifuentes-Romero, I. (Boca Raton, FL);
García-Gasca, A. (Mazatlán)

Original Articles

46 Squamate Chromosome Size and GC Content Assessed by Flow Karyotyping

Kasai, F.; O'Brien, P.C.M.; Ferguson-Smith, M.A. (Cambridge)

53 5-Methylcytosine-Rich Heterochromatin in Reptiles

Schmid, M.; Steinlein, C.; Reiter, A.M. (Würzburg); Rovatsos, M.;
Altmanová, M. (Prague/Liběchov); Mazzoleni, S. (Prague);
Johnson Pokorná, M. (Prague/Liběchov); Kratochvíl, L. (Prague)

65 Isolation and Characterization of Interspersed Repeated Sequences in the Common Lizard, *Zootoca vivipara*, and Their Conservation in Squamata

Petraccioli, A.; Guarino, F.M. (Naples); Kupriyanova, L. (St. Petersburg);
Mezzasalma, M. (Naples/London); Odierna, G.; Picariello, O.; Capriglione, T. (Naples)

77 Chromosomal Rearrangements during Turtle Evolution Altered the Synteny of Genes Involved in Vertebrate Sex Determination

Lee, L.S.; Montiel, E.E.; Navarro-Domínguez, B.M.; Valenzuela, N. (Ames, IA)

89 ZZ/ZW Sex Chromosomes in the Endemic Puerto Rican Leaf-Toed Gecko (*Phyllodactylus wirshingi*)

Nielsen, S.V. (Milwaukee, WI); Daza, J.D. (Huntsville, TX); Pinto, B.J. (Milwaukee, WI);
Gamble, T. (Milwaukee, WI/Saint Paul, MN)

98 Karyotype Analysis of Four Blind Snake Species (Reptilia: Squamata: Scolecophidia) and Karyotypic Changes in Serpentes

Matsubara, K. (Nagoya/Sanda); Kumazawa, Y. (Nagoya);
Ota, H. (Sanda); Nishida, C. (Sapporo); Matsuda, Y. (Nagoya)

107 Male Meiotic Recombination in the Steppe Agama, *Trapelus sanguinolentus* (Agamidae, Iguania, Reptilia)

Lisachov, A.P.; Tishakova, K.V.; Tsepilov, Y.A.; Borodin, P.M. (Novosibirsk)

115 Genetic Content of the Neo-Sex Chromosomes in *Ctenonotus* and *Norops* (Squamata, Dactyloidae) and Degeneration of the Y Chromosome as Revealed by High-Throughput Sequencing of Individual Chromosomes

Lisachov, A.P.; Makunin, A.I. (Novosibirsk); Giovannotti, M. (Ancona);
Pereira, J.C. (Cambridge); Druzhkova, A.S. (Novosibirsk); Caputo Barucchi, V. (Ancona);
Ferguson-Smith, M.A. (Cambridge); Trifonov, V.A. (Novosibirsk)

123 Isolating Chromosomes of the Komodo Dragon: New Tools for Comparative Mapping and Sequence Assembly

Iannucci, A. (Florence); Altmanová, M. (Prague/Liběchov); Ciofi, C. (Florence);
Ferguson-Smith, M.; Pereira, J.C. (Cambridge); Reháč, I. (Prague); Stanyon, R. (Florence);
Velenský, P. (Prague); Rovatsos, M. (Prague/Liběchov); Kratochvíl, L. (Prague);
Johnson Pokorná, M. (Prague/Liběchov)

132 Author Index

133 Subject Index