Xenopus Genomics

Guest Editors

Ben J. Evans, Hamilton, Ont.
Michael Schmid, Würzburg

51 figures, 23 in color, and 17 tables, 2015
Disclaimer
The statements, opinions and data contained in this publication are solely those of the individual authors and contributors and not of the publisher and the editor(s). The appearance of advertisements in the journal is not a warranty, endorsement, or approval of the products or services advertised or of their effectiveness, quality or safety. The publisher and the editor(s) disclaim responsibility for any injury to persons or property resulting from any ideas, methods, instructions or products referred to in the content or advertisements.

Drug Dosage
The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

All rights reserved. No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher or, in the case of photocopying, direct payment of a specified fee to the Copyright Clearance Center (see ‘General Information’).

Contents

185 Preface
Evans, B.J. (Hamilton, Ont.); Schmid, M. (Würzburg)

Review Articles

192 Xenopus Cytogenetics and Chromosomal Evolution
Krylov, V.; Tlapakova, T. (Prague)

243 Molecular Polymorphism and Divergence of Duplicated Genes in Tetraploid African Clawed Frogs (Xenopus)
Evans, B.J. (Hamilton, Ont.); Kwon, T. (Austin, Tex.)

302 Evolution of Courtship Songs in Xenopus: Vocal Pattern Generation and Sound Production
Leininger, E.C. (St. Mary’s City, Md.); Kelley, D.B. (New York, N.Y.)

315 Polyploidy in Amphibia
Schmid, M. (Würzburg); Evans, B.J. (Hamilton, Ont.); Bogart, J.P. (Guelph, Ont.)

Original Articles

187 A New Nomenclature of Xenopus laevis Chromosomes Based on the Phylogenetic Relationship to Silurana/Xenopus tropicalis
Matsuda, Y.; Uno, Y. (Nagoya); Kondo, M. (Muria); Gilchrist, M.J. (London); Zorn, A.M. (Cincinnati, Ohio); Rokhsar, D.S. (Walnut Creek, Calif./Berkeley, Calif.); Schmid, M. (Würzburg); Taira, M. (Tokyo)

201 Chromosome Banding in Amphibia. XXXII. The Genus Xenopus (Anura, Pipidae)
Schmid, M.; Steinlein, C. (Würzburg)

218 Extraordinary Diversity in the Origins of Sex Chromosomes in Anurans Inferred from Comparative Gene Mapping
Uno, Y. (Nagoya); Nishida, C. (Sapporo); Takagi, C. (Okazaki); Igawa, T. (Higashi-Hiroshima); Ueno, N. (Okazaki); Sumida, M. (Higashi-Hiroshima); Matsuda, Y. (Nagoya)
230 Distribution of the T2-MITE Family Transposons in the Xenopus (Silurana) tropicalis Genome
Hikosaka, A. (Higashi-Hiroshima); Uno, Y.; Matsuda, Y. (Nagoya)

253 Benchmarking Transcriptome Quantification Methods for Duplicated Genes in Xenopus laevis
Kwon, T. (Austin, Tex./Ulsan)

265 Sex-Biased Expression of Young Genes in Silurana (Xenopus) tropicalis
Chain, F.J.J. (Montreal, Que.)

278 Database and Informatic Challenges in Representing Both Diploid and Tetraploid Xenopus Species in Xenbase
Vize, P.D.; Liu, Y.; Karimi, K. (Calgary, Alta.)

283 Xenopus in Space and Time: Fossils, Node Calibrations, Tip-Dating, and Paleobiogeography
Cannatella, D. (Austin, Tex.)

331 Author Index