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ISSN: 1874-7787

DESCRIPTION

The journal publishes papers on all functional and evolutionary aspects of **genes, chromatin, chromosomes** and (meta)**genomes** of **marine** (and freshwater) **organisms**. It deals with new genome-enabled insights into the broader framework of environmental science. Topics within the scope of this journal include:

- Population **genomics** and ecology
- Evolutionary and developmental genomics
- Comparative genomics
- Metagenomics
- Environmental genomics
- Systems biology

More specific topics include: geographic and phylogenomic characterization of aquatic organisms, metabolic capacities and pathways of organisms and communities, biogeochemical cycles, genomics and integrative approaches applied to microbial ecology including (meta)transcriptomics and (meta)proteomics, tracking of infectious diseases, environmental stress, global climate change and ecosystem modelling.

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AUDIENCE

Marine and freshwater biologists and ecologists, molecular biologists, geneticists, biotechnologists, oceanographers and modellers.

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RESEARCH INTERESTS: Transcriptome response in Antarctic marine invertebrates and vertebrates. Physiological adaptations in cold-adapted marine organisms. Heat-shock response. Environmental genomics of Antarctic organisms. Molecular analyses of marine organisms. Omics technologies in environmental science

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RESEARCH INTERESTS: Genetic regulation and development of brown algae. Life cycle regulation. Sex determination. Algal genomics

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RESEARCH INTERESTS: Symbionts in marine invertebrates. Transfer of energy from the geosphere to the biosphere at hydrothermal vents and cold seeps. Ecology of chemosynthetic environments. Microbial ecology

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RESEARCH INTERESTS: Diatom functional genomics. Diatom photoreceptors, signaling pathways and function. Genome expression and light response regulation

J.M.O Fernandes, Bodø University College, Bodø, Norway

RESEARCH INTERESTS: Genetic networks controlling growth in teleosts. Fish epigenetics. Role of microRNAs (miRNAs) in animal ontogenesis. Muscle development. Antimicrobial peptides. Transcriptomics, with focus on differential miRNA expression.

J.A. Gilbert, Argonne National Laboratory, Argonne, Illinois, USA

RESEARCH INTERESTS: Microbial communities: temporal and biogeographic structure. Bioprospecting. Metagenomics. Metatranscriptomics. Bioinformatics, Microbial Ecology. Microbial metabolic dynamics

W.R. Hess, Albert-Ludwigs-Universität Freiburg, Freiburg, Germany

RESEARCH INTERESTS: Marine microbiology and functional genomics in bacteria. Transcription and RNA processing. Nuclear, mitochondrial and plastid gene expression in cyanobacteria. Systems biology approaches and methods

J.L. Olsen, Rijksuniversiteit Groningen, Haren, Netherlands

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G. Procaccini, Stazione Zoologica Anton Dohrn, Napoli, Italy

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J. Raes, Vrije Universiteit Brussel (VUB), Brussels, Belgium

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F. Raible, University of Vienna, Vienna, Austria

RESEARCH INTERESTS: Metazoan evolution. Evolution of hormones and neurosecretory brain centers in Bilateria. Regulation of reproductive cycles. Regeneration. Biology of marine annelids.

J.K. Sky Yu, Academia Sinica, Nankang, Taipei, Taiwan

RESEARCH INTERESTS: Biology of cephalochordate amphioxus. Evolutionary transition from invertebrates to vertebrates. EST resources and genome sequencing data. Expression patterns of developmental genes and functional analysis of signaling pathways. Evolutionary origin of vertebrate body plan

F. Volckaert, KU Leuven, Leuven, Belgium

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INTRODUCTION

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Reviews or mini-reviews: will be generally solicited by the Editors of the journal. However, prospective authors interested in contributing such a paper are invited to contact the Editor-in-Chief.

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Vitae

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Acknowledgements

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