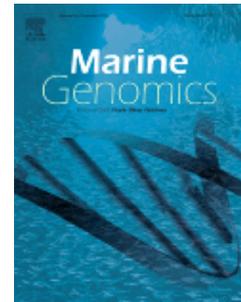




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ISSN: 1874-7787

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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RESEARCH INTERESTS: Evolutionary adaptations in macro-algae. Acclimation and adaptation to stress. Physiology. Cell-wall. Metabolic profiling and transcriptomic data. Biotechnology

J. Catchen, University of Illinois at Urbana-Champaign, Champaign, Illinois, United States
RESEARCH INTERESTS: genome evolution, comparative and population genomics, RADseq analysis, computational biology and algorithm development.

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RESEARCH INTERESTS: Evolutionary cold adaptation and cold specialization of Arctic and Antarctic fishes. Genome and transcriptome evolution in the cold. Evolvability of polar species to changing climate. Molecular and environmental physiology.

M. S. Clark, British Antarctic Survey, Cambridge, United Kingdom

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
J.M. Cock, Biological Research Station Roscoff, Roscoff, France

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

N. Dubilier, Max-Planck-Institute for Marine Microbiology, Bremen, Germany

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

A. Falciatore, Laboratory of Computational and Quantitative Biology, Paris, France

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

J.M.O Fernandes, Nord University Faculty of Biosciences and Aquaculture, 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, University of Chicago, Chicago, Illinois, United States

Microbial communities: temporal and biogeographic structure; Bioprospecting. Metagenomics; Metatranscriptomics; Bioinformatics; Microbial Ecology; Microbial metabolic dynamics

W.R. Hess, University of Freiburg, Freiburg im Breisgau, Germany

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G. Procaccini, Zoological Station Anton Dohrn, Napoli, Italy

RESEARCH INTERESTS: Functioning of pelagic and benthic systems at organismal, community and ecosystem levels. Genetics and genomics of sea grass. Molecular systematics and population genetics

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RESEARCH INTERESTS: Computational approaches for large-scale, next-generation sequencing projects. Bioinformatics. Human microbiome. Ecological communities. Metagenomics, metatranscriptomics and meta-metabolomics. Molecular eco-systems biology

F. Raible, University of Vienna, Wien, 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, 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 Association, Leuven, Belgium

Evolution at higher trophic levels; Phylogenetics, phylogenomics, population genetics, evolutionary & ecological functional genomics and metagenomics of fishes and their parasites; Connectivity and demography based on genotype, phenotype, micro-chemistry and modelling; Fisheries, aquaculture and conservation genetics

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INTRODUCTION

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