### **Special Issue**

# The Molecular Life of Diatoms: From Genes to Ecosystems

#### Message from the Guest Editor

Diatoms are the most species-rich group of algae and contribute about 20% of annual global carbon fixation. They play major roles in ocean food webs and global biogeochemical cycles. They are also a target of the biotechnology industry because of their nano-patterned silica cell wall and high lipid content. Diatoms have received increasing attention as more genomes became available and because of the development of genome-editing tools. CRISPR/Cas9 technology has made diatoms as genetically tractable as wellestablished biological model species. In this Special Issue, we will bring together diverse contributions from the field of molecular diatom research. Our community is currently experiencing a step change in understanding diatoms from genes to ecosystems. The aim of this Special Issue is to offer a forum for new scientific concepts and ideas in the form of review articles and perspectives in addition to research papers based on the application of molecular tools and genomic information to give examples of the fascinating lifestyle of diatoms and their significance for many different fields of science.

#### **Guest Editor**

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#### Deadline for manuscript submissions

closed (15 April 2020)



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