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Ciliate Genetics and Epigenetics

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Deadline for manuscript submissions:

closed (31 August 2019)

Message from the Guest Editors

Ciliates have been well-established as model organisms to investigate genetics and epigenetics. These single cell eukaryotes have two types of nuclei: germline micro- and somatic macronuclei. Some of the first epigenetic phenomena were described in these organisms, and research over the last few decades has elucidated mechanisms that underlie these phenomena. Ciliates helped pioneer the current understanding of RNA interference, both for siRNA-mediated silencing and for small RNA-directed chromatin modification and DNA rearrangements, which provide cells a powerful tool to transmit epigenetic information to sexual progeny. Progress in our understanding of molecular mechanisms came from classical genetics studies and from genomics, post-genomics and the recent advances in epigenomics technologies.

This Special Issue provides an overview on the genetics and epigenetics in ciliates and their impacts on adaptation and evolution. We invite submissions for reviews, research articles, or short-communications reporting molecular genetics and epigenomics studies of ciliate research.

We will accept manuscripts starting in September until the deadline.



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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