Special Issue

Genetic Mechanisms in Archaea

Message from the Guest Editors

Archaeal organisms have been regarded as simple prokaryotic model systems that can be used to explore the genetic mechanisms of eukaryotes. Many archaeal species have evolved unique proteins or enzymes that serve distinctive roles in chromosome organization and DNA transactions. Therefore, archaea have attracted attention from scientists in the areas of structural biology, biochemistry and genetics. The current Special Issue welcomes both original research and review articles on topics including, but not limited to, the following aspects:
(1) Dynamic of chromosome structure in archaea;
(2) Structure and function of multicomponent molecular machineries in DNA transactions;
(3) Mechanisms of transcription regulation;
(4) Regulating roles of protein post-translational modifications in chromosome structure and gene expression;
(5) DNA replication and integration of archaeal viruses;
(6) New players in regulating the archaeal cell cycle;
(7) Advanced techniques for studying DNA transactions.

Guest Editors

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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