



Genetic Mechanisms in Archaea

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Deadline for manuscript submissions:

31 March 2025

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.





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