



genes



an Open Access Journal by MDPI

Nucleic Acid Dynamics and Structure

Guest Editor:

Prof. Dr. Ishita Mukerji

Department of Molecular Biology
and Biochemistry and Molecular
Biophysics Program, Wesleyan
University, Middletown, CT
06459-0175, USA

Deadline for manuscript
submissions:

closed (1 December 2018)

Message from the Guest Editor

Recognition of nucleic acid substrates by proteins is often governed by their relative stability and local dynamics. Many nucleic acid substrates, particularly RNA-based ones adopt complex structures the stability of which are often governed by function and mediated by ligand binding as RNA riboswitches in the presence of one ligand will adopt one structure, while adopting a non-functional form in the absence of ligand. Highly sampled states are often associated with binding interactions; although conformational capture of a rarely sampled state by binding of protein or a ligand can be another mechanism for forming a functional state. We will explore relationships wherein the dynamics of the nucleic acid is an important element of adopting a functional conformation. In this Special Issue, we welcome submissions of original articles as well as reviews of any topics that consider conformational dynamics and thermodynamics related to protein and ligand binding, aptamer selection, allostery and overall function for a better understanding of nucleic acid structure and dynamics including new perspectives and interpretations as well as novel technological and theoretical findings.



mdpi.com/si/10613

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

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.

Why not consider *Genes* for your next genetics paper?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us

Genes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](#)