



Journal of Nucleic Acids

Special Issue on
**Integrative “Omics” Approaches in Genome
Regulation and Interaction**

CALL FOR PAPERS

With the advent of high-throughput assays, especially the next-generation sequencing technologies in single-nucleotide resolution, nucleic acids and their modifications have been investigated on a genome-wide scale. Integrative analyses of multiplatform large-scale data sets, including genomic, transcriptomic, and epigenomic data have become an important research area.

Integrative genomic approaches are of great value to identify functional DNA elements in *cis* and *trans*, and to address molecular phenotypes and gene regulatory machinery especially the high-throughput data. We invite authors to contribute original research articles as well as review papers that aim at computational and/or experimental studies via integrative “omics” strategies. We anticipate that such a specific topic will provide a critical insight for the scientific community to understand the power and the implication of integrative genomic approaches in gene regulatory feature and to uncover the complex interaction between functional DNA elements.

Potential topics include but are not limited to the following:

- ▶ Bioinformatics approaches, statistical models, and analytical tools for integrative omics data analysis
- ▶ Systems biology methods involved in gene-gene and gene-noncoding DNA elements interactions
- ▶ Integrated informative biological databases and resources
- ▶ Robust high-throughput techniques and assays for determining genome expression and regulation
- ▶ Noncoding RNA-integrated gene regulation and interaction
- ▶ In-depth integrative analysis of genome dysfunction in diseases
- ▶ Comparative and evolutionary genomics in gene regulation

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jna/igea/>.

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