

IUBMB Life Special issue – Call for Papers

Special issue Title: Long non-coding RNAs: sequence, structure, function and evolution

Objective of the issue

Advances in sequencing technologies have led to the discovery of many species of non-coding RNAs (ncRNAs). Long non-coding RNAs (lncRNAs) comprise a large and heterogeneous group of molecules defined as ncRNA larger than 200 nt. lncRNAs have been identified across the whole eukaryotic diversity, but most of them exhibit weak or untraceable primary sequence conservation between species. Over the last years, an increasing number of lncRNAs have been associated with various cellular and developmental functions. Yet the structure and functions of the vast majority of lncRNAs remain largely unknown.

The current Special Issue will present original research studies and reviews on aspects related to the sequence, structure and evolution of lncRNAs..

We invite investigators to submit Reviews and Research Communications for consideration in this special issue.

Guide for Authors link:

<https://iubmb.onlinelibrary.wiley.com/hub/journal/15216551/author-guidelines.html>

Timelines:

Submission deadline: 31 May 2022

Publication expected: September 2022

We invite Reviews and Research Communications for this Special Issue until 31 May 2022. For any queries, please contact our Guest Editors below:

Guest Editors

- Toni Gabaldón, Barcelona Supercomputing Center and Institute for Research in Biomedicine (toni.gabaldon@bsc.es)
- Lovorka Stojic, Barts Cancer Institute (l.stojic@qmul.ac.uk)
- Uciel Chorostecki, Barcelona Supercomputing Center and Institute for Research in Biomedicine (uciel.chorostecki@bsc.es)

List of Authors / Topics already recruited

- Federico Ariel and Martin Crespi / The long intergenic noncoding RNA ARES modulates root architecture in Arabidopsis.

- Alena Shkumatava / Genetic tools to dissect functions of long noncoding RNAs.
- Elena Rivas / Eight dubious ways to detect conserved structural RNAs (Review).
- Ruth Seal, Susan Tweedie and Elspeth Bruford / A standardised nomenclature for long non-coding RNAs
- Julia Qüesta / Epigenetic regulation mediated by lncRNAs in plants (Review).
- Vanda Gaonac'h-Lovejoy and Martin Smith / Signatures of conserved RNA structures are enriched in functional, non-protein coding regions of the human genome.
- Keith Vance and Francis Szele / Casc15 lncRNA regulates subventricular zone neurogenesis
- Riccardo Delli Ponti, Laura Broglia, Alex Armaos, Natalia Sanchez and Gian Gaetano Tartaglia / Predicting the effects of the A-to-I modification on long non-coding RNAs.
- Efe Aydin, Uciel Chorostecki and Toni Gabaldón / Structural implications of somatic mutations in long-non-coding RNAs associated to colorectal cancer
- Mauricio Reynosos, Flavio Blanco and Maria Eugenia Zanetti / Nuclear and cytoplasmic lncRNAs in roots of the Model legume *Medicago truncatula*
- Jun Yang, Reqing He, Youlin Zhu and Dong Wang / Functions of the nuclear long non-coding RNAs in plants (Review)

Submit your manuscript through the IUBMB Life ScholarOne site at

<https://mc.manuscriptcentral.com/tbmb> During the submission process you will be asked if your manuscript is for a special issue. From the dropdown menu, please select “Long non-coding RNAs”.