

Noncoding RNAs as Mediators of Inflammation: Molecular Mechanisms and Potential Clinical Applications

CALL FOR PAPERS

Noncoding RNAs (ncRNAs) are regulators of gene expression that have emerged as crucial players in various biological processes including inflammation. ncRNAs comprise a range of endogenous molecules including microRNAs (typically ~22 nucleotides in length) and long ncRNAs (lncRNAs) (typically >200 nt). Each miRNA can target hundreds of mRNAs within a given cell type, and a single mRNA is often the target of multiple miRNAs. Consequently, over half of the human transcriptome is predicted to be under miRNA regulation, embedding this posttranscriptional control pathway within nearly every biological process. Accumulating studies also highlight important roles for lncRNAs in cellular inflammation. A better understanding of the function of ncRNAs could provide new insights into the molecular basis of inflammatory pathologies and new biomarkers for disease diagnosis, prognosis, and therapy. The complex intercorrelation between chronic inflammatory diseases and dysregulation of ncRNAs levels is a topic of great interest. For example, miRNAs may serve as potential biomarkers to identify high-risk patients for appropriate and targeted therapeutics.

We here invite scientists to contribute with original research and review articles that will provide a better understanding of the role of noncoding RNAs in inflammatory-related diseases. We encourage submission of manuscripts reporting original studies at molecular, cellular, and tissue levels, including *in vitro* studies and those using animal models or cells/tissues from patients. We encourage submission of manuscripts on both basic studies and clinical studies.

Potential topics include but are not limited to the following:

- ▶ microRNAs and long noncoding RNAs as potential biomarkers for inflammatory diseases
- ▶ The roles of ncRNAs in the regulation of cytokines/chemokines production
- ▶ The functions of noncoding RNAs in acute inflammatory diseases, such as sepsis, and chronic inflammatory diseases, such as atherosclerosis, diabetes, and cancers
- ▶ Implication of ncRNAs in inflammatory signaling pathways
- ▶ microRNAs in endothelial inflammation
- ▶ Assembly and regulation of P/GW-bodies, stress granules, exosomes, and polysomes
- ▶ Noncoding RNAs as potential therapeutic targets

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

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Manuscript Due

Friday, 23 December 2016

First Round of Reviews

Friday, 17 March 2017

Publication Date

Friday, 12 May 2017