



Stem Cells International

Special Issue on
RNA Biology in Stem Cells

CALL FOR PAPERS

Over the last decade, significant attention has been focused on the role of RNA biology in eukaryotic cells, including transcriptional regulation, splicing, posttranscriptional processing, chemical modification, RNA folding and structure, and RNA-protein interaction. These processes have huge impact on regulating both normal physiological and pathological activities in eukaryotic cells. Studying RNA biology in stem cells is of particular interest, as stem cells require a tightly controlled gene regulatory network to maintain their stemness and to undergo differentiation with proper stimulations. Understanding the role of RNA biology and functions in stem cells will not only bring novel insights into the molecular mechanisms of stem cells to maintain stemness or undergo differentiation but also promote development of new methods to control and manipulate cell fate decision processes, which could have significant impact on the potential therapeutic use of stem cell technologies.

Thus, we would like to invite investigators to contribute original research articles as well as review articles that will help in understanding the function and regulation of RNAs in stem cells covering both methodology and discovery topics.

Potential topics include, but are not limited to:

- ▶ Functional studies of RNAs in embryonic stem cells or adult tissue stem cells
- ▶ Splicing and transcriptional control RNAs in stem cells
- ▶ Posttranscriptional regulation and chemical modification of RNAs in stem cell biology
- ▶ New methodology development for manipulating RNA expression and functions in stem cells
- ▶ New methodology to understand the structures and RNA-protein interactions in stem cells
- ▶ Dynamic modeling of RNA regulation in stem cells

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/sci/rnabs/>.

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