



BioMed Research International

Special Issue on
**Posttranscriptional Regulation and RNA Binding
Proteins in Cancer Biology**

CALL FOR PAPERS

In order to support tumor growth, invasion, and metastasis, cancer cells rapidly and efficiently affect the expression and the functions of their proteome through a variety of mechanism, including the regulation of posttranscriptional events, such as pre-mRNA splicing, modifications of mRNA stability and/or translational efficiency, RNA editing, and noncoding RNAs.

RNA binding proteins (RBPs) play a pivotal role in these processes and they are aberrantly expressed in several tumor types. Moreover, each RBP regulates hundreds of targets at the same time, thus leading to important consequences for cancer cell biology. A thorough understanding of the role of posttranscriptional regulation and RBPs in tumorigenesis will lead to a better comprehension of the molecular events that trigger malignant transformation and will contribute to the development of more selective and effective anticancer therapies.

We invite authors to contribute original research articles as well as review articles that will illustrate and stimulate the continuing effort to understand the implication of posttranscriptional regulation of gene expression in cancer and to exploit manipulation of the function of selected RBPs or noncoding RNAs as diagnostic/predictive biomarkers or potential targets for the development of innovative therapeutic strategies.

Potential topics include, but are not limited to:

- ▶ Recent discoveries of the roles of posttranscriptional regulation in cancer
- ▶ Functional characterization of RBPs and noncoding RNAs aberrantly expressed in tumor tissues
- ▶ Identification and functional description of new RNA targets (and regulatory elements) of RBPs involved in tumor initiation, maintenance, or the development of resistance to treatments
- ▶ Posttranscriptional regulation events and RBPs as targets in anticancer therapies
- ▶ Bioinformatics approaches to characterize the regulatory networks formed by RNA binding proteins and their target RNAs in aspects of cancer cell biology

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/molecular.biology/ptrbpcb/>.

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First Round of Reviews

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