

Special Issue on
Increasing Role of Aptamers in Cancer Diagnosis and Treatment

CALL FOR PAPERS

Specific recognition of cancer-specific antigens is central to targeted approaches to detect and eradicate cancer cells. Aptamers are playing an increasingly important role in cancer diagnosis and treatment because they can be produced chemically in large quantities and can be readily conjugated to deliver drugs, nanoparticles, or agents to promote tumor detection. The chemical diversity and malleability of aptamers present both opportunities and challenges for researchers seeking to exploit the specific recognition features of aptamers to advance our abilities to detect cancer at an earlier stage and to selectively eradicate malignant cells.

The purpose of this special issue is to publish high-quality research articles that describe novel, cutting-edge advances in the selection, chemical modification, and conjugation of aptamers as well as biological studies that demonstrate the utility of aptamers for specifically detecting malignant cells and for delivery of diverse agents to eradicate tumors.

Potential topics include but are not limited to the following:

- ▶ Aptamers: new selection methodology
- ▶ Aptamers: cancer biomarker discovery and detection
- ▶ Aptamers: tools for cancer imaging
- ▶ Aptamers: biodistribution and pharmacology
- ▶ Aptamers: tumor-specific drug delivery
- ▶ Aptamers: delivery of nucleic acids
- ▶ Aptamers: novel conjugation strategies
- ▶ Aptamers: novel nucleobase incorporation
- ▶ Aptamers: novel backbone chemistries

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

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