
Title: Nanomaterials for Cancer Theranostics

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Proposal

Functional nanomaterials have inspired revolutionary methods for cancer early diagnosis, treatment, and prevention. For instance, the imaging property of nanomaterials with high resolution and sensitivity can be used for noninvasive detection of cancer and visualization of drug transport. Meanwhile, the therapeutic property of nanomaterials with controllable fashion will increase therapy efficacy and decrease adverse side effect. Thus, compared to traditional “trial-and-error” or “one size fits all” approach, the nanomaterials which combines imaging and therapeutic functionalities, will be more suitable for cancer theranostics. For this purpose, both polymeric and inorganic nanoparticles have been widely explored. However, many of them are still in the early translational stages and need more investigate from the functional constructions to the preclinical applications. Therefore, further improvements of theranostic nanoplatforms are in high demand.

We invite authors to submit original research as well as review articles to this special issue in Journal of Cancer Research Updates. Potential topics include, but are not limited to:

1. Recent advances of nanomaterials for cancer theranostics
2. Synthesize of functional nanomaterials for cancer theranostics
3. Safety evaluation of nanomaterials
4. Nanoscale drug delivery system
5. Application of nanomaterials in theranostics

Keywords: Nanomaterials; Diagnosis; Therapy; Theranostics; Nanobiocompatibility; Nanomedicine.
