DNA damage as a strategy for anticancer therapy

Aims & Scope:

The main topic of the proposed thematic issue is the targeting the induction and repair of DNA damage by antitumor drugs to increase the efficacy of anticancer therapy. Actually all manuscripts are covering this issue - however from different points of view. In parallel the topic protection of normal cells from side effects of DNA damage based therapy will be addressed.

Keywords: Anticancer Therapy, DNA damage, antitumor drugs.

Sub topics:

1. DNA double-strand break repair: implications in genome stability and cancer therapy
2. TOPOISOMERASES AND ANTHRACYCLINES: RECENT ADVANCES AND FUTURE PROSPECTIVE IN ANTICANCER THERAPY AND IN PREVENTION OF CARDIOTOXICITY
3. Targeting the repair of DNA damage induced by antitumor drugs to increase the efficacy of anticancer therapy and protection of normal cells
4. Function of cyclin-dependent kinase 12 in cancer development
5. Targeting Nucleotide Excision Repair (NER) Pathway for Cancer Treatment: Managing an Old Friend and a New Enemy
6. Colorectal Cancer Chemotherapy: The Evolution of Treatment and New Approaches
7. Neurotoxicity and Gastrointestinal Side-Effects Associated With Platinum-Based Anti-Cancer Agents: Implications Of Copper Transporters
8. DNA damage-inducing compounds: unravelling their pleiotropic effects using high throughput sequencing and chemical biology
9. Developing a mechanistic rationale for combination/maintenance therapy approaches using platinum-based and DNA damage response—targeted agents
10. BRCA1 as a therapeutic target for anticancer metal-based chemotherapy

Submission timelines: Final manuscripts will be submitted by the end of 2016 (beginning of 2017).