



## Germ Cells and Genitourinary Cancers

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Deadline for manuscript  
submissions:

**closed (30 April 2021)**

### Message from the Guest Editors

Development of gonads (testis and ovary) is tightly regulated by the sequential expression of many genes and hormonal activity. Disturbance of this regulation by intrinsic (i.e., spontaneous genetic or epigenetic changes) or extrinsic factors (i.e., exposure to toxicants in utero) might not only prevent proper development of the gonads but also contribute to the development of germ cell tumors (GCTs). GCTs are a histologically diverse group of neoplasms with a common origin in the stem cells of the early embryo and germ line. They include the ovarian and testicular germ cell tumors that occurs in the gonads, and tumors that occur at extragonadal sites, along the route where primordial germ cells migrate during embryogenesis.

This Special Issue is to gather studies describing the development of germ cells in all their aspects, with particular interest in those describing the molecular mechanisms beyond germ cell alteration in utero and at postnatal age, which might impact cancerous development and progression. Moreover, studies about new molecular approaches for characterizing properties of GCTs and alternative strategies for their treatment are of particular interest.





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## Message from the Editor-in-Chief

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