

Special Issue on
**Fertility Preservation in Cancer: New Frontiers in
Research and Applications**

CALL FOR PAPERS

Survival rates among young cancer patients have steadily increased in recent years in part because of the development of more effective cancer treatments. Women and men can now look forward to life after cancer, yet many may face the possibility of infertility as a result of the disease itself or the necessary chemotherapy and radiotherapy treatment regimens. Many male cancer sufferers are able to freeze sperm before potentially sterilizing cancer treatment. Recent advances in techniques such as oocyte cryopreservation and ovarian tissue cryopreservation with subsequent autotransplantation or *in vitro* maturation offer new hope to female cancer survivors of having a family of their own. Emerging innovative technologies have provided a paradigm shift in our approach to fertility preservation in young cancer patients.

This special issue focuses on recent advances and state-of-the-art applications in this immensely important and rapidly expanding field. An in-depth understanding of current research will help to provide a comprehensive understanding of the effect of various cancer therapies on gamete and preimplantation development and inform readers about emerging innovative technologies in fertility preservation. This will in turn contribute to the development of safer and more effective strategies for fertility preservation in cancer patients.

We invite authors to contribute original research articles as well as review articles that explore the recent advances as well as state-of-the-art translational applications in this field.

Potential topics include but are not limited to the following:

- ▶ Effect of cancer and gonadotoxic therapies such as chemotherapy and radiotherapy on gametogenesis and on preimplantation development
- ▶ Optimizing methods for cryopreservation of oocytes and ovarian tissue
- ▶ Advances and applications in prepubertal storage of ovarian tissue and sperm
- ▶ Primordial follicle culture and applications in fertility preservation
- ▶ *In vitro* maturation of oocytes and applications in oncofertility
- ▶ Developments in *in vitro* spermatogenesis and testicular transplantation
- ▶ Challenges and advances in ovarian tissue transplantation for fertility preservation

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/developmental.biology/fpc/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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