News

A "Stem Cells in Cancer" special issue in *Translational Cancer Research*

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Somatic stem cells (SSCs), being essential in maintaining homeostasis of normal tissue, replenish dying cells and regenerate damaged tissues for organism. On the other hand, with the self-renewed ability, SSCs are ideal cellular targets to be acquired in multiple mutations transforming SSCs to cancer stem cells (CSCs) which cause malignancies and even recurrence after cancer treatment if CSCs fail to be eradicated (1).

One year after Drs. John B. Gurdon and Shinya Yamanaka shared the 2012 Nobel Prize in Physiology or Medicine for their discovery that mature cells can be reprogrammed to become pluripotent, the journal of *Translational Cancer Research* prepared a special issue for our audience in this rapidly developing, yet mysterious area with a special focus on "Stem Cells in Cancer". This special issue is guest edited by Dr. Daohong Zhou from University of Arkansas for Medical Sciences and Dr. Chuanyuan Li from Duke University Medical Center, and published on the 2013 October issue of *Translational Cancer Research*, Vol. 2, No. 3 (http://www.thetcr.org/issue/view/77).

Translational Cancer Research (*Transl Cancer Res; TCR*; Print ISSN: 2218-676X; Online ISSN 2219-6803; www.thetcr.org) is an open access, peer-reviewed bimonthly journal, which has been featuring in publishing special issues. Since its launch in June 2012, it has published five special issues, "Particle Beam Therapy I&II", "DNA Damage and Repair", "Nanotechnology in Radiation Research" and "Stem Cells in Cancer" respectively.

It is hoped that the current special issue on "Stem Cells in Cancer" will serve as a valuable resource to the cancer and stem cells research community to stimulate more in depth studies on stem cells in cancer. The outline of the issue is listed as below.

- Preface
  Daohong Zhou, University of Arkansas for Medical Sciences; *Chuanyuan Li*, Duke University Medical Center, USA
- Intestinal stem cell injury and protection during cancer therapy
  Jian Yu; University of Pittsburgh Cancer Institute Pittsburgh, USA
- Impact of the Tumor Microenvironment on Stem Cells
  Lina Wang, *Tao Cheng*, *Guoguang Zheng*; Chinese Academy of Medical Sciences and Peking Union Medical College, China
- Cancer stem cells in glioma: challenges and opportunities
  Jialiang Wang, *Yufang Ma*, *Michael Cooper*; Vanderbilt University Medical Center, USA
- Differences between human and rodent DNA-damage response in hematopoietic stem cells: at the crossroads of self-renewal, aging and leukemogenesis
  Shahar Biechonski, *Michael Milyavsky*; Tel Aviv University, Israel
- Role of p53 in regulating tissue response to radiation by mechanisms independent of apoptosis
  Chang-Lung Lee, *Jordan M. Blum*, *David G. Kirsch*; Duke University Medical Center, USA
- Molecular mechanisms of tumor response to radiotherapy
  Chuanyuan Li; Duke University, USA
- Cancer-therapy-induced hematopoietic stem cell injury
  Daohong Zhou; University of Arkansas for Medical Sciences, USA

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References

1. Zhou D, Li CY. Preface. Transl Cancer Res 2013;2:370-1.

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