Special Issue

Organ Specificity in DNA Repair/DDR in Solid Cancers

Message from the Guest Editors

There is ample evidence for the essential involvement of DNA repair and DNA damage response (DDR) in the onset and progression of solid cancer malignancies. Among effector pathways of DDR, genomic alterations in DNA repair genes represent substantial changes underlying the genetics of many solid cancers (e.g., breast, ovarian, and colorectal cancer). Regarding the role of DDR in ensuring genomic stability in cells within organisms and in preventing cancer, several questions need to be addressed. Is aging indeed related to a decrease in DNA repair capacity, whereas the proliferative activity of cells is also diminished? Are there differences in DNA repair/DDR in individual organs/tissues, and if so, are these differences associated with cellular turnover? Does the kinetics of DNA repair/DDR affect the critical site of tumor onset? The aim of this Special Issue is to address the pivotal role of DDR in essential biological processes, such as malignant transformation or degenerative diseases. Another goal is to survey currently existing data on solid cancer onset, prognosis, and treatment efficacy.

Guest Editors

Dr. Ludmila Vodičková

1. Institute of Experimental Medicine of the Academy of Sciences of the Czech Republic, Department of Molecular Biology of Cancer, Prague, Czech Republic
2. Biomedical Center, Faculty of Medicine in Pilsen, Charles University, Pilsen, Czech Republic
3. First Faculty of Medicine, Charles University, Prague, Czech Republic

Dr. Pavel Vodička

1. Department of Molecular Biology of Cancer, Institute of Experimental Medicine of the Academy of Sciences of the Czech Republic, Prague, Czech Republic
2. Biomedical Center, Faculty of Medicine in Pilsen, Charles University, Pilsen, Czech Republic
3. First Faculty of Medicine, Charles University, Prague, Czech Republic

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

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