

## Special Issue

# Functional Role of BRCA 1 and 2 in Tissue Maintenance and Neoplasia

### Message from the Guest Editor

Breast cancer 1 and 2 susceptibility genes (BRCA1 and BRCA2) are important tumor suppressor genes that have a major impact on the mechanisms of genome protection. Their proteins are important caretakers in cells and tissue maintenance through their role in error-free DNA repair through homologous recombination. Mutations in BRCA1 and BRCA2 are known to predispose and cause breast cancer and other forms of cancer such as ovarian, pancreas and prostate cancer. These mutations can be both somatic and hereditary (germline), which affect individuals and families and induce a high incidence of certain cancer types, including breast cancer. This Special Issue will highlight the recent advances in BRCA1 and BRCA2 cancer research, focusing on both somatic and germline mutations, the transcription regulation of BRCA proteins and their functional role within distinct subtypes of breast and other cancer types in tissue maintenance and stem cell biology. We welcome the submission of reviews, perspectives, short communications, and research articles.

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### Guest Editor

Prof. Dr. Thorarinn Gudjonsson

Stem Cell Research Unit, Biomedical Center, Department of Laboratory Hematology, University of Iceland and Landspítali University Hospital, Reykjavik, Iceland

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### Deadline for manuscript submissions

closed (20 July 2020)

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## Genes

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### Message from the Editor-in-Chief

*Genes* is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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### Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan  
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