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# **Advances in the Molecular Basis of BRCA-Associated Cancers**

Guest Editor:

### Dr. Valentina Silvestri

Department of Molecular Medicine, Sapienza University of Rome, 00161 Rome, Italy

Deadline for manuscript submissions:

closed (22 December 2021)

# Message from the Guest Editor

Dear Colleagues,

BRCA1 and BRCA2 (BRCA) are tumor suppressor genes, encoding proteins involved in homologous recombination DNA repair pathways. Inherited mutations in BRCA genes are well known for their predisposition to the hereditary breast and ovarian cancer syndrome in women, but they have also been observed in association with additional types of cancers, including male breast, prostate, pancreatic, and melanoma.

To date, key clinical improvements have been derived from the identification of peculiar tumor molecular subtypes associated with *BRCA* mutational status, e.g., triplenegative breast cancers, which are characterized by their aggressive behavior.

This Special Issue will focus on the molecular biology of *BRCA* genes, the functional evaluation of *BRCA* variants, genotype–phenotype correlations, the molecular profiling of *BRCA*-associated tumors, *BRCA* interactors in DNA repair, synthetic lethality, and other possible therapeutic mechanisms. Original research articles, reviews, and short communications related to these topics are welcomed.

Dr. Valentina Silvestri Guest Editor



**Special**sue









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## **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

# Message from the Editor-in-Chief

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