Special Issue

Molecular Mechanisms of the Polycomb Repressive Complex 2 (PRC2) and Its Role in Human Cancer

Message from the Guest Editor

Polycomb repressive complex 2 (PRC2) is a conserved protein complex in multicellular organisms. It plays fundamental roles during developmental processes and has been implicated in many human diseases, such as cancer. PRC2 functions as a transcriptional repressor by depositing the repressive H3K27me3 mark. The precise functions of PRC2 in physiological and pathophysiological contexts remain incompletely understood. Components of the PRC2 core, but also many PRC2-associated proteins, such as PHF19, MTF2, JARID2 and EPOP, are commonly dysregulated in cancer, and play a role in various cancer types. A better understanding of their mechanistic functions will be essential to elucidate how they contribute to cancerogenesis. This Special Issue entitled, “Molecular Mechanisms of the Polycomb Repressive Complex 2 (PRC2) and Its Role in Human Cancer”, aims to provide a comprehensive overview of the most recent advances in this timely topic and a preview of future research directions and challenges to PRC2 and its role in human cancer.

Guest Editor

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