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NF- κ B in Stem Cells and the Nervous System: From Embryonal Development to Adulthood

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Message from the Guest Editor

Dear Colleagues,

Nuclear factor kappa B (NF- κ B) is an inducible transcription factor discovered nearly thirty years ago in the lab of David Baltimore. Since then, NF- κ B has been found to play key functions in development, inflammation, cell proliferation, the immune system, as well as in the nervous system.

As a novel topic in recent years, the role of NF- κ B in stem cells has been investigated. This research included embryonic stem cells and their laboratory-made counterparts (induced pluripotent stem cells) followed by tissue resident adult stem cells. The aim of this Special Issue is to review the contribution of NF- κ B from the inner cell mass of the blastula (embryonic stem cells) to the development of the neural crest and the nervous system.

Discussions of human and animal model systems are very welcome.

Prof. Dr. Barbara Kaltschmidt

Guest Editor



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Special Issue



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