Special Issue

Novel In Vitro and In Silico Approaches to Study Developmental Neurotoxicity

Message from the Guest Editor

There are sufficient shreds of evidence that increased exposure to environmental contaminants plays a substantial role in the increase in developmental diseases. Due to the complexity of the brain, this organ ishighly vulnerable to toxic insult. Current developmental neurotoxicity (DNT) testing guidelines present high cost and are very time consuming, generating a lack of information and knowledge concerning new chemicals reaching the market. DNT experts have suggested changing/updating current testing guidelines with a comprehensive in vitro DNT strategy, consisting of a test battery that recapitulates key events during brain development. A DNT screening program has been developed under EFSA, the JRC, the US EPA, and the OECD to develop a complete DNT testing battery that could replace the actual guidelines OECD TG 426 or OECD TG 443. The special issue aims to cover original research and reviews focused on new advances in in vitro and in silico neurotoxicity testing strategies and models which in the future could be used or further adapt for developmental neurotoxicology studies.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

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