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Novel In Vitro and In Silico Approaches to Study Developmental Neurotoxicity

Guest Editor:

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Message from the Guest Editor

There are sufficient shreds of evidence that increased exposure to environmental contaminants 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.













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Editor-in-Chief

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Message from the Editor-in-Chief

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