

## WAN NORHAMIDAH WAN IBRAHIM

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#### EXPERTISE

Development Neurotoxicology

Dr Wan Norhamidah Wan Ibrahim is Senior Lecturer at the Department of Biology, Faculty of Science, UPM. Her primary research interests are the neurotoxicological effects of embryonic exposure to low concentrations of environmental pollutants such as heavy metals, pesticides and nanomaterials on the developing nervous system. Her approach involves in vivo experiments on the zebrafish and in vitro experiments using human neuroblastoma cells, SHSY5Y. She conducted studies to understand the mechanisms of the neuro-toxicity of the different types of environmental pollutants at the behavioral, cellular and molecular levels using different research techniques such as immunocytochemistry, immunohistochemistry and gene expression. Also, she is keenly interested to establish different types of neurobehavioral testing batteries, both auto-mated and manual to assess behavioral alterations in the larvae and adult fish. Her studies are funded by FRGS-TRANS DISCIPLINARY and Universiti Putra Malaysia GRANT (IPM).

#### CURRENT RESEARCH INTEREST:

- Investigating the effects of mercury, arsenic, endosulphan and ethanol on the anxiety related behaviors in the zebrafish, Medaka fish and neuroblastoma cells.
- Developing a high throughput behavioral assessment, in particular anxiety related behavior for the zebrafish lar-vae.

#### LINK TO POSTGRADUATE FIELD OF STUDY:

#### ADDITIONAL INFORMATION: