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The role of zebrafish larvae for studying anxiety-like behaviour

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Curriculum vitae

Yuvendran Muniandy was born on 20th April 1984 in Kuala Lumpur, Malaysia. After finishing his primary and secondary education in his hometown, Sungai Petani (literally translated as farmer's river), he pursued a Bachelor's degree in Biotechnology at Universiti Malaysia Sabah. He continued his Masters in Forensic Science degree at Universiti Teknologi Malaysia. During his Master's degree, he investigated grouping patterns of illegally trafficked cannabis samples. Prior to his arrival in the Netherlands, Yuvendran worked in a pharmaceutical company involved in large scale manufacturing of investigational medicinal products (IMPs) for osteoarthritis.

In 2013, Yuvendran was awarded a scholarship by Human Life Advancement Foundation (HLAF) to pursue his ambition to get a doctoral degree in the Netherlands. In October 2014, he started his Ph.D. at Institute of Biology, Leiden University (IBL). His Ph.D. thesis is a collaborative work between two clusters of IBL, the animal science health cluster and the plant sciences and natural products cluster. There, he worked under the supervision of prof. dr. M.K Richardson and assoc. prof. dr. Y.H Choi. During his PhD, he unravelled the role of zebrafish larvae for studying anxiety-like behaviour. He also investigated developmental toxicity of different synthetic and herbal-based psychotropic drugs on zebrafish embryos and larvae. The results of these works are presented in this thesis.

Yuvendran has a great interest in establishing scientific communication with experts and key opinion leaders (KOLs) in the field of psychopharmacology. He is passionate about embarking a scientific career in the pharmaceutical industry as a scientific/ medical writer. In addition to life science, Yuvendran also has interests in philosophy, theology, and astronomy.

List of Publication/ Manuscripts

The Use of Larval Zebrafish (*Danio rerio*) Model for Identifying New Anxiolytic Drugs from Herbal Medicine.

Muniandy Y., *Zebrafish*, 15(4): 321–339. DOI: 10.1089/zeb.2018.1562.

Chronic treatment with serotonergic psychotropic drugs causes locomotor suppression and toxicity in 5-day zebrafish larvae.

Muniandy Y., Richardson M.K.

Manuscript in preparation.

Serotonin toxicity like phenotypes in zebrafish larvae – chronic treatment with serotonergic psychotropic drugs fails to attenuate thigmotaxis.

Muniandy Y., Nühn E., van Duijvenvoorde N., Richardson M.K., Tudroache C.

Manuscript in preparation.

Evidence for developmental toxicity in zebrafish embryos and larvae after treatment with synthetic and herbal based psychotropic drugs.

Muniandy Y., H.M.I Kerkkamp., Nühn E., van Duijvenvoorde N., Richardson M.K.

Manuscript in preparation.