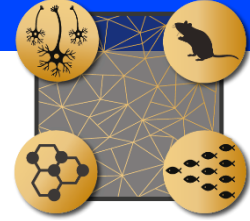




Zenith

INTERNATIONAL PHD PROGRAM IN NEUROSCIENCE

In collaboration with SmartNets



WEDNESDAY, 7 SEPTEMBER 2022
AT 10:00 AM (CEST)

CAROLINE WEE

**INSTITUTE OF MOLECULAR AND CELL
BIOLOGY
AGENCY FOR SCIENCE, TECHNOLOGY AND
RESEARCH (A*STAR)
PROTEOS, SINGAPORE**



ZENITH SEMINARS

LARVAL ZEBRAFISH AS A MODEL FOR APPETITE CONTROL AND BEYOND: FROM ENDOPHENOTYPES TO MECHANISMS

In this talk I will first summarize why and how I believe larval zebrafish is a good model for human biology and behaviour, highlighting the concept of endophenotypes and its potential in helping us understand complex disorders. Next, focusing on appetite-related endophenotypes, I will demonstrate how the larval zebrafish model can be used to elucidate conserved biological mechanisms and principles, especially with the introduction of new tools and methodologies. Finally, I will end with some lessons I learnt from my PhD journey which I hope will help students to thrive in theirs.

Caroline Wee received her Bachelor's degree in Biological Sciences and Psychology from Cornell University, and her PhD in Neurobiology from Harvard University (2016), under Professor Florian Engert. After a brief post-doctoral stint in her PhD lab, she returned to Singapore in 2018 to conduct independent research on zebrafish appetite control, and was promoted to Principal Investigator in 2021. Her current research focuses on leveraging the larval zebrafish model to develop a holistic understanding of brain-body interactions underlying feeding decisions and other motivated behaviors. Caroline has won several competitive fellowships and grants, including the National Medical Research Council Young Individual Research Grant (2020) and National Research Foundation Fellowship (Class of 2021). She is also a lead Principal Investigator under A*STAR's Brain-Body Initiative.

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