

CSCB Hybrid Seminar Series

Can We Make Flies Immortal: Modeling Aging and Age Related Disease in Drosophila?

Date: 25th April 2022 (Monday)

Time: 12noon-1pm (SGT)

Venue: *via Zoom & In-person*

For details, please contact:

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Abstract:

Why biological age is a major risk factor for many of the most important human diseases remains poorly understood. We know that, as organisms age, stem cell pools are exhausted while senescent cells progressively accumulate. I will discuss how induction of pluripotency via expression of Yamanaka factors and clearance of senescent cells can ameliorate aspects of cellular and physiological aging, and how combination therapies work to extend lifespan and healthspan.

Speaker:



Dr. Nicholas Stanislaw Tolwinski

Associate Professor

Yale-NUS College

Dr. Nicholas Tolwinski is an Associate Professor at Yale-NUS. He received a PhD from Princeton University in Molecular Biology in 2004. After completing his PhD, he became the first Frank A. Howard Scholar in the Developmental Biology at Memorial Sloan-Kettering Cancer Center. His laboratory specializes in analyzing the early embryonic development of *Drosophila*. His research focuses on modeling systems of signal transduction organizing groups of cells into tissues, and what goes wrong with these processes leading to cancers. The laboratory's primary focus is on Wnt signaling in development and aging.

Host:

David Virshup

Professor & Director

Programme in Cancer & Stem Cell Biology

Duke-NUS Medical School

Singapore

**No registration is required
for attendance via Zoom.
All are welcome.**