Singapore Immunology Network
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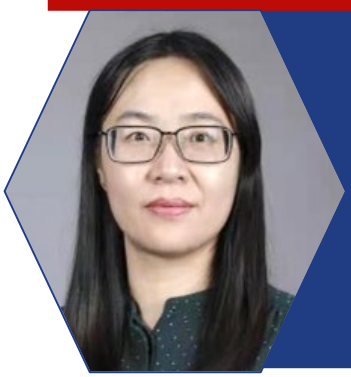
SIgN SEMINAR

Hosted by Dr Melissa NG



Prof Yiyue ZHANG

Professor & Deputy Dean
School of Medicine
South China University of Technology

Deciphering Granulopoiesis in Zebrafish

Granulopoiesis is the process of generation and differentiation of granulocytes, serving as a critical component of the body's immune system. While the developmental process and regulatory mechanisms of granulopoiesis have been extensively studied in mammals, many details remain unclear, particularly at the molecular level and in the precise regulation in the early developmental stages, presenting knowledge gaps that require in-depth exploration. As an ideal model organism, the zebrafish possesses unique advantages such as high fecundity, external embryonic development, and high visualizability, providing an unprecedented visual platform for granulopoiesis research. Leveraging these characteristics of zebrafish combined with genetic approaches, Prof Zhang & her team aim to systematically dissect the granulocyte differentiation lineages, key regulatory pathways, cell migration patterns, and their functions in immune responses. Specifically, they seek to understand the similarities and differences in the developmental regulation and functional modulation between two major granulocyte subsets, neutrophils and eosinophils, thereby providing new insights into the mechanisms of granulopoiesis.

12 January 2026 (Monday)
10 – 11 AM (Singapore Time)
SIgN Seminar Room
8A Biomedical Grove, Immunos, #04-06
Singapore 138648

Seminar is open for all to attend.

Registration is not required.