

# TOPICAL Seminar

Date: 3 July  
Time: 13.00-14.00  
Venue: 1871-120



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## Technologies to capture mammalian developmental cell trajectories

Biological studies often require destroying samples to observe molecular and cellular details, which hampers our understanding of the dynamic progression of complex systems such as mammalian development. To overcome this, my group is developing three complementary approaches: (1) an intracellular video-camera-like system, (2) a “time-reversing” system of cells, and (3) a high-performance computing system to co-embed extremely large single-cell genomics data. I will share our current progress in these areas.

Nozomu Yachie is Professor and Director of Research at the University of British Columbia's School of Biomedical Engineering and Specially Appointed Professor at the University of Osaka's Premium Research Institute for Human Metaverse Medicine (PRIME).

Host is Taro Kitazawa, DANDRITE Group Leader