

# Prof. Angela Ruohao Wu Seminar

September 20 14:00- 15:30, In Person Event

Venue: RIKEN Wako campus (Okochi Hall, C32 in the map)

<https://www.riken.jp/en/access/wako-map/index.html>

**Speaker: Prof. Angela Ruohao Wu**, Associate Professor, the Hong Kong University of Science and Technology (<https://life-sci.hkust.edu.hk/team/angela-ruohao-wu/>)

**Title: Genomics and microfluidics technology for life sciences research**

Recent advancements in engineering technologies have spurred a movement toward more quantitative approaches to biology. The ability to make quantitative measurements of biological systems has enabled a higher resolution and more nuanced view at every level, from organismal level organization down to cellular level molecular processes. High-throughput DNA sequencing and the rapidly evolving field of genomics are prominent examples of how such technologies can revolutionize biology and medicine. In this seminar, I will talk about how technologies such as single-cell genomics and microfluidics have empowered life science research. In particular, I will talk about our latest single-cell multi-omic method called scONE-seq, which has allowed us to dissect the complex heterogeneity of a glioma tumor and identify a rare clone with a potential role in regulating tumor microenvironment.

## Biography

Angela Ruohao Wu is an associate professor at the Hong Kong University of Science and Technology. She is one of the earliest scientists to work in single cell genomics, and she pioneered the field of microfluidic chromatin immunoprecipitation (ChIP). Her current research focuses on using genomics and microfluidics to address complex biological questions, as well as applying genomics in the clinic. Angela's interdisciplinary work has been recognized for bridging important gaps between microfluidics and biology; she was named one of MIT Technology Review Innovators under 35 Asia; a World Economic Forum Young Scientist, and an Outstanding Young Faculty by IEEE EMBS (Micro and Nanotechnology in Medicine). Angela was also the co-founder of Agenovir, a genome editing-based antiviral therapeutics company.



Registration for Zoom attendees: [https://riken-jp.zoom.us/webinar/register/WN\\_KUtnb8mjR1mNigeKZIWIpQ](https://riken-jp.zoom.us/webinar/register/WN_KUtnb8mjR1mNigeKZIWIpQ)

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