Mass cytometry (MC) is a platform that enable researchers to perform comprehensive profiling of cell phenotypes and signalling pathways. Using antibodies tagged with stable metal isotopes of defined mass to stain cells in suspension, we could routinely measure up to 50-plus different markers simultaneously at single cell resolution in a single tube. This enables a comprehensive system level study which is crucial to dissect the heterogeneity of various biological systems or uncovering new cell types.

Imaging Mass Cytometry (IMC), on the other hand, is an expansion of mass cytometry which allows highly multiplexed imaging of up to 37 protein markers simultaneously in a single scan. Spatial information on cellular phenotypes, functions and interactions could be obtained from FFPE or frozen tissue sections at subcellular resolution with IMC. This spatial information on how multiple network cells communicate with each other with internal and external inputs is the key to understanding various diseases.

The capabilities of both platforms in various fields of research will be discussed here.

**Demo experiment is available upon request**
*(Registration Required)*

**To reserve hands-on practice, please contact:**

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