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# Using Mass Cytometry to Dissect Underlying Immune Patterns across Human Disease

Fluidigm Greater Asia Seminar Series featuring APAC Guest Speakers

## Abstract

Mass cytometry, or Cytometry by Time-Of-Flight (CyTOF), is a powerful platform for high-dimensional single-cell analysis of the immune system. It enables the simultaneous measurement of over 40 markers on individual cells through the use of monoclonal antibodies conjugated to rare-earth heavy metal isotopes. This talk will focus on the potential of mass cytometry to unravel phenotypic and functional features of multiple immune cell populations for simultaneous assessment, tying these patterns to underlying health and disease.

This presentation explores the underlying heterogeneity of immune patterns, with vignettes featuring analysis of athletes, burn survivors, and patients undergoing treatment for bone marrow transplantation and various cancers.

Live discussion and Q&A following presentation.

## When:

**Wed, 21 Oct 2020**

1:30 PM AEST

11:30 AM SGT

## Location:

GoToWebinar

## Presenter:



### **Dr. Helen McGuire**

Senior Research Fellow  
Ramaciotti Facility for Human Systems Biology,  
Discipline of Pathology,  
*The University of Sydney*  
NSW Councillor,  
*Australian and New Zealand Society for Immunology (ASI)*  
2020/2021 President  
*Australasian Cytometry Society (ACS)*

## Register at

<https://attendee.gotowebinar.com/register/1931956689354267407>

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## Dr. Helen McGuire

Senior Research Fellow

Ramaciotti Facility for Human Systems Biology, Discipline of Pathology, *The University of Sydney*

NSW Councilor, *Australian and New Zealand Society for Immunology (ASI)*

2020/2021 President *Australasian Cytometry Society (ACS)*

### When:

**Wed, 21 Oct 2020**

3:30 PM NZT, 1:30 PM AEST, 12:30 PM Japan / Korea ST, 11:30 AM SGT, HK, Taipei, 10:30 AM ICT, 9:00 AM IST

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