

# CYTO 2012

International Society for Advancement of Cytometry



Dr Dayong Jin has been a successful recipient for the ARC APD fellowship (2010 – 2012), ARC International Collaboration Award (2010 – 2012), Macquarie University Research Fellowship (2008 – 2010), International Society for Advancement of Cytometry (ISAC) Scholar (2007 – 2012) and the recent Macquarie Early Career Researcher of the Year 2010 Award. Dr. Jin has been establishing and directing an internationally-oriented group “Advanced Cytometry Laboratories @ Macquarie” to network towards bio-sensing limits. The team has been focusing on lanthanide complex bioprobes, micro- and nano- scale luminescent particles, and temporal discrimination strategies for advanced cytometry. These will bring in advanced diagnostics with ultra sensitivity and multiplexing capacity for the accelerated biotechnology and future medicine. Dr. Jin has developed a practical time-gated luminescence flow cytometer for rapid detection of pathogens. He made important contributions to the areas of lanthanide bioprobes, microsecond-long-lifetime nanoparticles as well as background-free time-gated imaging. His ARC Fellowship is focussed on novel temporal coding and decoding in suspension arrays for accelerated biomolecular discovery and personalised medicine. This project will demonstrate biosensing at ultrahigh level of multiplexing. Dr. Jin publishes over 30 papers on a broad range of journals such as, Analytical Chemistry, Cytometry, Advanced Materials, J of Biomedical Optics, J of Biophotonics, Chem Comm, Bioconjugate Chemistry, Langmuir, J of Fluorescence, and TALANTA.