



International Society for Advancement of Cytometry

Dr. Nolan is the Rachford and Carlota A. Harris Professor in the Department of Microbiology and Immunology at Stanford University School of Medicine. He has published over 150 articles and is the holder of 17 US patents, and has been honored as one of the top 25 inventors at Stanford University. He trained from Leonard Herzenberg (for his Ph.D.) and Nobel Prize winner Dr. David Baltimore (for postdoctoral work for the first cloning/characterization of NF- κ B p65/RelA). Dr. Nolan was the founder of Rigel Inc. (NASDAQ: RIGL), and Nodality, Inc., a diagnostics development company and serves on the Boards of Directors of several companies, as well as consults for biotechnology companies. He is an outspoken proponent of translating public investment in basic research to serve the public good. His areas of research include hematopoiesis, cancer and leukemia, autoimmunity and inflammation, and computational approaches for network and systems immunology. Dr. Nolan's most recent efforts are focused on a flow cytometry advance using a mass spectrometry-flow cytometry hybrid device. The approach uses an advanced ion plasma source to determine the levels of tagged reagents bound to cells – enabling a vast increase in the number of parameters that can be measured per cell. His laboratory has already begun a large scale mapping of the hematopoietic hierarchy in healthy human bone marrow at an unprecedented level of detail. Dr. Nolan's efforts are to enable a deeper understanding not only of normal immune function, but also detailed substructures of leukemias and lymphomas in a manner never before seen – which will enable wholly new approaches to managing disease and clinical outcomes.