

J. Paul Robinson, PhD - Biosketch



J. Paul Robinson is a Distinguished Professor of Cytometry in the College of Veterinary Medicine and a professor of biomedical engineering in the Weldon School of Biomedical Engineering at Purdue University. He received his Ph.D. in Immunopathology from the University of New South Wales, Sydney, Australia. He completed a postdoctoral fellowship at the University of Michigan Medical School. He is currently the director of the Purdue University Cytometry Laboratories at Purdue University.

He is a past President of the *International Society for Advancement of Cytometry*, is the *Editor-in-Chief* of *Current Protocols in Cytometry*, and Associate Editor of *Histochemica et Cytobiologica*. He is an active researcher with over 200 peer reviewed publications, 35 book chapters, has edited 10 books and has given over 150 international lectures and

taught advanced courses in over a dozen countries and made over 400 conference presentations. Robinson was an early adopter of web-based educational materials by publishing one of the first known published web-based-CDROM in April 1996 and since published 14 CD-ROMs or DVDs with a total distribution of around 100,000 copies all distributed free of charge. He was elected to the College of Fellows, American Institute for Medical & Biological Engineering (AIMBE) in 2004, received the Pfizer Award for Innovative Research in 2004 and the Gamma Sigma Delta Award of Merit Research in 2002. He has participated in numerous NIH, NSF and private foundation review boards. He has given a large number of talks and presentations to student groups and community service organizations. He is also the past chair of the Purdue University Senate.

His research area has been focused on reactive oxygen species primarily in neutrophils and cell lines such as HL-60 cells where he has developed high throughput functional approaches to cell analysis related to mitochondrial function as a measure of drug toxicity. He is also interested in automated diagnostics focused on blood cell phenotypic analysis using data mining processes integrated with real-time multiparameter analysis. In addition he is engaged in developing translational tools for better diagnostics for cervical cancer. Over the past several years, his group has expanded their interest in bioengineering with hardware and software groups developing innovative technologies such as spectral flow cytometry (US Patent #7280204 (currently commercialized by two companies), optical tools for quantitative fluorescence measurement and advanced classification approaches for clinical diagnostics and bacterial classification, and high content, high throughput screening technologies. Prof. Robinson started a *not-for-profit* charity, "Cytometry for Life" (C4L) with the goal of focusing attention on the need for low cost CD4 technology to those nations most in need of these tools (<http://www.cytometryforlife.org>). C4L has expanded its goals into science education & training.

One effort toward bringing attention to the issue of low cost CD4 climb Mt. Everest. He successfully summited Everest on May 23, 2009 (<http://www.cyto.purdue.edu/trackpaul/>) in his bid to raise awareness of the major issues facing those who are HIV positive. The lack of low cost diagnostic tools has been an important focus of his laboratory activity over recent years.