

## J. Paul Robinson, PhD - Biosketch



J. Paul Robinson is the SVM Professor of Cytoomics 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*, Associate Editor of *Histochemica et Cytobiologica*, and Associate Editor of *Cytometry Part A*. He is an active researcher with over 155 peer reviewed publications, 29 book chapters, has edited 9 books and has given over 120 international lectures and taught advanced courses in

over a dozen countries and made over 350 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 immediate 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. His lab is currently focused on mitochondrial function. 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 hyperspectral cytometry using multiarray PMTs (currently commercialized by Sony), optical tools for quantitative fluorescence measurement and advanced classification approaches for clinical diagnostics and bacterial classification, and high content, high throughput screening technologies. Robinson started a *not-for-profit* charity, "*Cytometry for Life*" 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>).

One effort toward bringing attention to the issue of low cost CD4 was to go to Nepal and climb Mt. Everest. He successfully summited Everest on May 23, 2009, at 9:31am (<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.