

## Biosketch - J. Paul Robinson, PhD



J. Paul Robinson is the SVM Professor of Cytomics in the School of Veterinary Medicine and a professor 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 and Deputy Director for Cytomics and Imaging in the Bindley Biosciences Center.

He is the President of the *International Society for Analytical Cytology* and is the Editor-in-Chief of *Current Protocols in Cytometry*. He is an active researcher with over 110 peer reviewed publications, 20 book chapters, has edited 7 books and has given over 80 international lectures and taught advanced courses in over a dozen countries. Dr. Robinson was one of the first scientists to

engage the internet when he established the PUCL public website in December 1993, undoubtedly one of the first sites at Purdue University and one of the first science based websites anywhere. It became the foundation site for his field with over 10 million hits per year to the current day. Based on the same technology, he was the first person to utilize web based educational materials by publishing the first identified published web-CDROM in April 1996. With over a dozen published CD-ROMs with a total distribution of 70,000 discs he was a leader in demonstrating the power of this technology in the field of science. He was elected to the College of Fellows, *American Institute for Medical and Biological Engineering* in 2004, was the winner of the Pfizer Award for Innovative Research, 2004 and the *Gamma Sigma Delta* Award of Merit Research in 2002. He sits on the NIH Microscopy Study section & has participated in numerous NIH and NSF study sections.

His research area has focused on reactive oxygen species primarily in neutrophils, but more recently in HL-60 cells and other cell lines. His lab is currently studying the biochemical pathways of apoptosis as related to reactive oxygen species in mitochondria. Over the past several years, his group has expanded their interest in bioengineering with hardware and software groups developing innovative technologies such as the first high-speed multispectral cytometry, optical tools for quantitative fluorescence measurement and advanced classification approaches for clinical diagnostics and bacterial classification. His lab specializes in multidisciplinary research projects and this is reflected in backgrounds of his 50 PHD and MS students of which 19 were in engineering.

A recent activity of Dr. Robinson was the creation of a new foundation, "*Cytometry for Life*" with the goal of providing low cost CD4 technology to those nations most in need of these tools, initially focusing on countries in Africa. The Foundation activities include creation of appropriate technology, education and training in AIDS related activities.

<http://www.cytometryforlife.org>