

Kirkwood M. Land, Ph.D.

Kirkwood Land has been an Assistant Professor in the Department of Biological Sciences since 2003. During this time, he has set-up a laboratory studying basic biology of the protist *Trichomonas*. He completed his Ph.D. degree in the laboratory of Dr. Patricia Johnson at UCLA studying the genetics of drug resistance in *Trichomonas*. He pursued postdoctoral work in the laboratory of Dr. James McKerrow at UCSF examining the role of cysteine proteases in the biology of *Trichomonas*. Dr. Land's interests are in the biology of trichomonad protozoa, with special emphasis on genetics and enzymology. He has published extensively on the subject, and helped to develop some of the genetic technologies used to study the biology of these organisms.

Professional Preparation

<u>Institution</u>	<u>Degree</u>	<u>Degree (Year)</u>
University of California, Davis	Microbiology	B.S. 1992
University of California, Riverside	Biology	M.A. 1995
University of California, Los Angeles	Microbiology and Immunology	Ph.D. 2001

Appointments

2004-present	Assistant Professor (tenure-track) Department of Biological Sciences University of the Pacific (UOP) Stockton, CA 95211
2003-2004	Visiting Assistant Professor Department of Biological Sciences University of the Pacific (UOP) Stockton, CA 95211
2001-2003	Giannini Family Foundation Postdoctoral Fellow Sandler Center for Basic Research in Parasitic Diseases University of California, San Francisco

PUBLICATIONS

LAND, K.M., Delgadillo, M.G., Vanacova, S., Tachezy, J., Hsieh, C.L. and Johnson, P.J. (2004) Targeted gene replacement of a ferredoxin gene in *Trichomonas vaginalis* does not lead to metronidazole resistance *Molecular Microbiology* 51(1):115-22

LAND, K.M. (2003) The mosquito genome: perspectives and possibilities. *Trends Parasitology* 19(3):103-5.

LAND, K.M., Delgadillo, M.G., and Johnson, P.J. (2002) *In vivo* expression and targeting of ferredoxin to the hydrogenosome of drug resistant trichomonads increases susceptibility to metronidazole *Molecular and Biochemical Parasitology* 121:153-157.

LAND, K.M., Clemens, D.L. and Johnson, P.J. (2001) Loss of Multiple Hydrogenosomal Proteins Associated with Organelle Metabolism and High Level Drug Resistance in Trichomonads *Experimental Parasitology* 97, 102-111.

LAND, K.M. and Johnson, P.J. (1997) Molecular Mechanisms Underlying Metronidazole Resistance in Trichomonads. *Experimental Parasitology* 87(3):305-8.

LAND, K.M.,and Johnson, P.J.. (1999) Molecular Basis of Metronidazole Resistance in Pathogenic Bacteria and Protozoa. *Drug Resistance Updates* 2(5)289-294.

D. Synergistic Activities and Honors:

2003-present Develop coursework in parasitology, medical microbiology, microbiology, molecular microbiology, and general biology.

2002-2005 Giannini Family Foundation Postdoctoral Fellowship in Medical Research

2000-2001 Chancellor's Dissertation Year Fellowship, UCLA

1997-2000 NIH Predoctoral Training Grant in Microbial Pathogenesis, UCLA

E. Other Affiliations:

Graduate and Postdoctoral Advisors

Dr. James H. McKerrow

University of California, San Francisco

Dr. Patricia J. Johnson

University of California, Los Angeles