

BIOGRAPHICAL SKETCH

NAME Kevin Michael Brown		POSITION TITLE Graduate Research Assistant	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Oklahoma Christian University	B.S.	2007	Biology
University of Oklahoma Health Sciences Center	Ph.D. (expected)	2008-	Microbiology/Immunology

Positions and Employment

2008- Graduate Research Assistant, Microbiology and Immunology, University of Oklahoma Health Sciences Center.

2007-2008 Research Technician, Pharmaceutical Sciences, College of Pharmacy, University of Oklahoma Health Sciences Center.

2006 Undergraduate Research Assistant, Oklahoma Christian University.

Honors and Awards

2012 Molecular Parasitology Meeting, PLoS Pathogens Talk Award

2012 OU Vision Workshop, Robert E. Anderson Award, Best Talk (Travel Award)

2011 American Uveitis Society Travel Award

2010 OU Vision Workshop, Robert E. Anderson Award, Best Talk (Travel Award)

2008-2009 OUHSC Graduate Program in Biomedical Sciences Scholar Award (Travel Award)

Peer-reviewed publications

- Brown, K.M.**, Suvorova, E., Farrell, A., Gubbels, M.J., Marth, G., White, M., and Blader, I.J. Inhibition of *Toxoplasma* MAPK1 by SB505124 Promotes Tissue Cyst Formation By Altering Cell Cycle Progression. *Manuscript in Prep*.
- Xu, Yuechi, **Brown, K.M.**, Wang, Z.A., van der Wel, H., Teygong, C., Zhang, D., Blader, I.J., and West, C.M. *Toxoplasma* Skp1 is Modified by a Cytoplasmic Prolyl 4-Hydroxylase Associated with Oxygen Sensing in the Social Amoeba *Dictyostelium*. *J. Biol. Chem.* 2012 May 30, 287, 25098-25110.
- Awasthi, S., **Brown, K.**, King, C., Awasthi, V., and Bondugula, R. A toll-like receptor-4-interacting surfactant protein-A-derived peptide suppresses tumor necrosis factor- α release from mouse JAWS II dendritic cells. *J Pharmacol Exp Ther.* 2011 Mar; 336(3):672-81. Epub 2010 Dec 15.
- Wiley, M., Sweeney, K.R., Chan, D.A., **Brown, K.M.**, McMurtrey, C., Howard, E.W., Giaccia, A.J., and Blader, I.J. *Toxoplasma gondii* activates hypoxia inducible factor by stabilizing the HIF-1 alpha subunit via type I activin like receptor kinase receptor signaling. *J. Biol. Chem.* jbc.M110.147041 First Published on June 25, 2010, doi:10.1074/jbc.M110.147041
- Brown, K.M.** and Blader, I.J. The role of DNA microarrays in *Toxoplasma gondii* research, the causative agent of ocular toxoplasmosis. *J Ocul Biol Dis Infor.* 2009 Dec 12;2(4):214-222.
- Awasthi, S., Cropper, J., and **Brown, K.M.** Developmental expression of Toll-like receptors-2 and -4 in preterm baboon lung. *Dev Comp Immunol.* 2008;32(9):1088-98. Epub 2008 Mar 18.

Abstracts and Presentations

- Brown, K.M.**, Suvorova, E., Farrell, A., Gubbels, M.J., Marth, G., White, M., and Blader, I.J. *Toxoplasma gondii* Growth is Disrupted By a Dual Target Kinase Inhibitor. 2012 Molecular Parasitology. Woods Hole, MA.

2. **Brown, K.M.**, Suvorova, E., Farrell, A., Gubbels, M.J., Marth, G., White, M., and Blader, I.J. Lytic Replication of the Retinal Pathogen *Toxoplasma gondii* Depends on a Host-Regulated Parasite MAP Kinase. 2012 6th Annual OU Vision Workshop. Oklahoma City, OK.
3. **Brown, K.M.** and Blader, I.J. Host Activin-Like Receptor Kinase Signaling Regulates Cell Cycle Progression in *Toxoplasma gondii*. 2012 Graduate Research Education and Technology Symposium. Oklahoma City, OK.
4. **Brown, K.M.**, Charles, E., Joshi, S., Sherry, D.M., Al-Ubaidi, M., Lang, M., and Blader, I.J. Retinal Neurons Express MHC Class II and PD-L1 to Suppress Activated T cells in *Toxoplasma gondii*-Infected Eyes. 2011 ARVO Meeting, Fort Lauderdale, FL.
5. **Brown, K.M.** and Blader, I.J. Communication Between *Toxoplasma gondii* and its Host: Requirement of ALK4,5,7 Signaling for Parasite Growth. 2011 Graduate Research Education and Technology Symposium. Oklahoma City, OK.
6. **Brown, K.M.**, Charles, E., Joshi, S., Lang, M., and Blader, I.J. *Toxoplasma* Infection of the Retina Induces MHC Class II and PD-L1 on Neuroretinal Cells. 2010 Woods Hole Immunoparasitology Meeting, Woods Hole, MA. (Also presented at 2010 University of Oklahoma Vision Workshop, Oklahoma City, OK).

Funding

2010-2011 NIAID Immunology Training Program, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma.

Book Chapters

Brown, K.M. Menendez, M., and Blader, I.J. Cell Signaling at the Parasitophorous Vacuole. Mercier, C., and Delauw, M (Eds.). *Toxoplasma gondii*/Host Cell Interactions: Recent Advances. *In prep.*

Service

2012-present. Seminar Series Working Group. Dept. Microbiology and Immunology, OUHSC.
2012-present. Endowment Fund Committee. Dept. Microbiology and Immunology, OUHSC.

References

Ira Blader, Ph.D. Mentor. Ira-Blader@ouhsc.edu

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Jimmy Ballard, Ph.D. Dept. of Microbiology and Immunology Chair. Jimmy-Ballard@ouhsc.edu