

Stanford



Crystal M. Botham, Ph.D.

Bio

BIO

Crystal Botham, Ph.D. is Director of Research Development in the Department of Pediatrics at Stanford University. Dr. Botham provides strategic advice to faculty and others to enable competitive funding applications and productive research programs.

Dr. Botham is also the Director of the Biosciences Grant Writing Academy (<https://grantwriting.stanford.edu>). The Grant Writing Academy supports graduate and postdoctoral trainees in developing and articulating research strategies to tackle important scientific questions.

CURRENT ROLE AT STANFORD

- Providing individualized grantsmanship assistance to postdoctoral fellows and faculty
- Editing and critically evaluating grant applications to improve funding potential
- Interpreting sponsor requirements and providing strategic advice
- Identifying a diverse portfolio of funding opportunities
- Designing and facilitating courses to enable postdoctoral fellows to develop competitive Career Development applications
- Developing and presenting at workshops on grant writing and proposal submission
- Coordinating completion of subcontracts and large collaborative projects

HONORS AND AWARDS

- Outstanding recognition for speech presentation, West Coast Biological Sciences Undergraduate Research Conference (2000)
- Outstanding recognition for poster presentation, Pacific Undergraduate Research Conference (2000)
- Award for Summer Research, Max and Victoria Dreyfus Foundation at the University of the Pacific (2001)
- Participant, Colgate University's Study Group at NIH (2001)
- Summer Research Award, Department of Biology, University of the Pacific (2002)
- Predoctoral Fellowship Award, American Heart Association- Pacific Mountain (2005-2006)
- Winning image for Journal cover, May issue of PLoS Pathogen (2008)
- Ruth L. Kirschstein National Research Service Award (F32AI082936), NIH, NIAID (2009-2010)
- Tashia and John Morgridge Endowed Postdoctoral Fellow, Child Health Research Institute (CHRI) at Stanford University (2009-2011)
- Trainee Abstract Award, American Association of Immunologists (2011)

EDUCATION AND CERTIFICATIONS

- Postdoctoral Fellow, Stanford University , Immunology (2011)

- Ph.D., University of Oregon , Biology (2007)
- B.S., University of the Pacific , Biology (2001)

Publications

PUBLICATIONS

- **Clinical trials of adult stem cell therapy for peripheral artery disease.** *Methodist DeBakey cardiovascular journal*
Botham, C. M., Bennett, W. L., Cooke, J. P.
2013; 9 (4): 201-205
- **Endothelial Cells Derived From Nuclear Reprogramming** *CIRCULATION RESEARCH*
Wong, W. T., Huang, N. F., Botham, C. M., Sayed, N., Cooke, J. P.
2012; 111 (10): 1363-1375
- **Identification of genetic modifiers of CagA-induced epithelial disruption in Drosophila.** *Frontiers in cellular and infection microbiology*
Reid, D. W., Muyskens, J. B., Neal, J. T., Gaddini, G. W., Cho, L. Y., Wandler, A. M., Botham, C. M., Guillemin, K.
2012; 2: 24-?
- **Cationic Lipid/DNA Complex-Adjuvanted Influenza A Virus Vaccination Induces Robust Cross-Protective Immunity** *JOURNAL OF VIROLOGY*
Hong, D. K., Chang, S., Botham, C. M., Giffon, T. D., Fairman, J., Lewis, D. B.
2010; 84 (24): 12691-12702
- **A transgenic Drosophila model demonstrates that the Helicobacter pylori CagA protein functions as a eukaryotic Gab adaptor** *PLOS PATHOGENS*
Botham, C. M., Wandler, A. M., Guillemin, K.
2008; 4 (5)
- **Helicobacter pylori CagA induces AGS cell elongation through a cell retraction defect that is independent of Cdc42, Rac1, and Arp2/3** *INFECTION AND IMMUNITY*
Bourzac, K. M., Botham, C. M., Guillemin, K.
2007; 75 (3): 1203-1213