Stanford

John Boothroyd

Burt and Marion Avery Professor of Immunology

Microbiology & Immunology

NIH Biosketch available Online Curriculum Vitae available Online

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

John Boothroyd, Ph.D., is the Burt and Marion Avery Professor of Immunology in the Department of Microbiology and Immunology at Stanford University School of Medicine where he studies the pathogenesis of parasitic infections, most notably Toxoplasma gondii. In addition to his research, he is also heavily committed to undergraduate, graduate and post-doctoral training, including trainee professional development.

Dr. Boothroyd received his undergraduate degree in Cell, Molecular, and Developmental Biology from McGill University in Montreal, Canada, and his PhD in Molecular Biology from Edinburgh University in Scotland. He worked as a scientist in the Immunochemistry and Molecular Biology Department at Wellcome Research Laboratories, UK, before joining the Stanford faculty in 1982 as a member of the Department of Microbiology and Immunology. He was Department Chair from 1999-2002 and served as Senior Associate Dean for Research and Training in the School of Medicine from 2002-2005. Currently, in addition to his regular faculty role, Dr. Boothroyd serves as Associate Vice Provost for Graduate Education for the University.

Dr. Boothroyd has received various awards including being named a Burroughs Wellcome Scholar in Molecular Parasitology in 1986 and an Ellison Medical Foundation Scholar in Global Infectious Diseases in 2002. In 2008 he received the Leuckart Medal from the German Society for Parasitology and in 2016 he was elected to membership in the U.S. National Academy of Scienes. All of these awards reflect the creativity and hard work of the many students and post-docs who have worked with him, over 30 of whom are now in independent faculty positions.

Dr. Boothroyd’s research interests have spanned from viruses such as bacteriophage T7 and Foot and Mouth Disease Virus through to protozoan parasites such as Trypanosoma brucei, the cause of African sleeping sickness, and Toxoplasma gondii, a serious pathogen in newborns and individuals who are immunocompromised. Currently, his lab is focused on the interaction between the animal host and Toxoplasma. Together with their collaborators, the lab asks: (1) how Toxoplasma invades and co-opts almost any cell type from almost any animal; (2) how the parasite persists in the human host; and, 3) how the polymorphic “effectors” that Toxoplasma injects into a host cell produce different disease outcomes in humans.

ACADEMIC APPOINTMENTS

- Professor, Microbiology & Immunology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Stanford ChEM-H

ADMINISTRATIVE APPOINTMENTS

- Chair, Dept. Microbiology and Immunology, Stanford University School of Medicine, (1999-2002)
- Senior Associate Dean for Research, Stanford University School of Medicine, (2002-2003)
- Senior Associate Dean for Research and Training, Stanford University School of Medicine, (2003-2005)
- Associate Vice Provost for Graduate Education, Stanford University, (2008-2018)
- Associate Vice Provost for Graduate Education and Postdoctoral Affairs, Stanford University, (2018- present)

HONORS AND AWARDS

- Overseas Research Scholarship, Royal Commission for the Exhibition of 1851 (1976-1979)
- Merit Award, NIH (1994-2004)
- Scholar Award in Molecular Parasitology, Burroughs Wellcome Fund (1986-1991)
- Bass University Fellow in Undergraduate Education, Stanford University (2002)
- Senior Scholar in Global Infectious Diseases, Ellison Medical Foundation (2002-2006)
- Fellow, American Academy of Microbiology (2007)
- Leuckart Medal, German Society for Parasitology (2008)
- Burt and Marion Avery Professor of Immunology, Stanford University (2015)
- Member, National Academy of Sciences USA (2016)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Director, MBL Summer Course on Biology of Parasitism (1991 - 1993)
- Chair, Gordon Conference on Parasitism (1999 - 1999)
- Chair, Burroughs Wellcome Fund Advisory Panel on Molecular Parasitology (1999 - 2001)
- Chair, Burroughs Wellcome Fund Advisory Panel on Pathogenesis of Infectious Diseases (2013 - 2016)
- Member, Committee on Next Generation Researchers Initiative, National Academies of Sciences, Engineering and Medicine (2016 - 2018)
- Member, Committee on Understanding and Addressing the Underrepresentation of Women in Particular Science and Engineering Disciplines, National Academies of Science, Engineering and Medicine (2018 - 2019)
- Member, Schmidt Science Fellows Academic Council (2019 - present)

PROFESSIONAL EDUCATION

- Ph.D., Edinburgh University , Molecular Biology (1979)
- B.Sc. (Hons), McGill University , Cell, Mol. and Devel. Biology (1975)

LINKS

- My group's web site: http://boothroydlab.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Studies on the cell and molecular biology of parasitic protozoa are critically important for two reasons; first, these organisms are major pathogens of humans and anaimals and, second, they have proven to be a source of some remarkable phenomena that have challenged much of the dogma thought to be universal in eukaryotic biology. We have been studying two of these single-celled eukaryotes, Trypanosoma brucei and Toxoplasma gondii. Each has its own features that make it interesting to the scientist and both are major pathogens, trypanosomes being the cause of sleeping sickness in Africa and Toxoplasma being a major opporunistic pathogen of AIDS patients. As of, 1998, however, we have focused our entire effort on Toxoplasma because of its growing importance and our results developing this system for

modern genetic analysis (we now have a full genetic "toolbox" for this intracellular parasite including a genetic map, efficient genetic transformation and gene knock-out).

The major areas where the lab is currently working are:

(i) Intracellular parasitism: how does this parasite attach, invade and reproduce within virtually any nucleated cell.
(ii) Protein trafficking; how are proteins destined for novel secretory organelles specifically targeted and, ultimately, injected into the host cell during invasion?
(iii) Developmental biology; what genes are crucial for asexual development from the actively dividing to the latent form of the parasite and what are the cis- and trans-elements that control that expression.
(iv) Host-pathogen interaction: what changes occur in the host cell in response to infection?
(v) Pathogenesis: what properties make certain strains more virulent than others?

Teaching

COURSES

2019-20

- Preparing for Faculty Careers: EDUC 343C (Spr)

2018-19

- Intensive Course in Clinical Research: HRP 245 (Aut)
- Preparing for Faculty Careers: EDUC 343C (Spr)

2017-18

- Preparing for Faculty Careers: EDUC 343C (Spr)

2016-17

- Preparing for Faculty Careers: VPTL 231 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Jared Honeycutt, Michael Lyons, Yuan Xue

Postdoctoral Faculty Sponsor

Adit Naor, Li-av Segev Zarko

Doctoral Dissertation Advisor (AC)

Alicja Cygan, Abel Ferrel, Alma Mendoza, Suchita Rastogi, Terence Theisen

Doctoral Dissertation Co-Advisor (AC)

Yuan Xue

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Microbiology and Immunology (Phd Program)

Publications

PUBLICATIONS

- **Translocation of effector proteins into host cells by Toxoplasma gondii.** *Current opinion in microbiology*
  Rastogi, S., Cygan, A. M., Boothroyd, J. C.
  2019; 52: 130–38

- **Translocation of Dense Granule Effectors across the Parasitophorous Vacuole Membrane in Toxoplasma-Infected Cells Requires the Activity of ROP17, a Rhoptry Protein Kinase.** *mSphere*
  Panas, M. W., Ferrel, A., Naor, A., Tenborg, E., Lorenzi, H. A., Boothroyd, J. C.
  2019; 4 (4)

- **MYR1-Dependent Effectors Are the Major Drivers of a Host Cell's Early Response to Toxoplasma, Including Counteracting MYR1-Independent Effects** *MBIO*
  Naor, A., Panas, M. W., Marino, N., Coffey, M. J., Tonkin, C. J., Boothroyd, J. C.
  2018; 9 (2)

- **Identification of a novel protein complex essential for effector translocation across the parasitophorous vacuole membrane of Toxoplasma gondii** *PLOS PATHOGENS*
  Marino, N. D., Panas, M. W., Franco, M., Theisen, T. C., Naor, A., Rastogi, S., Buchholz, K. R., Lorenzi, H. A., Boothroyd, J. C.
  2018; 14 (1): e1006828

- **MAF1b Binds the Host Cell MIB Complex To Mediate Mitochondrial Association.** *mSphere*
  Kelly, F. D., Wei, B. M., Cygan, A. M., Parker, M. L., Boulanger, M. J., Boothroyd, J. C.
  2017; 2 (3)

- **The Toxoplasma Pseudokinase ROP5 Is an Allosteric Inhibitor of the Immunity-related GTPases** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Reese, M. L., Shah, N., Boothroyd, J. C.
  2014; 289 (40): 27849-27858

- **Toxoplasma gondii Sporozoites Invade Host Cells Using Two Novel Paralogues of RON2 and AMA1.** *PloS one*
  Poukchanski, A., Fritz, H. M., Tonkin, M. L., Treeck, M., Boulanger, M. J., Boothroyd, J. C.
  2013; 8 (8)

- **Toxoplasma Co-opts Host Cells It Does Not Invade** *PLOS PATHOGENS*
  Koshy, A. A., Dietrich, H. K., Christian, D. A., Melehani, J. H., Shastri, A. J., Hunter, C. A., Boothroyd, J. C.
  2012; 8 (7)

- **Toxoplasma Controls Host Cyclin E Expression through the Use of a Novel MYR1-Dependent Effector Protein, HCE1.** *mBio*
  Panas, M. W., Naor, A., Cygan, A. M., Boothroyd, J. C.
  2019; 10 (2)

- **Erratum for Franco et al., "A Novel Secreted Protein, MYR1, Is Central to Toxoplasma's Manipulation of Host Cells".** *mBio*
  Franco, M., Panas, M. W., Marino, N. D., Lee, M. W., Buchholz, K. R., Kelly, F. D., Bednarski, J. J., Sleckman, B. P., Pourmand, N., Boothroyd, J. C.
  2018; 9 (5)

- **A Toxoplasma gondii locus required for the direct manipulation of host mitochondria has maintained multiple ancestral functions** *MOLECULAR MICROBIOLOGY*
  Blank, M. L., Parker, M. L., Ramaswamy, R., Powell, C. J., English, E. D., Adomako-Ankomah, Y., Pernas, L. F., Workman, S. D., Boothroyd, J. C., Boulanger, M. J., Boyle, J. P.
  2018; 108 (5): 519–35

- **Mitochondria Restrict Growth of the Intracellular Parasite Toxoplasma gondii by Limiting Its Uptake of Fatty Acids** *CELL METABOLISM*
  Pernas, L., Bean, C., Boothroyd, J. C., Scorrano, L.
  2018; 27 (4): 886-+

- **Toxoplasma gondii infection triggers chronic cachexia and sustained commensal dysbiosis in mice.** *PloS one*
  Hatter, J. A., Kouche, Y. M., Melchor, S. J., Ng, K., Bouley, D. M., Boothroyd, J. C., Ewald, S. E.
  2018; 13 (10): e0204895

- **mRNA pseudouridylation affects RNA metabolism in the parasite Toxoplasma gondii** *RNA*
  Nakamoto, M. A., Lovejoy, A. F., Cygan, A. M., Boothroyd, J. C.
  2017; 23 (12): 1834–49

- **An in vitro model of intestinal infection reveals a developmentally regulated transcriptome of Toxoplasma sporozoites and a NF-kappa B-like signature in infected host cells** *PLOS ONE*
  Guiton, P. S., Sagawa, J. M., Fritz, H. M., Boothroyd, J. C.
  2017; 12 (3)

- **Toxoplasma DJ-1 Regulates Organelle Secretion by a Direct Interaction with Calcium-Dependent Protein Kinase 1.** *mBio*
  Child, M. A., Garland, M., Foe, I., Madzelan, P., Treeck, M., van der Linden, W. A., Oresic Bender, K., Weerapana, E., Wilson, M. A., Boothroyd, J. C., Reese, M. L., Bogyo, M.
  2017; 8 (1)

- **Toxoplasma growth in vitro is dependent on exogenous tyrosine and is independent of AAH2 even in tyrosine-limiting conditions.** *Experimental parasitology*
  Marino, N. D., Boothroyd, J. C.
  2017

- **Toxoplasma DJ-1 Regulates Organelle Secretion by a Direct Interaction with Calcium-Dependent Protein Kinase 1** *MBIO*
  Child, M. A., Garland, M., Foe, I., Madzelan, P., Treeck, M., van der Linden, W. A., Bender, K. O., Weerapana, E., Wilson, M. A., Boothroyd, J. C., Reese, M. L., Bogyo, M.
  2017; 8 (1)

- **A Novel Secreted Protein, MYR1, Is Central to Toxoplasma's Manipulation of Host Cells.** *mBio*
  Franco, M., Panas, M. W., Marino, N. D., Lee, M. W., Buchholz, K. R., Kelly, F. D., Bednarski, J. J., Sleckman, B. P., Pourmand, N., Boothroyd, J. C.
  2016; 7 (1)

- **Not a Simple Tether: Binding of Toxoplasma gondii AMA1 to RON2 during Invasion Protects AMA1 from Rhomboid-Mediated Cleavage and Leads to Dephosphorylation of Its Cytosolic Tail.** *mBio*
  Krishnamurthy, S., Deng, B., del Rio, R., Buchholz, K. R., Treeck, M., Urban, S., Boothroyd, J., Lam, Y., Ward, G. E.
  2016; 7 (5)

- **Local admixture of amplified and diversified secreted pathogenesis determinants shapes mosaic Toxoplasma gondii genomes.** *Nature communications*
  Lorenzi, H., Khan, A., Behnke, M. S., Namasivayam, S., Swapna, L. S., Hadjithomas, M., Karamycheva, S., Pinney, D., Brunk, B. P., Ajioka, J. W., Ajzenberg, D., Boothroyd, J. C., Boyle, et al
  2016; 7: 10147-?

- **An aspartyl protease defines a novel pathway for export of Toxoplasma proteins into the host cell** *ELIFE*
  Coffey, M. J., Sleebs, B. E., Uboldi, A. D., Garnham, A., Franco, M., Marino, N. D., Panas, M. W., Ferguson, D. J., Enciso, M., O'Neill, M. T., Lopaticki, S., Stewart, R. J., Dewson, et al
  2015; 4

- **Local admixture of amplified and diversified secreted pathogenesis determinants shapes mosaic Toxoplasma gondii genomes** *NATURE COMMUNICATIONS*
  Lorenzi, H., Khan, A., Behnke, M. S., Namasivayam, S., Swapna, L. S., Hadjithomas, M., Karamycheva, S., Pinney, D., Brunk, B. P., Ajioka, J. W., Ajzenberg, D., Boothroyd, J. C., Boyle, et al
  2015; 7

- **Internalization and TLR-dependent type I interferon production by monocytes in response to Toxoplasma gondii** *IMMUNOLOGY AND CELL BIOLOGY*
  Han, S., Melichar, H. J., Coombes, J. L., Chan, S. W., Koshy, A. A., Boothroyd, J. C., Barton, G. M., Robey, E. A.
  2014; 92 (10): 872-881

- **Use of Transgenic Parasites and Host Reporters To Dissect Events That Promote Interleukin-12 Production during Toxoplasmosis** *INFECTION AND IMMUNITY*
  Christian, D. A., Koshy, A. A., Reuter, M. A., Betts, M. R., Boothroyd, J. C., Hunter, C. A.
  2014; 82 (10): 4056-4067

- **Immune Profiling of Pregnant Toxoplasma-Infected US and Colombia Patients Reveals Surprising Impacts of Infection on Peripheral Blood Cytokines.** *journal of infectious diseases*
  Pernas, L., Ramirez, R., Holmes, T. H., Montoya, J. G., Boothroyd, J. C.

2014; 210 (6): 923-931

- **Impact of Regulated Secretion on Antiparasitic CD8 T Cell Responses** *CELL REPORTS*
  Grover, H. S., Chu, H. H., Kelly, F. D., Yang, S. J., Reese, M. L., Blanchard, N., Gonzalez, F., Chan, S. W., Boothroyd, J. C., Shastri, N., Robey, E. A.
  2014; 7 (5): 1716-1728

- **GRA25 Is a Novel Virulence Factor of Toxoplasma gondii and Influences the Host Immune Response.** *Infection and immunity*
  Shastri, A. J., Marino, N. D., Franco, M., Lodoen, M. B., Boothroyd, J. C.
  2014; 82 (6): 2595-2605

- **The calcium-dependent protein kinase 3 of toxoplasma influences basal calcium levels and functions beyond egress as revealed by quantitative phosphoproteome analysis.** *PLoS pathogens*
  Treeck, M., Sanders, J. L., Gaji, R. Y., LaFavers, K. A., Child, M. A., Arrizabalaga, G., Elias, J. E., Boothroyd, J. C.
  2014; 10 (6)

- **The Calcium-Dependent Protein Kinase 3 of Toxoplasma Influences Basal Calcium Levels and Functions beyond Egress as Revealed by Quantitative Phosphoproteome Analysis** *PLOS PATHOGENS*
  Treeck, M., Sanders, J. L., Gaji, R. Y., LaFavers, K. A., Child, M. A., Arrizabalaga, G., Elias, J. E., Boothroyd, J. C.
  2014; 10 (6)

- **Infection by Toxoplasma gondii specifically induces host c-Myc and the genes this pivotal transcription factor regulates.** *Eukaryotic cell*
  Franco, M., Shastri, A. J., Boothroyd, J. C.
  2014; 13 (4): 483-493

- **Toxoplasma effector MAF1 mediates recruitment of host mitochondria and impacts the host response.** *PLoS biology*
  Pernas, L., Adomako-Ankomah, Y., Shastri, A. J., Ewald, S. E., Treeck, M., Boyle, J. P., Boothroyd, J. C.
  2014; 12 (4)

- **NLRP1 Is an Inflammasome Sensor for Toxoplasma gondii** *INFECTION AND IMMUNITY*
  Ewald, S. E., Chavarria-Smith, J., Boothroyd, J. C.
  2014; 82 (1): 460-468

- **Impact of Regulated Secretion on Antiparasitic CD8 T Cell Responses.** *Cell reports*
  Grover, H. S., Chu, H. H., Kelly, F. D., Yang, S. J., Reese, M. L., Blanchard, N., Gonzalez, F., Chan, S. W., Boothroyd, J. C., Shastri, N., Robey, E. A.
  2014; 7 (5): 1716–28

- **Small-molecule inhibition of a depalmitoylase enhances Toxoplasma host-cell invasion.** *Nature chemical biology*
  Child, M. A., Hall, C. I., Beck, J. R., Ofori, L. O., Albrow, V. E., Garland, M., Bowyer, P. W., Bradley, P. J., Powers, J. C., Boothroyd, J. C., Weerapana, E., Bogyo, M.
  2013; 9 (10): 651-656

- **A nucleotide sugar transporter involved in glycosylation of the toxoplasma tissue cyst wall is required for efficient persistence of bradyzoites.** *PLoS pathogens*
  Caffaro, C. E., Koshy, A. A., Liu, L., Zeiner, G. M., Hirschberg, C. B., Boothroyd, J. C.
  2013; 9 (5)

- **Have it your way: how polymorphic, injected kinases and pseudokinases enable toxoplasma to subvert host defenses.** *PLoS pathogens*
  Boothroyd, J. C.
  2013; 9 (4)

- **Bradyzoite Pseudokinase 1 Is Crucial for Efficient Oral Infectivity of the Toxoplasma gondii Tissue Cyst** *EUKARYOTIC CELL*
  Buchholz, K. R., Bowyer, P. W., Boothroyd, J. C.
  2013; 12 (3): 399-410

- **A nucleotide sugar transporter involved in glycosylation of the Toxoplasma tissue cyst wall is required for efficient persistence of bradyzoites.** *PLoS pathogens*
  Caffaro, C. E., Koshy, A. A., Liu, L., Zeiner, G. M., Hirschberg, C. B., Boothroyd, J. C.
  2013; 9 (5)

- **A Forward Genetic Screen Reveals that Calcium-dependent Protein Kinase 3 Regulates Egress in Toxoplasma** *PLOS PATHOGENS*
  Garrison, E., Treeck, M., Ehret, E., Butz, H., Garbuz, T., Oswald, B. P., Settles, M., Boothroyd, J., Arrizabalaga, G.

2012; 8 (11)

- **A Toxoplasma gondii Pseudokinase Inhibits Host IRG Resistance Proteins** *PLOS BIOLOGY*
  Fleckenstein, M. C., Reese, M. L., Koenen-Waisman, S., Boothroyd, J. C., Howard, J. C., Steinfeldt, T.
  2012; 10 (7)

- **Infected Dendritic Cells Facilitate Systemic Dissemination and Transplacental Passage of the Obligate Intracellular Parasite Neospora caninum in Mice** *PLOS ONE*
  Collantes-Fernandez, E., Arrighi, R. B., Alvarez-Garcia, G., Weidner, J. M., Regidor-Cerrillo, J., Boothroyd, J. C., Ortega-Mora, L. M., Barragan, A.
  2012; 7 (3)

- **Transcriptomic Analysis of Toxoplasma Development Reveals Many Novel Functions and Structures Specific to Sporozoites and Oocysts** *PLOS ONE*
  Fritz, H. M., Buchholz, K. R., Chen, X., Durbin-Johnson, B., Rocke, D. M., Conrad, P. A., Boothroyd, J. C.
  2012; 7 (2)

- **Proteomic Analysis of Fractionated Toxoplasma Oocysts Reveals Clues to Their Environmental Resistance** *PLOS ONE*
  Fritz, H. M., Bowyer, P. W., Bogyo, M., Conrad, P. A., Boothroyd, J. C.
  2012; 7 (1)

- **Tissue Barriers of the Human Placenta to Infection with Toxoplasma gondii** *INFECTION AND IMMUNITY*
  Robbins, J. R., Zeldovich, V. B., Poukchanski, A., Boothroyd, J. C., Bakardjiev, A. I.
  2012; 80 (1): 418-428

- **Identification of Tissue Cyst Wall Components by Transcriptome Analysis of In Vivo and In Vitro Toxoplasma gondii Bradyzoites** *EUKARYOTIC CELL*
  Buchholz, K. R., Fritz, H. M., Chen, X., Durbin-Johnson, B., Rocke, D. M., Ferguson, D. J., Conrad, P. A., Boothroyd, J. C.
  2011; 10 (12): 1637-1647

- **Toxoplasma gondii Induces B7-2 Expression through Activation of JNK Signal Transduction** *INFECTION AND IMMUNITY*
  Morgado, P., Ong, Y., Boothroyd, J. C., Lodoen, M. B.
  2011; 79 (11): 4401-4412

- **The Phosphoproteomes of Plasmodium falciparum and Toxoplasma gondii Reveal Unusual Adaptations Within and Beyond the Parasites' Boundaries** *CELL HOST & MICROBE*
  Treeck, M., Sanders, J. L., Elias, J. E., Boothroyd, J. C.
  2011; 10 (4): 410-419

- **Strain-Dependent Host Transcriptional Responses to Toxoplasma Infection Are Largely Conserved in Mammalian and Avian Hosts** *PLOS ONE*
  Ong, Y., Boyle, J. P., Boothroyd, J. C.
  2011; 6 (10)

- **Focus on the ringleader: the role of AMA1 in apicomplexan invasion and replication** *TRENDS IN PARASITOLOGY*
  Tyler, J. S., Treeck, M., Boothroyd, J. C.
  2011; 27 (9): 410-420

- **A Conserved Non-canonical Motif in the Pseudoactive Site of the ROP5 Pseudokinase Domain Mediates Its Effect on Toxoplasma Virulence** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Reese, M. L., Boothroyd, J. C.
  2011; 286 (33): 29366-29375

- **Binding of Plasmodium merozoite proteins RON2 and AMA1 triggers commitment to invasion** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Srinivasan, P., Beatty, W. L., Diouf, A., Herrera, R., Ambroggio, X., Moch, J. K., Tyler, J. S., Narum, D. L., Pierce, S. K., Boothroyd, J. C., Haynes, J. D., Miller, L. H.
  2011; 108 (32): 13275-13280

- **Evidence for Host Cells as the Major Contributor of Lipids in the Intravacuolar Network of Toxoplasma-Infected Cells** *EUKARYOTIC CELL*
  Caffaro, C. E., Boothroyd, J. C.
  2011; 10 (8): 1095-1099

- **Chemical genetic screen identifies Toxoplasma DJ-1 as a regulator of parasite secretion, attachment, and invasion** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Hall, C. I., Reese, M. L., Weerapana, E., Child, M. A., Bowyer, P. W., Albrow, V. E., Haraldsen, J. D., Phillips, M. R., Sandoval, E. D., Ward, G. E., Cravatt, B. F., Boothroyd, J. C., Bogyo, et al
2011; 108 (26): 10568-10573

- **Toxoplasma Polymorphic Effectors Determine Macrophage Polarization and Intestinal Inflammation** *CELL HOST & MICROBE*
  Jensen, K. D., Wang, Y., Wojno, E. D., Shastri, A. J., Hu, K., Cornel, L., Boedec, E., Ong, Y., Chien, Y., Hunter, C. A., Boothroyd, J. C., Saeij, J. P.
  2011; 9 (6): 472-483
- **Polymorphic family of injected pseudokinases is paramount in Toxoplasma virulence** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Reese, M. L., Zeiner, G. M., Saeij, J. P., Boothroyd, J. C., Boyle, J. P.
  2011; 108 (23): 9625-9630
- **Chemistry and Biology of Macrolide Antiparasitic Agents** *JOURNAL OF MEDICINAL CHEMISTRY*
  Lee, Y., Choi, J. Y., Fu, H., Harvey, C., Ravindran, S., Roush, W. R., Boothroyd, J. C., Khosla, C.
  2011; 54 (8): 2792-2804
- **The C-Terminus of Toxoplasma RON2 Provides the Crucial Link between AMA1 and the Host-Associated Invasion Complex** *PLOS PATHOGENS*
  Tyler, J. S., Boothroyd, J. C.
  2011; 7 (2)
- **Association of host mitochondria with the parasitophorous vacuole during Toxoplasma infection is not dependent on rhoptry proteins ROP2/8** *INTERNATIONAL JOURNAL FOR PARASITOLOGY*
  Pernas, L., Boothroyd, J. C.
  2010; 40 (12): 1367-1371
- **Toxoplasma Rhoptry Protein 16 (ROP16) Subverts Host Function by Direct Tyrosine Phosphorylation of STAT6** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Ong, Y., Reese, M. L., Boothroyd, J. C.
  2010; 285 (37): 28731-28740
- **Coordinated loading of IRG resistance GTPases on to the Toxoplasma gondii parasitophorous vacuole** *CELLULAR MICROBIOLOGY*
  Khaminets, A., Hunn, J. P., Koenen-Waisman, S., Zhao, Y. O., Preukschat, D., Coers, J., Boyle, J. P., Ong, Y., Boothroyd, J. C., Reichmann, G., Howard, J. C.
  2010; 12 (7): 939-961
- **Use of two novel approaches to discriminate between closely related host microRNAs that are manipulated by Toxoplasma gondii during infection** *RNA-A PUBLICATION OF THE RNA SOCIETY*
  Zeiner, G. M., Boothroyd, J. C.
  2010; 16 (6): 1268-1274
- **Toxoplasma secreting Cre recombinase for analysis of host-parasite interactions** *NATURE METHODS*
  Koshy, A. A., Fouts, A. E., Lodoen, M. B., Alkan, O., Blau, H. M., Boothroyd, J. C.
  2010; 7 (4): 307-309
- **Toxoplasma gondii Infection Specifically Increases the Levels of Key Host MicroRNAs** *PLOS ONE*
  Zeiner, G. M., Norman, K. L., Thomson, J. M., Hammond, S. M., Boothroyd, J. C.
  2010; 5 (1)
- **A highly sensitive FRET-based approach reveals secretion of the actin-binding protein toxofilin during Toxoplasma gondii infection** *CELLULAR MICROBIOLOGY*
  Lodoen, M. B., Gerke, C., Boothroyd, J. C.
  2010; 12 (1): 55-66
- **4-Bromophenacyl Bromide Specifically Inhibits Rhoptry Secretion during Toxoplasma Invasion** *PLOS ONE*
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