

Curriculum Vitae
Tejas Bouklas, Ph.D.
(née Gawade)

Long Island University-Post
School of Health Professions and Nursing
Department of Biomedical Sciences
720 Northern Blvd, LS 340
Brookville, NY 11548

(516) 299-2695
tejas.bouklas@liu.edu
www.bouklaslab.org

Education

2014 **Ph.D.** in Biomedical Sciences, Department of Microbiology and Immunology,
Albert Einstein College of Medicine, Bronx, NY
2011 **M.S.** in Biomedical Sciences, Department of Microbiology and Immunology,
Albert Einstein College of Medicine, Bronx, NY
2009 **B. S.** in Biology, Women in Science and Engineering Program,
Stony Brook University, Stony Brook, NY
2005 **Advanced Regents Diploma**, Stuyvesant High School, New York, NY

Academic Positions

2016 - Present **Assistant Professor**, Department of Biomedical Sciences,
Long Island University-Post, Brookville, NY
2014 - 2016 **Postdoctoral Associate**, Department of Medicine (Infectious Diseases),
Stony Brook University, Stony Brook, NY
2014 **Postdoctoral Fellow**, Department of Medicine (Infectious Diseases),
Albert Einstein College of Medicine, Bronx, NY
2009 - 2014 **Predoctoral Fellow**, Department of Microbiology and Immunology,
Albert Einstein College of Medicine, Bronx, NY
2005 - 2009 **Research Assistant**, Department of Pathology,
Stony Brook University, Stony Brook, NY

Teaching Experience

2016 - Present **Assistant Professor**, Biomedical Sciences, Long Island University-Post, Brookville, NY
Undergraduate: Microbiology in the Health Sciences (lecture and lab); Immunology;
Mycology and Parasitology
Graduate: Mycology and Parasitology
2016 **Adjunct Assistant Professor**, Suffolk County Community College, Selden, NY
Undergraduate: Anatomy and Physiology (lecture and lab)
2013 - 2016 **Adjunct Professor**, Biomedical Sciences, Long Island University-Post, Brookville, NY
Undergraduate: Microbiology in the Health Sciences (lecture and lab)
2015 **Teaching Assistant**, Biotechnology Teaching Lab, Stony Brook University,
Stony Brook, NY
2013 **Teaching Assistant**, Albert Einstein College of Medicine, Bronx, NY
Graduate: Responsible Conduct of Research
2012 **Course Leader**, Albert Einstein College of Medicine, Bronx, NY
Graduate: Pillars of Biology: Classic Problems and Modern Concepts
2007 **Teaching Assistant**, Stony Brook University, Stony Brook, NY
Undergraduate: General Biology

Peer-reviewed Publications (Undergraduate or Graduate co-authors)

Articles

- **Bouklas, T.,** Alonso-Crisostomo, L., Szekely, T., Diago-Navarro, E., Orner, E.P., Smith, K., Balazsi, G., Del Poeta, M., Fries, B.C. 2016. Generational distribution of a *Candida glabrata* population: Old cells prevail as commensals, while younger cells attack the vulnerable host. Under review.
- **Bouklas, T.,** Jain, N., Fries, B.C. 2017. Modulation of replicative life span in *Cryptococcus neoformans*: implications for virulence. *Frontiers in Microbiology* 8:98 doi: 10.3389/fmicb.2017.00098.
- **Bouklas, T.*,** Diago-Navarro, E.*, Wang, X., Fenster, M., Fries, B.C. 2016. Characterization of the virulence of *Cryptococcus neoformans* in an insect model. *Virulence*. 6(8):809-813. (*equal contribution)
- Jain, N., **Bouklas, T.,** Gupta, A., Varshney, A.K., Orner, E., Fries, B.C. 2016. *ALL2*, a homologue of *ALL1*, contributes a distinct role in regulating pH homeostasis in the pathogen, *Cryptococcus neoformans*. *Infection and Immunity*. 84(2):439-451. **(Selected as Spotlight Article)**
- **Bouklas, T.,** Fries, B.C. 2015. Aging: An emergent phenotypic trait that contributes to the virulence of *Cryptococcus neoformans*. *Future Microbiology*. 10(2):191-7. **(Invited Review, Featured Review, and Cover Highlight)**
- **Bouklas, T.,** Fries, B.C. 2014. Aging as an emergent factor that contributes to phenotypic variation in *C. neoformans*. *Fungal Genetics and Biology*. 78:59-64.
- **Bouklas, T.,** Pechuan, X., Goldman, D.L., Edelman, B., Bergman, A., Fries, B.C. 2013. Old *Cryptococcus neoformans* cells contribute to virulence in chronic cryptococcosis. *mBio*. 4(4):e00455-13. **(Featured in Einstein magazine and on website)**
- **Bouklas, T.,** Fries, B.C. 2013. *Cryptococcus neoformans* constitutes an ideal model organism to unravel the contribution of cellular aging to the virulence of chronic infections. *Current Opinion in Microbiology*. 16(4):391-397. **(Invited Review)**

Abstracts

- **Bouklas, T.,** Jain, N., Wang, X., Goldman D.L., Pechuan, X., Bergman, A., Fries, B.C. 2014. Replicative aging of *Cryptococcus neoformans* and its relevance for the pathogenesis of chronic cryptococcosis. *Mycoses*. 57:14-15.
- **Bouklas, T.,** Jain, N., Wang, X., Fries, B.C. 2014. Consequences of *SIR2* regulation on the pathogenesis of *Cryptococcus neoformans*. *Mycoses*. 57:56-56.
- **Bouklas, T.,** Fenster, M., Fries, B.C. 2012. Investigations on replicative life span of *Cryptococcus neoformans* strains and the relevance of these findings for virulence. *Mycoses*. 55:6-6.
- **Gawade, T.A.,** Sawicka, K.M., Roemer, E.J., Simon, S.R. 2007. *In vitro* evaluation of pertussis toxin composite nanofibers as a non-invasive whooping cough vaccine. *In Vitro Cellular & Developmental Biology: Animal*. 43(1):33-39. **(Popular Magazine 2015 Invention of the Year)**

Poster Presentations (*Presenting author, Undergraduate or Graduate co-authors)

- Ugile, R., Cain, Z., Bouklas, T. Serial isolates of *Cryptococcus neoformans* demonstrate altered resilience to nutritional stress. American Society of Microbiology Microbe Meeting, New Orleans, LA. June 2017.
- **Bouklas, T.,** Jain, N., Fries, B.C.* Modulation of replicative life span in *Cryptococcus neoformans*: implications for virulence. International Conference on Cryptococcus and Cryptococcosis, Foz do Iguacu, Brazil. March 2016.
- Orner, E.P.*, **Bouklas, T.,** Foundoulakis, J., Diago-Navarro, E., Fries, B.C. Serial passaging provides insight into host-pathogen interactions and the direct effect on replicative life span and fitness. International Conference on Cryptococcus and Cryptococcosis, Foz do Iguacu, Brazil. March 2016.
- Orner, E.P.*, **Bouklas, T.,** Diago-Navarro, E., Fries, B.C. Effects of macrophage passage on microevolution of *Cryptococcus neoformans*: Implications for host-pathogen interactions. Stony Brook University Microbiology and Molecular Genetics Retreat, Port Jefferson, NY. September 2016.
- **Bouklas, T.***, Alonso-Crisostomo, L., Orner, E.P., Smith, K., Diago-Navarro, E., Fries, B.C. The resilience of old age: Replicative aging contributes to the virulence of *Candida glabrata*. Women in Medicine Day, Stony Brook University, Stony Brook, NY. May 2015.

- **Bouklas, T.***, Alonso-Crisostomo, L., Jain, N., Diago-Navarro, E., Fries, B.C. Replicative Aging in the human pathogen *Candida glabrata*. American Society of Microbiology General Meeting, Boston, MA. May 2014.
- **Bouklas, T.***, Jain, N., Xiaobo, W., Fries, B.C. Consequences of *SIR2* regulation on the pathogenesis of *Cryptococcus neoformans*. Stony Brook University Microbiology and Molecular Genetics Retreat, Port Jefferson, NY. October 2014.
- **Bouklas, T.**, Jain, N., Xiaobo, W., Fries, B.C*. Consequences of *SIR2* regulation on the pathogenesis of *Cryptococcus neoformans*. International Conference on Cryptococcus and Cryptococcosis, Amsterdam, Netherlands. May 2014.
- **Bouklas, T.**, Fenster, M., Fries, B.C*. Investigations on replicative life span of *Cryptococcus neoformans* strains and the relevance of these findings for virulence. Congress of the International Society for Human and Animal Mycology, Berlin, Germany. June 2012.
- **Bouklas, T.***, Jain, N., Fries, B.C. *In vitro* and *in vivo* investigation of RLS of *all1Δ* null mutant in *Cryptococcus neoformans*. International Conference on Cryptococcus and Cryptococcosis, Charleston, SC. May 2011.
- **Gawade, T.***, Sawicka, K.M., Roemer, E.J., Simon, S.R. Pertussis composite nanofibrous membranes as an acellular, transdermal whooping cough vaccine. Annual Biomedical Engineering Conference, Los Angeles, CA. September 2007.
- **Gawade, T.***, Sawicka, K.M., Roemer, E.J., Simon, S.R. Pertussis composite nanofibrous membranes as an acellular, transdermal whooping cough vaccine. Annual Biomedical Engineering Conference, St. Louis, MO. October 2008.
- **Gawade, T.***, Sawicka, K.M., Roemer, E.J., Simon, S.R. *In vitro* evaluation of pertussis toxin composite nanofibers as a non-invasive whooping cough vaccine. Society of *In Vitro* Biology Meeting, Indianapolis, IN. June 2007.
- **Gawade, T.***, Sawicka, K.M., Roemer, E.J., Simon, S.R. *In vitro* evaluation of pertussis toxin composite nanofibers as a non-invasive whooping cough vaccine. Northeast Sigma Xi Conference, Ithaca, NY. April 2007.
- **Gawade, T.***, Sawicka, K.M., Roemer, E.J., Simon, S.R. *In vitro* evaluation of pertussis toxin composite nanofibers as a non-invasive whooping cough vaccine. Northeast Biomedical Engineering Conference, Stony Brook, NY. March 2007.

Invited Speaker

- The role of aging in a chronic fungal infection. Biomedical/Health Sciences Departmental Research Seminar, Long Island University-Post, Brookville, NY. October 2016.
- Implications of a heterogeneous age distribution for a *Candida glabrata* population. Workshop on Cellular Heterogeneity and Evolution, Laufer Center for Physical and Quantitative Biology, Stony Brook University, Stony Brook, NY. August 2016.
- The role of aging in a chronic fungal infection. Long Island University-Post, Brookville, NY. June 2016.
- The role of replicative aging in the pathogenesis of *Cryptococcus neoformans*. Iona College, New Rochelle, NY. March 2016.
- *Cryptococcus neoformans* and its ability to age. Stony Brook University Postdoctoral Symposium, Stony Brook, NY. September 2014.
- The microbiome: the essence of human existence. Suffolk County Community College, Selden, NY. June 2014.
- The role of replicative aging in the pathogenesis of *Cryptococcus neoformans*. Center for AIDS Research, Albert Einstein College of Medicine, Bronx, NY. May 2013.
- The role of replicative aging in the pathoadaptation of *Cryptococcus neoformans*. Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY. November 2012.
- Factors that affect replicative aging in *Cryptococcus neoformans*. Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY. January 2012.

Grants/Fellowships

- NIH Training Grant, “HIV, AIDS and Opportunistic Infections” (T32 AI007501). 2011 - 2014.
- Travel award, Sue Golding Graduate Division, Albert Einstein College of Medicine. May 2011.
- Travel award, Sue Golding Graduate Division, Albert Einstein College of Medicine. July 2012.
- Sigma Xi Excellence in Research Award. April 2009.
- Student Design and Research Award, Biomedical Engineering Society. October 2008.
- Presidential Scholar (100% scholarship), Stony Brook University. 2005 - 2009.
- IBM Thomas J. Watson Memorial Scholarship. 2005 - 2009.
- Women in Science and Engineering Scholar, Stony Brook University. 2005 - 2009.
- Travel award, Women in Science and Engineering/Citigroup Professional Development, Stony Brook University. 2007 - 2008.
- Travel award, Undergraduate Research and Creative Activities, Stony Brook University. 2007 - 2008.
- Travel award, Society of *In Vitro* Biology. 2007.

Service

Judge, Long Island Science and Engineering Fair, Feb. 2017

Committee Member:

- Common Read Committee, Long Island University-Post. 2017 - Present.
- Learning Communities Initiative Committee, Long Island University-Post. 2017 - Present.
- STEAM Research Collaborative Committee, Long Island University-Post. 2016 - Present.
- Institutional Review Board, Long Island University-Post. 2016 - Present.

Departmental Representative.

- Campus-wide Open Houses, Long Island University-Post. 2016 - Present.
- Biomed Virtual Graduate Fair. 2016.
- High School Scholars Fair. 2016.

Ad hoc Reviewer:

- National Science Foundation Graduate Research Fellowship Program. 2016.
- Frontiers in Microbiology*. 2016.
- Vector Borne and Zoonotic Diseases*. 2016.

Volunteer:

- National Postdoctoral Association, Stony Brook University, Stony Brook, NY 2014 - 2016.
- Founder**, Postdoctoral Advisory Committee, Stony Brook University. 2016.
- Disease Detectives section at Islip Science Olympiad Invitational. 2015.
- Living Environment Class, Ward Melville High School. 2014.

Professional Development

- 2017 IDEAS I: Instructional Design Elements for Academic Success Course, Long Island University-Post, Brookville, NY.
- 2016 Fall Faculty/Staff Symposium on Learning Communities, Long Island University-Post, Brookville, NY.
Metropolitan Association of College and University Biologists Conference, SUNY Old Westbury, Old Westbury, NY.
Communicating Science: Improvisation for Scientists, Alan Alda Center for Communicating Science, Stony Brook University, Stony Brook, NY.
- 2015 Science Methods and Pedagogy, Stony Brook University, Stony Brook, NY.
Distilling Your Message, Alan Alda Center for Communicating Science, Stony Brook University, Stony Brook, NY
Teaching and Learning Colloquium, Stony Brook University, Stony Brook, NY
- 2013 Fundamentals of Course Design and Teaching, Albert Einstein College of Medicine, Bronx, NY.
- 2014 Metropolitan Association of College and University Biologists Conference, Molloy College, Rockville Centre, NY.

2012 Yeast Genetics and Genomics course, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

Professional Memberships

American Society of Microbiology, Metropolitan Association of College and University Biologists, Medical Mycological Society of the Americas

References

Available upon request