Ameya Pranav Jalihal
Ph.D Candidate, Nils Walter Lab
Cellular and Molecular Biology Program
University of Michigan, Ann Arbor

Education

Degree	GPA	Year
PhD Candidate, U of M, Ann Arbor, MI, USA	4.0 / 4.0	2015-present
B.Tech(Biotech.), SASTRA, Thanjavur, India	8.87 / 10	2011-2015

Awards and Fellowships

Graduate
Honorable Mention, Poster Presentation, 36th Ann. CMB Symposium 2018
Honorable mention, NSF GRFP, 2017
Conference Travel Grant, Rackham Graduate School, 2017
Pre-Candidate Fellowship, Rackham Graduate School, 2016
Bernard Maas Fellowship, 2015

Past
Khorana Scholarship, 2014
Indian Academy of Sciences Summer Fellowship, 2014
Department awards
Dean's List, 2011, 2012

Current Research Interests

Biophysical factors that influence intracellular protein phase separation.
Single molecule fluorescence microscopy and applications to intracellular biochemistry.

Publications

1. Pitchiaya S, Mourao MDA, *Jalihal AP*, Xiao L, Jiang X, Chinnaiyan A, Schnell S, and Walter NG. (2018) Dynamic recruitment of single RNAs to Processing bodies depends on RNA functionality". *Molecular Cell*. In revision.

2. *Jalihal AP*, Lund PA, and Walter NG. (2018) Coming Together: RNAs and Proteins Assemble under the Single-Molecule Fluorescence Microscope. *RNA Worlds* CSH Perspectives. In press.

3. Michelini F, *Jalihal AP*, Francia S, Meers C, Neeb ZT, Rossiello F, Gioia U, Aguado J, Luke B, Biamonti G, Nowacki M, Storici F, Carninci P, Walter NG and d'Adda di Fagagna F. (2018) From "cellular" RNA to "smart" RNA: multiple roles of RNA in genome stability". *Chemical Reviews.*

4. Ray JCJ, Wickersheim ML, *Jalihal AP*, Adeshina YO, Cooper TF, Balázsi G. (2016) Cellular growth arrest and persistence from enzyme saturation. *PLOS Comp. Bio.*

Presentations

[Oral] Biophysical Society Meeting, Baltimore, Maryland 2019
"Multimeric proteins reversibly form condensates upon osmotic compression".
Authors: Jalihal AP, Pitchiaya S, Walter NG

[Oral] RNA Society Meeting, University of California, Berkeley 2018
"Intracellular single particle tracking of miRNA induced silencing complexes and mRNAs reveals sub-stoichiometric, transient binding and induced target aggregation".
Authors: Jalihal AP, Li H, Walter NG

[Oral] RNA Society Meeting, Prague, Czech Republic 2017
"Microscopically visible liquid droplet P-bodies contribute minimally to miRNA mediated gene silencing".
Authors: Pitchiaya S, Jalihal AP, Max Denies, Mourao M, Schnell S, Walter NG

[Poster] Phase Separation Meeting, San Diego, CA 2017
"Characterizing hypertonicity induced P-Body aggregation".
Authors: Pitchiaya S, Jalihal AP, Max Denies, Walter NG

[Poster] Rustbelt RNA Meeting, Cleveland, OH 2016
"Microscopically visible P-bodies contribute minimally to miRNA-mediated gene silencing".
Authors: Pitchiaya S, Jalihal AP, Mourao M, Schnell S, Walter NG

Past Research Experiences

Undergraduate thesis project, University of Kansas Winter 2015
Design and implementation of synthetic genetic circuit in E. coli to study effect of bacterial cytosolic memory on growth phenotypes based on the Landauer Principle.
Mentor: Dr. Christian Ray.

Khorana Scholarship, Rice University Summer 2014
Computational modeling of the role of stochastic frequency modulated pulses of alternative sigma factor transcription in bacterial stress response.
Mentor: Dr. Oleg Igoshin.

IISER Mohali Summer Internship Summer 2013
Characterizing the functional role of cell adhesion molecules at neural synapses in learning and memory formation in C. elegans.
Mentor: Dr. Kavita Babu

Research Science Initiative-Chennai Summer 2010
Qualitative analysis of lipase producing bacteria.
Mentor Dr. P. Gautam

Activites

Mentorship	Mentored four rotators (CMB) and an undergraduate student in 2017-18
Organizations	Treasurer, Association of Multicultural Scientists, 2016-18
	Member, Website and Recruitment Committees of CMB Program, 2017-18
Teaching	Graduate Student Instructor, CDB 530 Fall 2018
Service	Assisted with reviewing article for PLOS ONE, 2018
Service	Highly involved in recruiting graduate students for PIBS/CMB, 2017-18
Outreach	Teaching Assistant for Computational Biology Summer Camp 2016, mirCore Science demonstrations volunteer at Michigan Science Center, Detroit, 2015-17
Past	President, Association of Multicultural Scientists, 2017
	Head of the Dramatics Club "The Studio". Involved in, and won awards for script writing, direction and acting. 2014-15
	Founder, "Science Arattai", an interdisciplinary forum for undergraduates in SASTRA to innovate in the life-sciences
Other	Learning and performing Hindustani vocal music. 2015-present