

## Sujatha Jagannathan

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### EDUCATION AND TRAINING

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- Fred Hutchinson Cancer Research Center, Seattle, WA** 2013 - present  
FSH society postdoctoral fellow  
Advisors: Robert K. Bradley and Stephen J. Tapscott
- Duke University, Durham, NC** 2013  
Ph.D. in Cell Biology  
Advisor: Christopher V. Nicchitta, Department of Cell Biology
- Center for DNA Fingerprinting, Hyderabad, India** 2004  
Summer Research Fellow of Indian Academy of Sciences  
Advisor: Gowrishankar Jayaraman, Laboratory of Bacterial Genetics
- Center for Biotechnology, Anna University, Chennai, India** 2002 - 2006  
B. Tech in Industrial Biotechnology  
Advisor: Krishnan Sankaran, Laboratory of Bacterial Pathogenesis

### FELLOWSHIPS AND RESEARCH FUNDING

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- FSH society postdoctoral fellowship 2014 - present  
Grant-in-Aid of Research Award, Sigma Xi national chapter 2011  
Graduate student mini-grant, Duke Chapter of Sigma Xi, Durham, NC 2010  
Summer Research Fellowship, Indian Academy of Sciences, India 2004

### HONORS AND AWARDS

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- RNA Society Award for the best poster, RNA stability meeting, Estes Park, CO 2015  
William J. Griffith University Service Award for Outstanding Service to Duke Community 2013  
Jo Rae Wright Prize for best poster, Cell Biology Department Retreat, Duke University 2012  
Graduated First Class with Distinction, Anna University, Chennai, India  
(Equivalent of *summa cum laude*) 2006

### ABSTRACTS AND PUBLICATIONS

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#### Publications: (\*Equal Contribution)

1. Feng Q, Snider L, **Jagannathan S**, Tawil R, van der Maarel SM, Tapscott SJ, Bradley RK. A feedback loop between nonsense-mediated decay and the retrogene DUX4 in facioscapulohumeral muscular dystrophy. *Elife*. 2015 Jan 7;4 PMID: 25564732.
2. **Jagannathan S**, Reid DW, Cox AH, Nicchitta CV. De novo translation initiation on membrane-bound ribosomes as a mechanism for localization of cytosolic protein mRNAs to the endoplasmic reticulum. *RNA*. 2014 Oct; 20(10):1489-98. PMID: 25142066.
3. **Jagannathan S\***, Hsu JC\*, Reid DW, Chen Q, Thompson WJ, Moseley AM, Nicchitta CV. Multifunctional roles for the protein translocation machinery in RNA anchoring to the endoplasmic reticulum. *J Biol Chem*. 2014 Sep 12; 289(37):25907-24. PMID: 25063809.

4. Lacsina JR, Marks OA, Liu X, Reid DW, **Jagannathan S**, Nicchitta CV. Premature translational termination products are rapidly degraded substrates for MHC class I presentation. PLoS One. 2012; 7(12):e51968. PMID: 23251665.
5. Chen Q\*, **Jagannathan S\***, Reid DW\*, Zheng T, Nicchitta CV. Hierarchical regulation of mRNA partitioning between the cytoplasm and the endoplasmic reticulum of mammalian cells. Mol Biol Cell. 2011 Jul 15; 22(14):2646-58. PMID: 21613539.
6. **Jagannathan S**, Nwosu C, Nicchitta CV. Analyzing mRNA localization to the endoplasmic reticulum via cell fractionation. Methods Mol Biol. 2011; 714:301-21. PMID: 21431749.

Manuscript under review (pre-print):

**Jagannathan S** and Bradley R. Translational plasticity facilitates the accumulation of nonsense genetic variants in the human population. bioRxiv. 2016. doi: <http://dx.doi.org/10.1101/038687>

**Selected presentations/Posters:**

1. **Jagannathan S**, Tapscott ST and Bradley RK. “Disruption of RNA and protein quality control in facioscapulohumeral muscular dystrophy”, The Center for NeuroGenetics 2nd Annual Brainstorm Symposium; December 2015, Gainesville, FL. ***Invited talk***
2. **Jagannathan S**, Feng Q, Snider L, Tapscott ST and Bradley RK. “Quantitative proteomic analysis of DUX4-expressing muscle cells reveals widespread post-transcriptional regulation”, FSH Society FSHD International Research Consortium and Research Planning workshops; October 2015; Boston, MA. ***Selected for oral presentation***
3. **Jagannathan S**, Feng Q, Snider L, Tapscott ST and Bradley RK. “Inefficient nonsense-mediated RNA decay underlies perturbed proteostasis in a human myopathy”, RNA stability meeting; June 2015, Estes Park, CO. ***Selected for the RNA Society Award for the best poster presentation***
4. **Jagannathan S** and Nicchitta CV. “Selective recruitment of mRNAs into stress granules upon UPR induction”, ASBMB special symposium on the multitasking endoplasmic reticulum in health and disease; May 2013; Warrenton, VA.
5. **Jagannathan S**, Chen Q, and Nicchitta CV. “mRNAs encoding ER-resident proteins undergo translation-independent localization to detergent resistant membrane domains of the ER”, NC RNA Society Symposium on RNA Biology IX: RNA Tool and Target; October 2011; RTP, NC. ***Selected for oral presentation***
6. **Jagannathan S**, Nwosu C, Zheng T, and Nicchitta CV. “Subcellular compartmentalization of mRNA in mammalian cells”, 4<sup>th</sup> RNA Stability Meeting; Oct 2010; Montreal, Canada.

**TEACHING AND MENTORING EXPERIENCE**

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Undergraduate student research mentor	2011
Mentored rotation students in the Nicchitta laboratory	2010 - 2013
Mentor for Women and Mathematics Mentoring program, Durham County, NC	2010