

SUJATHA JAGANNATHAN

University of Colorado Anschutz Medical Campus
Assistant Professor

EDUCATION AND TRAINING:

Anna University, Chennai, India	Industrial Biotechnology	B. Tech	2006
Duke University, Durham, NC	Cell Biology	PhD	2013
Fred Hutch Cancer Res Center, Seattle, WA	mRNA surveillance	Postdoc	2013–2017

PROFESSIONAL APPOINTMENTS:

Graduate Research Assistant	Duke University	2006–2013
Postdoctoral Fellow	Fred Hutch Cancer Res Center	2013–2017
Assistant Professor	University of Colorado Anschutz Medical Campus	2018–current

HONORS AND AWARDS:

- Summer Research Fellowship, Indian Academy of Sciences, 2004
- Graduated First Class with Distinction, Anna University, Chennai, India, 2006
- Grant-in-Aid of Research Award, Sigma Xi national chapter, 2011
- Jo Rae Wright Prize for the Best Poster presentation, Duke University, Durham, NC. 2012
- William J. Griffith University Service Award for Outstanding Service to Duke Community, 2013
- Postdoctoral Fellowship, FSHD Society, 2014 - 2017
- RNA Society Award for the Best Poster Presentation, RNA stability meeting, Estes Park, CO. 2015
- Recognized as an Outstanding Postdoc at the Fred Hutch Postdoc Appreciation Week. 2016, 2017

SELECTED PEER-REVIEWED PUBLICATIONS:

Pubmed: <https://www.ncbi.nlm.nih.gov/myncbi/sujatha.jagannathan.1/bibliography/public/>

Notation: #denotes Corresponding author; * denotes Equal Contribution

1. Dyle MC, Kolakada D, Cortazar MA, **Jagannathan S[#]**. How to get away with nonsense: Mechanisms and consequences of escape from nonsense-mediated RNA decay. *Wiley Interdiscip Rev RNA*. 2019 Jul 29:e1560. (Review article)
2. **Jagannathan S[#]**, Ogata Y, Gafken PR, Tapscott SJ, and Bradley RK. Quantitative proteomics reveals key roles for post-transcriptional gene regulation in the molecular pathology of FSHD. *Elife*. 2019; 8:e41740.
3. Feng Q, **Jagannathan S** and Bradley R. The RNA Surveillance Factor UPF1 Represses Myogenesis via Its E3 Ubiquitin Ligase Activity. *Molecular cell*. 2017; 67(2):239-251.e6.
4. **Jagannathan S** and Bradley R. Translational plasticity facilitates the accumulation of nonsense genetic variants in the human population. *Genome Res*. 2016 Sep 19.
5. **Jagannathan S^{*}**, Shadle SS^{*}, Resnick R, Snider L, Tawil RN, van der Maarel SM, Bradley RK and Tapscott SJ. Model systems of DUX4 expression recapitulate the transcriptional profile of FSHD cells. *Hum Mol Genet*. 2016 Aug 15.
6. 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.

RESEARCH SUPPORT:

Research Grant from Friends of FSH Research: Deciphering the role of aberrant protein synthesis in FSHD, 2018 – 2019 (PI)

Outstanding Investigator Award (R35), National Institute for General Medical Sciences: Understanding the variability in nonsense-mediated RNA decay, 2019–2023. (PI)

SELECTED TALKS AND SEMINARS

National

- May 2019 RNA Interest Group, University of Utah, Salt Lake City, UT (*Invited speaker*).
- April 2019 Stowers Institute for Medical Research, Kansas City, MO (*Invited speaker*).
- Feb 2019 GRC on Translation machinery in health and disease; Galveston, TX (*Invited speaker*).
- June 2018 FASEB SRC on Ubiquitin and Cellular Regulation, Snowmass, CO (*Talk*).
- Oct 2017 Symposium on RNA Biology XII: RNA Tool and Target; Chapel Hill, NC (*Talk*).
- May 2017 Western Washington University, Bellingham, WA (*Invited speaker*).
- Nov 2016 FSHD International Research Consortium Workshop; Boston, MA (*Talk*).
- Dec 2015 The Center for NeuroGenetics 2nd Annual Brainstorm Symposium; Gainesville, FL (*Invited speaker*).
- Oct 2015 FSHD International Research Consortium Workshop; Boston, MA (*Talk*).
- Oct 2011 Symposium on RNA Biology IX: RNA Tool and Target; RTP, NC (*Talk*).

Regional

- 2018, 2019 Lunch Seminar for RNA Bioscience Initiative Summer Internship Program, CU Anschutz, Aurora, CO.
- June 2019 Neurology Grand Rounds, CU Anschutz, Aurora, CO.
- June 2019 University of Colorado Muscle Group Research Summit, CU Anschutz, Aurora, CO.
- April 2019 Informatics Symposium, CU Anschutz, Aurora, CO.
- April 2019 Department of Medicine Research Day, CU Anschutz, Aurora, CO.
- March 2019 An Evening with RNA, CU Boulder, Boulder, CO.
- Oct 2018 Molecular Biology Program Annual Retreat, CU Anschutz, Aurora, CO.
- April 2018 University of Colorado, Denver; Integrative Biology Department Seminar (*Student-invited seminar*).
- Jan 2018 University of Colorado Molecular Biology Training Program, Membership Seminar, CU Anschutz, Aurora, CO.

TEACHING

- Spring 2019 Course Director, Computational biology for biologists with R, University of Colorado Denver Graduate School (MOLB 7910)
- Fall 2018 Core Topics in Biomedical Sciences University of Colorado Denver Graduate School (IDPT 7810-008)
- Spring 2017 Science Teaching Experience for Postdocs (STEP) program, University of Washington, Seattle, WA. (Designed and co-taught a 10-week class on Precision Medicine to a class of 25 undergraduate seniors majoring in Biology).

MENTORING

- 2019 - current *Mentor*, WiSTEM at CU Anschutz, Aurora, CO.
- 2019 - current *Mentor*, Mentor Collective, CU Anschutz, Aurora, CO.
- 2017 – 2018 *Mentor*, The New York Academy of Sciences (NYAS) Next Scholars Program.
- 2010 – 2011 *Mentor*, Women and Mathematics Mentoring Program, Durham County, NC.
(Mentored three under-represented minority 8th grade girls).

SERVICE

National

- 2019 *Ad hoc reviewer* of NIH Study section (MGB), Bethesda, MA.
- 2016 - *Reviewer* for Nature Biotechnology; Nucleic Acids Research; Genetics and
current Molecular Biology

Regional

- 2019 *Panelist*, Postdoc career panel, Postdoc Appreciation Week, CU Anschutz, Aurora, CO.
- 2019 *Member*, CSD Graduate Advisory Committee, CU Anschutz, Aurora, CO.
- 2019 *Member*, CSD Preliminary Exam Committee, CU Anschutz, Aurora, CO.
- 2018/2019 *Member*, Structural Biology Initiative Faculty Search Committee, CU Anschutz, Aurora, CO.
- 2018 - current *Co-organizer*, Colorado RNA Salon, RNA Society.
- 2018, 2019 *Member*, Molecular Biology Seminar Committee, CU Anschutz, Aurora, CO.
- 2018, 2019 *Reviewer*, RNA Bioscience Initiative Grants Committee, CU Anschutz, Aurora, CO.
- 2018 *Reviewer*, RNA Bioscience Initiative Scholar Award committee, CU Anschutz, Aurora, CO.
- 2017 *Reviewer*, Weintraub Graduate Student award, Fred Hutch Cancer Research Center, Seattle, WA.
- 2016 *Reviewer*, Hutch United Fellowships for under-represented minorities, Fred Hutch Cancer Research Center, Seattle, WA.

COMMUNITY OUTREACH

- Sep 2019 *Invited Speaker*, FSHD Walk and Roll Fundraiser, Castle Rock, CO.
- June 2019 *Host and Speaker*; World FSHD Day – Patient connect event, CU Anschutz, Aurora, CO. Brought together the local FSHD patient and research community for an evening of talks, lab tours, and activities.
- Nov 2018 *Curator* for BioTweeps, a twitter community of biologists with 18,000 followers (& growing). During the course of a week, I discussed my work, latest developments in RNA biology and its applications to disease research, and about being a scientist.
- Oct 2018 *Invited speaker* for the FSH Society Denver chapter launch, Denver, CO.
- April 2018 *Invited speaker* at the Denver FSHer meeting; Discussed the current state of FSHD research and answered questions from patients and families. Denver, CO.
- 2018, 2019 *Skype-a-scientist facilitator*; Discussed various topics in cell biology and about being a Cell Biologist with a 7th grade classroom for the Skype-a-scientist program.