BIOGRAPHICAL SKETCH

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NAME: Priya Ramaswamy, Ph.D.

eRA COMMONS USER NAME (credential, e.g., agency login): pramaswamy

POSITION TITLE: Associate Professor of Molecular Biology

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University of California, Berkeley	B.S.	05/2006	Molecular & Cell Biology
University of California, San Francisco	Ph.D.	06/2012	Biochemistry
Stanford University	Postdoc	08/2016	Cell Biology

A. Personal Statement

My laboratory studies how mitochondrial quality-control pathways fail in ageing neurons. Over the past decade I have developed live-imaging assays that resolve individual mitophagy events in intact tissue, published in Cell and Nature Cell Biology, and I have secured continuous NIH R01 funding for this line of work since 2018. I am well positioned to lead the proposed project: my group has the imaging infrastructure, the mouse models, and the track record of training students who have gone on to independent faculty positions.

B. Positions, Scientific Appointments, and Honors

B..1 Positions and Employment

2016–2019 Postdoctoral Fellow, Department of Biology, Stanford University
2019–2023 Assistant Professor, Department of Molecular Biology, Duke University
2023–Present Associate Professor, Department of Molecular Biology, Duke University

B..2 Honors

2021 NIH New Innovator Award
2019 Duke University Whitehead Scholar
2012 UCSF Byers Award for Basic Science

C. Contribution to Science

C..0.1 Mitophagy in ageing neurons

Developed a dual-reporter system distinguishing autophagosome formation from lysosomal fusion in live neurons, resolving a decade-old debate about where mitophagy stalls with age.

- Ramaswamy P, et al. Cell 2020.
- Ramaswamy P, Chen L. Nat Cell Biol 2022.