# Senthil Radhakrishnan, PhD



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## Education

- 1998 B.Tech, Industrial Biotechnology, Anna University, Chennai, India
- 2002 M.S., Math & Computer Science, University of Illinois at Chicago
- 2006 PhD, Microbiology & Immunology, University of Illinois at Chicago
- 2014 Postdoctoral Research, California Institute of Technology

### Selected Awards & Honors

- 2021 American Cancer Society (ACS) Research Scholar Award
- 2011 NIH/NCI Pathway to Independence Award (K99/R00)
- 2011 The Leukemia & Lymphoma Society (LLS) Special Fellow Award
- 2007 Department of Defense (DoD) Breast Cancer Research Program (BCRP) Multidisciplinary Postdoctoral Award

## **Recent Grants and Funding**

#### Active

NIH/NCI R01CA279255 (MPI: Radhakrishnan, Kleiger, Sergienko) 2023–2027 Identification of small molecule inhibitors of the DDI2 protease NIH/NIGMS R01GM132396 (PI: Radhakrishnan) 2019-2025 Nrf1-dependent Proteotoxic Stress Response American Cancer Society (ACS) RSG-21-036-01-TBE (PI: Radhakrishnan) 2021 - 2025Understanding and Targeting Nrf1 Pathway in Triple-negative Breast Cancer NIH/NIA 2022 - 2025R03AG073884 (PI: Radhakrishnan) Analysis of Nrf1 pathway in Alzheimer's Disease Department of Defense (DoD) Rare Cancers Research Program W81XWH-22-1-0938 (PI: Radhakrishnan) 2022 - 2024Targeting the Sumoylation Pathway in Synovial Sarcoma NIH/NCI R01CA251405 (co-I: Radhakrishnan; PI: Atfi) 2020 - 2025Targeting Transglutaminase 2 in cancer cachexia Former Grants Grace Science Foundation 2018 - 2020Pilot Grant (PI: Radhakrishnan) Investigating the autophagy pathway in NGLY1 deficient cells NIH/NCI R00CA154884 (PI: Radhakrishnan) 2014 - 2018K99/R00 Pathway to Independence Award – Independent Phase Understanding and targeting Nrf1-mediated proteasome recovery pathway in cancer VCU Massey Cancer Center ACS-IRG award (PI: Radhakrishnan) 2017 - 2018Targeting SWI/SNF complex to improve efficacy of proteasome inhibitor therapy

## **Editorial Advisory Boards**

PLoS ONE Editorial Board Member (from 2019)

### **Professional Service**

2024 – present	NCI Transition to Independence study section; Chartered member reviewer (4-year appointment until June 2028)
2024 – present	American Cancer Society; Term member reviewer for Tumor Biochemistry & Endocrinology (TBE) study section (3-year appointment until Dec 2026)
2023 – present	Member of VCU School of Medicine Graduate Programs Committee
2023 – present	Alternate Member, Richmond Veterans Affairs Medical Center (VAMC) Subcommittee on Research Safety (SRS) & Institutional Biosafety Committee (IBC)
2023 – 2024	Member of Search Committee to recruit Chair of Pathology at VCU
2023 – present	Member of Chairs' Interdepartmental Research Collaboration (CIRC) initiative
2021 – present	Vice Chair of the VCU Institutional Animal Care & Use Committee (IACUC)
2018 – present	Scientist Member of the VCU IACUC
2019 – 2020	Chair of Search Committee to recruit a faculty member for the Dept of Pathology
2018 – present	Chair for the Dept of Pathology "Grants in Progress" meetings where faculty members present their grant proposals and receive feedback
2016 – 2018	Member of Search Committee to recruit a Chair for Division of Cellular & Molecular Pathogenesis, Dept of Pathology
2015 – 2017	Member of Search Committee to recruit Pathology Informaticist for Dept of Pathology

## **Recent Invited Presentations**

2024	Regulation of cellular proteolytic pathways by transcription factor Nrf1: Implications for Tau aggregates in Alzheimer's Disease. New Investigators in Alzheimer's Disease Conference, Bethesda, MD
2023	Transcription factor Nrf1 regulates proteotoxic stress-induced autophagy. Grace Science Foundation meeting (Virtual).
2022	Regulation of cellular proteolytic pathways by transcription factor Nrf1. Fels Institute for Cancer Research & Molecular Biology, Temple University, Philadelphia, PA
2020	Transcriptional Regulation of the Proteasome: Implications for Cancer Therapy. Cell & Experimental Biology Conference (Virtual)
2018	Targeting the Nrf1-mediated proteasome recovery pathway in cancer. Discovery on Target conference, Boston, MA
2018	Nrf1-dependent protein quality control pathways in NGLY1-deficient cells. Grace Science Foundation conference, Palo Alto, CA

### **Publications**

Complete List of Published Work in MyBibliography <a href="https://www.ncbi.nlm.nih.gov/myncbi/senthil%20kumar.radhakrishnan.1/bibliography/public/">https://www.ncbi.nlm.nih.gov/myncbi/senthil%20kumar.radhakrishnan.1/bibliography/public/</a>