Hani Goodarzi
Associate Professor
University of California, San Francisco

CONTACT INFORMATION

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ACADEMIC APPOINTMENTS

- **2022-present:** Associate Professor.
  Department of Biochemistry & Biophysics,
  Bakar Computational Health Sciences Institute,
  Helen Diller Family Comprehensive Cancer Center.
- **2016-2022:** Assistant Professor.
  University of California, San Francisco
- **2012-2016:** Postdoctoral Fellow in Cancer Genomics.
  Rockefeller University

EDUCATION

Princeton University, Princeton, NJ USA
Molecular Biology, November 2010
University of Tehran, Tehran, Iran
B.S., Biotechnology, June 2006

AWARDS AND HONORS

- **2022:** CZ Biohub Investigator
- **2022:** Vilcek Prize for Creative Promise in Biomedical Sciences
- **2021:** Mark Foundation ASPIRE Award
- **2020:** AACR-MPM Oncology Foundation Transformative Cancer Research
- **2020:** Breast Cancer Alliance Exceptional Project Award
- **2019:** Mary Kay Foundation Award
- **2017:** AAAS Martin and Rose Wachtel Cancer Research Award
- **2017:** AACR NextGen Award for Transformative Cancer Research
- **2017:** Sidney Kimmel Cancer Foundation Scholar Award
- **2015:** Blavatnik Regional Award Winner for Life Sciences
- **2015:** Tri-Institutional Breakout Prize for Junior Investigators
- **2015:** NIH Pathway to Independence Award (K99/R00)
- **2014:** Ruth L. Kirschstein National Research Service Award

PROFESSIONAL ACTIVITY

- **Study sections:** *Ad hoc* member on Cancer Molecular Pathobiology (CAMP), Tumor Evolution, Heterogeneity and Metastasis (TEHM), Biodata Management and Analysis (BDMA), and Molecular Genetic B (MGB) study sections (NIH); RNA Mechanisms in Cancer committee at American Cancer Society.
- **Journals:** *Ad hoc* referee for the following journals: Science, Nature, Nature Communications, Nature Reviews Molecular Cell Biology, Molecular Biosystems, Frontiers in Physiology, European Urology, Computational and Structural Biotechnology Journal, Breast Cancer: Basic and Clinical Research,

Molecular Biology and Evolution, and BMC Cancer.

- **Teaching:** Dynamical Systems Modeling (BP205B) and Cancer Biology (BMS230).

Selected Publications

Passarelli MC, et al, **Goodarzi H**†, and Tavazoie SF† (2022). Leucyl-tRNA synthetase is a tumour suppressor in breast cancer and regulates codon-dependent translation dynamics. ***Nature Cell Biol***, 13(1):167 †Corresponding authors

Fish L, Khoroshkin M, Navickas A, et al, **Goodarzi H** (2021). A pro-metastatic splicing program regulated by SNRPA1 interactions with structured RNA elements. ***Science***, 372 (6543) eabc7531

Samuel RM, Majd H, Richter M, et al, Ott M, et al, **Goodarzi H**†, and Fattahi F† (2020). Androgen Signaling Regulates SARS-CoV-2 Receptor Levels and Is Associated with Severe COVID-19 Symptoms in Men. ***Cell Stem Cell***, 27:876-889.†Corresponding authors

Yu J, Navickas A, Asgharian H, et al, and **Goodarzi H** (2020). RBMS1 Suppresses Colon Cancer Metastasis through Targeted Stabilization of Its mRNA Regulon. ***Cancer Discovery***, 10(9):1410.

Fish L, Navickas A, Culbertson B, et al, Ruggero D, and **Goodarzi H** (2018). Nuclear TARBP2 Drives Oncogenic Dysregulation of RNA Splicing and Decay. ***Molecular Cell***, 75(5), 967-81.

Fish L, Zhang S, Yu J, Culbertson B, Zhou A, Goga A, **Goodarzi H** (2018). Cancer cells exploit an orphan RNA to drive metastatic progression. ***Nature Medicine***, 24: 1743-51.

Goodarzi H†*, Nguyen HCB*, Zhang S, Dill BD, Molina H, Tavazoie SF† (2016). Abundance of specific tRNA species drives cancer progression. ***Cell***, 165: 1416-1427. †Corresponding authors

Goodarzi H, Liu X, Nguyen HCB, Zhang S, Fish L, Tavazoie SF (2015). Endogenous tRNA-derived fragments suppress breast cancer progression via YBX1 displacement. ***Cell***, 161: 790-802.

Goodarzi H, Zhang S, Buss CG, Fish L, Tavazoie S, Tavazoie SF (2014). Metastasis-suppressor transcript destabilization through TARBP2 binding of mRNA hairpins. ***Nature*** 513, 255-260.

Oikonomou P*, **Goodarzi H***, Tavazoie S (2014). Systematic Identification of Regulatory Elements in Conserved 3' UTRs of Human Transcripts. ***Cell Reports*** 7(1): 281-292. *Equal contribution

Freddolino PL*, **Goodarzi H***, Tavazoie S (2012). Fitness landscape transformation through a single amino acid change in the Rho terminator. ***PLoS Genet*** 8(5), e1002744. *Equal contribution

Goodarzi H, Najafabadi HS, Oikonomou P, Greco TM, Fish L, Salavati R, Cristea IM, Tavazoie S (2012). Systematic discovery of structural elements governing stability of mammalian messenger RNAs. ***Nature*** 485, 264-268.

Goodarzi H, Bennet BD, Amini S, Reaves ML, Hottes AK, Rabinowitz JD, Tavazoie S (2010). Regulatory and metabolic rewiring during laboratory evolution of ethanol tolerance in *E. coli*. ***Mol Syst Biol*** 6:378.

Goodarzi H, Elemento O, Tavazoie S (2009). Revealing Global Regulatory Perturbations across Human Cancers. ***Mol Cell*** 36: 900-911.

Goodarzi H, Hottes AK, Tavazoie S (2009). Global discovery of adaptive mutations. ***Nature Methods*** 6(8):581-3.

Intellectual Property

Goodarzi H, Tavazoie SF (2016). Transfer RNA (tRNA) quantification. US patent Application No. 20170298433, Filed April 14, 2016.

Goodarzi H (2017). Non-coding RNA for Detection of Cancer. PCT/US18/060113, Filed November 09, 2018.

Goodarzi H (2021). System And Methods of Detection Of OncRNAs For Cancer Diagnosis. No. PCT/US21/46186.