Stanford

Avinash Londhe

Postdoctoral Scholar, Pathology

NIH Biosketch available Online Curriculum Vitae available Online

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BIO

Dr. Avinash Londhe is a postdoctoral researcher in Dr. Katrin Svensson's lab in the Department of Pathology at Stanford University, where he investigates the complex mechanisms linking cancer, metabolism, and obesity. His research focuses on understanding how orphan peptide hormones regulate metabolic pathways and identifying novel receptor-peptide interactions. Driven by a passion for translational science, Dr. Londhe is committed to translating fundamental discoveries into real-world solutions that improve patient outcomes.

During his doctoral training in Dr. Benoit Boivin's lab at SUNY Polytechnic Institute, Dr. Londhe gained in-depth expertise in molecular mechanisms underlying metabolic disorders and cancer. His work contributed to the development of therapeutic strategies aimed at metabolic dysfunction. In addition to research, he excelled at managing laboratory operations and mentoring both graduate and undergraduate students, fostering a dynamic and collaborative research environment.

Currently, Dr. Londhe is broadening his research toolkit by integrating bioinformatics, molecular biology, and biophysical techniques into his experimental approaches. His goal is to address critical challenges in cancer metabolism and metabolic diseases through innovative research.

Dr. Londhe aspires to secure a faculty position at a leading university, where he can advance impactful research, mentor emerging scientists, and continue driving scientific innovation.

HONORS AND AWARDS

- RNA Fellow, RNA Institute, University of Albany (2020)
- Young Investigator Award, Society for Redox Biology and Medicine (Nov-2022)
- John J. Sullivan Professional Development Award, State University of New York (02/2020, 11/2022)
- Campus de Excelencia Internacional UAM+CSIC, Universidad Autonoma de Madrid (Sep-2014)
- Eklavya Fellowship for Masters, Eklavya India Foundation (2008)

PROFESSIONAL EDUCATION

- Ph.D., State Unviersity of New York, Albany NY , Nanobioscience (2024)
- M.S., Autonomous University of Madrid, Spain , Molecular Biomedicine (2015)
- M.Sc., National Institute of Virology, Pune , Virology (2010)
- Bachelor of Science, University Of Pune (2008)

STANFORD ADVISORS

- Katrin Svensson, Postdoctoral Faculty Sponsor

LINKS

- LinkedIn Page: https://www.linkedin.com/in/avinash-londhe-phd-8a818884/
- Svensson Lab Website: https://www.svenssonlabstanford.org/

Publications

PUBLICATIONS

- **Measuring the Reversible Oxidation of Protein Tyrosine Phosphatases Using a Modified Cysteinyl-Labeling Assay.** *Methods in molecular biology (Clifton, N.J.)*
  Londhe, A. D., Boivin, B.
  2024; 2743: 223-237

- **Protein tyrosine phosphatase 1B regulates miR-208b-argonaute 2 association and thyroid hormone responsiveness in cardiac hypertrophy.** *Science signaling*
  Coulis, G., Londhe, A. D., Sagabala, R. S., Shi, Y., Labbé, D. P., Bergeron, A., Sahadevan, P., Nawaito, S. A., Sahmi, F., Josse, M., Vinette, V., Guertin, M. C., Karsenty, et al
  2022; 15 (730): eabn6875

- **In Vitro Activity Assays to Quantitatively Assess the Endogenous Reversible Oxidation State of Protein Tyrosine Phosphatases in Cells.** *Current protocols in chemical biology*
  Londhe, A. D., Rizvi, S. H., Boivin, B.
  2020; 12 (3): e84

- **Regulation of PTP1B activation through disruption of redox-complex formation.** *Nature chemical biology*
  Londhe, A. D., Bergeron, A., Curley, S. M., Zhang, F., Rivera, K. D., Kannan, A., Coulis, G., Rizvi, S. H., Kim, S. J., Pappin, D. J., Tonks, N. K., Linhardt, R. J., Boivin, et al
  2020; 16 (2): 122-125

- **Expression, purification and crystallization of acetyl-CoA hydrolase from Neisseria meningitidis.** *Acta crystallographica. Section F, Structural biology and crystallization communications*
  Khandokar, Y. B., Londhe, A., Patil, S., Forwood, J. K.
  2013; 69 (Pt 11): 1303-6