Stanford

Aravind Natarajan

Postdoctoral Research Fellow, Hematology

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Cornell University , Microbiology (2019)
- Master of Science, Madurai Kamaraj University , Genomics (2011)
- Bachelor of Science, Madras University , Biochemistry (2009)

STANFORD ADVISORS

- Ami Bhatt, Postdoctoral Faculty Sponsor
- Ami Bhatt, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Engineering orthogonal human O-linked glycoprotein biosynthesis in bacteria.** *Nature chemical biology*
  Natarajan, A., Jaroentomeechai, T., Cabrera-Sánchez, M., Mohammed, J. C., Cox, E. C., Young, O., Shajahan, A., Vilkhovoy, M., Vadhin, S., Varner, J. D., Azadi, P., DeLisa, M. P.
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- **Microbes and microbiomes in 2020 and beyond.** *Nature communications*
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- **Glyco-recoded Escherichia coli: Recombineering-based genome editing of native polysaccharide biosynthesis gene clusters** *METABOLIC ENGINEERING*
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- **A cell-free biosynthesis platform for modular construction of protein glycosylation pathways.** *Nature communications*
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- **Single-pot glycoprotein biosynthesis using a cell-free transcription-translation system enriched with glycosylation machinery (vol 9, 2018)** *NATURE COMMUNICATIONS*
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- **A cell-free platform for rapid synthesis and testing of active oligosaccharyltransferases** *BIOTECHNOLOGY AND BIOENGINEERING*
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- **Metabolic engineering of glycoprotein biosynthesis in bacteria.** *Emerging topics in life sciences*

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- **An Engineered Survival-Selection Assay for Extracellular Protein Expression Uncovers Hypersecretory Phenotypes in Escherichia coli** *ACS SYNTHETIC BIOLOGY*
  Natarajan, A., Haitjema, C. H., Lee, R., Boock, J. T., DeLisa, M. P.
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- **Substitute sweeteners: diverse bacterial oligosaccharyltransferases with unique N-glycosylation site preferences** *SCIENTIFIC REPORTS*
  Ollis, A. A., Chai, Y., Natarajan, A., Perregaux, E., Jaroentomeechai, T., Guarino, C., Smith, J., Zhang, S., DeLisa, M. P.
  2015; 5: 15237
- **Universal Genetic Assay for Engineering Extracellular Protein Expression** *ACS SYNTHETIC BIOLOGY*
  Haitjema, C. H., Boock, J. T., Natarajan, A., Dominguez, M. A., Gardner, J. G., Keating, D. H., Withers, S. T., DeLisa, M. P.
  2014; 3 (2): 74–82