

SOUMYA DARSHANA NAYAK

Publications

Journal Articles

- 2024 **Soumya Nayak** and Ramanathan Sowdhamini. Identification and study of prolyl oligopeptidases and related sequences in bacterial lineages. *bioRxiv*. Cold Spring Harbor Laboratory, 2024.
- 2024 **Soumya Nayak**, Dheemanth Reddy Regati, and Ramanathan Sowdhamini. Sequence and structural analysis of human gut microbial prolyl oligopeptidases (pops): towards design of therapeutics for celiac disease. *Accepted in Scientific Reports*, 2024.
- 2022 Teerna Bhattacharyya, **Soumya Nayak**, Smit Goswami, Vasundhara Gadiyaram, Oommen K Mathew, and Ramanathan Sowdhamini. Pass2.7: a database containing structure-based sequence alignments and associated features of protein domain superfamilies from scope. *Database*, volume 2022. Oxford University Press (OUP), January 2022.
- 2019 Arunachalam Ramaiah, **Soumya Nayak**, Srabanti Rakshit, Abigail L. Manson, Thomas Abeel, Sivakumar Shanmugam, Pravat Nalini Sahoo, Anto Jesuraj Uday Kumar John, Jagadish Chandrabose Sundaramurthi, Sujatha Narayanan, George D'Souza, Paul von Hoegen, Tom H. M. Ottenhoff, Soumya Swaminathan, Ashlee M. Earl, and Annapurna Vyakarnam. Evidence for highly variable, region-specific patterns of t-cell epitope mutations accumulating in mycobacterium tuberculosis strains. *Frontiers in Immunology*, volume 10. Frontiers Media SA, February 2019.
- 2018 Asma Ahmed, Vasista Adiga, **Soumya Nayak**, J. Anto Jesuraj Uday Kumar, Chirag Dhar, Pravat Nalini Sahoo, Bharath K. Sundararaj, George D. Souza, and Annapurna Vyakarnam. Circulating hla-dr+cd4+ effector memory t cells resistant to ccr5 and pd-l1 mediated suppression compromise regulatory t cell function in tuberculosis. *PLOS Pathogens*, volume 14, page e1007289. Public Library of Science (PLOS), September 2018.
- 2017 Awanti Sambarey, Abhinandan Devaprasad, Abhilash Mohan, Asma Ahmed, **Soumya Nayak**, Soumya Swaminathan, George D'Souza, Anto Jesuraj, Chirag Dhar, Subash Babu, Annapurna Vyakarnam, and Nagasuma Chandra. Unbiased identification of blood-based biomarkers for pulmonary tuberculosis by modeling and mining molecular interaction networks. *EBioMedicine*, volume 15, page 112–126. Elsevier BV, February 2017.
- 2017 Srabanti Rakshit, Vasista Adiga, **Soumya Nayak**, Pravat Nalini Sahoo, Prabhat Kumar Sharma, Krista E. van Meijgaarden, Anto Jesuraj UK J., Chirag Dhar, George D. Souza, Greg Finak, Stephen C. De Rosa, Tom H. M. Ottenhoff, and Annapurna Vyakarnam. Circulating mycobacterium tuberculosis dosr latency antigen-specific, polyfunctional, regulatory il10+ th17 cd4 t-cells differentiate latent from active tuberculosis. *Scientific Reports*, volume 7. Springer Science and Business Media LLC, September 2017.
- 2016 Oliver J Hickman, Richard A Smith, Prokar Dasgupta, Sudha Narayana Rao, **Soumya Nayak**, Shubha Sreenivasan, Annapurna Vyakarnam, and Christine Galustian. Expression of two wfdc1/ps20 isoforms in prostate stromal cells induces paracrine apoptosis through regulation of ptgs2/cox-2. *British Journal of Cancer*, volume 114, page 1235–1242. Springer Science and Business Media LLC, April 2016.
- 2014 Meeta Sunil, Arun K. Hariharan, **Soumya Nayak**, Saurabh Gupta, Suran R. Nambisan, Ravi P. Gupta, Binay Panda, Bibha Choudhary, and Subhashini Srinivasan. The draft genome and transcriptome of amaranthus hypochondriacus: A c4 dicot producing high-lysine edible pseudo-cereal. *DNA Research*, volume 21, page 585–602. Oxford University Press (OUP), July 2014.

In Conference Proceedings

- 2016 A. Ramaiah, **Soumya Nayak**, S. Rakshit, A. McGuire, S. Shanmugam, J. Chandrabose, S. Narayanan, A. EarL, S. Swaminathan, and A. Vyakarnam. Evolutionary patterns of t cell epitopes in mycobacterium tuberculosis strains isolated in india. *International Journal of Infectious Diseases*, volume 45, page 33. Elsevier BV, April 2016.
- 2016 A. Ahmed, **Soumya Nayak**, S. Babu, and A. Vyakarnam. Impact of type i ifn dysregulation in m. tuberculosis infection on t cell responses. *International Journal of Infectious Diseases*, volume 45, page 35. Elsevier BV, April 2016.