BIOGRAPHICAL SKETCH

NAME: Jain, Ankit

POSITION TITLE: Scientist D, Biomolecular Mass Spectrometry Facility				
EDUCATION				
INSTITUTION	FIELD OF STUDY	DEGREE	Year	
University of Mumbai, Mumbai, Maharashtra	Biotechnology	BSc	2009	
University of Mumbai, Mumbai, Maharashtra	Life Science	MSc	2011	

Biotechnology

PhD

2019

A. Positions, Scientific Appointments and Honors

Kalinga Institute of Industrial Technology

(Deemed University), Bhubaneshwar, Odisha

Positions and Scientific Appointments

2023 -	Scientist D, Biomolecular Mass Spectrometry Facility, National Centre for Biological Sciences, Bangalore
2021 - 2023	Postdoctoral Research Fellow, Emory University, Atlanta, GA
2018 - 2021	Postdoctoral Research Fellow, Institute of Bioinformatics, Bengaluru
2013 - 2014	Research Fellow, Institute of Bioinformatics, Bengaluru

Scientific Associations

Reviewer	Indian Journal of Clinical Biochemistry Springer Nature
2013 - 2019	Member of Proteomics Society of India
2021 - 2025	Member of American Society for Mass Spectrometry

Invited Talks

2023	16th Uppsala Conference (UPPCON 2023), Oregon State University, Oregon
2024	Advances in Proteomics Technologies (APT) – 2024, IIT-Mumbai
2024	Hands-On Workshop on Targeted Mass spectrometry, C-CAMP, Bengaluru

B. Research profile

Publication Profile

- Total publications: 23, Citations: 450
- i10-index: 16, H-index: 14

Publications

- 1. Jain AP, Sambath J, Sathe G, George IA, Pandey A, Thompson EW, Kumar P. Pan-cancer quantitation of epithelial-mesenchymal transition dynamics using parallel reaction monitoring-based targeted proteomics approach. J Transl Med. 2022 Feb 11;20(1):84
- 2. Priya R, Jain V, Akhtar J, Chauhan G, Sakhuja P, Goyal S, Agarwal AK, Javed A, **Jain AP**, *et. al.* Plasmaderived candidate biomarkers for detection of gallbladder carcinoma. **Sci Rep. 2021** Dec 7;11(1):23554
- 3. Jain AP, Radhakrishnan A, Pinto S, Patel K, *et. al.* How to Achieve Therapeutic Response in Erlotinib-Resistant Head and Neck Squamous Cell Carcinoma? New Insights from Stable Isotope Labeling with Amino Acids in Cell Culture-Based Quantitative Tyrosine Phosphoproteomics. **OMICS. 2021** Sep;25(9):605-616
- 4. Byeon SK, Madugundu AK, **Jain AP**, Bhat FA, *et. al.* Cerebrospinal fluid lipidomics for biomarkers of Alzheimer's disease. **Mol Omics. 2021** Jun 14;17(3):454-463
- 5. Jain AP, Sathe G. Proteomics Landscape of Alzheimer's Disease. Proteomes. 2021 Mar 10;9(1)
- 6. Khanna S, Padhan P, Jaiswal KS, **Jain AP**, Ghosh A, *et. al.* Altered mitochondrial proteome and functional dynamics in patients with rheumatoid arthritis. **Mitochondrion. 2020** Sep;54:8-14

- Sathe G, George IA, Deb B, Jain AP, et. al. Urinary glycoproteomic profiling of non-muscle invasive and muscle invasive bladder carcinoma patients reveals distinct N-glycosylation pattern of CD44, MGAM, and GINM1. Oncotarget. 2020 Aug 25;11(34):3244-3255
- 8. Puttamallesh VN, Deb B, Gondkar K, Jain AP, *et. al.* Quantitative Proteomics of Urinary Bladder Cancer Cell Lines Identify UAP1 as a Potential Therapeutic Target. Genes (Basel). 2020 Jul 8;11(7)
- 9. Sathe G, Mangalaparthi KK, Jain AP, Darrow J, et. al. Multiplexed Phosphoproteomic Study of Brain in Patients with Alzheimer's Disease and Age-Matched Cognitively Healthy Controls. OMICS. 2020 Apr;24(4):216-227
- 10. Jain AP*, Patel K*, Pinto S, Radhakrishnan A, *et. al.* MAP2K1 is a potential therapeutic target in erlotinib resistant head and neck squamous cell carcinoma. Sci Rep. 2019 Dec 11;9(1):18793
- 11. Rajagopalan P, Nanjappa V, Patel K, **Jain AP**, *et. al.* Role of protein kinase N2 (PKN2) in cigarette smokemediated oncogenic transformation of oral cells. J Cell **Commun Signal. 2018** Dec;12(4):709-721
- 12. Rajagopalan P*, **Jain AP***, Nanjappa V, Patel K, *et. al.* Proteome-wide changes in primary skin keratinocytes exposed to diesel particulate extract-A role for antioxidants in skin health. **J Dermatol Sci. 2018** Sep;91(3):239-249
- 13. Rajagopalan P, Patel K, Jain AP, Nanjappa V, *et. al.* Molecular alterations associated with chronic exposure to cigarette smoke and chewing tobacco in normal oral keratinocytes. Cancer Biol Ther. 2018;19(9):773-785
- 14. Solanki HS, Babu N, Jain AP, Bhat MY, et. al. Cigarette smoke induces mitochondrial metabolic reprogramming in lung cells. Mitochondrion. 2018 May;40:58-70
- 15. Babu N, Advani J, Solanki HS, Patel K, **Jain AP**, *et. al.* miRNA and Proteomic Dysregulation in Non-Small Cell Lung Cancer in Response to Cigarette Smoke. **Microrna. 2018**;7(1):38-53
- 16. Nanjappa V, Raja R, Radhakrishnan A, Jain AP, et. al. Testican 1 (SPOCK1) and protein tyrosine phosphatase, receptor type S (PTPRS) show significant increase in saliva of tobacco users with oral cancer. Translational Research in Oral Oncology. 2018/01; 3:2057178X18800534
- Advani J, Subbannayya Y, Patel K, Khan AA, Patil AH, Jain AP, et. al. Long-Term Cigarette Smoke Exposure and Changes in MiRNA Expression and Proteome in Non-Small-Cell Lung Cancer. OMICS. 2017 Jul;21(7):390-403
- 18. Prasad TS, Mohanty AK, Kumar M, Sreenivasamurthy SK, Dey G, Nirujogi RS, Pinto SM, Madugundu AK, Patil AH, Advani J, Manda SS, Gupta MK, Dwivedi SB, Kelkar DS, Hall B, Jiang X, Peery A, Rajagopalan P, Yelamanchi SD, Solanki HS, Raja R, Sathe GJ, Chavan S, Verma R, Patel KM, Jain AP, et. al. Integrating transcriptomic and proteomic data for accurate assembly and annotation of genomes. Genome Res. 2017 Jan;27(1):133-144
- Nanjappa V, Sathe GJ, Jain AP, Rajagopalan P, et. al. Investigation of curcumin-mediated signalling pathways in head and neck squamous cell carcinoma. Translational Research in Oral Oncology. 2017; 2:2057178X17743142
- Rajagopalan P, Nanjappa V, Raja R, Jain AP, et. al. How Does Chronic Cigarette Smoke Exposure Affect Human Skin? A Global Proteomics Study in Primary Human Keratinocytes. OMICS. 2016 Nov;20(11):615-626
- 21. Radhakrishnan A, Nanjappa V, Raja R, Sathe G, Puttamallesh VN, Jain AP, et. al. A dual specificity kinase, DYRK1A, as a potential therapeutic target for head and neck squamous cell carcinoma. Sci Rep. 2016 Oct 31;6:36132
- 22. Mir SA, Rajagopalan P, Jain AP, Khan AA, et.al. LC-MS-based serum metabolomic analysis reveals dysregulation of phosphatidylcholines in esophageal squamous cell carcinoma. J Proteomics. 2015 Sep 8;127(Pt A):96-102