

Name: Dr. Vrushali Deshpande

Designation: Faculty Scientist

Department/Institute/University: GROW LAB, Narayana Nethralaya Foundation

Date of Birth: 26th April 1982 Sex (M/F): F SC/ST: N/A

Education (Post-Graduation onwards & Professional Career)

Sl No.	Institution/Place	Degree Awarded	Year	Field of study
1.	Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat	Master of Science (MSc)	2005	Microbiology, Biochemistry
2.	Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat	Doctor of Philosophy (PhD)	2009	Microbiology
3.	Indian Institute of Science, Bangalore	Post-Doctorate	2011	Biochemistry

A. Position and Honours

Position and Employment (Starting with the most recent employment)

Sl No.	Institution/Place	Position	From (Date)	To (Date)
1.	GROW LAB, Narayana Nethralaya Foundation, Bangalore	Faculty Scientist	Jan 2018	Till date
2.	Thrombosis Research Institute, Bangalore	Faculty, Transcriptomics and Immunohistochemistry	Dec 2016	Dec 2017
3.	Thrombosis Research	Research Scientist	Aug 2012	Nov 2016

	Institute, Bangalore			
.4.	Indian Institute of Science, Bangalore	DBT Research Associate (Post doctoral fellow)	Jan 2010	Dec 2011

Honours/Awards

Professional Experience and Training relevant to the Project

S. No	Name of Award	Awarding Agency	Year
1	Best poster Award	Biological Society, Sardar Patel University	2005
2	Best poster Award	Biotechnology Research Society of India	2006
3	Best Poster Award	BRSI	2007
4	Senior Research Fellow	Gujarat State Biotechnology Mission	2006
5	DBT Postdoctoral Fellow	Indian Institute of Science, DBT	2009

B. Publications (Numbers only)

Books: None Research Papers, Reports: 16 General articles: None

Patents: None Others (Please specify): Book Chapter: 1

Selected peer-reviewed publications (Ten best publications in chronological order)

1. Nishtala K, Panigrahi T, Shetty R, Kumar D, Khamar P, Mohan RR, Deshpande V, Ghosh A. Quantitative Proteomics Reveals Molecular Network Driving Stromal Cell Differentiation: Implications for Corneal Wound Healing. *Int J Mol Sci.* 2022 Feb 25;23(5):2572. doi: 10.3390/ijms23052572. PMID: 35269714; PMCID: PMC8910342.

2. Pooja Khamar, Krishnatej Nishtala, Rohit Shetty, Trailokyanath Panigrahi, Keerthi Shetty, Natasha Pahuja, Vrushali Deshpande, Arkasubhra Ghosh. Early Biological Responses in Ocular Tissue After SMILE and LASIK Surgery. *Experimental Eye Research.* 192107936, 2020

3. Rohit Shetty, Jagadeesh R Naidu, Archana Padmanabhan Nair, Tanuja Arun Vaidya, Sharon D'Souza, Himanshu Matalia, Vrushali Deshpande, Swaminathan Sethu, Arkasubhra Ghosh, Koushik Chakrabarty. Distinct Ocular Surface Soluble Factor Profile in Human Corneal Dystrophies. *Ocular surface.* 2019

4. Ankit Sharma, Vrushali Deshpande, Madan Ghatge, Rajanikanth Vangala. In-Cardiome: integrated knowledgebase for coronary artery disease enabling translational research. *Database.* 1-10.2017

5. Vrushali Deshpande, Rameshkumar Krishnan, Sheena Philip, Ildiko Faludi, Thiruvvelselvan Ponnusamy, Lakshmi Narasimha Rao Thota, Valeria Endresz, Xinjie Lu, Vijay Kakkar, Lakshmi Mundkur. Oral administration of recombinant Mycobacterium smegmatis expressing a tripeptide construct

derived from endogenous and microbial antigens prevents atherosclerosis in ApoE^{-/-} mice. *Cardiovascular Therapeutics*.34,314-324. 2016

6. Vrushali Deshpande, Ankit Sharma, Rupak Mukhopadhyay, Lakshmi Narasimha Rao Thota, Madankumar Ghatge, Rajani Kanth Vangala, Vijay V. Kakkar, Lakshmi Mundkur. Understanding the progression of atherosclerosis through gene profiling and co-expression network analysis in Apobtm2SgyLdlrtm1Her double knockout mice *Genomics*.107 ,239 247,2016

7. Lakshmi Mundkur, Rupak Mukhopadhyay, Vrushali Deshpande, Sonia Samson, Sagar Tarate, Meenakshi Varma, T. S. Sneha, Xinjie Lu, and Vijay V. Kakkar. Comparison of Oral Tolerance to ApoB and HSP60 Peptides in Preventing Atherosclerosis Lesion Formation in Apob48⁻/Ldlr⁻ Mice. *Journal of Vaccines*,1-13,2013

8. Lakshmi Mundkur, Thiruvvelselvan Ponnusamy, Sheena Philip, Lakshmi Narasimha Rao, Suryakant Biradar, Vrushali Deshpande, Ramesh Kumar, Xinjie Lu, Vijay V. Kakkar. Oral dosing with multi-antigenic construct induces atheroprotective immune tolerance to individual peptides in mice. *International Journal of Cardiology*,175,340-351,2014

9. Fathia Ben Rached, Carinne Ndjembo-Ezougou, Syama Chandran, Hana Talabani, H  l  ne Yera, Vrushali Dandavate, Pierre Bourdoncle, Markus Meissner, Utpal Tatu and Gordon Langsley. Construction of a Plasmodium falciparum Rab-interactome identifies CK1 and PkA as Rab- effector kinases in malarial parasites. *Biology of the cell*,104 34-472012

10. Pragyan Acharya, Rani Pallavi, Syama Chandran, Vrushali Dandavate, Syed Khund Sayeed, Ankit Rochani, Jyoti Acharya, Sheetal Middha, Sanjay Kochar, Dhanpat Kochar, Susanta Kumar Ghosh. Clinical proteomics of the neglected human malarial parasite Plasmodium vivax. *PLOS one*, e26623, 201