



Assistant Professor

Dr. Doshi Ankita

Biomedical Science, School of Science

Qualifications

BSc, MSc, PhD

- Doctor of Philosophy (PhD) in Biochemistry (Structural Biology Laboratory), The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India in 2018, Advisor: Prof. C. Ratna Prabha
- Master of Science in Zoology, The Maharaja Sayajirao University of Baroda, Vadodara in 2010
- Bachelor of Science (Zoology, Botany, Chemistry), The Maharaja Sayajirao University of Baroda, Vadodara

Contact Details

M: +91-265-2617128

Email Id: ankitad@nuv.ac.in

Areas of Expertise

Proteomics, Structural studies of protein and other macromolecules, Cancer biology, Molecular and cell biology, Clinical biology

Profile

Dr. Doshi Ankita is an Assistant Professor at Division of Biomedical Science, School of Science at Navrachana University. Her area of doctoral research work is protein structural and functional biology in various organisms from lower to higher eukaryotes. She has peer reviewed research articles and has book chapter published to her credit.

She was awarded The M. S. University junior research fellowship and CSIR-senior research fellowship to accomplish her doctoral studies. She has also participated and presented her scientific work at various national and international conferences, symposium and workshop. She is actively involved in the research activities. She has guided many MSc students for their dissertation research work at Department of Biochemistry, The M. S. University of Baroda as well as at Navrachana University.

Awards and Recognition

First Prize by SRBCE Society (2019)

For poster presentation entitled 'Liquid crystal: A novel approach to treat polycystic ovarian syndrome' at 'International Conference on Reproduction, Endocrinology and Development (ICRED)' held during 18th - 21st January 2019 at Navrachana University, Vadodara.

Young Investigator Award (2018)

Presented Paper entitled 'Morphological switching is disabled in *Candida albicans* by UbEP42 and its segregated single mutations' at International Conference on Proteins, miRNA and Exosomes in health and disease. held during 11th -13th December, 2018 at Dept. of Biochemistry, The M. S. University of Baroda, Vadodara.

Senior Research Fellow (2015-2017)

Council of Scientific and Industrial Research (CSIR), Govt. of India.

Junior Research Fellow (2013-2015)

The Maharaja Sayajirao University fellowship

Publications

Total Number of Publications: 15 | Total Citation: 202 | h-index: 7 | i10-index: 7

- Mrinal Sharma, Prranshu Yadav, Ankita Doshi, Hemang Brahmhatt, C. Ratna Prabha (2021). Probing the effects of double mutations on the versatile protein Ubiquitin in *Saccharomyces cerevisiae*. International Journal of Biological Macromolecules
- A Doshi, M Sharma, CR Prabha (2017). Structural changes induced by L50P and I61T single mutations of ubiquitin affect cell cycle progression while impairing its regulatory and degradative functions in *Saccharomyces cerevisiae*. International Journal of Biological Macromolecules, 99, 128-140.
- A Doshi, P Mishra, M Sharma, CR Prabha (2014). Functional characterization of dosage-dependent lethal mutation of ubiquitin in *Saccharomyces cerevisiae*. FEMS yeast research, 14 (7), 1080-1089.
- DH Patel, AA Doshi, HR Prajapati, AV Doshi (2016). Synthesis of novel azoester homologous series of liquid crystalline behavior and the study of mesomorphism dependence on lateral substitution of middle phenyl ring. Molecular Crystals and Liquid Crystals, 624 (1), 69-76.
- AA Doshi, BC Chauhan (2015). Study of Mesomorphism Through a Novel Homologous Series and Its Relation to Molecular Structure. Molecular Crystals and Liquid Crystals, 606 (1), 66-74.
- BH Patel, AA Doshi, AV Doshi (2015). Dependence of Molecular Structure on Special Mesomorphic Behaviour with Reference to Central Bridge. Molecular Crystals and Liquid Crystals, 608 (1), 38-46.
- A Solanki, SB Kumar, AA Doshi, CR Prabha (2013). Mononuclear copper (II) complexes with a tetradentate pyrazole based ligand: Syntheses, structures, DNA binding study and antimicrobial activity. Polyhedron, 63, 147-155.
- DM Suthar, AA Doshi, AV Doshi (2013). Study of liquid crystalline state and evaluation of its properties through a novel Homologous series. Molecular Crystals and Liquid Crystals, 582 (1), 79-87.
- DM Suthar, AA Doshi, AV Doshi (2013). Synthesis and Evaluation of a Novel Liquid Crystalline Homologous Series: α -4-[4-n-Alkoxy Cinnamoyloxy] Benzoyl- β -3, 4 -Dimethoxy Phenyl Ethylenes. Molecular Crystals and Liquid Crystals, 577 (1), 51-58.
- RP Chaudhari, AA Doshi, AV Doshi (2013). A study of liquid crystalline properties and their relation to the molecular structure of novel ethylene derivatives. Molecular Crystals and Liquid Crystals, 582 (1), 63-71
- BC Chauhan, AA Doshi, AV Doshi (2013). Synthesis and Study of Novel Liquid Crystalline Homologous Series: 4-(4-n-Alkoxy Benzoyloxy)-3-Methoxy Phenyl azo-3, 4 Dichlorobenzenes. Molecular Crystals and Liquid Crystals, 570 (1), 84-91.
- DM Suthar, AA Doshi, AV Doshi (2013). Synthesis and Evaluation of Liquid Crystalline Properties of a Novel Homologous series: α -3-[4-n-Alkoxy Benzoyloxy] Phenyl- β -4 -Nitro Benzoyl Ethylenes. Molecular Crystals and Liquid Crystals, 574 (1), 75-83.

- VR Patel, AA Doshi, AV Doshi (2012). Study of an azoester novel homologous series: 4-[4'-n- alkoxy benzyloxy]-3-methoxy phenyl azo-3'-chloro benzenes. *Der PharmaChemica*, 4 (3): 1174-1179.
- PK Singh, D Baxi, A Doshi, R AV (2011). Antihyperglycaemic And Renoprotective Effect of Boerhaaviadiffusa L. in Experimental Diabetic Rats. *Journal of Complementary and Integrative Medicine*, 8 (1).
- DB Baxi, PK Singh, AA Doshi, S Arya, R Mukherjee, AV Ramachandran (2010). Medicago sativa leaf extract supplementation corrects diabetes induced dyslipidemia, oxidative stress and hepatic renal functions and exerts antihyperglycaemic action as effective as metformin. *Annals of Biological Research*, 1 (3), 107-119.

Book Chapter

Prranshu Yadav, Ankita Doshi, Yong Joon Yoo and C. Ratna Prabha (2017). *The Ubiquitin Proteasome System with its Checks and Balances, Proteases in Physiology and Pathology*, Springer Singapore.

Paper Presentation at Workshops/Conferences

- Paper entitled 'Effect of Core Microbiota and Nutrient Cycling Potentials in Sustainable Agriculture' presented at International Conference on Ecohealth and Environmental Sustainability (ICEES) held during 24th - 26th February 2020 at Navrachana University, Vadodara
- Presented Paper entitled 'Morphological switching is disabled in *Candida albicans* by UbEP42 and its segregated single mutations' at International Conference on Proteins, miRNA and Exosomes in health and disease. held during 11th - 13th December 2018 at Dept. of Biochemistry, The M. S. University of Baroda, Vadodara.
- Presented poster entitled 'Liquid crystal: A novel approach to treat polycystic ovarian syndrome' at 'International Conference on Reproduction, Endocrinology and Development (ICRED)' held during 18th - 21st January 2019 at Navrachana University, Vadodara. (Secured 1st Prize)
- Presented poster entitled 'The Effects of Ubiquitin Mutations on Ubiquitin Biology of *Saccharomyces cerevisiae*' at Cell Biology of Yeasts Meeting, 5th - 9th November 2013, Cold Spring Harbor Laboratory, New York, USA.
- Presented poster entitled 'Effects of Ubiquitin Mutation on *Candida albicans*' at Ramanbhai Patel College of Pharmacy International Conference (RAPCOPINC - 2014) 'Current Perspectives in Drug Discovery, Development and Therapy', 27th - 28th February 2014 at Ramanbhai Patel College of Pharmacy, CHARUSAT, Changa.
- Presented paper entitled 'Structural changes in ubiquitin variants and their effects on degradative and non-degradative functions of *S.cerevisiae*' during 5th - 6th October 2017 at Navrachana University, Vadodara.
- Attended two-day National Symposium on 'Omics to Structural Basis of Diseases' at Department of Biochemistry, Faculty of Science, The M. S. University of Baroda, Vadodara, organised during 30th September - 1st October 2016.
- Poster presented entitled 'Effects of double mutations of ubiquitin on ubiquitin biology in *Saccharomyces cerevisiae*'. Hemang Brahmhatt, Mrinal Sharma, Ankita Doshi and C.Ratna Prabha.
- Indo-US conference on 'Advances in Enzymology: Implications in Health, Diseases and Therapeutics' held at ACTRECT, Mumbai during 15th - 19th January 2017. 'Complementary effects of double mutations of ubiquitin in *Cdc28* protein kinase, uracil permase, protein sorting and some translational inhibitors in *Sachharomyces cerevisiae*' Hemang Brahmhatt, Mrinal Sharma, Doshi Ankita and C. Ratna Prabha'
- Presented a research paper entitled 'Functional importance of the mutant ubiquitin Q2N-E64G of parallel β -bulge of ubiquitin in *S.cerevisiae*' at Regional Science Congress organised by The M. S. University of Baroda, Vadodara, held on 15th -16th September 2012.
- Presented poster entitled 'Structural and Functional Characterisation of Dosage Dependent Lethal Mutation of Ubiquitin in *Saccharomyces cerevisiae*' held at DBT-MSUB-ILSPARE programme at Faculty of Science, The M.S. University of Baroda on 30th September 2014.

- Participated in the SCIENCE EXCELLENCE - 2009, the state Level Poster Presentation Competition organised by Dept. of Botany, Gujarat University, Ahmedabad and GUJCOST and presented a poster entitled 'Thyroid dysfunction and infertility in male: Global and national scenario.'
- Participated in the SCIENCE EXCELLENCE - 2010, the state Level oral presentation Competition organised by Dept. of Botany, Gujarat University, Ahmedabad and GUJCOST: Presented an oral presentation entitled 'Is the male evolving down a path of non-existence?'

Activities

- Organising Committee Member (Registration Committee and Cultural Committee) of International Conference on Reproduction, Endocrinology and Development (ICRED) from 18th - 21st January 2019 hosted by Navrachana University, Vadodara.
- Organising committee member (Registration Committee) of International Conference on Eco-health and Environmental Sustainability (ICEES), 23rd - 26th February 2020, organised by Navrachana University, Vadodara.
- Organising committee member (Technical Committee) International Conference on Public Health (ICPH), 24th - 26th March, 2021 hosted by Navrachana University, Vadodara.
- NUV School Connect Committee Member.
- Member of the organising committee for Neuroscience workshop at Navrachana University.
- Delivered an Expert Lecture on topic entitled 'Protein-protein and DNA-protein interaction' in the CSIR NET Crash Course Workshop at PG-N-BT-CBC, South Gujarat.
- Contributed in Cell Culture and Microbiology Laboratory Establishment and Laboratory syllabus designing for Life-science and Biomedical Science Courses.
- Academic Committee member for Biomedical Science curriculum at NUV.

