

NISHA JAYDEEP SHAH

PERSONAL INFORMATION

Date of Birth : 25th August 1974
Age : 52 yrs
Nationality : Indian
Marital Status : Married
Languages Known : English, Hindi, Marathi, Gujarati
Email : dr.nishashah123@gmail.com;
nisha.shah@lifesciences.mu.ac.in
Sex : Female
Mobile No.: +91 98211 56247
Residence No. : 9821043948
Residence Address : 142-G, 1st Floor, Lalbawa Mandir
Compound, Near Kabutar Khana,
Bhuleshwar, Mumbai-400 002.

EDUCATIONAL QUALIFICATION

NOVEMBER 2005

Ph.D.

Institution: University of Mumbai.

Topic:

- Pharmacognosy studies on methanol extracts of mangrove species
Aegiceras corniculatum

MARCH 1998

M. Sc. (Research)

Institution: University of Mumbai

Life Sciences

First Class (70%)

Subjects included:

- Molecular Genetics
- Biophysics
- Bio-chemistry
- Biostatistics
- Instrumentation

Topic :

- Screening the Antimicrobial Active components of the mangrove species of
Mumbai Coast

MARCH 1995

B. Sc.

Institution: Wilson College, Mumbai`

Microbiology and Biotechnology (4+2 Units)

Second Class (56.75%)

Subjects included:

- Genetics
- Medical Microbiology
- Industrial Microbiology
- Bio-chemistry
- Basic Biotechnology
- Applied Biotechnology

FEBRUARY 1992

Higher Secondary Certificate.

Institution: Wilson college, Mumbai.

First Class (67.17%)

Subjects Included:

- English
- Gujarati
- Mathematics & Statistics
- Physics
- Chemistry
- Biology (Zoology & Botany).

MARCH 1989

Secondary School Certificate.

Institution: Chanda Ramji Girls' High School, Mumbai.

First Class (78.00%)

Subjects Included:

- English
- Hindi
- Gujarati
- Mathematics
- Science
- Social Science

Teaching Experience

Total years of teaching: 09 years at post graduation.

- Worked as **Assistant Professor** as Ad-hoc from 2016 till date at **University Department of Life Sciences**, University of Mumbai.
- Taught Biostatistics, Environmental Microbiology & Industrial Microbiology to M.Sc. (Microbiology) at **Institute of Science** for Six months (October 2006 – March 2007) on CHB basis.
- Taught Immunology & Industrial Microbiology to M.Sc. (Bio-technology) at **Institute of Science** for a month (July 2007).
- Taught Immunology to M.Sc. (Life Sciences) at University Dept. of Life Sciences on CHB basis for the year 07-08.

❖ **Guiding Experience:-**

- Number of M.Sc Students guided: 35
- Number of M.Sc Students presently guiding: 5

Research Experience

- One year towards Post Doctorate
- Eight years towards M. Sc. by Research and Ph.D.

Projects Undertaken:

- As Mentioned above

Awards, Scholarships, Patent & Publications

❖ **Awards:-**

- Best Paper Presentation (Young Scientist Category) at 3rd International & 15th National Symposium on Recent Trends In Life Sciences at Bangalore, 1999.
- Second prize for Best Paper Presentation at National Seminar on ‘Advances in Microbiology: A Boon to Mankind’ at Birla College, Kalyan, 2004.
- Second prize for Best Paper Presentation at National Seminar on Medicinal Plants’ held at K. V. Pendharkar College, Dombivali, 2005.
- First prize for Best Poster Presentation at National conference on Bioactive Compounds: New Frontiers and Therapeutic Usage’ held at Swami Ramanand teerth Marathwada University, Nanded, 2005.
- Best Poster Award at National Conference HERBESCON 2016 at Sri Ramachandra University, Chennai, 2016.

❖ **Scholarships:-**

- Sir Currimbhoy Ebrahim and Bai Khanoobai Noormahomed Jairazbhoy Peerbhoy Trust for academic years 1996 -1998 for M.Sc. by Research
- Scholarship from University of Mumbai for academic Year 2002-2003 for Ph.D.
- Post Doctorate Fellowship from University of Mumbai for the year 2015-2016

❖ **Patent:-**

- Patent application for the extraction of bio-active compounds from Mangrove is 2664/MUM/2008.

Publications

❖ **Nucleotide Publication:-**

- Dagha, R.C., Kumari, K.A., Pavan Kumar, A., Shah, N. (2018). Rhopilema hispidum strain RKNJ1 internal transcribed spacer 1, partial sequence. *Genbank (NCBI)* Gene sequence accession number:

MK092065.

Available on <https://www.ncbi.nlm.nih.gov/nuccore/MK092065>

❖ Research Publications:-

- N. N. Suraiya, B. L. Jadhav; “Screening of the Antimicrobial Properties of *Acanthus illucifolius* and *Excoecaria agallocha*” ‘Trends in Life Sciences’ (India), Vol. 15(1), pp 11-21, 2000.
- N. J. Shah and B. L. Jadhav; ‘Antimicrobial Screening of Two Mangrove species *Salvadora persica* and *Avicennia officinalis* occurring along Mumbai coast.’ Paper published in proceeding at national Seminar on ‘Human health and nutrition : A Biotechnological approach’, held at B. N. Bandodkar College of Sciences, Thane, 2004.
- B. Maurya, B. L. Jadhav and Nisha Shah; ‘Pharmacological investigation of acetone extract of Mangrove plant *Sonneratia apetela* Buch. Ham.’ in Journal Biosciences, Biotechnology Research Asia, 03(1a) : 215-220, 2006.
- B. Maurya, B. L. Jadhav and Nisha Shah; ‘Screening of ethanol soluble bioactive compounds in *Sonneratia apetala* Ham.’ in Journal of University of Mumbai, 58 : 19-26, 2008.
- R.C. Dagha, K.A.Kumari, , N. Shah; ‘Isolation and phylogenetic analysis of marine gammaproteobacteria *Halomonas alkaliphila* from Ratnagiri coast, India.’ Journal of Advanced Scientific Research, 11 (1), 236-239, 2020
- ‘Biogenetic synthesis, Characterization of silver nanoparticles from *Carissa caranda* leaf extract and its pharmacological activities.’ International Research Journal of Pharmacy, 11 (12) : pp 46-52, 2020
- R. C. Dagha, K. A. Kumari, A. Pawan Kumar and N. Shah; Morphological and Molecular Documentation of Jellyfish *Rhopilema hispidum* from Mumbai coast, India. Indian Journal of Geo-Marine Sciences, 50(3), 246-249, 2021
- R. R. Chaudhary, H. Chauhan and N. Shah; ‘Phytochemical analysis of secondary metabolites and antioxidant activity of *Caryopta urens* seeds.’ International Journal of All Research Education and Scientific Methods, 10 (3) : pp 1428-1435, 2022.
- M. Chavan, H. Chauhan and N. Shah; ‘Insilico analysis of *Ficus Benjamin* for treatment of cancer and diabetes.’ International Journal of Recent Scientific Research, 13 (3) : pp 545-556, 2022.
- H. Chauhan, M. Chavan, R. R. Chaudhary, H. Madkaikar, and N. Shah; ‘Screening of phytochemicals from *Couroupita guianensis* as drug candidates against lethal diseases using insilico analysis.’ International Journal of Applied Chemical and Biological Sciences, 3 (2) : pp 9-19, 2022.
- P. Patil and N. Shah; ‘In silico Pharmacokinetic analysis of *Morinda citrifolia* phytochemicals and their potential antagonistic effect on prostatic carcinoma proteins.’ Dysona – Life Science, 3 : pp 83-96, 2022.
- M. Chavan, R Jaiswal and N. Shah; ‘Docking analysis of Phytochemicals from *Moringa oleifera lam* for potent drug candidate for cancer treatment using Swissdock.’ Journal of Applied Science and Computations, 9 (2) : pp 22-49, 2022.

- A. S. Haji, S. Maurya and N. Shah; 'Evaluation of antioxidant, antimicrobial activities and phytochemical screening in *Mimosa pudica* flower extracts' International Journal of Herbal Medicine, 12(3) : pp 32-37, 2024.
- A. S. Haji, S. Maurya and N. Shah; 'Solvent-based comparative analysis of antioxidant and antimicrobial activities in *Sterculia urens* Extracts' Journal of Pharmacognosy and Phytochemistry, 13(4) : pp 289-295, 2024.
- S. Maurya, A. S. Haji and N. Shah; 'Solvent-based comparative analysis of antioxidant and antimicrobial activities in *Calliandra haematocephala* extracts' Journal of Medicinal Plant Studies, 12(4) : pp 318-324, 2024.

❖ **Book Publications:-**

- Ready Reckoner for VIth Pay Commission, published by Sangina Arts, 2009.
- Ready Reckoner for VIIth Pay Commission, published by Sangina Arts, 2019.

❖ **Review Article Publications:-**

- T. S. Dalvi, A. V Karande, R. S. Jaiswal, K. K. Pandey and N. J. Shah; '*Mimosa pudica* -Ethnobotanical knowledge, phytochemical studies, pharmacological aspect and future prospects.' International Journal of Applied Chemical and Biological Sciences, 3(1) : pp 50-63, 2022
- P. Patil and N. J. Shah; '*Sesbania grandiflora* (L.) Pers. (Agati): its ethnobotanical knowledge, phytochemical studies, pharmacological aspects, and future prospects.' TMR Integrative Medicine 6 : pp 1-14, 2022.
- H. Madkaikar, S. Tawade, H. Chauhan, R. Choudhary and N. Shah; '*Lagerstroemia speciosa*-Its Ethnobotanical knowledge, Phytochemical studies, Pharmacological aspects, and future prospects.' International Journal of Current Science, 12 (1) : pp 222-242, 2022.
- P. Patil, H. Madkaikar and N. J. Shah '*Morinda citrifolia* L. (Noni) -Its Ethnobotanical Knowledge, Phytochemical Studies, Pharmacological Aspects, And Future Prospects.' International Journal of Novel Research and Development, 7(3) : pp 331-352, 2022.
- R. R. Chaudhary, H. Chauhan, H. Madkaikar, T. S. Dalvi and N. Shah '*Peltophorum pterocarpum* -Its ethnobotanical knowledge, phytochemical studies, pharmacological aspects, and future prospects.' International Journal of Advance Research, Ideas and Innovations in Technology, 7 (6) : 416-424, 2021.
- P. Saroj, M. G. Jadhav, P. Nirankari and N. Shah; '*Cinnamomum Tamala* (Tamalpatra/Tejpatta)–It's Ethnobotanical Knowledge, Phytochemical Studies, Pharmacological Aspects And Future Prospects.' International Journal of Current Science, 12 (1) : pp 532-542, 2022.
- P. Saroj, P. O. Gupta and N. Shah; '*Delonix regia* (Gulmohar) – It's Ethnobotanical Knowledge, Phytochemical Studies, Pharmacological Aspects And Future Prospects.' International Journal of Creative Research Thoughts, 10 (3) : pp 641-648, 2022.
- T. S. Dalvi, U. Kumbhar and N. Shah; '*Madhuca longifolia*: Ethnobotanical, phytochemical studies, pharmacological aspects with future prospects.' Interdisciplinary Journal of Applied and Basic Sciences, 2 (7) : pp 1-9, 2022.

- P. Saroj and N. Shah ‘*Syzygium samarangense* (Jamb) -Its Ethnobotanical Knowledge, Phytochemical Studies, Pharmacological Aspects and Future Prospects.’ International Journal of Advance Research and Innovative Ideas in Education, 8 (6) : pp 2242-2253, 2022.
- P. Saroj and N. Shah; ‘*Butea monosperma* (Palash) -Its Ethnobotanical Knowledge, Phytochemical Studies, Pharmacological Aspects and Future Prospects.’ World Wide Journal of Multidisciplinary Research and Development, 9 (01) : pp 97-107, 2023.
- S. Maurya, A. S. Haji and N. Shah; ‘*Garcinia indica* -Its Ethnobotanical Knowledge, Phytochemical Studies, Pharmacological Aspects and Future Prospects.’ Journal of Natural and Applied Sciences Pakistan, 5 (1) : pp 1192-1211, 2023.
- A. S. Haji, S. Maurya and N. Shah; ‘*Azadirachta indica* A. Juss.: Ethnobotanical knowledge, phytochemical studies, pharmacological aspects future prospects.’ Plants and Environment, 5 (1) : pp 1-15, 2023.
- A. S. Haji, S. Maurya and N. Shah; ‘*Malia dubia* Cav.: Ethnobotanical knowledge, phytochemical studies, pharmacological aspects future prospects.’ Journal of Natural and Applied Sciences Pakistan, 6 (2) : pp 1895-1905, 2024

CONFERENCES / SEMINAR / SYMPOSIUM ATTENDED AND PAPERS PRESENTED

❖ Paper Presented:-

- 3rd International / 15th National Symposium on Recent Trends in Life Sciences at Bangalore University, 1999. Presented a paper entitled “Screening of the Antimicrobial Properties of *Acanthus illucifolius* and *Excoecaria agallocha*”.
- National Seminar on Aquaculture - Prospects and Problems at Institute of Science, 2004. Presented a paper entitled ‘Seasonal Variation in Biochemical Composition and Market Prices of *M. monoceros* and *N. tenuipes* Prawns.’
- National Seminar on ‘Advances in Microbiology: A Boon to Mankind’ at Birla College, Kalyan, 2004. Presented a paper as Poster entitled ‘Antimicrobial Screening of Two Mangrove plants occurring Mumbai coast *Salvadora persica* and *Avicennia officinalis*’
- International Conference on ‘Chemistry Biology Interface: Synergistic New Frontiers’ organized by Dr. B. R. Ambedkar Centre for biomedical research, University of Delhi, 2004. Presented a paper entitled ‘Bioactivity guided isolation and purification of saponins from mangrove plant *Aegiceras corniculatum*’.
- National conference on ‘Human health and nutrition: A Biotechnological approach’ held at B. N. Bhandarkar College of Sciences, Thane, 2004. Presented a paper entitled ‘Antimicrobial Screening of Two Mangrove species *Salvadora persica* and *Avicennia officinalis* occurring along Mumbai coast.’

- National Seminar on ‘Medicinal Plants’ held at K. V. Pendharkar College, Dombivali, 2005. Presented a paper entitled ‘Isolation of bioactive essential oil from *Aegiceras corniculatum*’.
- National conference on Bioactive Compounds: New Frontiers and Therapeutic Usage’ held at Swami Ramanand teerth Marathwada University, Nanded, 2005. Presented a paper entitled ‘Isolation and Phytochemical analysis of bioactive essential oil from *Aegiceras corniculatum*’.
- National Conference on ‘Environmental Technology – Biological Prospectives : Issues & Challenges’ held at Department of Life Sciences, University of Mumbai, 2006. Presented a paper entitled ‘Analysis of volatile compounds present in the leaves and flowers of *Aegiceras corniculatum* by Head Space – SPME GC-MS method’.
- National symposium on ‘Facets of Life Sciences’ held at University of Mumbai, 2019. Presented a paper entitled ‘Green synthesis of silver nanoparticles using leaf extract of *Carissa carandas* and their antioxidant and antimicrobial activities.’
- Sustainability: Integrated and Scientific Approach (ICS-2022) at Mumbai University, 2022. Presented a paper entitled “Lipid extraction from *Spirulina plantansis*”.
- Delivered an Oral presentation entitled ‘Molecular documentation of Jellyfish found near Juhu beach, Mumbai coast, India’ at International seminar on in Environmental Management at Patkar-Varde college, Mumbai; 24th Jan’ 2019.
- Delivered an Oral presentation entitled ‘Jellyfish Blooms: concern and opportunities in India’ at National seminar on Biodiversity – A conservational approach at University college, Thiruvananthapuram; 16th – 17th Nov’ 2017.
- Presented paper entitled ‘Study on Structural, Symptomatic and Clinical Aspects of COVID-19’ by my student at National Web Conference on Pandemic history, Literature, Cinema and Social Psychology organised by G.K.S. College of Arts, Commerce and Science and Harshwardhan Foundation-Association for social Equity on 19-21st June 2020.

❖ Attended:-

- 17th National Symposium on Recent Trends in Life Sciences and Biotechnology at Mumbai University, 2001.
- National seminar on ‘Characterization and Analysis Techniques’ held at Nano Technology research center, Birla College, Kalyan, 2005.
- Seminar on ‘Animal Experimentation in Pre-clinical Studies’ held at CHM Campus, Ulhasnagar, 2007.
- National Seminar on ‘Biofilms : Challenges and Applications’ held at Bhavan’s College, Andheri, 2007.
- National Seminar on ‘More Crop Per Drop – Stretergy for Water Conservation’ held at Department of Life Sciences, University of Mumbai, 2007.
- 1st International Society Biotechnology Conference ‘ISBT-2008’ held at Manipal Institute, Sikkim, 2008.

- Third International Annual Conference on “Drug Discovery & Development – Challenges in Partnership” held at University of Mumbai, 2009.
- 4th International Congress of Chemistry and Environment ‘ICCE-2009’ held at Ubonratchathani, Thailand, 2009.
- International Symposium on Current Trends in Life Sciences held at University of Mumbai, 2012.
- 102nd Indian Science Congress held at University of Mumbai, 2015.
- 11th National Research Scholars Meet in Life Sciences at ACTREC, Navi Mumbai, 2015.
- National Conference on Phytochemicals as Biotherapeutics – Unravelling the Mystery of Natural Products held at Sri Ramachandra University, Chennai, 2016
- 8th Indian Youth Science Congress held at University of Mumbai, 2017
- National Seminar on Facets of Life Sciences held at University of Mumbai, 2017
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- National level Biodiversity Conclave My Earth 2050 – Sustainable Habits for Co-Existence organized by K. C. College, 2019
- National conference on Water Resources : Remediation and Rejuvenation held at Department of Biotechnology, University of Mumbai and Society for innovations in Biosciences and Sindhu Swadhyay Sanstha, 2020.
- International Webinar on Life Sciences organised by Government Arts College, Karur, Tamilnadu and Department of Botany, 22 to 24th June 2020.
- One day online webinar on NAAC : Revised Assessment & Accreditation Framework organised by RUSA and D.A.V. College, June 2020
- One day state level webinar on Introduction to Intellectual Property Rights in India organised by Manasi Bharat Gada Degree college of Commerce and G.K.S. College of Arts, Commerce and Science, April 2020
- National webinar on Climate change and Environmental status after COVID-19 organised by G.K.S. College of Arts, Commerce and Science and MUPTA, June 2020
- Online webinar on NAAC: Revised Assessment & Accreditation Framework organized by RUSA, Govt. of Maharashtra and DAV College, June 2020.
- Virtual National Seminar on Current Trends in fish biotechnology research organized by Institute of fisheries Post Graduate studies, Chennai, July 2020.
- Webinar on Astrobiology: From Meteorites to Mars organized by Vivekanand Education Society, Mumbai, July 2020
- National webinar on Gender Equity & Covid-19: Mental Health Concerns organized by IQAC, WDC and Women’s Development Cell, University of Mumbai, July 2020.
- National webinar on Gender Equity & Covid-19: Masculinities Perspectives organized by Viva College and Women’s Development Cell, University of Mumbai, July 2020.
- International e-Conference Impact of Covid-19 on human health and environment organized by Department of Botany, Jharkhand, July 2020.
- International Webinar on Zebrafish : An emerging model in research organized by MGM School of Biomedical Sciences, Navi Mumbai, September 2020.

- Webinar on Intellectual Property rights-Concepts and Application organized by St. Xavier's College, Mumbai, Jan 2021.
- Symposium on Corona virus Disease: What we Know and What We do not organized by Central University of Punjab, Bathinda, April 2021.
- Webinar on Safety in Physics Laboratory organized by St. Xavier's college, Mumbai, September 2021.

WORKSHOP ATTENDED

- State Level Workshop on Maharashtra Public University Act, 2011 (Proposed) A Critical Review held at University of Mumbai, 2015
- Workshop on Neuroscience Perception V/S Recognition held at Jai Hind College, 2016
- Three days Hands-on workshop in Good Laboratory Practices organized by the CHM College, Ulhasnagar, 9th -11th August 2017
- Science Academics Lecture Workshop on Biotechnology for Crop improvement organized by DY Patil Deemed University, Navi Mumbai, 21st-22nd September 2017
- Four day workshop on Cellular and Molecular Biology – from Gene cloning to Protein Expression and Localization organized by UM-DAE Centre for Excellence in Basic Sciences, 2018
- Four Day FDP and Workshop on MOODLE Learning Management System organised by IQAC, University of Mumbai, 11-14th May 2020
- Seven day National workshop on Research Methods and Techniques organised by Ramanand Arya D.A.V. College, 4-10th May 2020
- One day workshop on the International mangrove day organized by Birbal Sahni Institute of Palaeosciences, Lucknow and Mangrove Society of India, Goa, 26th July 2021.
- Two days National level online workshop on Molecular Docking, Result Interpretation and Analysis organized by ACT Academy, Kerala, 16-17th April 2024.
- One week Online Faculty development Program on Outcome based Education and Technology in Higher Education organized by K.J. Somaiya College, Mumbai; SGTB Khalsa College, University of Delhi, 28th – 3rd August 2021

ADDITIONAL QUALIFICATIONS

❖ Examination Experience:-

- Appointed as Examiner in **M.Sc. Part I Practical Examination** for **Semester I & II** held at University Department of Life Sciences for the academic year from 2016 till date
- Appointed as Examiner in **M.Sc. Part II Practical Examination** for **Semester III & IV** held at University Department of Life Sciences for Environmental Biotechnology specialization for the academic year from 2018 till date.

- Appointed as **Paper Setter for M.Sc. Part I & II Theory examination** for all the specializations of Life Sciences held by the University of Mumbai from 2017 till date.
- Appointed as Invigilator for Maharashtra State Eligibility Test, 2016
- Appointed as an expert in M.Sc. Practical Examination from 2000 - 2006 at Department of Life Sciences, University of Mumbai

❖ Organizing Committee:-

- Appointed as Organizing Committee member for a National Seminar on Facets of Life Sciences held by University Department of Life Sciences, University of Mumbai, 2017
- Appointed for Revision of Syllabi of M.Sc. Part II Semester III and IV, Environmental Biotechnology for academic year 2017-2018, 2021-2022, 2022-2023 and 2023-2024 for NEP 2020 syllabi as per the guidelines of University of Mumbai and the UGC.
- Served as Team member for The Biodiversity Team for the biodiversity audit of University of Mumbai, 2021.
- Invited as Session Coordinator at the conference on Sustainability: Integrated and Scientific Approach (ICS-2022).
- Appointed as Organizing Committee member for a State level Seminar on Research methodology and scientific writing held by GKS College and Department of history, University of Mumbai, 2019.
- Appointed as Organizing Committee member for a State level Seminar on Higher Education & Research: Industrial Opportunities held by GKS College and Department of Life Sciences, University of Mumbai, 2019.
- Penalist for National Webinar on Methods of Isolation & Purification of Bioactive Compounds from Medicinal Plants and its in Vivo Study organised by G.K.S. College of Arts, Commerce and Science, 13th June 2020
- Given talk on **Role of Epidemiology in Recognition and Control of Emerging Disease** in National Web Conference on Pandemic history, Literature, Cinema and Social Psychology organised by G.K.S. College of Arts, Commerce and Science, University of Mumbai and Harshwardhan Foundation-Association for social Equity. 19-21st June 2020

❖ Administrative and other works:-

- **Exam Related Works:** Internal examination of Sem I, II, III and IV. Practical examination of Sem I, II, III and IV. External examination paper setting and correction for Sem I, II, III and IV was done.
- **Admission Related Works:** Preparation of Master list for M.Sc. I, verification of applications, Preparation of the merit list
- **Other work including NAAC:** Handling of criteria 4 and 5 of NAAC, Helped in purchase and procurement of instruments
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❖ **Academic and Extension works:-**

- **Study Material Preparations:** Presentation slides were prepared. Recent updates in teaching material and E-content preparation was done. Online lectures were taken.

❖ **Training Course:-**

- Three days training on 'High Performance Thin Layer Chromatography' at Anchrom Enterprises (I) P. Ltd., Mulund (E), Mumbai (recognized by CAMAG, Switzerland).

EXTRA CURRICULAR ACTIVITY

- Appointed as Judge at the District Science Exhibition at South Mumbai in 2010
- Appointed Sports Coordinator at Annual Sports Meet Organised by University Department of Life Sciences from 2016 till date.
- Awareness of COVID-19 on societal level in our community Visha Dshawal Samaj.
- Appointed as Judge for Clean Creek Movement 2024 on a national level conference held by University of Mumbai and Paryavaran Dakshta mandal, February 2024.

