

**Dr. HINA ALIM**

Assistant Professor

Department of Life Sciences

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**ACADEMIC QUALIFICATIONS**

- 2011 - **Ph. D. (Life Science)**  
University of Mumbai, Mumbai, India  
Supervisor – Dr. B. L. Jadhav
- 2005 - **Master of Science (Zoology)**  
First Class, M.J.P. Rohilkhand University, U.P., India
- 1998 - **Bachelor of Science (Hons.) Zoology & Botany**  
First Class, M.J.P. Rohilkhand University, U.P., India

**EMPLOYMENT HISTORY AND EXPERIENCE**

- Presently working as Assistant professor in the University Department of Life Sciences, University of Mumbai, Mumbai from 1<sup>st</sup> September, 2026 to till date.
- Worked as **Assistant Professor** in the University Department of Life Sciences, University of Mumbai, Mumbai from 15<sup>th</sup> July 2016 to 30<sup>th</sup> April 2026.
- Worked as **Post-Doctoral Fellow** for two years on Rajiv Gandhi Science and Technology Commission major research project titled “**Pilot scale demonstration of value-added fish products from surimi**” under Dr. A. K. Balange Post Harvest Dept., ICAR: Central Institute of Fisheries Education (CIFE), Mumbai from July 2014 to July 2016.
- Worked as **Post-Doctoral Fellow** on a NAIP project titled “Strengthening of digital library and Information Management” under NAIP guided by Dr. N. P. Sahu, Nutrition Dept. ICAR: Central Institute of Fisheries Education (CIFE), Mumbai from June 2012 to March 2014.

**RESEARCH ACTIVITY****Research Area**

- Molecular Biology, Fisheries and Aquaculture, value-added fishery products development

**Research Interest**

- Fish Cell Culture, Fish Genetics

**Research Students**

- Guided more than 60 students of M.Sc. Part II Life Sciences for their Review of Literature and Research Project work

**MEMBERSHIPS**

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- Life Member of Indian Science Congress Association (ISCA)

#### **REVIEWER OF JOURNAL**

- Commagene Journal of Biology
- Biosciences Biotechnology Research Asia

#### **RESOURCE PERSON**

- Delivered a lecture on “Importance of value-added fish products & enterpreneurs development” and demonstrated various Value-Added Fish Products Preparation to Fisher Community, Raigad organised by Post Harvest Technology Division, Central Institute of Fisheries Education, Mumbai (Project Incharge - Dr. A. K. Balange), 10<sup>th</sup> August, 2017.
- Trained fisher community in different village in making different value-added fishery products to become self- employed.

#### **ADMINISTRATIVE RESPONSIBILITIES**

- **Co- coordinator for 21<sup>st</sup> Avishkar Research Convention** 2026-27 Zone XII University Departments held on 19<sup>th</sup> August, 2026.
- **Co- coordinator for PLAT Test** organized by University of Mumbai on 12<sup>th</sup> August, 2026 for M.Sc. Sem III students.
- **Climate skill facilitator**, the climate skill- seeds for Transition India Phase 2 conducted by the British Council in partnership with HSBC March, 2026.
- **Climate skill facilitator**, the climate skill- seeds for Transition India Phase 1 conducted by the British Council in partnership with HSBC March, 2025.
- **Co- coordinator for 19<sup>st</sup> Avishkar Research Convention** 2024-25 Zone XII University Departments held on 14<sup>th</sup> December 2024.
- **Session Co-ordinator**, International Conference on Sustainability: Integrated and Scientific Approach (ICS-2022) organised by University of Mumbai. August 4<sup>th</sup>-6<sup>th</sup>, 2022.
- Member **Organizing Committee** for State level Seminar on “Higher Education and Research Industrial Opportunities” organised by G. K. S. College of Arts, Commerce & Science and Dept. of Life Sciences, University of Mumbai on August 20<sup>th</sup>, 2019.

- Member **Organizing Committee** for state level Seminar on “Research Methodology & Scientific Writing” organised by G. K. S. College of Arts, Commerce & Dept. of History, University of Mumbai, 2<sup>nd</sup> February, 2019.
- Member **Organizing Committee** to conduct seminars on every working saturday related to the different fields of Life Sciences organized by the Department of Life Sciences, University of Mumbai for the M.Sc. and Ph.D. students from 2017-2018.
- Member **Organizing Committee** for “National Seminar on Facets of Life Sciences” March 22<sup>nd</sup>-23<sup>rd</sup>, 2017 organized by Department of Life Sciences, University of Mumbai.
- Member of **Admission and Examination Committee**, Department of Life Sciences, University of Mumbai.
- Worked as external examiner/moderator in various Universities /Colleges.

#### **CONTRIBUTIONS IN SYMOSIA/CONFERENCES**

- Sourya Dash and **Hina Alim** 2025 (oral). Presented a paper on “Promoting sustainable approaches for carbon sequestration in Mangrove Conservation” organised by University of Mumbai, Paryavaran Dakshta Mandal, Enviro. Vigil, Mangrove and Marine Biodiversity Conservation Foundation of Maharashtra & association of teachers in Biological Sciences held on 31<sup>st</sup> January & 1<sup>st</sup> February 2025. Got a consolidated price.
- Chandekar Vinay and **Hina Alim** 2024 (oral). Presented a paper on “Enhancing germination of seeds using seaweed” in PG Level at 19th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) organised by University of Mumbai at Alkesh Dinesh Mody Institute for Financial and Management Studies held on December 14, 2024.
- Das Pradeep and **Hina Alim** 2024 (oral). Presented a paper on “Antimicrobial peptides extracted from the Mucin of an invasive species of African garden snail (*Achatina fulica*)” in PG Level at 19th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) organised by University of

Mumbai at Alkesh Dinesh Mody Institute for Financial and Management Studies held on December 14, 2024.

- Singh Harshdeep and **Hina Alim** 2024 (oral). Presented a paper on " Marine Innovation: Producing Biodegradable plastics from shrimp exoskeleton" in PG Level at 19th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) organised by University of Mumbai at Alkesh Dinesh Mody Institute for Financial and Management Studies held on December 14, 2024.
- Sourya Dash and **Hina Alim** 2024 (oral). Presented a paper on " Sustainable Poultry Waste Management: Transforming Environmental Challenges and Opportunities" in PG Level at 19th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Zonal Round) organised by University of Mumbai at Alkesh Dinesh Mody Institute for Financial and Management Studies held on December 14, 2024.
- Ankur R. Anavkar and **Hina Alim** 2022 (Oral). Presented a paper on "Analysis of water quality of Mithi river" in International Conference on Sustainability: Integrated and Scientific Approach (ICS-2022) organised by University of Mumbai held on August 4-6, 2022.
- **Hina Alim** 2021 (Oral). Presented paper on "Sleep Medications: A Deadly Cure" in "Two-Days International Conference Proceeding in Life Science" held on 1<sup>st</sup> March to 2<sup>nd</sup> March 2021 Organized by International Journal of Microbial Science.
- **Hina Alim** 2020 (Oral). International e-conference (ETBT – 2020) on "Emerging Trends in Bioscience and Technology" jointly organized by School of Science, Sandip University, Nasik, India and Biotechnology Society of Nepal, Nepal, 01<sup>st</sup> – 03<sup>rd</sup> June, 2020.
- **Hina Alim** 2019 (Poster). "Assessment of antioxidant, antidiabetic and phytochemical property of *Glycyrrhiza glabra*" in National symposium on "Facets of Life Sciences" organized by Department of Life Sciences, University of Mumbai, 26<sup>th</sup> – 27<sup>th</sup> March, 2019.

- **Hina Alim** 2017 (Oral). “Evolution of phytochemical composition and antioxidant properties of *Sonneracia alba* mangrove” organized by N. G. Acharya & D. K. Marahe College, National level Interdisciplinary Conference on Emerging Trends in Science, on 4<sup>th</sup> March, 2017.
- Ankita R., **Hina Alim**, B. L. Jadhav and Vidya P. 2017 (Poster). “Genetic variation in *Lamellidens marginalis* by using mt COI gene sequences” organized by 8<sup>th</sup> Indian Youth Science Congress, University of Mumbai, 16<sup>th</sup>-18<sup>th</sup> Feb., 2017.
- **Hina Alim** 2016 (Oral). “Entrepreneurship development through value addition of low-cost fish (Abstract published) organized by PAF 3<sup>rd</sup> Congress on Social Entrepreneurship in Aquaculture, CIFE, Mumbai, 27<sup>th</sup> – 29<sup>th</sup> April, 2016.
- **Hina Alim** 2015 (Oral). “Development of fish *chakli* from *pangasius* mince and its storage study” (Abstract published) organized by The National Academy of Sciences, Orissa, 6<sup>th</sup>- 8<sup>th</sup> December, 2015.
- **Hina Alim** 2015 (Oral). “Molecular characterization of *Lamellidens marginalis* mussel through mitochondrial gene sequences” organized by The Indian Science Congress Association, Mumbai University, Mumbai, 3<sup>rd</sup> -7<sup>th</sup> January, 2015.
- **Hina Alim** 2008. (Oral). “The levels of exposure of organophosphorous environment on the workers health in pesticide industries” organized by “International Society Biotechnology Conference” Research Journal of Biotech and Sikkim Manipal University, Gangtok Majitar, Sikkim, India 28<sup>th</sup> – 30<sup>th</sup> Dec., 2008.

#### **SEMINARS/WORKSHOPS/ SHORT COURSE ATTENDED**

- Attended National Level Conference on “Clean Creek Movement 25” organized by University of Mumbai, Paryavaran Dakshata Mandal, Enviro-Vigil and Association of Teachers in Biological Sciences, February 2025.
- Attended the International Webinar on 'Basics of Research Methodology and Use of Statistics in Biology' held on 1st April, 2021 organized by Rizvi College, the Research Cell, Departments of Mathematics and Statistics, Zoology and Botany.

- Participated in the workshop on “Aquaculture and Fisheries development and Sustainability” organized by the PG and Research Department of Advanced Zoology and Biotechnology, Guru Nanak College, Velachery, Chennai, 13<sup>th</sup> – 19<sup>th</sup> August, 2020.
- Attended international E-conference on “Recent trends in Life Science research, challenges and promises” organized by Department of Botany, S. S. College, Shahjahanpur, U. P, Govt. G College, Bazpur, U S Nagar, Uttarakhand and Society for research in Biological Science, 8<sup>th</sup> August, 2020.
- Attended first international virtual conference - RTNSA 2020 on “Recent Trends in Nanomaterials Synthesis and Applications” organized by Department of Chemistry Madanapalle Institute of Technology and Science, Madanapalle, Andhra Pradesh, India, 16<sup>th</sup> – 18<sup>th</sup> July, 2020.
- Attended the virtual National seminar on “Current trends in Fish Biotechnological Research” CTFBT 2020 organized by the Institute of Fisheries Post Graduate Studies, TNJFU, OMR Campus, Vaniyanchavadi, Chennai, 9<sup>th</sup> – 11<sup>th</sup> July, 2020.
- Attended the webinar on Consumerism and financial literacy in the midst of Covid-19 andemic organized by Maitreya Bahuuddeshiya Sevabhavi Sanstha’s G. K. S. College of Arts, Commerce and Science and Consumer Guidance Society of India, 7<sup>th</sup> July, 2020.
- Attended the webinar on New-age tools for teaching online organized by Academisthan, 28<sup>th</sup> – 30<sup>th</sup> June, 2020.
- Attended online international webinar on “Life Sciences” organized by PG & Research Department of Botany, Govt. Arts college, Karur, Tamil Nadu, 22<sup>nd</sup>-24<sup>th</sup> June, 2020.
- Attended online international faculty development programme on “Innovation and Transformation on Pharmacy Research” organized by Department of Pharmacy Practice Chalapathi Institute of Pharmaceutical Sciences, Andhra Pradesh in association with ISPOR India-Amaravati Regional Chapter, 19<sup>th</sup> – 22<sup>nd</sup> June, 2020.

- Attended online international webinar on Effect of Covid-19 on the world Healthcare System organized by Pt. Jawaharlal Nehru College, Banda, U.P., 18<sup>th</sup> June, 2020.
- Attended online national webinar on Methods of isolation & purification of Bioactive compounds from medicinal plants & its in vivo studies organized by G. K. S. College of Arts, Commerce and Science, Khadavali, Kalyan, 13<sup>th</sup> June, 2020.
- Participated & completed online Faculty Development Programme on the “Moodle Learning Management System” organized by Amity School of Engineering and Technology, Amity University, Maharashtra, 05<sup>th</sup> – 07<sup>th</sup> June, 2020.
- Participated & completed the four days online Faculty development program & workshop on Moodle Learning Management System organized by IQAC, University of Mumbai, 4<sup>th</sup> – 7<sup>th</sup> June, 2020.
- Participated online in National webinar on Climate change and Environmental Status after Covid-19 organized by G. K. S. College of Arts, Commerce and Science, Khadavali, Kalyan in collaboration with Maharashtra Under Privileged Teacher’s Association (MUPTA), 5<sup>th</sup> June, 2020.
- Attended two days online faculty development program on teaching and e-content organized by IIDE, 3<sup>rd</sup> - 4<sup>th</sup> June, 2020.
- Participated and timely submitted all assignments in one week Faculty development programme on “ICT based tools and its applications in teaching learning process” organized by BSVS Educational Learning Centre, Nagpur, 27<sup>th</sup> May- 02<sup>nd</sup> June, 2020.
- Attended SPER international online conference on “Empowering Pharmacists for next generation: To improve health and wellness” organized by Society of Pharmaceutical Education and Research, India, 30<sup>th</sup> – 31<sup>st</sup> May, 2020.
- Attended two-day online PDP for University, College Teachers organized by UGC-Human Resource Development Centre, Jamia Milia Islamia, New Delhi, 27<sup>th</sup> – 28<sup>th</sup> May, 2020.

- Participated online in the national level webinar “Birds of Mangrove Ecosystem” organized by Department of Life Sciences, K. C. College under the aegis of DBT STAR Status, 19<sup>th</sup> May, 2020.
- Participated and completed four days online faculty development and workshop on “Moodle Learning and Management System” organized by IQAC, University of Mumbai, 11<sup>th</sup> – 14<sup>th</sup> May, 2020.
- Attended one-week online faculty development programme for faculty members on “Moodle-LMS” in association with Karnatak Law Society’s Vishwanathrao Deshpande Institute of Technology, Haliyal in association with IIT Bombay-Spoken Tutorial, 4<sup>th</sup> - 8<sup>th</sup> May, 2020.
- Attended one week online faculty development programme on “Innovation in Teaching & Learning” organized by Jagadambha College, Department of Computer Engineering, 27<sup>th</sup> April - 2<sup>nd</sup> May, 2020.
- Attended one day online state level webinar on “Introduction to Intellectual Property Rights in India: Patents, Trademarks & Copyright” organized by Mansi Bharat Gada Degree College of Commerce in association with J. Watumull Sadhubella Girls College, Ulhasnagar & G. K. S. College of Arts, Commerce & Science, Khadavali, Mumbai, 27<sup>th</sup> April, 2020.
- Attended short course on “Antimicrobial Resistance with special Reference to Aquaculture” organized by Aquatic Environment & Health Management Division, Central Institute of Fisheries Education, Mumbai, 2<sup>nd</sup> – 11<sup>th</sup> March, 2020.
- Participated in ICMR-NIRRH Golden Jubilee Celebrations and International Conference on “Women’s Reproductive Health” A step towards improving quality of Life, Mumbai, India, 20<sup>th</sup>-23<sup>rd</sup> February, 2020.
- Participated in demonstration workshop on “Animal Tissue Culture” organized by Amity Institute of Biotechnology, Amity University, Mumbai, 29<sup>th</sup> July, 2019.
- Participated in two-days Faculty Development Program on “Learning technologies: learning an overview” organized by University of Mumbai’s Innovation and Incubation Centre and IQAC Cell in participation with Harrisburg University, USA, 13<sup>th</sup> -14<sup>th</sup> June, 2019.

- Participated in National symposium on “Facets of Life Sciences” organized by Department of Life Sciences, University of Mumbai, 26<sup>th</sup> – 27<sup>th</sup> March, 2019.
- Attended national conference on “Innovation in Life Sciences for Sustainable Development” organized by Department of Botany, sponsored by Dr. Babasaheb Ambedkar Marathwara University, Aurangabad, 20<sup>th</sup> January, 2019.
- Participated in workshop on “Cellular and Molecular Biology from Gene Cloning to Protein Expression and Localization” organized by UM-DAE Centre for Excellence in Basic Science (Mumbai) & sponsored by the Lady Tata Memorial Trust, 19<sup>th</sup> – 22<sup>nd</sup> December, 2018.
- Participated in “Half day Demonstration-cum workshop on Urkund: an Anti-plagiarism Software” organized by Department of Biophysics, University of Mumbai, 26<sup>th</sup> September, 2018.
- Participated in workshop on “UGC-CSIR-NET (Life Sciences) Exam” organized by Department of Biophysics, University of Mumbai, 25<sup>th</sup> – 26<sup>th</sup> November, 2017.
- Participated in workshop on “Biotechnology for crop improvement” organized by School of Biotechnology and Bioinformatics, D. Y. Patil Deemed University, CBD Belapur, Navi Mumbai, 21<sup>st</sup> – 22<sup>nd</sup> September, 2017.
- Participated in National Seminar on “Facets of Life Sciences” organized by Department of Life Sciences, University of Mumbai, Mumbai, 22<sup>nd</sup> – 23<sup>rd</sup> March, 2017.
- Participated in the seminar-workshop on Neuroscience “Perception v/s Recognition” organized by Lady Tata Memorial Trust Mumbai, 9<sup>th</sup> - 10<sup>th</sup> December, 2016.
- Participated in International workshop on “Fish Genomics” organized by Central Institute of Fisheries Education, Mumbai, 19<sup>th</sup>-21<sup>st</sup> January, 2015.
- Participated in the workshop “Library Software Management KOHA” organized by CIFE, Mumbai, 24<sup>th</sup> October, 2013.
- Participated in the “First Student’s Research Conventions in Fisheries” organized by Central Institute of Fisheries Education, Mumbai, 10<sup>th</sup> July, 2013.

- Participated in International conference on “Research and new perspective in developing Sciences” organized by University of Pune, Pune, India, 11<sup>th</sup> June 2012.
- Participated in “National Conference on Aquatic Genetic Resources” organized by National Bureau of Fish Genetic Resources and the Aquatic Biodiversity Conservation Society, Lucknow, 26<sup>th</sup> – 27<sup>th</sup> April, 2008.
- Participated in “National Science Day Celebrations Seminar” Department of Life Sciences University of Mumbai, Mumbai, 28<sup>th</sup> February, 2007.

### **TRAINING PROGRAMME**

- Completed short term course under ICAR on Rapid diagnostics for fish health management at ICAR-Central Institute of Fisheries Education, Mumbai, 18<sup>th</sup> November-8<sup>th</sup> December, 2016.
- Completed training programme on “Development of Freshwater Fish Cell Culture” 01<sup>st</sup> – 20<sup>th</sup> February, 2012 AEHM, CIFE Mumbai.
- Completed hands on training on Diagnostics in fish health management from 10<sup>th</sup> – 30<sup>th</sup> January, 2012 from ICAR-Central Institute of Fisheries Education, Mumbai.

### **BOOK PUBLISHED**

K. Balange B. B. Nayak, **Hina Alim**, Snehal, Mayuri and Krinali (2017). Published a book entitled “**Mulyawardhit Matsaya Padarth: Ek Jod Wayawasaye**” from CIFE under ICAR pp 1-52.

### **RESEARCH/REVIEW ARTICLE PUBLICATIONS**

- Bajaj, T., **Alim, H.**, Ali, A. and Patel, N. (2025). Synthesis of plant secondary metabolites under the influence of elicitors, application in stress management and In vitro techniques to enhance their production. Physiological and Molecular Plant Pathology. 102905, <https://doi.org/10.1016/j.pmpp.2025.102905>.
- Sourya Dash and **Hina Alim** (2025). Promoting sustainable approaches for carbon sequestration in Mangrove Conservation. Proceeding of 25th national conference on protecting wetlands for our common future, pp 127-148. Organised by University of Mumbai, Paryavaran Dakshta Mandal, Enviro. Vigil, Mangrove and Marine Biodiversity Conservation Foundation of Maharashtra and association of teachers in Biological Sciences held from 31<sup>st</sup> January to 1<sup>st</sup> February 2025.

- Tanisha, Naik B., Patil P., **Alim H**, Pandey A and Balange A (2023). Innovative approaches towards utilization of clams. *International Journal of Oceanography & Aquaculture*, 7(4): 1-12. ISSN: 2577-4050 DOI:10.23880/ijoac-16000279
- Malavika Pillai, **Hina Alim**, Ahmad Ali and Nimisha Patel (2023). Food allergies: their complications and treatment. *Sys Rev Pharm*, 61-70, 14(2)
- Krishna Mistry, Sami Dilip Sardar, **Hina Alim**, Nimisha Patel, Mansee Thakur, Difuza Jabborova and Ahmad Ali (2022). Plant based proteins: sustainable alternatives. *Plant Science Today*. Vol 9(4): 820–828 ISSN 2348-1900 (online) <https://doi.org/10.14719/pst.1652HORIZONE-Publishing Group>
- Ritu Wadhwa, Shraddha Umesh Nayak, Nimisha Patel and **Hina Alim** (2022). Clinical study to evaluate the efficacy of Pippalyadi basti and Lekhan basti in the management of obesity. *Annals of Phytomedicine*. 11(1): 260-265. DOI: 10.54085/ap.2022.11.1.26
- Ahmed Shabbir Khan, Ankur Anavkar, Ahmad Ali, Nimisha Patel and **Hina Alim** (2021). A Review on Current Status of Riverine Pollution in India. *Biosciences Biotechnology Research Asia*. 18(1): 9-22. DOI : <http://dx.doi.org/10.13005/bbra/2893>
- Zoya Shaikh, Priya Sundarrajan, Lekha Bhagtaney, Sadaf Zehra, Kamal Fatima Zahra, Boubakeur Badra, Belkis Muca Yigit, Nimisha Patel, **Hina Alim**, Johra Khan and Ahmad Ali (2021). Applicability of vitamins in the management of COVID-19: An overview. *Annals of Phytomedicine* Volume10, Special Issue1 (COVID-19): S65-S76, 2021. Online ISSN: 2393-9885, DOI: <http://dx.doi.org/10.21276/ap.covid19.2021.10.1.7>
- Varsha Mahesh Mayekar, Ahmad Ali, **Hina Alim** and Nimisha Patel (2021). A review: Antimicrobial activity of the medicinal spice plants to cure human disease. *Plant Science Today*, 8(3): 629–646. DOI: 10.14719/pst.2021.8.3.1152
- Nimisha Patel, Uzair Ahmed, Shazia Shaheen Mir, Asif Anas, Tanzeel Tanzeel, **Hina Alim** and Arif Ali (2021). Biodegradation of high molecular weight polycyclic aromatic hydrocarbon chrysene by soil bacterial isolates. *Poll Res*. 41(2): 188-194.
- Pani Prasad Kurcheti, Dhayanath, Abisha Juliet Mary, Jeena K. and **Hina Alim** (2020). Biosynthesis of nanoparticles- A new horizon in Fish biomedicine submitted to *Journal of Aquaculture and Fisheries* 4(2): 035. ISSN: 2576-5523 DOI:10.24966/AAF-5523/100035
- Kavita Tiwari and **Hina Alim** (2020). Determination of anti-diabetic and anti-oxidant activity of *Glycyrrhiza glabra* root extract and its phytochemical screening. *International journal of applied chemical and biological sciences* 1(1): 38-45.
- **Hina Alim**, Shardul Gangan, Quraishi Firdaus Mukhtar and A. K. Balange (2018). Utilization of *Pangasius Mince* in the Development of Ready to Eat Snacks and its Storage Study. *International Journal of Current Microbiology and Applied Sciences* 7(10): 2314-2324.

- **Hina Alim**, Firdaus Mukhtar Quraishi and Jadhav B. L. (2018). Molecular characterization of freshwater mussel *Lamellidens marginalis* using mitochondrial COI gene. *International Journal of Current Advanced Research* 7(1B): 8844-8847.
- Utkarsha Keer, **Hina Alim**, Martin Xavier and A. K. Balange (2018). Quality changes during ice storage of *Acetes* species. *International Journal of Current Microbiology and Applied Sciences* 7(01): 2063-2071.
- Quraishi Firdaus Mukhtar, **Hina Alim** and B. L. Jadhav (2017). In vitro evaluation of cytotoxic activity of fruit methanol extract of *Ceriops tagal* mangrove. *International Journal of Pharmacy* 8(10):157-159.
- **Hina Alim**, K. A. Martin Xavier, S. S. Gangan and A. K. Balange (2017). Development of fish *chakli* from *Pangasius* mince and its storage study *Journal of Indian Fisheries Association* 44(1): 01-09.
- Madhu V. R., Kurcheti Pani Prasad and **Hina Alim** (2014). Effect of Benzalkonium chloride (BKC) on the blood cells and immune system of *Clarias batrachus* *International Journal of Fisheries and Aquatic Studies* 1(4): 32-40.
- Sarvendra Kumar Amit Ranjan, Sujit Kumar, Kishor Kunal, Satya Prakash and **Hina Alim** . Inhibition of quorum sensing system as a new approach to design of drugs against bacterial pathogenicity in fish & shellfish (2014). *Aqua International*, 40-4: 27.
- **Hina Alim**, B. L. Jadhav and W. S. Lakra (2011). Population genetic structure of pearl producing bivalve *Lamellidens marginalis* using allozyme markers. *Journal of Indian Fisheries Association* 38:19-28.
- **Hina Alim**, B. L. Jadhav and W. S. Lakra (2010). Genetic variation between *Lamellidens marginalis* populations of Indian waters by randomly amplified polymorphic DNA. *Bionano Frontier* 3(2):153-157.

#### Gene Sequences Submitted in GenBank (NCBI)

- Lakra W. S., Verma M. S. and **Alim H.**, (12<sup>th</sup> May, 2009). Eight mitochondrial gene sequences (Cytochrome Oxidase Subunit-I gene) of *Lamellidens marginalis* were submitted in GenBank. The Accession numbers of gene sequences are as follows- GQ149468, GQ149469, GQ149470, GQ149471, GQ149472, GQ149473, GQ149474 and GQ149475.

#### BOOK CHAPTERS

- Gazala Tabassum, Sandeep K. Behera, Nimisha Patel, Ahmad Ali and **Hina Alim** (2026). Unveiling the Mechanisms Behind Therapeutic Power of Medicinal Fruits and Berries Book Exploring Medicinal Fruits and Berries 1st Edition CRC Press DOI: 10.1201/9781003688259-18 ISBN: 9781003688259

- Sandeep K. Behera, Gayatri Talekar, Amit Brujkishor Verma, Fatima Zahra Kamal, Nimisha Patel, Ahmad Ali and **Hina Alim** (2026). Terpenoids and Their Multifunctional Roles in Plant Defense and Ecology In book: Plant Secondary Metabolites in Ecological, Biochemical, and Agricultural Systems (pp.49-59) Edition: 1 Publisher: CRC Press, Boca Raton DOI:10.1201/9781003681755-4
- **Hina Alim**, Sandeep K. Behra, Gayatri A. Talekar, Ahmad Ali and Nimisha Patel (2026). Soil fertility management for stress resilience In book: Mineral Nutrients to Mitigate Abiotic Stress in Crops (pp.309-329) Publisher: Elsevier DOI:10.1016/B978-0-443-44712-9.00013-X
- Amit B. Verma, Fatima Zahra Kamal, Said Kewedar, Nimisha Patel, Ahmad Ali and **Hina Alim** (2026). Future perspectives on plant enzyme systems in biotechnology and environmental sciences. In Book Plant Enzyme Systems and Their Biochemical and Environmental Interactions 215-224 1st Edition, CRC Press ISBN 9781003669920 DOI: <https://doi.org/10.1201/9781003669920>
- Lakshika Arya, Hina Alim Nistha Chawla and Nimisha Patel (2025). Nano-enhanced Organic Farming: A Sustainable Approach In book: Handbook of Nanotechnology in Agriculture (pp.1-14) DOI:10.1007/978-981-96-4489-6\_34-1
- Ishita Jayesh Oza, Amit Brujkishor Verma, Nimisha Patel, Ahmad Ali and **Hina Alim** (2025). Silicon: Uptake, Toxicity, and Tolerance in Crop Plants and Management of Si-Contaminated Soil In book: Enhanced Crop Production Setup Under Various Micro and Nano Contaminants (pp.173-184) Publisher: Springer Nature Singapore, Singapore Editors: Azamal Husen DOI:10.1007/978-981-96-6099-5\_9
- Hina Alim, Nimisha Patel, Lakshika Arya and Nishtha Chawla (2025). Nano-enhanced Organic Farming: A Sustainable Approach In book: Handbook of Nanotechnology in Agriculture (pp.1-14) DOI: 10.1007/978-981-96-4489-6\_34-1 ISBN: 978-981-96-4489-6
- Ishaan Lakhani, Proxima Dhiman, Vikas Dutt, Hina Alim, Ahmad Ali and Nimisha Patel (2025). Nanosensors for Detection of Agricultural Soil Microbes In book: Nanobiosensors for Agricultural and Other Related Sectors (pp.137-154) Publisher: Springer Nature Singapore, Singapore Editors: Azamal Husen DOI: 10.1007/978-981-96-6499-3\_6 ISBN: 978-981-96-6498-6
- Amit B. Verma, Ishita J. Oza, A. Shah Rehana Anjum, Firdaus M Quraishi and **Hina Alim** (2025). Understanding the impacts of herbicides, insecticides and fungicide stress for crop plant growth and production. In Book: Enhanced crop production setup under various micro and nano contaminants Pp263- 278 Springer DOI: [https://doi.org/10.1007/978-981-96-6099-5\\_13](https://doi.org/10.1007/978-981-96-6099-5_13) ISBN 978-981-96-6099-5
- Bhakti Naik, Ishita Oza, Ujwala Jadhav and **Hina Alim** (2025). Stress Responses of Wetlands and Aquatic Plants to Gold Nanoparticles In book: Plant Response to Gold Nanoparticles December edited by Azmal Husen

DOI: 10.1007/978-981-97-7174-5\_12 Edition: First Chapter: 2 Publisher: CRC Press.

- Tanisha, Ujwala Jadhav and **Hina Alim** (2025). Genotoxicity of silver nanoparticles in plants and underlying mechanism in book: Plant Response to Silver Nanoparticles 68-87 edited by Azmal Husen, published by Springer, <https://doi.org/10.1007/978-981-97-7352-7>, ISBN 978-981-97-7352-7
- Pradhan, Y., **Alim, H.**, Patel, N., Akhtar, J. and Ali, A. (2024). Antimalarial Response, Traditional and Other Potential Uses of Piper Genera. In Antimalarial Medicinal Plants (pp. 237-245). CRC Press. <http://dx.doi.org/10.1201/9781003378396-15>
- Shah Rehana Anjum A, Firdaus M. Qurashi and **Hina Alim** (2024). Spirulina as a source of bioactive compounds in the food and health sector (2024). Futuristic Trends in Biotechnology IIIP Series Vol. 3, Book 14, Part 1, Chapter 9, e-ISBN: 978-93-6252-531-4
- Patel, A., Khan, T., Patel, N., Ali, A. and **Alim, H.** (2024). Biology and Genetic Improvement of Antimalarial Plant Species. In Antimalarial Medicinal Plants (pp. 40-63). CRC Press. <http://dx.doi.org/10.1201/9781003378396-2>
- Lakhani, I., Sharma, G., **Alim, H.**, Ali, A. and Patel, N. (2024). Antioxidants from Antimalarial Plants and Their Applications. In Antimalarial Medicinal Plants (pp. 128-140). CRC Press. <http://dx.doi.org/10.1201/9781003378396-7>
- Balyan, P., **Alim, H.** and Ali, A. (2024). Traditional Uses, Pharmacological Properties, and other Potential Uses of Black Cumin Seeds. In Medicinal Spice and Condiment Crops (pp. 155-167). CRC Press. <http://dx.doi.org/10.1201/9781003387046-11>
- Bajaj, T., **Alim, H.**, Ali, A., and Patel, N. (2023). Phytochemical and Bioactive Compounds of Green Algae (Chlorophyta) and Their Applications. Aquatic Medicinal Plants. <http://dx.doi.org/10.1201/9781003256830-14>
- Bajaj, T., **Alim, H.**, Ali, A., and Patel, N. (2023). Phytotoxicity Responses and Defence Mechanisms of Heavy Metal and Metal-Based Nanoparticles. In Nanomaterials and Nanocomposites Exposures to Plants: Response, Interaction, Phytotoxicity and Defense Mechanisms (pp. 59-96). Singapore: Springer Nature Singapore. [http://dx.doi.org/10.1007/978-981-99-2419-6\\_4](http://dx.doi.org/10.1007/978-981-99-2419-6_4)
- Patel, A., Patel, N., Ali, A., and **Alim, H.** (2023). Interaction Between Metal Oxide Nanoparticles and PGPR on Plant Growth and Development. In Nanomaterials for Environmental and Agricultural Sectors (pp. 221-238). Singapore: Springer Nature Singapore. [http://dx.doi.org/10.1007/978-981-99-2874-3\\_11](http://dx.doi.org/10.1007/978-981-99-2874-3_11)
- Patel, A., Patel, N., Ali, A. and **Alim, H.** (2023). Nanomaterials Synthesis Using Saponins and Their Applications. In: Husen, A. (eds) Secondary Metabolites Based Green Synthesis of Nanomaterials and Their Applications. Smart Nanomaterials Technology. Springer, Singapore. [https://doi.org/10.1007/978-981-99-0927-8\\_7](https://doi.org/10.1007/978-981-99-0927-8_7)
- Apekshakumari Patel, Nimisha Patel, Ahmad Ali and **Hina Alim** (2023). Metabolic engineering of plant primary-secondary metabolism interface. In book: Genomics, Transcriptomics, Proteomics of crop plants. Academic press

Edited by Azmal Husen & Altaf Ahmad, ISBN 978-0-323-95989-6.  
DOI: 10.1016/B978-0-323-95989-6.00015-2

- Varsha Mahesh Mayekar, **Hina Alim**, Ahmad Ali and Nimisha Patel (2023). Role of Mushrooms in the prevention of glycation and other secondary complications. In book: Therapeutic Mushrooms for Diabetes Mellitus DOI: 10.1201/9781003332046-7 **August ISBN** 9781003332046
- Gomti Sharma, Mubashshir Ali, **Hina Alim**, Ahmad Ali, and Nimisha Patel (2023). Role of non-coding RNA in regulation of biological processes of crop plants Genomics, Transcriptomics, Proteomics and Metabolomics of Crop Plants Pp 1-32.
- Apekshakumari Patel, Nimisha Patel, Ahmad Ali, and **Hina Alim** (2023). Uses of Poisonous Plants in Nanoscience. In book: Exploring Poisonous Plants Medicinal Values, Toxicity Responses, and Therapeutic Uses Taylor & Francis Group, LLC pp Pp 42-65. DOI: 10.1201/b23017-4. January 2023.
- Yashashree Pradhan, **Hina Alim**, Nimisha Patel, Johra Khan, Belkıs Muca Yiğit, Kamal Fatima Zahra, and Ahmad Ali (2023). *Acorus calamus* (Sway or Muskrat Root). In book: Exploring Poisonous Plants, Taylor & Francis Group, LLC pp 113-124. DOI: 10.1201/b23017-9. January 2023
- Atmaya Vartak, Shraddha Sonawane, **Hina Alim**, Nimisha Patel, Lamia Hamrouni, Johra Khan and Ahmad Ali (2022). Medicinal and Aromatic Plants in the Cosmetics Industry In book: Medicinal and Aromatic Plants of India Vol. 1 DOI: 10.1007/978-3-030-98701-5\_12 July 2022
- Vartak, A., Sonawane, S., **Alim, H.**, Patel, N., Hamrouni, L., Khan, J., and Ali, A. 2022. Medicinal and Aromatic Plants in the Cosmetics Industry. In: Máthé, Á., Khan, I.A. (eds) Medicinal and Aromatic Plants of India Vol. 1. Medicinal and Aromatic Plants of the World, vol 8. Springer, Cham. [https://doi.org/10.1007/978-3-030-98701-5\\_12](https://doi.org/10.1007/978-3-030-98701-5_12)
- Ankur Anavkar, Nimisha Patel, Ahmad Ali, and **Hina Alim** (2022). *Plantago ovata* (Isabgol) and *Rauvolfia serpentina* (Indian Snakeroot). In book: Herbs, Shrubs, and Trees of Potential Medicinal Benefits, Edited by Azamal Husen, Traylor & Francis Group pp 235 eBook ISBN9781003205067, DOI: 10.1201/9781003205067-13
- Yashashree Pradhan, **Hina Alim**, Nimisha Patel, Kamal Fatima Zahra, Belkıs Muca Yiğit, Johra Khan, and Ahmad Ali (2022). *Piper longum* (Long Pepper or Pipli) and *Tinospora cordifolia* (Giloy or HeartLeaved Moonseed). In the book: Herbs, Shrubs, and Trees of Potential Medicinal Benefits, Edited by Azamal Husen, Traylor & Francis Group, pp 217-233. eBook ISBN9781003205067, DOI: 10.1201/9781003205067-12
- Muzafar Zaman, Shahnawaz Hassan, Sabah Fatima, Basharat Hamid, Shabeena Farooq, **Hina Alim**, Vibhor Agarwal and Sayyed R Z (2022). Biosurfactants: Production and Application in Food 142-158 In book: Microbial Surfactants vol. 2: applications in food and agriculture, CRC Press, Taylor and Francis group. eBook ISBN9781003247739, DOI: 10.1201/9781003247739-7
- Ankur Anavkar, Nimisha Patel, Ahmad Ali, Walhe Rajan, and **Hina Alim** (2022). Gut Microbes: Influencers of Human Brain. R. Z. Sayyed, M. Khan (eds.), In book: Microbiome-Gut-Brain Axis, The Author(s), under exclusive

license to Springer Nature Singapore Pte Ltd. 2021. ISBN 978-981-16-1626-6 (eBook) DOI: 10.1007/978-981-16-1626-6\_1

- Walhe Rajan, **Hina Alim** and Kumari Sunita (2022). From probiotics to postbiotics: Key to Microbiome and Health R. Z. Sayyed, M. Khan (eds.), In book: Microbiome-gut-brain axis, Springer Nature Singapore Pte Ltd. 2021. ISBN 978-981-16-1626-6 (eBook) DOI: 10.1007/978-981-16-1626-6\_23

