

# **DR. HINA ALIM**

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## **RESEARCH AREA**

- Fisheries and Aquaculture, Molecular Biology, Genetics

## **RESEARCH INTEREST**

- Fish Genetics and Biotechnology, Fish Cell Culture

## **CURRENT POSITION**

- Assistant Professor in the University Department of Life Sciences, University of Mumbai, Mumbai, India

## **ACADEMIC QUALIFICATIONS**

- **Ph.D.** (Life Sciences) - 2011, University of Mumbai, Mumbai, India  
Thesis entitled “Studies on genetic diversity of freshwater pearl producing bivalve *Lamellidens marginalis* (LAMARCK)”
- **M.Sc.** (Zoology) - 2005, M. J. P. Rohilkhand University, Bareilly, U.P., India

## **PROFESSIONAL EXPERIENCE (TEACHING & RESEARCH)**

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| 01/09/2020 to till date  | : Presently working as <b>Assistant Professor</b> in the University Department of Life Sciences, University of Mumbai, Mumbai |
| 30/08/2019 to 31/07/2020 | : Worked as <b>Assistant Professor</b> in the University Department of Life Sciences, University of Mumbai, Mumbai            |
| 06/05/2019 to 28/08/2019 | : Worked as <b>Assistant Professor</b> in the University Department of Life Sciences, University of Mumbai, Mumbai            |
| 26/11/2018 to 04/05/2019 | : Worked as <b>Assistant Professor</b> in the University Department of Life Sciences, University of Mumbai, Mumbai            |
| 22/06/2018 to 05/11/2018 | : Worked as <b>Assistant Professor</b> in the University Department of Life Sciences, University of Mumbai, Mumbai            |

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| 16/12/2017 to 31/05/2018 | : Worked as <b>Assistant Professor</b> in the University Department of Life Sciences, University of Mumbai, Mumbai   |
| 12/06/2017 to 11/12/2017 | : Worked as <b>Assistant Professor</b> in the University Department of Life Sciences, University of Mumbai, Mumbai   |
| 15/07/2016 to 30/04/2017 | : Worked as <b>Assistant Professor</b> in the University Department of Life Sciences, University of Mumbai, Mumbai   |
| 26/07/2014 to 14/07/2016 | : <b>Post-doctoral research experience</b> in a project entitled “Pilot scale demonstration of value added fish products from surimi” proposed by Rajiv Gandhi Science & Technology Commission in the Post Harvest Department, Central Institute of Fisheries Education (CIFE), Mumbai |
| 06/06/2012 to 31/03/2014 | : <b>Post-doctoral research experience</b> in a project entitled “Strengthening of digital library and Information Management” under NAIP at Central Institute of Fisheries Education (CIFE), Mumbai   |

### **STUDENTS GUIDED**

- Guided 29 students of M.Sc. Part II Life Sciences for their Review of Literature and Project work.

### **MEMBERSHIPS**

- Life Member of Indian Science Congress Association (ISCA)

### **REVIEWER OF JOURNAL**

- Commagene Journal of Biology
- Biosciences Biotechnology Research Asia

### **ADMINISTRATIVE RESPONSIBILITIES**

- 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.

### CONTRIBUTIONS IN SYMOSIA/CONFERENCES

- **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 *Sonneratia alba* mangrove” organized by N. G. Acharya & D. K. Marathe 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/LECTURES DELIVERED**

- 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.
- Delivered a lecture on “Importance of value-added fish products & entrepreneurship 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.
- 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**

- Attended training programme on “Development of Freshwater Fish Cell Culture” 01<sup>st</sup> – 20<sup>th</sup> February, 2012 AEHM, CIFE Mumbai.

#### **BOOK**

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

#### **RESEARCH PUBLICATIONS**

- 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.
- Misba M. Shaikh, **Hina Alim**, Firdaus Mukhtar Quraishi and B. L. Jadhav (2018). Antibacterial activity of squid *loligo duvauceli* against human pathogens. *World Journal of Pharmaceutical Research* **7(6)**: pp 1093-1098.



- **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)**: pp 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)**: pp 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)**: pp 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.
- Amit Ranjan, Sujit Kumar, Kishor Kunal, Satya Prakash, **Hina Alim** & Sarvendra Kumar (2014). Inhibition of Quorum Sensing System as a new approach to design of drugs against bacterial pathogenicity in fish & shellfish. *Aqua International* 27<sup>th</sup> Edn. pp 40-41.
- **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**: pp 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)**: pp 153-157.

#### **Gene Sequences Deposition 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.

### **COMMUNICATED**

- Utkarsha Keer, **Hina Alim** and A. K. Balange. Effect of Freezing & Frozen Storage on the Quality & stability of *Acetes Spp.* submitted to *Journal of Indian Fisheries Association*.
- Pani Prasad Kurcheti, Dhayanath, Abisha Juliet Mary, Jeena K. and **Hina Alim**. Biosynthesis of nanoparticles- A new horizon in Fish biomedicine submitted to *Journal of Aquaculture and Fisheries*.