

# Curriculum Vitae

## ARGHYA LAHA

44, Haran Ch. Laha Main Road, Suksanatantala, P.O. Chandannagar,  
District: Hooghly, State: West Bengal, India, PIN: 712136.

**Mobile:** +91 8777713217, +91 9051852598

**E-mail:** arghyalaha92@gmail.com



## Current Position

**CSIR-Senior Research Fellow at Dept. of Zoology, The University of Burdwan, India and pursuing PhD from Dept of Zoology, University of Calcutta under the joint supervision of Prof. Goutam Kumar Saha and Prof. Sanjoy Podder.**

Title of the thesis: **Identification Of Susceptible Genetic Variants Associated With Food Allergy Within Population Of West Bengal, India.**

## Education

|                 |   |   |
|-----------------|---|---|
| 2008            | 10 level  | West Bengal Board of Secondary Education          |
| Marks obtained: | 88.38%  |   |
| 2010            | 10+2 level  | West Bengal Council of Higher Secondary Education |
| Marks obtained: | 86.67%  |   |
| 2010-2013       | B.Sc. (Hons.) in Zoology  | University of Calcutta                            |
| Marks obtained: | 74.75%  |   |
| 2013-2015       | M.Sc. in Zoology<br>(Specialization: Ecology and Fisheries Sc.) | University of Calcutta                            |
| Marks obtained: | 76.20%  |   |
| 2017-contd.     | Ph.D. in Zoology (Thesis submitted)                             | University of Calcutta                            |

## Awards

- ✚ Scholarship from Govt. of India, Ministry of Human Resource Development, Dept. of Higher Education on the basis of result of 10+2 level exam 2010.
- ✚ N.M Basu Memorial Merit award for securing the highest marks in Zoology Hons. exam 2013 from City College under University of Calcutta.
- ✚ Qualified CSIR-UGC National Eligibility Test in Life Sciences held on 18<sup>th</sup> Dec, 2016 (Rank-56; CSIR-JRF).
- ✚ Qualified Graduate Aptitude Test in Life Sciences in 2017 with all India rank 185.
- ✚ Qualified West Bengal SET in Life sciences in 2017.
- ✚ International Travel Support from Science and Engineering Research Board (SERB), Govt. of India for attending World Allergy Organization (WAO) - British Society for Allergy & Clinical Immunology (BSACI) UK Conference, 25<sup>th</sup> to 27<sup>th</sup> April, 2022.
- ✚ WAO/BSACI Abstract Bursary Award for attending World Allergy Organization (WAO) - British Society for Allergy & Clinical Immunology (BSACI) UK Conference, 25<sup>th</sup> to 27<sup>th</sup> April, 2022.

## Research experience

---

- ✚ **July-Sept'15** Summer training of Biotech RISE program by Dept. of Biotechnology, Govt. of West Bengal at CSIR- Indian Institute of Chemical Biology, Jadabpur, Kolkata- 700032  
Supervisor: Dr. Subhjit Biswas, Senior Scientist, Infectious Disease and & Immunology Division, CSIR-IICB, Kolkata  
Project: Synthesis and characterization of silver nanoparticles using plant extracts & testing their antimicrobial activity
- ✚ **Sept'15-Dec'16** Young Professional –II at ICAR – Central Inland Fisheries Research Institute, Barrackpore, Kolkata- 700120  
Supervisor: Dr. Sanjib Kumar Manna, Principal Scientist, ICAR-CIFRI, Kolkata  
Project: ICAR Network project on Fish Health
- ✚ **Sept'17-contd** PhD work

## Teaching experience

---

- ✚ **Dec'18-June'20** Internal examiner for practical exam in Zoology at Netaji Subhas Open University

## Skills

---

**Genomic DNA isolation, PCR, Agarose gel electrophoresis, RFLP, Sanger sequencing**

## Membership

---

- ✚ Junior member of European Academy of Allergy and Clinical Immunology (EAACI) (Membership No.: EAACI20725).
- ✚ International PhD member of American Academy of Allergy, Asthma & Immunology (AAAAI) (Membership ID: 141261).
- ✚ Junior member of World Allergy Organization (WAO).
- ✚ Life member of Indian Science Congress Association (Section: New biology including Biochem., Biophys. & Mol. Biol. & Biotech.) (Membership No.: L37664).
- ✚ Life member of Zoological Society, Kolkata.

## Publications

---

### I. Research Articles:

- Laha A**, Bhattacharya S, Moitra S, Saha NC, Biswas H, Podder S (2022). Assessment of egg and milk allergies among Indians by revalidating a food allergy predictive model. **World Allergy Organ J (Elsevier)**. 15:100639. **I.F. 4.084**.
- Laha A**, Ghosh A, Moitra S, Biswas H, Saha NC, Bhattacharya S, Saha GK, Podder S (2020). Association of HLA-DQ and IL13 gene variants with challenge-proven shrimp allergy in West Bengal, India. **Immunogenetics (Springer)**. 72: 489-498. **I.F.: 2.846**

- c. Laha A, Ghosh A, Moitra S, Saha I, Saha GK, Bhattacharya S, Podder S (2020). Association of STAT6 rs3024974 (C/T) polymorphism with IgE mediated food sensitization among West Bengal population, India. **Int Arch Allergy Immunol (Karger Publication)**. 181: 200-210. **I.F.: 2.749**
- d. Laha A, Sarkar T, Dey D, Mondal P, Bhattacharya S, Moitra S, Saha GK, Podder S (2020). Assessment of Hymenoptera and Non-hymenoptera insect bite and sting allergy among patients of tropical region of West Bengal, India. **J Med Entomol (Oxford publication)**. 57(1): 1-7. **I.F.: 2.278**
- e. Banerjee P, Islam MM, Laha A, Biswas H, Saha NC, Saha GK, Sarkar D, Bhattacharya S, Podder S (2020). Phytochemical analysis of mite-infested tea leaves of Darjeeling Hills, India. **Phytochem Anal (Wiley)**. 31(3): 277-286. **I.F.: 3.373**
- f. Biswas BK, Dey S, Chakrabarty A, Laha A, Mandal TK, Karmakar L, Das D (2020). Biocompatible implant mimicking cartilage: A new horizon for reconstructive facial field. **Artif Organs (Wiley)**. 44(11): E494-E508. **I.F.: 3.094**
- g. Mondal P, Dey D, Sarkar T, Laha A, Moitra S, Bhattacharya S, Saha NC, Saha GK, Podder S (2019). Evaluation of sensitivity towards storage mites and house dust mites among nasobronchial allergic patients of Kolkata, India. **J Med Entomol (Oxford publication)**. 56(2): 347-352. **I.F.: 2.278**
- h. Dey D, Mondal P, Laha A, Sarkar T, Moitra S, Bhattacharya S, Saha GK, Podder S (2019). Sensitization to common aeroallergens in the atopic population of West Bengal, India: an investigation by skin prick test. **Int Arch Allergy Immunol (Karger Publication)**. 178: 60-65. **I.F.: 2.749**
- i. Ghosh A, Dutta S, Podder S, Mondal P, Laha A, Saha NC, Moitra S, Saha GK (2018). Sensitivity to house dust mites allergens with atopic asthma and its relationship with CD14 C(-159T) polymorphism in patients of West Bengal, India. **J Med Entomol (Oxford publication)**. 55 (1): 14-19. **I.F.: 2.278**

## II. Book Chapters:

- a. Laha A, Bhattacharyya S, Podder S (2018). Food allergy in India– An overview. In: D De (Ed), S. Roy (Ed) and G. C. Bera (Ed). *Biotechnology and Nature*. pp. 99-108. Kabitika, West Bengal.
- b. Laha A, Homechadhuri S, Chakraborty SB, Banerjee S (2018). Reviews on implementing the precautionary principles in fisheries management through marine reserves. In: B. K. Mahapatra (Ed), A. K. Roy (Ed) and N. C. Pramanik (Ed). *Sustainable Management of Aquatic Resources (Part –I)*. pp. 177-197. Narendra Publishing House, Delhi.

## III. Abstract:

- a. Laha A, Moitra S, Bhattacharya S, Saha GK, Podder S (2020). Diagnosis of food allergy using artificial intelligence: A sample study from West Bengal, India. *Allergy*. 75: 510.

## Paper Presentation

---

- ✦ Understanding the association of polymorphisms in HLA-DQ and IL13 genes with shrimp allergy among West Bengal population, India. **Poster presentation in World Allergy Organization (WAO) - British Society for Allergy & Clinical Immunology (BSACI) UK Conference, 25-27 April, 2022, Edinburgh, Scotland.**
- ✦ Investigation of the role of STAT6 rs3024974 (C/T) polymorphism with food sensitization among West Bengal population, India. **E-poster in WISC 2020 (virtual), organized by World Allergy Organization, 16-18 July, 2020, Rome, Italy.**
- ✦ Diagnosis of food allergy using artificial intelligence: A sample study from West Bengal, India. **E-poster in EAACI Digital Congress 2020, 6-8 June, 2020, London, UK.**
- ✦ Role of HLA-DQ and IL13 gene polymorphisms in shrimp allergy among West Bengal population, India. **Poster Presentation (2<sup>nd</sup> position) in National Seminar on Life & Life Processes: Interdisciplinary Approach for Sustainable Development, 19-21 July, 2021, organized by Dept. of Zoology, Goa University.**

- ✦ Predictive models of food allergy diagnosis – Artificial Neural Network and Fuzzy Logic based approaches. **Oral presentation in International Symposium on Bioinformatics and Artificial Intelligence in Covid-19 era and beyond, 24-25 November, 2020 organized by Amity University, UP, India.**
- ✦ Role of STAT6 rs3024974 (C/T) polymorphism in eliciting food sensitization among West Bengal population, India. **Oral presentation in Allercon 2020, 28-30 August, 2020, organized by Allergy and Asthma Research Centre, Kolkata, India.**
- ✦ Polymorphism in STAT6 gene encodes food sensitization of West Bengal population. **Oral presentation in National Seminar on Advancement of Biology in The 21<sup>st</sup> Century, 28-29 February, 2020, organized by Dept. of Zoology, Visva-Bharati University, West Bengal, India.**
- ✦ Investigation of food allergy in India: A sample study at West Bengal with predictive models using artificial intelligence. **Oral presentation in Allercon 2019, 2-3 March, 2019, organized by Allergy and Asthma Research Centre, Kolkata, India.**
- ✦ Prevalence of food allergy among West Bengal population – an explanation by artificial intelligence. **Oral presentation in National Conference on Future India : Science and Technology, 27-28 February, 2019, jointly organized by City College, Kolkata and Indian Science Congress Association.**
- ✦ Predictive models of food allergy of West Bengal population, India – Artificial Neural Network and Fuzzy Logic based approaches. **Oral presentation in Golden Jubilee International Conference on Trends in Zoology, 3-4 January, 2019, organized by Dept. of Zoology, University of Burdwan, West Bengal, India.**
- ✦ Food allergy in India – An Overview. **Poster Presentation (1<sup>st</sup> position) in National Seminar on Biotechnology in Human Welfare, 15<sup>th</sup> December, 2018, organized by Dept. of Botany, Midnapore College, West Bengal, India.**
- ✦ House dust mites sensitivity in atopic asthma of patients of West Bengal and its relationship with CD14 C(-159T) polymorphism. **Poster presentation in Intzoocon 2018, 1-3 February, 2018, organized by Dept. of Zoology, University of Calcutta, Kolkata, India.**
- ✦ House dust mites sensitivity in atopic asthma of patients of West Bengal and its relationship with CD14 C(-159T) polymorphism. **Oral presentation in Allercon 2017, 14<sup>th</sup> January, 2018, organized by Allergy and Asthma Research Centre, Kolkata, India.**
- ✦ Association of CD14 (C-159T) polymorphism with the disease manifestations of asthmatic patients exposed to dust mite allergens in Kolkata, India. **Poster presentation in National Seminar on Sustainable Environment and Healthcare, 5<sup>th</sup> June, 2017, organized by Tarak Nath Podder Memorial Foundation, Kolkata, India.**

## Referees

---

**Prof. Goutam Kumar Saha**  
 Professor  
 Dept. of Zoology  
 University of Calcutta  
 35, Ballygunge Circular Road,  
 Kolkata-700019  
 West Bengal, India

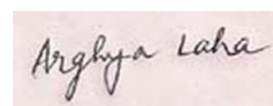
**Prof. Sanjoy Podder**  
 Professor  
 Dept. of Zoology  
 The University of Burdwan  
 Golapbag  
 Bardhaman- 713104  
 West Bengal, India

## Declaration

---

I do hereby declare that the above mentioned information is correct up to my knowledge and I will solely be responsible for any discrepancy found in them.

Date: 18.06.2022



(ARGHYA LAHA)