




Dr.	First Name	Asani	Last Name	Bhaduri	Photograph
<b>Designation</b>	Assistant Professor				
<b>Address</b>	Room No. 116 First Floor, Cluster Innovation Centre, Sports Complex, G.C. Narang Marg, Delhi University, North Campus Delhi 110007, India				
<b>Phone No Office</b>	(+91) 11-27666706, Extension: 134				
<b>Residence Mobile</b>	(91) 9818877069				
<b>Email</b>	abhaduri@cic.du.ac.in asani.bhaduri@gmail.com				
<b>Web-Page</b>	<a href="https://plus.google.com/u/0/+AsaniBhaduri">https://plus.google.com/u/0/+AsaniBhaduri</a>				
<b>Educational Qualifications</b>					
<b>Degree</b>	<b>Institution</b>	<b>Subjects/Topics</b>			
Ph.D. (2014)	Institute of Genomics and Integrative Biology (CSIR-IGIB) and University of Delhi	Molecular and Biochemical Studies on Secretory Proteins of Mycobacteria (molecular microbiology)			
P.G. Diploma (2009)	Indian Law Institute	Intellectual Property Rights			
M.Sc. (2005)	University of Delhi	Botany			
B.Sc. Hons. (2003)	Presidency College, University of Calcutta	Botany			
<b>Career Profile</b>					
<b>Teaching Experience:</b>					
<ul style="list-style-type: none"> <li>Assistant Professor at Cluster innovation Centre (2015 July onwards).</li> <li>Assistant Professor (ad-hoc) at Cluster innovation Centre (2013 August- 2015 July).</li> </ul>					
<b>Research Experience:</b>					
<ul style="list-style-type: none"> <li>Institute of Genomics and Integrative Biology, Delhi (Research Fellow: 2006-2014).</li> <li>National Institute of Immunology, Ph.D. coursework (2005-6).</li> <li>Summer research internship at Department of Chemistry, Hyderabad Central University (2004-2005).</li> <li>Project trainee in National Institute of Plant Genome Research, 2003-2004.</li> </ul>					
<b>Administrative Assignments</b>					
<b>At Cluster innovation Centre:</b>					
<ul style="list-style-type: none"> <li>Successful inception, co-ordination and completion of the first 'Summer-Internship' of Cluster Innovation Centre held in June-July 2016, where about 40 students from different institutes participated.</li> <li>Member, Academic Sub-Committee (MoU) (2016-).</li> <li>Member, Maintenance Committee (2016-).</li> <li>Member, Cultural Committee (2016-).</li> </ul>					

- Member, Newsletter; Annual Report; Website Committee.
- Involved in creating design and write-up of Cluster Innovation Centre Brochure (2014-2016).
- Member: sub-technical committee, system biology laboratory.
- Involved in creating the syllabus of Systems Biology curriculum (B.Tech IT) at CIC.
- Eco-club organization at CIC.

**Other:**

- Volunteer in organizing workshop, seminars at DU, CSIR-IGIB.

**Areas of Interest / Specialization**

- Host-Pathogen interaction in emerging and neglected infectious diseases.
- Secretory pathways and mechanisms in Tuberculosis.
- *in silico* biology.
- Non-coding RNA and Systems biology.
- Biotic/abiotic stress regulation in plants.
- Cancer and genetic diseases.
- Wildlife Biology: Birds, Odonates.
- Indian Classical Music (instrumental)

**Subjects Taught**

- Understanding new biology
- Methods for studying biological informational molecules
- Integrative biology
- Exploring biology - systems approach
- Genes to genomes
- Flow of information in living systems
- Biological networks: from micro to macro niche
- *in silico* biology
- Systems biology
- Theory in practice: the art of project management
- Environment science & ecosystem management

**Research Guidance**

- Mentored several undergraduate students for semester-long projects and innovation projects.

**Publications Profile**

**Research Articles:**

- Ray A, **Bhaduri A**, Srivastava N, Mazumder S (2016) Identification of novel signature genes attesting arsenic-induced immune alterations in adult zebrafish (*Danio rerio*) **Journal of Hazardous Materials**. doi: 10.1016/j.jhazmat.2016.09.001
- Bhetariya P, Prajapati M, **Bhaduri A** et al. (2016) Structural analysis of keto synthase domain in *Aspergilli* and its utility for detection **Evolutionary Bioinformatics** (12: 109–119). doi: 10.4137/EBO.S32694.
- **Bhaduri A**, Misra R, Dhamija N (2015) To eat or not to eat: understanding the tussle between mycobacteria and host autophagy **Indian Journal of Microbiology** doi: 10.1007/s12088-015-0541-9.
- Maji A, ..., **Bhaduri A**,..., Gokhale R, Singh Y (2015) Expression profiling of lymph nodes in tuberculosis patients reveal inflammatory milieu at site of infection **Scientific Reports** (SREP-

15-05240A).

- Pathak N, **Bhaduri A**, Bhat KV, Rai A (2015) Tracking sesamin synthase gene expression through seed maturity in wild and cultivated sesame species - a domestication footprint **Plant Biology** doi: 10.1111/plb.12327.
- Singh LK, Dhasmana N, Sajid A, Kumar P, **Bhaduri A**, Bharadwaj M, Gandotra S, Kalia VC, Das T.K, Goel A.K, Pomerantsev AP, Misra R, Gerth U, Leppla SH, Singh Y (2014) ClpC operon regulates cell architecture and sporulation in *Bacillus anthracis*. **Environmental Microbiology** 17, 855–865.
- Dhasmana N, Singh LK, **Bhaduri A**, Misra R, Singh Y (2014) Recent Developments in Antidotes Against Anthrax. **Recent Patents on Anti-Infective Drug Discovery** Vol. 9, No. 2 (PMID: 25174439): 83-96.
- **Bhaduri A**, Misra R, Maji A, Bhetaria P, Mishra S, Arora G, J Virdi J S, Singh Y (2014) *Mycobacterium tuberculosis* cyclophilin A uses novel signal sequence for secretion and mimics eukaryotic cyclophilins for interaction with host repertoire. **PLoS ONE** 9(2): e88090
- Devi K, Sharma D, **Bhaduri A** and Kothamasi D (2013) Polymorphism in the partial hcnAB gene in hydrogen cyanide producing *Pseudomonas* species. **Geomicrobiology Journal**, 30: 2. 131-139.
- Arora G, Sajid A, Gupta M, **Bhaduri A**, Kumar P, Modak S, Singh Y (2010) Understanding the Role of PknJ in *Mycobacterium tuberculosis*: Biochemical Characterization and Identification of Novel Substrate Pyruvate Kinase A. **PLoS ONE** 5(5): e10772.

#### Popular Articles:

- Out of Play **The Hindu**, 2016. <http://www.thehindu.com/todays-paper/tp-features/tp-metroplus/Out-of-play/article16160512.ece>
- On a high with art **The Hindu**, 2015. <http://www.thehindu.com/todays-paper/tp-features/tp-metroplus/on-a-high-with-art/article7339911.ece>
- Rare sighting: A melanistic jungle cat from Ranthmbhore, **SAEVUS** wildlife magazine, 2015.

#### Conference Organization/ Presentations (in the last three years)

##### Invited Lectures/Dialogues/Oral Presentations:

- Oral presentation selected for ‘Young Scientist’ category of 57<sup>th</sup> Association of Microbiologists of India International Conference “Microbes and Biosphere: What’s New What’s Next”, Guwahati, Nov 24-27, 2016.
- Oral and poster presentation at EMBO Practical Course “Non-coding RNA in infection” Würzburg, Germany September 18–24 2016.
- Invited for lectures and practical demonstrations in add-on course on "Bioinformatics and *in silico* medicine" conducted by Miranda House, University of Delhi (Jan-March 2016).
- Invited to Katha/IGNOU consultative meeting and consequent discussions on ‘Translating India/ Understanding Diversity’ (August 20, 2015).
- Invited for lectures and practical demonstrations in add-on course on "Bioinformatics and *in silico* medicine" conducted by Miranda House, University of Delhi (Jan-March, 2014).

##### Poster Presentation:

- Poster presented at India International Science Festival (IISF) on “Science Communications: Bridging the Gap between Science and Society” December 7-11, 2016, Ayush Shukla, Dhiraj Kumar, Asani Bhaduri.
- Poster presented at Keystone Symposia ‘Tuberculosis Co-Morbidities and Immunopathogenesis’ (February-March 2016), “Unique Protein Motifs: The Mycobacterial

Slice” Ankit Pathak, Chandrani Kumari, Pavitra Selvakumar, Pragya Jaiswal, Prashant Sinha, Abhijeet Parmar, Asani Bhaduri.

- Poster presented at Maitreyi College in the conference on Man-made Diseases: An Urban Menace (February 11-12, 2016) “A snapshot of waste management systems in hospitals of Delhi”: Lavnish Mankani, Simranjeet Kaur, Asani Bhaduri.
- Poster presented in 5th Indian Peptide Society Symposium, September 24-25, 2015, Predicting unique motifs using data mining techniques in the proteome of *Mycobacterium tuberculosis* Chandrani Kumari, Pavitra S, Deepak Kumar P, Karpurmanjari K, Asani Bhaduri.
- Poster presented in Antardhvani, 2015, TB-MOTIF and TB-PROMOTER.
- Poster presented in Antardhvani, 2015, ‘Tails and Feathers’ an app for animal rescue.
- Poster presented in Leh Symposium, 2012 ‘Impersonating human cyclophilins: a mycobacterial mimicry’ Asani Bhaduri, Anshika Singhal, Neha Dhasmana and Yogendra Singh August 3-7, 2012.
- Poster presented in GenoMeet 2012, ‘DeCYPhering the PIN code of Tuberculosis’, Asani Bhaduri, Abhijit Maji, Yogendra Singh 30th December 2011-1st January 2012.

#### **Research Projects (Major Grants/Research Collaboration)**

- **Start-Up Research Grant (Young Scientists)** by SERB, DST in ‘Identification of virulence factors involved in the infection process of emerging and neglected food-borne pathogen *Campylobacter jejuni*’ (2016-18).
- **University of Delhi Research and Development Grant** ‘Tracking expression patterns of mycobacterial secreted virulence factors’ (2015-16).
- **Innovation Project CIC-307** ‘Developing an affordable three-dimensional Bioprinter facility’ (2015-16).
- **Innovation Project CIC-206** ‘Improving the current system of Junk management and recycling’ (2013-15).

#### **Awards and Distinctions**

- **Selected for Young Scientist category** at 57<sup>th</sup> AMI Conference Guwahati, Nov 24-27, 2016.
- **EMBO Travel Grant** to attend EMBO Practical Course “Non-coding RNA in infection” Institute of Molecular Infection Biology, Würzburg, Germany September 18–24 2016.
- **Certificate of Appreciation** for Innovation Project ‘Developing an affordable three-dimensional Bioprinter facility’, University of Delhi 2016.
- **‘Global Health Travel Award’** funded by the Bill & Melinda Gates Foundation to attend conference on ‘Tuberculosis Co-Morbidities and Immunopathogenesis’ organised by Keystone Symposia (February 2016).
- **‘Teaching Excellence Award for Innovation’** by University of Delhi (on Foundation Day 2015).
- **Senior Research Fellowship** by CSIR 2008, 2010(extended).
- **Junior Research Fellowship & Eligibility for Lectureship** by CSIR-UGC, 2006.
- **National Scholarship** in Master’s Degree (Ranked 3<sup>rd</sup> in the University of Calcutta and 1<sup>st</sup> in the merit list of Entrance test of Delhi University).
- **National scholarships** in class X and XII examinations.

#### **Association With Professional Bodies**

- Life member, The Association of Microbiologists of India.
- Editorial Board member Journal of Innovation for Inclusive Development <http://jiid.in/about-this-journal/editorial-board/>

- Reviewer for ‘Du-Vidha’ - a bilingual journal of creative writing of the University of Delhi <http://journals.du.ac.in/creative/index.html>
- Associated with ‘Translating India/ Understanding Diversity’ initiative.
- Co-founder of CIC eco-club Vasundhara.

- **Other Activities**

**Workshops, Courses and Leadership Camps:**

- Invited to be a part of Uttar Pradesh International Bird Festival, December 2-4 2016.
- Bio-entrepreneurship and Bio-enterprise creation workshop at IISER, Mohali, September 2-3, 2016.
- Workshop at YETI (Young Ecologists Talk and Interact) January 17, 2016.
- Technology Enriched Instruction Workshop “Faculty Development for the 21st Century” organised by PHD Chamber of Commerce and Industry and Microsoft (September 30 2015). Awarded ‘Microsoft Faculty Fellow’ certificate.
- Workshop on ‘Renovating bacterial taxonomy with Bioinformatics’ by National Bureau of Agriculturally Important Microorganisms (NBAIM) & Department of Zoology, University of Delhi, 14-15<sup>th</sup> May, 2015.
- Workshop on Environment/Natural Resource Conservation by Govt. of Delhi November 2014.
- ProArt Photography Workshop with Akash Das in Delhi Photography Festival Sept-Oct 2013.
- Art Appreciation course at National Museum Institute of the History of Art, Conservation and Museology, Delhi (2011-12).
- Third Novartis BioCamp – a biotechnology leadership camp in India (August 1-3, 2011).
- Attended training course in IPR from National Institute for Intellectual Property Management, Nagpur, India (2009-10).
- First CSIR workshop on Biosafety and Biosecurity organized at Indian Institute of Integrative Medicine, Jammu (29-31st January 2007).
- Workshop by Late Ustad Ali Akbar Khan and Pt. Buddhadeb Dasgupta at Rajya Sangeet Academy Kolkata (2000-2002).

**Music:**

- Learned violin under the guidance of Prof. Sisirkana Chowdhury, Previously Head, Bowing Department, Ustad Ali Akbar Khan College of Music, California, U.S.A.

**Art:**

- Presently engaged in abstract and wildlife photography. The Birds of India collection at Google plus has over 25,000 followers (<https://plus.google.com/collection/QwWZv>) Photographs featured in several exhibition, magazine, websites. Part of Google+ Create community.
- Collecting handicrafts (especially toys) and antiquities.

Asani

Signature of Faculty Member