



Faculty Details proforma for DU Web-site

(PLEASE FILL THIS IN AND Email it to websiteDU@du.ac.in)

Title	Dr.	First Name	Shibnath	Last Name	Mazumder	Photograph
Designation		Professor				
Address		Immunobiology Laboratory Dept of Zoology, University of Delhi Delhi 110 007				
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	Mobile	9999251575				
Email		shibnath1@yahoo.co.in				
Web-Page		zoology.du.ac.in				
Educational Qualifications						
Degree		Institution			Year	
Ph. D		Post-Graduate Institute of Medical Education & Research (PGIMER), Chandigarh			1999	
M. Phil		University of Delhi			1991	
M.Sc		University of North Bengal			1988	
B.Sc		University of North Bengal			1986	
Career Profile						
<ul style="list-style-type: none">• July' 11- Till date Professor, Dept. of Zoology, University of Delhi, Delhi 110 007, India.• April '09 – June '11 Associate Professor, Dept. of Zoology, University of Delhi, Delhi 110 007, India.• June '08 – March '09 Associate Professor, Dept. of Zoology, School of Life Sciences, Visva-Bharati University, Santiniketan, 731 235, West Bengal, India.• July '05- June '08 Reader, Dept. of Zoology, School of Life Sciences, Visva-Bharati University, Santiniketan 731 235, West Bengal, India.• Nov '04 – July '05 Senior Lecturer, Dept. of Zoology, School of Life Sciences, Visva-Bharati University, Santiniketan 731 235, West Bengal, India.• Nov '99 – Nov '03 Lecturer, Dept. of Zoology, School of Life Sciences, Visva-Bharati						

University, Santiniketan 731 235, West Bengal, India.

- **1993 - 1994 Lecturer**, Dept. of Biosciences, Banasthali Vidyapith (Deemed University), Rajasthan, India.

Areas of Interest / Specialization

- Immunobiology of host pathogen interactions
- Immunotoxicology

Subjects Taught

- Immunology
- Biology of parasitism
- Fish-Biology

Time table of the subjects taught during the current semester

S.No.	Subject	Days	Time	Classroom
1	Immunology (Theory)	Thursday and Friday	10.30-11.25 11.30-12.25	Room # 19
2	Immunology (Practical)	Monday Tuesday Wednesday	13.00-17.00 13.00-17.00 13.00-17.00	Physiology Laboratory
3.	Fish Biology (Theory)	Tuesday Wednesday Friday	9.30-10.25 10.30-11.25 9.30-10.25	Fish Biology Laboratory
4	Fish Biology (Practical)	Thursday	13.00-16.55	Fish Biology Laboratory
5	M.Sc Dissertation	Friday	13.00-16.55	Fish Biology Laboratory

Research Guidance

Ongoing Doctoral Thesis: Six

Publications Profile (Last Five years)

Datta. D, Khatri. P, Singh. A, Saha. D.R. Verma. G, Raman. R, **Mazumder. S** (2018). *Mycobacterium fortuitum*-induced ER-Mitochondrial calcium dynamics promotes calpain/caspase-12/caspase-9 mediated apoptosis in fish macrophages. **Cell Death Discov.** **4. 30.** DOI **10.1038/s41420-018-0034-9**

Srivastava. N, Shelly. A, Kumar. M, Pant. A, Das. B, Majumdar.T, **Mazumder. S** (2017). *Aeromonas hydrophila* utilizes TLR4 topology for synchronous activation of MyD88 and TRIF to orchestrate anti-

inflammatory responses in zebrafish. **Cell Death Discov.** DOI: 10.1038 /cddiscovery. 2017. 09.006

Singh. R, Khatri. P, Srivastava. N, Jain. S, Bramchhari. Vani , Mukhopadhyay. A, **Mazumder. S (2017)**. Fluoride exposure abates pro-inflammatory response and induces *in vivo* apoptosis rendering zebrafish (*Danio rerio*) susceptible to bacterial infections. **Fish.Shellfish Immunol.** DOI: 10.1016/j.fsi.2017.02.022

Ray. A, Bhaduri. A, Srivastava. N, **Mazumder. S (2016)**. Identification of novel signature genes attesting arsenic-induced immune alterations in adult zebrafish (*Danio rerio*). **J. HAZARD. MATER.** DOI: 10.1016/j.jhazmat.2016.09.001

Kumari. U, Srivastava. N, Shelly. A, Khatri. P, Sarat. N, Singh. D.K. and **Mazumder. S (2016)**. Inducible headkidney cytochrome P450 contributes to endosulfan immunotoxicity in walking catfish *Clarias gariepinus*. **Aquat. Toxicol.** DOI: 10.1016/j.aquatox.2016.08.009

Singh. R, Banerjee. C, Ray. A, Rajamani. P, and **Mazumder. S (2016)**. Fluoride-induced headkidney macrophage cell apoptosis involves activation of CaMKIIg-ERK 1/2-Caspase-8 axis: role of superoxide in initiating the apoptotic cascade. **Toxicol. Res.** 5. 1477-1489. DOI: 10.1039/C6TX00206D

Datta. D, Khatri. P, Banerjee. C, Singh. A, Meena. R, Saha. D.R., Rajagopal, R, Rajamani. P, Mitra. A , **Mazumder. S (2016)**. Calcium and superoxide-mediated pathways converge to induce nitric oxide-dependent apoptosis in *Mycobacterium fortuitum*-infected fish macrophages. **PLoS ONE 11 (1): e0146554.** doi:10.1371/journal.pone.0146554

Goswami. R, Mukherjee. S, Rana. V.S, Saha. D.R, Rajagopal. R, Padhy. P.K, **Mazumder. S (2015)**. Isolation and characterization of arsenic resistant bacteria from contaminated water-bodies in West Bengal, India. **Geomicrobiology. J.** DOI: 10.1080/01490451.2014.920938

Banerjee. C, Singh. A, Das. T.K, Rajagopal. R, Srivastava. A, **Mazumder. S (2014)**. Ameliorating ER-stress attenuates *Aeromonas hydrophila*-induced mitochondrial dysfunctioning and caspase mediated HKM apoptosis in *Clarias batrachus*. **Scientific Reports.** DOI: 10.1038/srep05820

Goswami. R, Mandal. S, Mandal. S, Padhy. P.K., Ray. S and **Mazumder, S. (2014)**. Effect of temperature and arsenic on *Aeromonas hydrophila* growth, a modelling approach. **Biologia.** DOI: 10.2478/s11756-014-0392-6

Banerjee. C, Khatri. P, Rajagopal. R, Bhatia. H, Datta. M and **Mazumder. S (2014)**. Role of Calmodulin-Calmodulin Kinase II, cAMP/Protein Kinase A and ERK 1/2 on *Aeromonas hydrophila*-Induced Apoptosis of Head Kidney Macrophages. **PLOSPathogens.** DOI: 10.1371/journal.ppat.1004018

Publications in the Last one year

Majumdar. T, Sharma.S, Kumar. M, Hussain. Arafat, Chauhan. N, Kalia. I, Sahu, A.K, Rana. V.S, Bharti. R, Haldar. A.K, Singh. A.P, **Mazumder. S. (2019)**. Tryptophan-kynurenine pathway attenuates β -catenin-dependent pro-parasitic role of STING-TICAM2-IRF3-IDO1 signalosome in *Toxoplasma gondii* infection. **Cell Death Dis (Springer-Nature)** DOI:10.1038/s41419-019-1420-9

Datta. D, Khatri. P, Singh. A, Saha. D.R. Verma. G, Raman. R, **Mazumder. S (2018)**. *Mycobacterium*

<i>fortuitum</i> -induced ER-Mitochondrial calcium dynamics promotes calpain/caspase-12/caspase-9 mediated apoptosis in fish macrophages. Cell Death Discov (Springer-Nature) DOI 10.1038/s41420-018-0034-9
Research Projects (Major Grants/Research Collaboration) Ongoing
Role of Wnt signaling (canonical/non-canonical) in <i>A. hydrophila</i> -induced apoptosis of fish macrophages (Dept of Science & Technology, Govt of India)
Awards and Distinctions
INSA Teachers Fellow 2012
Association With Professional Bodies
Life Member Indian Immunology Society Member Molecular Immunology Forum
Other Activities
Listening music, watching movies and reading



Signature of Faculty Member