

## Biodata

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3. Institution: Indian Institute of Science Education and Research Kolkata (IISER Kolkata)
4. Date of Birth: 26/12/1991
5. Gender: Male
6. Category: General

7. **Academic Qualification (Undergraduate Onwards)**

SL No	Degree	Year	Subject	University/Institution	% Marks
1.	M.S	2016	Life Sciences	IISER Kolkata	85
2.	B.Sc	2013	Zoology	University of Calcutta	74.4

8. Ph.D thesis title “Mouse hepatitis virus controls pathways of gap junction protein Cx43 oligomerisation”  
Guide’s Name: Prof. Jayasri Das Sarma,  
Institute: IISER-K  
Year of PhD enrolment- 2015.  
Tentative year of award- 2020

9. **Work experience (in chronological order).**

SL No	Positions held	Name of institute	From	To
1.	Junior Research Fellow	IISER-K	25/07/2015	16/05/2018
2.	Senior Research Fellow	IISER-K	16/05/2018	Current time
3.	Teaching assistant (Molecular cloning laboratory course- LS3205)	IISER-K	January 2019	April 2019

10. **Professional recognition/award/certificate/fellowship received**

SL No	Name of award	Awarding agency	Year
1.	CSIR AIR 65	Council of Scientific and Industrial Research, India	2015
2.	IISER-K fellowship	Ministry of human resource	2013

		development, Government of India.	
3.	IAS Summer fellowship	The Indian National Science Academy, The National Academy of Sciences, Indian Academy of Sciences	2014
4.	CSIR Travel award	Council of Scientific and Industrial Research, India	2018
5.	SERB Travel award	Science and Engineering Research Board, India	2019
6.	Best poster award at Indo-US Bilateral symposium, India	Indo-US Science and technology forum	2019

**11. Publications (List of papers published in SCI Journals, in year wise descending order).**

SL No	Authors	Title	Name of journal	Volume	Page	Year
1.	Abhishek Bose, Rahul Basu, Mahua Maulik, Jayasri Das Sarma	Loss of Cx43 Mediated Functional Gap Junction Communication in Meningeal Fibroblasts following Mouse Hepatitis Virus infection.	Molecular Neurobiology	55	6558- 6571	2018
2.	Rahul Basu, Abhishek Bose, Deepthy Thomas, Jayasri Das	Microtubule assisted altered trafficking of Astrocytic Gap Junction protein Connexin 43 is associated with	Journal of Biological Chemistry	292	14747- 14763	2017

	Sarma	depletion of Cx47 during Mouse Hepatitis virus infection.				
3.	Rahul Basu, Kaveri Banerjee, Abhishek Bose, Jayasri Das Sarma	Mouse Hepatitis Virus Remodels Connexin 43 mediated Gap Junction Intercellular communication <i>in vitro</i> and <i>in vivo</i> .	Journal of Virology	90	2586–2599	2015

## 12. Other relevant topics-

### ***Talks delivered-***

- CDFD Hyderabad and TCIS Hyderabad (Indian academy of Science summer programme, 2014)
- Indo-US bilateral conference 2017 (IUSSTF/University of Iowa/BHU)
- FM Kirby centre for molecular ophthalmology at University of Pennsylvania (2017)
- Indian Academy of neuroscience (IAN 2017) annual meet (Tulsabai somani award category-paper presentation)
- Indian Academy of neuroscience (IAN 2017) annual meet (DM Kar award category-paper presentation)

### ***Poster presented-***

- Second International meeting on Advanced Sciences on Cell signalling Network (CESIN 2014) at Indian Institute of Chemical Biology (IICB).
- FIMB 2015 at IISERK.
- ASCB-EMBO international cell biology meeting (2018)-at San Diego, USA.
- By collaborator Dr. Michael Koval, Professor department of cell biology, Emory University, at International Gap junction conference (IGJ conference 2019), Victoria, Canada.

- SFN meeting (Neuroscience 2019) at Chicago, Illinois, USA.
- Indo-US Bilateral symposium 2019 in India.

#### ***Seminars attended-***

- Training programme on techniques in biotechnology under DBT sponsored Star College Scheme (Ministry of science and technology, Govt of India)
- Frontiers in modern Biology (FIMB) conference, organised by Department of Biological Sciences, IISER-K (2013,2015,2017)
- Advances in modern Biology IISER-K (2016)
- Indo-US workshop on advanced Bioanalytical methods and applications (2018).

#### ***Summer projects undertaken-***

- IAS summer programme under Dr. Ashwin B. Dalal at CDFD Hyderabad 2014.
- Worked in Dr. Kenneth Shindler laboratory at Department of Ophthalmology, University of Pennsylvania 2017.

#### ***Projects supervised-***

- MS thesis projects- One student from parent institute (2016-2017) and one from St. Xavier college Kolkata (2017-2018)
- IAS summer projects -One student from Ranchi University (2015) and one from Utkal university (June 2019-currently)
- Lab rotation projects (Five students from parent institute IISER-K)

#### ***Grant submitted and approved-***

CSIR laboratory grant entitled “Impaired quality control of Connexin43 and decreased astrocyte gap junction communication in a mice hepatitis virus induced model of human neurological disease multiple sclerosis” written with Prof. Jayasri Das Sarma (p.i) got approved on 16/05/2019.

#### ***Extracurricular Activity***

- Participated in NSS (national service scheme) awareness programme 2012.

- Event organizer (name of event-biomimetics) of Inquivesta (Science fest 2018) at IISER-K.
- Former music teacher of underprivileged students in student run organization “Ek Pehel”
- Performed in India Bangladesh Structural Chemistry Conference 2015, Ishan Vikas Outreach programme 2015 and institute convocations.
- Winner of Institute karaoke competition in 2018.