

## Dr. SANGBRITA SAHA CHATTORAJ

**Contact:** 8327561162

**Qualification:** Ph.D

**Designation:** Assistant Professor

**Teaching Experience (in years):** UG: 5.9 years

**Research Experience (in years):** 7 years

**Date of Joining Present Institution:** 8<sup>th</sup> November 2019

**Institutions/Companies Previously Served:**



Name of Institution/Company	Designation	Tenure	
		From (DD-MM-YYYY)	To (DD-MM-YYYY)
Govt. General Degree College, Sigur Hooghly	Assistant Professor	11 <sup>th</sup> March 2015	1 <sup>st</sup> November 2019

**Examinations cleared:** NET-CSIR, GATE

**Specialization/Research Interest:**

Study of infection modulated immune response in chronic lung diseases

### Courses taught

	B.Sc Honours (Zoology)	B.Sc. Program (Zoology)
Semester-I	CC 1 - Non Chordates I CC 2 - Principle of Ecology	
Semester-II	CC 3 - Non Chordates II CC 4 - Animal Physiology	CC 2 - Comparative Anatomy and Developmental Biology of Vertebrates
Semester-III	CC 5 - Diversity of Chordates CC 6 - Comparative anatomy of Vertebrates	
Semester-IV	CC 8 - Cell Biology CC 9 - Parasitology & Immunology CC 10 - Biochemistry of Metabolic Processes	GE 4 - Physiology
Semester-V	CC 12 - Developmental Biology DSE 1 - Animal behaviour & Chronobiology	
Semester-VI	CC13 - Principle of Genetics CC 14 - Evolutionary Biology	

### Online Mode of Teaching

The online teaching platform used in this pandemic situation is ZOOM, CISCO-WEBEX and GOOGLE MEET. The lectures are presented with power point as per the

stipulated syllabus. The interaction with the students is carried out even over the telephone after the class hours is over. The teaching materials are supplied to them through electronic mail. Students submit their assignment through mail. The online test (internal) is been conducted through the above-mentioned web platform.

## Publications

---

### Journals:

1. Faris AN, Ganesan S, Chatteraj A, **Chatteraj SS**, Comstock, Unger BL, Hershenson MB, and Sajjan US. Rhinovirus Delays Cell Repolarization in a Model of Injured/Regenerating Human Airway Epithelium. **J. Resp. Cell & Mol. Biol.** (2016); **55(4):487-499**. doi: [10.1165/rcmb.2015-0243OC](https://doi.org/10.1165/rcmb.2015-0243OC)
2. Tsuchiya M, Kumar P, Bhattacharyya S, **Chatteraj S**, Srivastava M, Pollard HB, ,and Biswas R. Differential Regulation of Inflammation by Inflammatory Mediators in Cystic Fibrosis Lung Epithelial Cells. **J. Interferon Cytokine Res.** (2013); **33:121-9**. doi: [10.1089/jir.2012.0074](https://doi.org/10.1089/jir.2012.0074).
3. **Saha S**, Ray AK. Evaluation of Nutritive Value of Water Hyacinth (*Eichhornia crassipes*) Leaf Meal in Compound Diets for Rohu, *Labeo rohita* (Hamilton, 1822) Fingerlings after Fermentation with Two Bacterial Strains Isolated from Fish Gut. **Turkish Journal of Fisheries and Aquatic Sciences** (2011) **11: 199-207**. DOI: [10.4194/trjfas.2011.0204](https://doi.org/10.4194/trjfas.2011.0204)
4. **Chatteraj SS**, Ganesan S, Jones A M, Helm J M, Comstock A T, Bright-Thomas R , LiPuma J J, Hershenson M B, Sajjan U S. Rhinovirus infection liberates planktonic bacteria from biofilm and increases chemokine responses in cystic fibrosis airway epithelial cells. **Thorax.** (2011) **66 :333-339**. doi: [10.1136/thx.2010.151431](https://doi.org/10.1136/thx.2010.151431)
5. **Chatteraj SS**, Ganesan S, Faris A, Comstock A T, Lee WM, Sajjan US. *Pseudomonas aeruginosa* supresses interferonresponse to rhinovirus infection in cystic fibrosis but not in normal bronchial epithelial cells. **Infect Immun** (2011) **79: 4131-45**. doi:[10.1128/IAI.05120-11](https://doi.org/10.1128/IAI.05120-11)
6. Ganesan S., Faris A N, Comstock A T, **Chatteraj SS**, Chatteraj A, Curtis J L, Martinez F J, Zick S, Hershenson M B, Sajjan U S. Quercetin prevents progression of disease in elastase/LPS-exposed mice by negatively regulating MMP expression. **Respir Res.** (2010) **11: 131**. doi: [10.1186/1465-9921-11-131](https://doi.org/10.1186/1465-9921-11-131)
7. **Chatteraj SS**, Murthy R, Ganesan S, Goldberg J B, Zhao Y, Hershenson M B and Sajjan U S. *Pseudomonas aeruginosa* alginate promotes *Burkholderia cenocepacia* persistence in CFTR knockout mice. **Infect Immunity**(2010) **78: 984–993**. doi:[10.1128/IAI.01192-09](https://doi.org/10.1128/IAI.01192-09)

8. **Saha S, Roy R N, Sen S K and Ray A K.** Characterization of cellulose producing bacteria from the digestive tract of tilapia, *Oreochromis mossambica* (Peters) and grass carp, *Ctenopharyngodon idella* (Valenciennes). **Aquaculture Research (2006), 37: 380-388. doi:10.1111/j.1365-2109.2006.01442.x**

#### **Paper Presentation in seminar/conference/symposium/workshop/discussion meeting**

1. Poster Presentation on "Oxidative Stress Modulates Innate Immune Responses of CF Airway Epithelial cells to Mucoid *P. aeruginosa* and Rhinovirus Coinfection" in 24<sup>th</sup> Annual North American Cystic Fibrosis Conference held on October 21-23, 2010 in Baltimore, Maryland USA.
2. Poster Presentation on "Quercetin Inhibits Rhinovirus Replication And Subsequent Chemokine Response In Airway Epithelial Cells " in Annual Conference of American Thoracic Society held on May 14 -19, 2010 in New Orleans, LA, USA.
3. Poster Presentation on "Mucoid *P. aeruginosa* Increases Rhinovirus Replication by Suppressing Antiviral Responses in Airway Epithelial Cells" in the 23rd Annual North American Cystic Fibrosis Conference, held on October 15-17, 2009 in Minneapolis, Minnesota, USA.
4. Oral Presentation on "Nutritional Evaluation of Drumstick (*Moringa oleifera*) Leaf Meal in Formulated Diets for Rohu, *Labeo rohita* (Hamilton) Fingerlings Inoculated With An Enzyme- Producing Fish Gut Bacterium" in National Symposium held on December 14-16, 2007 organised by Inland Fisheries Society of India, Barackpore, Kolkata.
5. Oral Presentation on "Isolation and Characterization of Cellulase Producer *Bacillus circulans* TM1 From The Intestine of Tilapia, *Oreochromis mossambicus*" in International Symposium held on March 16-18, 2005 organised by Inland Fisheries Cochin, India
6. Oral Presentation on "Replacement of Fish Meal With Raw and Fermented Water Hyacinth (*Eichhornia crassipes*) Leaf Meal in The Formulated Diets for Rohu (*Labeo rohita*) fingerlings" in National Seminar held on February 24-25, 2005, organised by university of Burdwan.

#### **Participation in faculty development programmes**

1. Refresher Course on "*Recent Advancement in Biological science*" from 16/08/2019 to 29/08/2019 organized by UGC-HRDC, The University of Burdwan.
2. Orientation Programme (107<sup>th</sup>) from 01/08/2017 to 28/08/2017 organized by UGC-HRDC, The University of Burdwan.
3. National workshop on *Scanning Electron Microscopy* from 13/10/2015 to 16/10/2015

#### **Participation in committees of Durgapur Government College since 2017**

1. Career Counselling Committee, Member (2019-20)
2. Admission Committee, Member (2019-20)