

**Name** : Dr. R Jyoti

**Present Designation** : Assistant Professor

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**Specialization** : Sports & Exercise Physiology and Ergonomics.

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**Languages known** : English, Hindi, Bengali & Telugu.

**Academic Qualification** :

1. **Examinations passed/Degree Awarded:** M.Sc, B.Ed and Ph.D.
2. **National Examination Qualified:** UGC – NET (Lecturership)

## **Experience**

### **Annexure - I**

#### **Relevant Research Experience [6 years]:**

##### **1. 2013 – 2015 [March, 2013 to March, 2015]**

Worked as a Junior Research Fellow (RGNF-JRF) in a UGC sponsored project entitled “Search for new drug design against leishmaniasis” under the supervision of Dr. Bikramjit Raychaudhury, Asst. Professor, Dept. of Physiology, Ananda Chandra College, Jalpaiguri-735101.

Ref. No. UGC Award letter No. F.1/17.1/2012-13/RGNF-2012-13-SC-WES-35766/(SA-III)/Website.

## 2. 2015 – 2018 [March, 2015 to March, 2018]

Worked as a Senior Research Fellow (RGNF-SRF) in a UGC sponsored project entitled “Search for new drug design against leishmaniasis” under the supervision of Dr. Bikramjit Raychaudhury, Asst. Professor, Dept. of Physiology, Ananda Chandra College, Jalpaiguri-735101.

Ref. No. UGC Award letter No. F.1/17.1/2012-13/RGNF-2012-13-SC-WES-35766/(SA-III)/Website.

## 3. 2018 - 2019 [ September, 2018 to October 2019]

Worked as a Junior Project Assistant in a DBT Funded Research Project entitled as “Exploitation of Paired nickases to enhance targeted knock-in a modification of CRISPR Cas System” under the guidance of Dr. Syamal Roy (PI) in NIPER, Kolkata.

- ❖ **Area of Research:** Parasitic Diseases, Tropical Diseases, Cell Culture, Infection, Drug Treatment, Infectious Disease Control and Prevention, Bacterial Transformation, PCR, Cloning.

## Annexure - II

### **Publications:**

1. **R. Jyoti\* and Bikramjit Raychaudhury.** (2025). Screening of phytochemicals in crude leaf extracts of four medicinal plants from North Bengal. *European Journal of Pharmaceutical and Medical Research*. ISSN (P): 3051-2573 ISSN (O): 2394-3211. Vol 12(7), 420-424.
2. **Swarup Sutradhar and R Jyoti\*.** (2024). Determination and comparison of maximum aerobic capacity in terms of physical fitness index and maximum oxygen uptake between physically active and physically non-active male-female students of Tripura. *International Journal of Sport, Exercise and Health Research*. ISSN: 2581-4923; Vol 8(2): 65-70.
3. **R Jyoti.,** Chakraborty, A., Chakraborty, K., Haldar, R. and Raychaudhury, B. (2022). Evaluation of *In-vitro* and *In-vivo* antileishmanial potential of *Rauvolfia serpentina* leaf extract against *visceral leishmaniasis* and its effect on release of Th1 (IL 2 & IFN  $\gamma$ ) and Th2 (IL 4 & IL 10) cytokines and generation of Nitric oxide and ROS. *International Journal of Research and Analytical Reviews*. E-ISSN 2348-1269, P- ISSN 2349-5138; Vol 9(1): 865-880.
4. **R Jyoti.,** Chakraborty, K., Haldar, R and Raychaudhury, B. (2019). *In vitro* antileishmanial activity of *Diplazium esculentum*. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*. ISSN: 2454-6348; Vol 5(1): 675-687.
5. Chakraborty, K., **R Jyoti.** and Raychaudhury, B. (2018). Achievements of higher education in the post independence era: issues, challenges & emerging trends in regional perspective. *EXCEL International Journal of Multidisciplinary Management Studies*. ISSN 2249- 8834; Vol 8(3): 54-58.

6. Raychaudhury, B., **R. Jyoti.**, Chakraborty, K., Chakraborty, A., Palroy, M and Haldar, R. (2017). Identification and Purification of Fe-containing Superoxide dismutase from *Leishmania donovani*. *European Journal of Pharmaceutical and Medical Research*. ISSN: 2394-3211; Vol 4(11): 336-340.
7. Ghosh, G. S., **R. Jyoti.**, Chakraborty, A. and Raychaudhury, B. (2013). Traditional Herbal Therapies: Tribal Indigenous Knowledge for Sustainable Development. *Zenith International Journal of Multidisciplinary Research*. ISSN 2231-5780: Vol 3(7): 70-76.

### Symposia Abstracts/Presentations :

- **R. Jyoti.**, Chakraborty.K, Chakraborty.A, Palroy. Moushree, Haldar. R. and Raychaudhury. B. *Evaluation of antileishmanial activity and cytotoxicity of the ethanolic extracts of Diplazium esculentum leaves: An in vitro exploration for new leads against protozoans*. Applied Microbiology: Microbial world 2017 held at North Bengal University, 4th September, 2017.
- **R. Jyoti.**, Chakraborty. K, Chakraborty. A, Haldar.R and Raychaudhury. B. *Host peroxisome properties are not restored to normal after treatment with sodium antimony gluconate*. National symposium on Oxidative stress in health & disease held at Kalyani University, 30th-31st March, 2017.
- **R. Jyoti.**, Chakraborty, K., Chakraborty, A., Bose, A. and Raychaudhury, B. *Prospecting for novel plant-derived molecules of Rauvolfia Serpentina as inhibitors of superoxide dismutase, a potent drug target for leishmaniasis and its complications*. National Conference - XXVIII th Annual Conference of the Physiological Society of India (PHYSIOCON-2016) held at Midnapore College (Autonomus), 18-20th November, 2016.
- Chakraborty, K., **R. Jyoti.**, Chakraborty, A. and Raychaudhury, B. *Prospecting for novel plant-derived molecules of Rauvolfia Serpentina as inhibitors of superoxide dismutase, a potent drug target for leishmaniasis and its complications*. 1st Regional Science & Technology Congress, Jalpaiguri Division, held at Ananda Chandra College, Jalpaiguri, W.B., 7-8th November, 2016.
- **R. Jyoti.**, Chakraborty. A, Chakraborty. K and Raychaudhury. B. *Natural product as a source for treating neglected parasitic disease – Leishmaniasis*. Consortium for an integrated research on molecular medicine: Search for novel biopharmaceuticals from natural resources of West Bengal held at West Bengal State University, 25-26th February, 2016.
- Chakraborty. K, **R. Jyoti.**, Chakraborty. A and Raychaudhury. B. *Biodiversity, Traditional Medicine and Public Health: A view of drug development for Leishmaniasis*. Pre- conference International Seminar & National Conference on “Molecular Physiological And Nutritional Responses During Pathophysiological Alteration of Cell Function” held at west Bengal state university, 4th& 7th January, 2016.

- Chakraborty. A, **R. Jyoti.**, Chakraborty. K, Bose. A, Saha. L and Raychaudhury. B. *In vitro antileishmanial activity of Rauvolfia serpentine- a medicinal tree.* Advances in Plant and Microbial Research held at North Bengal University, 12-13th December, 2014.

## Oral Presentation :

- **R Jyoti.** *Visceral leishmaniasis: A Global health issue-Epidemiology, Current challenges and UN Vision for elimination of this disease.* HP-Scientific talk- 2025. International Conference on sustainable health: Translational Research from molecules to behavioural aspects organized by the department of Human Physiology, Vidyasagar University from 28<sup>th</sup> Feb-1<sup>st</sup> March, 2025. West Bengal.
- **R. Jyoti.**, Chakraborty, K., Chakraborty, A., Haldar, R. and Raychaudhury, B. *Host peroxisomal properties are not restored to normal after Treatment with sodium antimony gluconate.* National symposium on Oxidative Stress in Health and Disease held at Department of Biochemistry and Biophysics, University of Kalyani, 30-31<sup>st</sup> March, 2017.
- **R. Jyoti.**, Chakraborty, K., Chakraborty, A., Moushree Pal R., Haldar, R. and Raychaudhury, B *Evaluation of antileishmanial activity and cytotoxicity of the ethanolic extracts of Diplazium esculentum leaves: An invitro exploration for new leads against protozoans.* UGC sponsored National seminar on Applied Microbiology: Microbial World 2017 organized by Department of Microbiology held at University of North Bengal on 4<sup>th</sup> September, 2017.
- Chakraborty. K., **R. Jyoti.**, Chakraborty. A and Raychaudhury. B. *Prospecting for novel plant-derived molecules of Rauvolfia Serpentina as inhibitors of superoxide dismutase, a potent drug target for leishmaniasis and its complications.* 1<sup>st</sup> Regional Science & Technology Congress, Jalpaiguri Division, held at Ananda Chandra College, Jalpaiguri, West Bengal, and 7-8th November, 2016.

## Poster Presentation:

- **R. Jyoti.**, Chakraborty, K., Chakraborty, A., Bose, A. and Raychaudhury, B. *Prospecting for novel plant-derived molecules of Rauvolfia Serpentina as inhibitors of superoxide dismutase, a potent drug target for leishmaniasis and its complications.* National Conference - XXVIII th Annual Conference of the Physiological Society of India (PHYSIOCON-2016) held at Midnapore College (Autonomus), 18-20th November, 2016.
- **R. Jyoti.**, Chakraborty. A, Chakraborty. K and Raychaudhury. B. *Natural product as a source for treating neglected parasitic disease – Leishmaniasis.* Consortium for an integrated research on molecular medicine: Search for novel biopharmaceuticals from natural resources of West Bengal held at West Bengal State University, 25-26th February, 2016.

**Award:**

- Rajiv Gandhi National Fellowship (UGC- RGNF)
- Best Poster Presentation in WBSU

**Workshop attended:**

- Workshop cum National seminar on “Trends in Modern Biology: Techniques and Applications”, Department of Zoology, Viswa-Bharati, Santiniketan, 23<sup>rd</sup>-24<sup>th</sup> March, 2019.
- National seminar cum workshop on Bioinformatics, University of North Bengal held from 9<sup>th</sup>-11<sup>th</sup> March, 2018.
- Workshop on Basics of Flowcytometry organized by Department of Zoology, West Bengal State University held from 3<sup>rd</sup>- 10<sup>th</sup> February, 2017.
- One day Outreach Programme jointly organized by Institute of Nano Science & Technology, Government of India and Ananda Chandra College, Jalpaiguri, West Bengal on 10th September, 2016.
- One day Outreach Programme jointly organized by Department of Atomic Energy, Government of India and Ananda Chandra College, Jalpaiguri, West Bengal on 27th August, 2015.

**Invited Lectures:**

Sl. No	Title of paper presented	Name of Conference attended	National/international	Duration/Date	Type of presentation
1.	Targeting Leishmaniasis: The Potential of Natural Products in Therapeutic Intervention	National Seminar on “Emerging Health Issues and Challenges: Perspective from Northeast India”. The 35 <sup>th</sup> Annual Conference of the Physiological Society of India	National	November 15-17, 2024	Invited Speaker