

Monthly Report for December 2021

Department of Biochemistry
University of Delhi South Campus

Achievements

Honours and distinctions:

Other Educational Activities:

- a. **Prof. Debi P. Sarkar** - Invited as an Expert Member by Visva-Bharati, Santiniketan, West Bengal for Scrutiny of applications for appointment of Professors and Associate Professors in the Dept. of Biotechnology from 10th to 11th and 23rd December, 2021.
- b. **Prof. Debi P. Sarkar** - Invited as an External Member to attend the Research Council Meeting of CSIR-IICB, Kolkata from 13th to 14th December 2021.
- c. **Prof. Debi P. Sarkar** - Invited as Chairperson on behalf of GB Chairperson of TTD and VC, DU nominee to interview for selection of Administrative Officer of Sri Venkateshwara College on 15th December, 2021.
- d. **Prof. Debi P. Sarkar** - Invited as University Representative to attend NAAC Accreditation 3-member committee visiting Shivaji College as a University on 20th December 2021.
- e. **Prof. Debi P. Sarkar** - Invited to interact with the expert team from DU visited Sri Venkateswara College for opening BA Hons course in Tamil and Telegu on 27th December, 2021.
- f. **Prof. Suman Kundu** - Invited Talk "Novel Plant Hemoglobin Proteome from *Arabidopsis thaliana*: What do their Structure and Fold Unfold?", Delhi University Botanical Society, Department of Botany, University of Delhi, Plant Proteomics Workshop on Next Generation Proteome Mining and Nano-Bio Interactions for Better Plant Growth, December, 29, 2021.

2. *Research Projects/ Publications including books/ Patents/ Technology Transfer/ Industrial Collaborations:*

Research

Publication

1. Mohd. Asim Khan, Sheetal Uppal and **Suman Kundu** (2021). "Novel Hemoglobin from *Synechocystis* sp. PCC 6803: Shedding Light on the Structure-Function Relationship and Its Biotechnological Applications" in *Cyanobacteria- Recent Advances in Taxonomy, Ecology and Applications*. IntechOpen (London, England). [Doi: 10.5772/intechopen.97699](https://doi.org/10.5772/intechopen.97699)
2. Gaurav Kumar*, Manisha Saini*, and **Suman Kundu** (2021) Therapeutic enzymes as non-conventional targets in cardiovascular impairments: A Comprehensive Review. *Canadian Journal of Physiology and Pharmacology*. In Press.

3. Hina Bharti, Singal, A., Saini, M., Cheema, P.S., Raza, M., Kundu, S. and **Nag, A.** (2021). Repurposing the Pathogen Box compounds for identification of potent anti-malarials against blood stages of *Plasmodium falciparum* with PfUCL3 inhibitory activity. Scientific Reports, (in Press).

MoU

Collaborative Research Agreement on "Pathophysiological investigations of Sickle Cell Disease and Interventions to improve associated Hemorheological Abnormalities" with Sri Sri College of Ayurvedic Science and Research Hospital, Sri Sri University, Cuttack, Odisha for 5 years from December 9, 2021.

Student Award

1. Kajal Yadav, Mohd. Asim Khan and **Suman Kundu** (2021). "Structural and Functional Characterization of Recombinant Human Hemoglobin as an Artificial Oxygen Carrier", 3rd National Biomedical Research Competition NBRCOM 2021, 6th-10th December, 2021, organized by Society of Young Biomedical Scientists SYBS India, AIIMS Rishikesh. (Fourth Prize in Poster presentation)
2. Kajal Yadav, Mohd. Asim Khan and **Suman Kundu** (2021). "Production of genetically engineered heme stabilized human hemoglobin and estimation of its shelf life", 3rd National Biomedical Research Competition NBRCOM 2021, 6th-10th December, 2021, organized by Society of Young Biomedical Scientists SYBS India, AIIMS Rishikesh. (Sixth Prize in oral presentation)
3. Hina Bharti and **Alo Nag** (2021): One among very few selected for student oral presentation in the "International Workshop on - Discovery of Vaccines and Drugs for Infectious Diseases" held at ICGEB, New Delhi from 06 to 09 December 2021. Title of the talk: "Structure-based screening of Pathogen Box compounds for identification of potent anti-malarials against blood stages of *Plasmodium falciparum* with PfUCL3 inhibitory activity."

3. Seminars/ Conferences/ Workshops Organized:

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4. International collaborations including students exchange

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5. Extension and outreach activities and any other significant achievements/activity

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