

Department of Biochemistry University of Delhi South Campus

Quarterly Report (February 2023 to April 2023)

Major Achievements (For Academic Departments):

1. Honors and distinctions

Prof. Alo Nag - Invited as an expert in the Performance review meeting of INSPIRE Faculty Fellows. organized by DST from 25-26th April 2023 at Saveetha Institute of Medical and Technical Sciences, Chennai.

Prof. Alo Nag - Invited as a Chief Guest in the **International symposium on "Advances in Translational Drug Development"** on 6th April, 2023.

Delivered a Talk: "Mechanism based Drug Discovery"

Prof. Alo Nag - Invited for a talk and Chaired a session in the international conference **"Celebrating Proteins on the Birth Centenary of Dr. G.N. Ramachandran"** at MS Baroda University, Vadodara on 4th March, 2023.

The title of the invited lecture: Disrupting oncogenic interaction with peptides - a strategy for HPV induced cancer therapy

Prof. Alo Nag - Invited to deliver a talk in the Hands-on Workshop on **"Basic Molecular Biology Techniques Relevant to Cancer Research"** by Department of Health Research at NICPR, Noida – March 02, 2023.

Talk Title: "Elucidation of Oncogenic mechanisms and development of anticancer strategies"

Prof. Suman Kundu : Invited Talk. Title: "A peptide that disrupts hADA3-E6 interaction: implications in HPV induced cancer therapy", at the 9th Indian Peptide Symposium and Indian Peptide Show, jointly organized by the Indian Peptide Society and BITS Pilani, K.K. Birla Goa Campus, at Goa, India, 23rd – 25th February, 2023 (talk on 23rd February, 2023).

Prof. Suman Kundu : Invited Lead Talk. Title: "Rooted in plants enroute a therapy for sickle cell disease", at the International Conference on Exploring New Horizons in Biotechnology and Mini-symposium on Recent Advances in Biotechnological Innovations, jointly organized by School of Biotechnology, Institute of Science and Institute of Eminence, Banaras Hindu University, Varanasi, Uttar Pradesh, India, 10th – 12th February, 2023 (talk on 11th February, 2023).

2. Books/ Patents/ Technology Transfer/ Industrial Collaboration

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3. Seminars/ Conferences/ Workshops Organized

Seminar

Seminar on "Molecular Basis of Human Papillomavirus (HPV) Mediated Cancers" by Dr. Mausumi Bharadwaj, Head, Molecular Biology Group, ICMR - National Institute of Cancer Prevention & Research at Noida, 17th March 2023.

Workshop

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Targets (For Academic Departments: Academic activities and Research)

Publications

Bandyopadhyaya, S., Yadav, P., Sharma, A., Dey, S.K., **Nag, A.**, Maheshwari, R., Ford, B.M. and Mandal, C.C. (2023). Oncogenic role of an uncharacterized cold induced zinc finger protein 726 in breast cancer. *Journal of Cellular Biochemistry*, (in Press).

Shruti Mathur, Sanjeev Kumar Yadav, Kajal Yadav, Shruti Bhat and **Suman Kundu** (2023) "A novel single sensor hemoglobin domain from the thermophilic cyanobacteria *Thermosynechococcus elongatus* BP-1 exhibits higher pH but lower thermal stability compared to globins from mesophilic organisms". *International Journal of Biological Macromolecules*. 240, 124471.

Gaurav Kumar, Sanjay Kumar Dey, **Suman Kundu** (2023). "Nitric Oxide and Cardiovascular Diseases: Cardioprotection, Complications and Therapeutics". In: Ray, A., Gulati, K. (eds). Nitric Oxide: From Research to Therapeutics. *Advances in Biochemistry in Health and Disease*, vol 22, pp 41-66, Springer, Cham. https://doi.org/10.1007/978-3-031-24778-1_3.

Court/Executive Council meetings

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Planning of Convocation/ Honoris Causa Degrees etc.

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Any Pending Issues

Faculty recruitment
Non-teaching recruitment
Full time Veterinarian for Animal House

Any other important activity (For Academic Departments): 1. International collaborations including students exchange, 2. Extension and outreach activities and any other significant achievements/activity