

**Monthly Report for August 2020**  
Department of Biochemistry  
University of Delhi South Campus

**Achievements**

**1. Honours and distinctions:**

- a. **Prof. Debi P. Sarkar** : Delivered invited special webinar talk in a two days national webinar on: Integrated Strategies to Combat the Pandemic COVID-19 entitled “Rational of design of a vaccine against COVID19: Current Status and challenge”, on August 20<sup>th</sup> and 21<sup>st</sup>, 2020 at Central University of Rajasthan, Kisangarh.
- b. **Prof. Debi P. Sarkar** : Invitation as an Expert Member/Advisor on BoS and Advisory Board of Department of Interdisciplinary Sciences: By Head, Department of Chemistry and Department of Interdisciplinary Sciences, SP College, DBT Star College Scheme-Program Coordinator, Sir Parashurambhau College, Pune 411030

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

**Publications**

Mayanka Awasthi, Sahil Gulati, **Debi P. Sarkar**, Swasti Tiwari, Suneel Kateriya, Peeyush Ranjan and Santosh K. Verma. (2020). The Sialoside-Binding Pocket of SARS-CoV-2 Spike Glycoprotein Structurally Resembles MERS-CoV. **Viruses**, In Press. IF: 3.8

Gaurav Kumar, Sanjay Kumar Dey and **Suman Kundu**. (2020) “Functional implications of vascular endothelium in regulation of endothelial nitric oxide synthesis to control blood pressure and cardiac functions”. **Life Sciences (Elsevier)**. In Press.

Chattopadhyay, I., Nandi, D. and **Nag, A.** (2020). The pint-sized powerhouse: Illuminating the mighty role of the gut microbiome in improving the outcome of anti-cancer therapy. **Seminars in Cancer Biology**. (In Press) <https://doi.org/10.1016/j.semcancer.2020.07.012> **A figure of the article has been selected for front cover page of the journal issue.**

**Project sanctioned**

**Prof. Debi P. Sarkar** : Project entitled 'Utilization of Sendai virus-derived proteoliposomes to deliver the UGT1A1 gene by editing with CRISPR/Cas9 in rat hepatocytes", Project sanctioned for 95.00 Lakhs for three years in collaboration with NII, New Delhi.

**3. Seminars/ Conferences/ Workshops Organized:**

*None*

**4. International collaborations including students exchange:**

*None*

**5. Extension and research:**

*None*