

## **Short C.V.**

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**Institution:** Institute of Science, **Banaras Hindu University**

### **Academic Qualification:**

Ph.D (2018) Department of Biophysics, All India Institute of Medical Sciences – New Delhi

Ph.D. thesis title: “**Structural, functional and ligand binding studies of Ribosome Inactivating Proteins from *Momordica balsamina***”.

M.Sc. (2010) Department of Biotechnology, University of Hyderabad – Hyderabad

M. Sc. thesis title: “**Interaction of RNAase A with nucleotide bases in various conformational states & effect of binding on protein stability**”

### **Professional Recognition/ Award/ Fellowships**

| S. No. | Name of Award                            | Awarding Agency | Year / Tenure |
|--------|------------------------------------------|-----------------|---------------|
| 1.     | <b>Qualified Joint CSIR UGC-NET- JRF</b> | CSIR            | 2009          |
| 2.     | <b>Qualified Joint CSIR UGC-NET- JRF</b> | CSIR            | 2010          |

|    |                                              |                   |      |
|----|----------------------------------------------|-------------------|------|
| 3. | <b>Qualified GATE-2010 (98.3 percentile)</b> | IIT, Guwahati     | 2010 |
| 4. | <b>AIIMS Institute Fellowship</b>            | AIIMS – New Delhi | 2015 |
| 5. | <b>CSIR – Research Associate</b>             | CSIR              | 2019 |
| 6. | <b>National Postdoctoral Fellowship</b>      | DST - SERB        | 2019 |

Selected for **National Postdoctoral Fellowship (NPDF), Department of Science and Technology (DST), Govt. of India in Feb. 2019.**

Selected as **CSIR - RA (Council of Scientific and Industrial Research - Research Associate) in Feb. 2019.**

Other research experience includes **UGC-JRF at AIIMS – New Delhi** from 01/01/2010 to 27/07/2011.

#### **Publications:**

| <b>S.No.</b> | <b>Author(s)</b>                                                                      | <b>Title</b>                                                                                                                                      | <b>Name of Journal</b>                                          | <b>Volume</b> | <b>Page</b>                            | <b>Year</b> |
|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------|----------------------------------------|-------------|
| 1.           | <b>Pandey SN</b> , Iqbal N., Singh PK, Rastogi N, Kaur P, Sharma S and Singh TP       | “Binding and structural studies of the complexes of type-1 ribosome inactivating protein from <i>Momordica balsamina</i> with uracil and uridine” | <b><i>PROTEINS: Structure, Function, and Bioinformatics</i></b> | 87(2)         | 99-109                                 | <b>2019</b> |
| 2.           | Kumar A, Faiq MA, <b>Pandey SN</b> , Pareek V, Mochan S, Kumar P, Dantham S, Raza K.  | Addictive Influences and Stress Propensity in Heavy Internet Users: A Proposition for Information Overload Mediated Neuropsychiatric Dysfunction. | <b><i>Current Psychiatry Reviews</i></b>                        | 13 (4)        | DOI: 10.2174/1573400513666170728155836 | <b>2017</b> |
| 3.           | Rastogi N, Singh A, Singh PK, Tyagi TK, <b>Pandey SN</b> , Kaur P, Sharma S, Singh TP | “Structure of iron saturated C-lobe of bovine lactoferrin at pH 6.8 indicates a weakening of iron coordination.”                                  | <b><i>PROTEINS: Structure, Function, and Bioinformatics</i></b> | 84            | 591-599                                | <b>2016</b> |

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| 4. | Yamini S <sup>1</sup> , <b>Pandey SN<sup>1</sup></b> , Kaur P, Sharma S, Singh TP.<br><br>( <sup>1</sup> First authorship shared) | Binding and structural studies of the complexes of type 1 ribosome inactivating protein from <i>Momordica balsamina</i> with cytosine, cytidine, and cytidine diphosphate.                                          | <b>Biochemistry and Biophysics Reports</b>                                          | 4                                                 | 134–140                                                                                                | <b>2015</b>                        |
| 5. | Rastogi N, Singh A, <b>Pandey SN</b> , Sinha M, Bhushan A, Kaur P, Sharma S, Singh TP                                             | “Structure of the iron-free true C-terminal half of bovine lactoferrin produced by tryptic digestion and its functional significance in the gut.”                                                                   | <b>FEBS J</b>                                                                       | 281(12)                                           | 2871-2882                                                                                              | <b>2014</b>                        |
| 6. | Rastogi N, Nagpal N, Alam H, <b>Pandey SN</b> , Gautam L, Sinha M, Shin K, Manzoor N, Viridi JS, Kaur P, Sharma S, Singh TP       | “Preparation and antimicrobial action of three tryptic digested functional molecules of bovine lactoferrin”.                                                                                                        | <b>PLoS One</b>                                                                     | 9                                                 | e90011                                                                                                 | <b>2014</b>                        |
| 7. | Kumar A, <b>Pandey SN</b> , Pareek V, Faiq MA, Khan NI, Sharma V                                                                  | Psychobiological determinants of ‘Blue Whale Suicide Challenge’ victimization: A proposition for the agency mediated mental health risk in new media age.                                                           | <b>PsyArXiv</b>                                                                     | <a href="https://osf.io/qy4f7/">osf.io/qy4f7/</a> | DOI: 10.31234/osf.io/8xh92                                                                             | <b>2017</b>                        |
| 8. | Kumar A, <b>Pandey SN*</b> , Faiq MA, Pareek V.<br><br>(*corresponding author)                                                    | Morphological integration in human skull and its possible role in etiogenesis of neuropsychiatric disorders: Deciphering the link between evolution, development and disease                                        | <b>PeerJ</b>                                                                        | Under review                                      | Under review                                                                                           | <b>2019</b>                        |
| 9. | Ashutosh Kumar, Muneeb A. Faiq, Vikas Pareek, Khursheed Raza, Ravi K. Narayan, Pranav Prasoon, Pavan Kumar, Maheswari Kulandhasa  | Relevance of enriched expression of SARS-CoV-2 binding receptor ACE2 in gastrointestinal tissue with pathogenesis of digestive symptoms, diabetes-associated mortality, and disease recurrence in COVID-19 patients | Communicated to PLOS Pathogens<br><br>Preprint Available: bioRxiv 2020.04.14.040204 |                                                   | doi: <a href="https://doi.org/10.1101/2020.04.14.040204">https://doi.org/10.1101/2020.04.14.040204</a> | Communicated in<br><br><b>2020</b> |

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|     | my, Chiman Kumari, Kamla Kant, Himanshu N. Singh, Rizwan a Qadri, <b>Sada N. Pandey</b> , Santo sh Kumar                                            |                                                                                                                                                     |                                                   |              |                                      |             |
| 10. | Faiq, M.; Kumar, A.; Singh, H.; Pareek, V.; Qadri, R.; Raza, K.; Kumari, C.; Narayan, R.; Kumar, P.; Kulandhasamy, M.; <b>Pandey, S.</b>            | COVID-19: A Review on Molecular Basis, Pathogenic Mechanisms, Therapeutic Aspects and Future Projections                                            | Preprints<br>doi:10.20944/preprints202004.0091.v1 |              | doi:10.20944/preprints202004.0091.v1 | <b>2020</b> |
| 11. | Prashant .K. Singh, <b>Sada Nand Pandey</b> , Chitra Rani, Nayeem Ahmad, V. Viswanathan, Pradeep Sharma, Punit Kaur, Sujata Sharma and Tej P. Singh | Potassium induced inactivation of mammalian heme peroxidases and its functional implications: Structural and binding studies of yak lactoperoxidase | <b>Under Review</b>                               | Under Review | Under Review                         | <b>2020</b> |