

## BIOGRAPHICAL SKETCH

1. Name : Rituraj Purohit
2. Designation: Principal Scientist
3. Department/Institute/University : Department of Biotechnology, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh -176061.  
Email; rituraj@ihbt.res.in

### 4. Education

| S. No. | Institution Place  | Degree Awarded | Field of Study          |
|--------|--|----------------|-------------------------|
| 1.     | BR Nahata College of Pharmacy - [BRNCP], Mandasaur           | B.Pharmacy     | Pharmaceutical Sciences |
| 2.     | Indian Institute Of Information Technology, Allahabad India  | M.Tech         | Bioinformatics          |
| 3.     | Vellore Institute of Technology, University, Vellore, India. | Ph.D           | Bioinformatics          |

### 5. Position

| S. No. | Institution Place  | Position                | From (Date) | To (date) |
|--------|--|-------------------------|-------------|-----------|
| 1.     | Department of Biotechnology, CSIR-Institute of Himalayan Bioresource Technology, Palampur (H.P.) India       | Principal Scientist     | 2018        | Till Date |
| 2.     | Department of Biotechnology, CSIR-Institute of Himalayan Bioresource Technology, Palampur (H.P.) India       | Senior Scientist        | 2014        | 2018      |
| 3.     | School of Bio Sciences and Technology, Vellore Institute of Technology, University, Vellore, India.          | Associate Professor     | 2013        | 2014      |
| 4.     | Italian Institute for Genomic Medicine, Torino, Italy (Formerly known as; Human Genetics Foundation (HuGeF)) | Postdoctoral Researcher | 2012        | 2013      |
| 5.     | School of Bio Sciences and Technology, Vellore Institute of Technology, University, Vellore, India.          | Assistant Professor     | 2007        | 2012      |

### 6. Key Publications:

- Mechanistic behavior and subtle key events during DNA clamp opening and closing in T4 bacteriophage  
Vijay Kumar Bhardwaj, Aaron Oakley and **Rituraj Purohit\***  
*International Journal of Biological Macromolecules* (2022) 208: 11-19 **IF = 8.02**
- Identification of 11 $\beta$ -HSD1 inhibitors through enhanced sampling methods.  
Rahul Singh, Vijay Kumar Bhardwaj, Pralay Das, and **Rituraj Purohit\***  
*Chemical Communications* (2022) DOI: 10.1039/D1CC06894F **IF=6.06**
- Taming the ringmaster of the genome (PCNA): Phytomolecules for anticancer therapy against a potential non-oncogenic target.  
Vijay Kumar Bhardwaj and **Rituraj Purohit\***  
*Journal of Molecular Liquids* (2021) 337:116437. **IF = 6.63**
- Himalayan bioactive molecules as potential entry inhibitors for the human immunodeficiency virus.  
Vijay Kumar Bhardwaj, **Rituraj Purohit\*** and Sanjay Kumar  
*Food Chemistry* (2021) 347:128932 **IF = 9.23**
- Explicit-solvent molecular dynamics simulations revealed conformational regain and aggregation inhibition of I113T SOD1 by Himalayan bioactive molecules.  
Sachin Kumar, Vijay Kumar Bhardwaj, Rahul Singh and **Rituraj Purohit\***  
*Journal of Molecular Liquids* (2021) 339: 116798 **IF = 6.63**

- 6) Target identification, screening and in vivo evaluation of pyrrolone-fused benzosuberene compounds against human epilepsy using Zebrafish model of pentylenetetrazol-induced seizures.  
Garima Tanwar, Arindam Ghosh Mazumder, Vijay Bhardwaj, Savita Kumari, Richa Bharti, Yamini, Damanpreet Singh, Pralay Das and **Rituraj Purohit\***  
*Scientific Reports* (2019) 9:7904 **IF = 4.99**
- 7) Structural based study to identify new potential inhibitors for Dual Specificity Tyrosine- Phosphorylation- Regulated Kinase..  
Vijay Kumar Bhardwaj, Rahul Singh, Jatin Sharma, Pralay Das and **Rituraj Purohit\***  
*Computer Methods and Programs in Biomedicine*. (2020) 194:105494 **IF = 7.02**
- 8) Benchmarking the ability of novel compounds to inhibit SARS-CoV-2 main protease using Steered molecular dynamics simulations.  
Rahul Singh, Vijay Kumar Bhardwaj, Pralay Das, Dhananjay Bhattacharje, Grigory V. Zyryanov and **Rituraj Purohit\***  
*Computers in Biology and Medicine* (2022) 146: 105572 **IF = 6.69**
- 9) A new insight into protein-protein interactions and the effect of conformational alterations in PCNA  
Vijay Kumar Bhardwaj and **Rituraj Purohit\***  
*International Journal of Biological Macromolecules* (2020) 148:999-1009 **IF = 8.02**
- 10) Use of long term Molecular Dynamics Simulation in predicting cancer associated SNPs.  
Ambuj Kumar and **Rituraj Purohit\***  
*PLOS Computational Biology* (2014) 10(4): e1003318 **IF = 4.77**

**Total number of refereed journals – 110 (88 as corresponding author)**