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India

Vivek Dhar Dwivedi

SYNOPSIS Total 5+ years of work experience in bioinformatics research & teaching.

PROFESSIONAL ACHIEVEMENTS

- Awarded for highest publication in the Department of Biotechnology & Bioinformatics, Uttarakhand College of Science & Technology, Dehradun on 10 May, 2014 by the Vice Chancellor of Sri Dev Suman Uttarakhand University.
- Headed an intramural project at Pathfinder Research & Training Foundation.
- Member of World Society for Virology.
- Brand Ambassador of Bentham Science Publishers.
- Editor at Open Journal of Proteomics and Genomics, Peertechz Publishing Group.
- Editor at Journal of Bioinformatics, Proteomics and Imaging Analysis, Omega Publishing Group.

PROFILE AT A GLANCE

- 5+ Year research experience after finishing master's degree.
- Authored 37 peer reviewed publications, 1 book chapter, and 8 workshop article.
- Experienced in working in collaboration with different academic and non-academic institutes.
- Proficient in handling research projects and execute it as well as managing the logistic of project.
- An ambitious and hardworking individual with excellent relationship management skills and the capability to manage time effectively.
- Strong analytical, self-motivation and problem-solving skills.

SKILLS

- Viral Informatics, Drug Design, Sequence Analysis, Biological Software & Database Development, Computer Programing (C, JAVA, & Perl),
- Linux (Shell Scripting), , Molecular Dynamics (Desmond)

WORK HISTORY

- Currently working as Scientist (Since Nov. 2018) in Center for Bioinformatics, Computational and Systems Biology, Pathfinder Research and Training Foundation, Greater Noida, India
- One year working experience as Bioinformatician (from Oct. 2017-Oct 2018) in ICMR-NJIL&OMD, Agra.

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- 11 month teaching and research experience (Jan. 2014 To Nov. 2014) as an Assistant Professor in the Department of Biotechnology & Bioinformatics, Uttaranchal College of Science & Technology, Dehradun, India.
 - One year working experience (Dec. 2012 To Dec. 2013) in the Molecular Pathology laboratory of Dr. Amit Pandey (Head & Scientist-G), Forest Pathology Division Forest Research Institute, Dehradun, India.

EDUCATION

- Ph.D. in Biotechnology from M.G.C.G.V., Chitrakoot, Satna, M.P. in 2018.
- M.Sc. in Bioinformatics (76.6%) from H.N.B. Garhwal University, Shringar, U.K. in 2012.
- Additional Qualification: DOEACC 'O' & 'A' Level in Bioinformatics.

PUBLICATIONS (Total: 37)

List of Latest Featured Publications

- **Vivek Dhar Dwivedi***, Aditya Arya, Pradeep Yadav, Rajesh Kumar, Vinod Kumar, Gajendra P.S. Raghava (2020). DenvInD: Dengue Virus Inhibitors Database for Clinical and Molecular Research. Briefings in Bioinformatics (**Oxford University Press**). Accepted. DOI: 10.1093/bib/bbaa098. **IF: 9.101**
- Shiv Bharadwaj, Kyung EunLee, **Vivek Dhar Dwivedi***, Sang Gu Kang (2020). Computational insights into tetracyclines as inhibitors against SARS-CoV-2 Mpro via combinatorial molecular simulation calculations. Life Sciences. DOI: 10.1016/j.lfs.2020.118080. **IF: 3.647**
- Arya, Aditya, and **Vivek Dhar Dwivedi*** (2020). Synergistic effect of Vitamin D and Remdesivir can fight COVID-19. *Journal of Biomolecular Structure and Dynamics*. DOI: 10.1080/07391102.2020.1773929. **IF: 3.310**
- Shiv Bharadwaj, Kyung EunLee, **Vivek Dhar Dwivedi**, Umesh Yadava, Matthias Nees, Sang Gu Kang (2020). Density functional theory and molecular dynamics simulation support Ganoderma lucidum triterpenoids as broad range antagonist of matrix metalloproteinases. *Journal of Molecular Liquids*. DOI: 10.1016/j.molliq.2020.113322. **IF: 4.561**
- Shiv Bharadwaj, Akhilesh Kumar Rao, **Vivek Dhar Dwivedi**, Sarad Kumar Mishra, and Umesh Yadava (2020). "Structure-based screening and validation of bioactive compounds as Zika virus Methyltransferase (MTase) inhibitors through first-principle density functional theory, classical molecular simulation and QM/MM affinity estimation." *Journal of Biomolecular Structure and Dynamics* (**Taylor and Francis**) DOI: 10.1080/07391102.2020.1747545. **IF: 3.310**
- **Vivek Dhar Dwivedi**, Aditya Arya, Tanuj Sharma, Shweta Sharma, Shripad A. Patil & Vivek Kumar Gupta (2020). Computational investigation of phytomolecules as resuscitation-promoting factor B (RpfB) inhibitors for clinical suppression of

Mycobacterium tuberculosis dormancy reactivation. *Infection, Genetics and Evolution*. DOI: 10.1016/j.meegid.2020.104356. **IF: 2.611**

- **Vivek Dhar Dwivedi**, Shiv Bharadwaj, Sumbul Afroz, Nooruddin Khan, Mairaj Ahmed Ansari, Umesh Yadava, Ramesh Chandra Tripathi, Indra Prasad Tripathi, Sarad Kumar Mishra, and Sang Gu Kang (2020). "Anti-Dengue infectivity evaluation of bioflavonoid from *Azadirachta indica* by dengue virus serine protease inhibition." *Journal of Biomolecular Structure and Dynamics* (Taylor and Francis), DOI: 10.1080/07391102.2020.1734485. **IF: 3.310**
- Shiv Bharadwaj, Kyung Eun Lee, **Vivek Dhar Dwivedi**, Umesh Yadava, Aleksha Panwar, Stuart J. Lucas, Amit Pandey, and Sang Gu Kang (2019). Discovery of *Ganoderma lucidum* triterpenoids as potential inhibitors against Dengue virus NS2B-NS3 protease. *Scientific reports* (Nature) 9(1):1-12. **IF: 4.525**
- Shiv Bharadwaj, Kyung Eun Lee, **Vivek Dhar Dwivedi**, Umesh Yadava (2019). Computational aided mechanistic understanding of *Camellia sinensis* bioactive compounds against co-chaperone p23 as potential anticancer agent. *Journal of cellular biochemistry* (Wiley). 120(11), 19064-19075. **IF: 3.448**
- **Vivek Dhar Dwivedi**, Indra Prasad Tripathi, Shiv Bharadwaj, Aman Chandra Kaushik and Sarad Kumar Mishra (2018). Biological Data Analysis Program (BDAP): A Multitasking Biological Sequence Analysis Program. *Neural computing and Application* (Springer nature). 30 (5), 1493-1501. **IF: 4.664**
- **Vivek Dhar Dwivedi**, Indra Prasad Tripathi, Ramesh Chandra Tripathi, Shiv Bharadwaj and Sarad Kumar Mishra (2017). Genomics, Proteomics & Evolution of Dengue virus. Briefings in Functional Genomics (Oxford University Press). DOI: 10.1093/bfgp/elw040. **IF: 3.133**

GENBANK SUBMISSIONS

- Whole Genome submissions: 2
- Single Gene submissions: 33

SEMINARS

National:

- Presented a poster entitled "Discovery of new potential anti-dengue compounds from *Azadirachta indica*" in The National Academy of Sciences, India at M.G.C.G.V, Chitrakoot on 08-10 December 2018)
 - Presented a paper entitled "ORF EXTRACTOR: A new ORF finding tool Combining Pairwise Global Gene Alignment" in National seminar on recent Advances in Fungal Biotechnology at F.R.I., Dehradun on 22-23 September 2011.
 - Presented a poster entitled "DENV NS3 Protease: A potential therapeutic target for anti-dengue drug discovery" in National conference on Underutilized plants, Food security & Climate change at Department of Botany, D.D.U. Gorakhpur University, Gorakhpur, U.P. (20-21, January, 2017)
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International:

- Presented a paper entitled “Amino acid sequence informatics of α -galactosidase enzyme from different source organisms” in 2nd International Science Congress (ISC -2012) at Bon Maharaj Engineering College, Vrindavan, Mathura, UP, India (8th - 9th December 2012)
 - Presented a poster entitled “Nimbolide from *Azadiracta indica*: A potential inhibitor of DENV NS2B-NS3 protease” in International conference on Structure and Dynamics of Biomolecules at Department of Physics, D.D.U. Gorakhpur University, Gorakhpur, U.P. (27-28, January, 2017)
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