



MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES, FARIDABAD

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DR. VINEET KUMAR GOSWAMI

Designation: Assistant Professor

Qualifications: B.Sc. (Choudhary Charan Singh University), M.Sc. Botany (Choudhary Charan Singh University), M.Tech. (Gautam Buddha University), M.Phil. (University of Delhi), Ph.D. Biotechnology (Delhi Technological University).

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Experience: 12 Years



Google Scholar Profile:

<https://scholar.google.co.in/citations?user=7efKZO4AAAAJ&hl=en>

Research Interests: Fermentation, Protein Chemistry, Neurodegenerative disorders

+ Journal Publication Details:

- Sharma A., Hawthorne S., Jha S.K., Jha N.K., Kumar D., Girgis S., **Goswami V.K.**, Gupta G., Singh S., Dureja H., Chellappan D.K., and Dua K. (2021). Effects of curcumin-loaded poly (lactic-co-glycolic acid) nanoparticles in MDA-MB231 human breast cancer cells. *Nanomedicine*. Vol. 16(20): 1763–1773. ISSN 1743-5889, Impact factor 5.3. (<https://www.futuremedicine.com/doi/pdf/10.2217/nnm-2021-0066>)
- Agrahari M., Megha K., Dahiya K., Sharma I., Sharma A., Jha N.K., **Goswami V.K.**, Raj R., Kesari K.K. and Jha S.K. (2021). Identification of biomolecules for Alzheimer's disease using docking analysis of TAU protein. *Neuropharmac Journal*. Vol. 6(2): 192-203. ISSN 2456-3927, Impact factor 1.0 (<https://www.neuropharmac.com/article617/>)
- Adhikarla S.V., Jha N.K., **Goswami V.K.**, Sharma A., Bhardwaj A., Dey A., Villa C., Kumar Y. and Jha S.K. (2021): TLR-Mediated Signal Transduction and Neurodegenerative Disorders. *Brain Sciences*. Vol. 11(11): 1373-1382. ISSN: 2076-3425. Impact factor 3.39 (<https://doi.org/10.3390/brainsci11111373>) or (<https://www.mdpi.com/2076-3425/11/11/1373/pdf>).
- Sharma A., Kumar D., Dahiya K., Hawthorne S., Jha S.K., Jha N.K., Nand P., Girgis S., Raj S., Srivastava R., **Goswami V.K.**, Gregoriou Y., El-Zahaby S.A., Ojha S., Dureja H., Gupta G., Singh S., Chellappan D.K., Dua K. (2021). Advances in pulmonary drug delivery targeting microbial biofilms in respiratory diseases. *Nanomedicine*. Vol. 16(21): 1905-1923. ISSN 1743-5889, Impact factor 5.3. doi: 10.2217/nnm-2021-0057. Epub 2021 Aug 5. Review. PubMed PMID: 34348474. (<https://www.futuremedicine.com/doi/pdf/10.2217/nnm-2021-0057>)
- Jha N.K., Ojha S., Jha S.K., Dureja H., Singh S.K., Shukla S.D., Chellappan D.K., Gupta G., Bhardwaj S., Kumar N., Jeyaraman M., Jain R., Muthu S., Kar R., Kumar D., **Goswami V.K.**, Ruokolainen J., Kesari K.K., Singh S.K. & Dua K. (2021): Evidence of Coronavirus

(CoV) Pathogenesis and Emerging Pathogen SARS-CoV-2 in the Nervous System: A Review on Neurological Impairments and Manifestations. *Journal of Molecular Neuroscience*. Vol. 71(3): 2192–2209. ISSN 1559-1166. Impact factor 3.44. <https://doi.org/10.1007/s12031-020-01767-6>.

- Jha N.K., Jha S.K., Kar R., Nand P., Kumari S. and **Goswami V.K. (2019)**: Nuclear factor-kappa β as a therapeutic target for Alzheimer's disease. *Journal of Neurochemistry*. Vol. 150(2): 113-137. ISSN: 1471-4159, Impact factor 4.87. (<https://doi.org/10.1111/jnc.14687>).

- **Goswami V.K.** and Sharma J.G. (2017). An intermediate temperature stable, extracellular and alkaline lipase from *Pseudomonas aeruginosa* and its application in biodiesel production. *Asian Journal of Applied Science and Technology*. Vol. 1(7): 104-115. ISSN. 2456-883X, Impact factor 2.98. (<http://ajast.net/data/uploads/00020.pdf>).

- **Goswami V.K.** and Sharma J.G. (2017). Time kinetics studies of enzyme catalyzed hydrolysis of triolein and transesterifications of olive oil for the synthesis major olive oil methyl esters using *Pseudomonas aeruginosa* lipase. *Asian Journal of Applied Science and Technology*. Volume 1(7): 38-46. ISSN. 2456-883X, Impact factor 2.98. (<http://ajast.net/data/uploads/0008.pdf>).

- Singh R., Gupta N., **Goswami V.K.** and Gupta R. (2006). A simple activity staining protocol for lipases and esterases. *Applied Microbiology and Biotechnology*. Vol. 70(6): 679- 682. ISSN: 0175-7598, Impact factor 3.67. (<http://www.springerlink.com/content/p8583t75p87mv476/>)

- Gupta N., Rathi P., Singh R., **Goswami V.K.** and Gupta R. (2005). Single step purification of lipase from *Burkholderia multivorans* using polypropylene matrix. *Applied Microbiology and Biotechnology*. Vol. 67(5): 648- 653. ISSN: 0175-7598, Impact factor 3.67. (<http://www.springerlink.com/content/b65ewkg1uh7chlwa/>).

- Gupta R., Gigras P., Mohapatra H., **Goswami V.K.** and Chauhan B. (2003). Microbial alpha-amylases: A biotechnological perspective. *Process Biochemistry*. Vol. 38(11): 1599-1616. ISSN: 1359-5113, Impact factor 2.88. ([https://doi.org/10.1016/S0032-9592\(03\)00053-0](https://doi.org/10.1016/S0032-9592(03)00053-0)).

- Rathi P., **Goswami V.K.**, Sahai V. and Gupta R. (2002). Statistical medium optimization and production of a hyper thermostable lipase from *Burkholderia cepacia* in a bioreactor. *Journal of Applied Microbiology*. Vol. 93(6): 930- 936. ISSN: 1365-2672, Impact factor 2.68. (<http://doi.org/10.1046/j.1365-2672.2002.01780.x>).

+ **Book/Chapter Publications:**

- **Goswami V.K.**, Nandy S., Vaishnavi S., Bhatnagar A.K. and Raina S.N. (2005). Indian mayapple (*Podophyllum hexandrum*) leaf as an alternative source of podophyllotoxin; and RAPD fingerprinting between the Indian and American (*P. peltatum*) mayapple. In *Biodiversity: Status and Prospects* (Eds: P. Tandon, M. Sharma, and R. Swarup). Narosa Publishing Company, India. pp. 101- 111. ISBN: 978-81-7319-676-8. (http://narosa.com/books_display.asp?catgcode=978-81-7319-676-8).

+ Professional Affiliation:

- Served as Adjunct Faculty at the Department of Science and Engineering, Novel Global Community Educational Foundation, Hebersham 2770, Australia.
- Served as external examiner for B.Sc. (Biotechnology) and B.Sc. (Microbiology) end semester practical examinations (April, 2019) for the Department of Life Sciences, School of Basic Science and Research, Sharda University, Knowledge Park-III, Greater Noida, Uttar Pradesh-201310, India
- Served as Technical Resource Person for GC and HPLC demonstration, training and biochemical analysis and quantification of biomolecules, during workshop cum hand-on training program on “Recent Advances in Fish Nutrition” held during 15th - 17th March, 2019, sponsored by Department of Biotechnology, Government of India and organized by Department of Zoology, University of Delhi, Delhi-110007, India
- Served as paper setter/ invigilator for various B.Tech./ M.Tech. end-term practical and theory examinations (2013- 2022) for Delhi Technological University, Delhi-110042, India
- Served as a paper setter and examiner for evaluating answer scripts for end-semester examination for various theory and lab courses at G.D. Goenka University, Gurugram, Haryana- 122103, India
- Reviewer for Gene Reports (**Elsevier**)
- Member, Board of Management, JNV Foundation, New Delhi

+ Projects:

- Worked on the project “Lipase mediated enantio- selective purification of L- menthol from the racemic mixture of D/L menthol and its use in perfumery” for one year (2017-2018) as a **Research Associate funded by Virat Exports Pvt. Ltd, New Delhi**
- Worked on the project “*Trichoderma* and *Pseudomonas* based biopesticides formulation for organic farming adaptations” for one year (2009-2010) as **Research Associate funded by ITS Limited, New Delhi**
- Worked on the project “Fat and oil modifications and selective hydrolysis of mustard oil for the extraction of erucic acid.” For one-year (2006-2007) as **SRF funded by Mustard Research Promotion Consortium, Delhi**
- Worked on the project “A green technology for leather processing: Enzymatic process of sulfide free de-hairing of hides for reducing sulfide pollution in effluent and water bodies” for one-year (2005-2006) as **SRF Funded by DBT**
- Worked on the project “Cloning and overexpression of protease genes for concomitant production of protease and its application in bakery industry as bread improver” for three years (2002-2005) **SRF Funded by: CSIR**
- Worked on the project “Lipase mediated synthesis of medium chain triglyceride (MCT) as lactose intolerant infant feed” for one-year (2001-2002) **JRF funded by Hindustan Vegetable Oils Corporation, Delhi**