

Dr. Vishwanath B. Chachadi

Assistant Professor

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POSITIONS HELD

- **Assistant Professor** (May 2014-Present)
*P.G. Department of Studies in Biochemistry,
Karnatak University Dharwad, INDIA.*
 - **Post-Doctoral Research Associate** (2009-2014)
*Department of Biochemistry and Molecular Biology
University of Nebraska Medical Center, Omaha, USA.*
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EDUCATION

- **Ph.D. (Biochemistry; 2009)** :Karnatak University, Dharwad, INDIA.
 - **M.Sc. (Biochemistry; 2002)** :Karnatak University, Dharwad, INDIA.
 - **B.Sc. (Chemistry, Microbiology and Zoology; 2000)** :Karnatak Sc. College, Dwd. INDIA.
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RESEARCH

- **Post-doctoral Research:**
 - *Examined and demonstrated the potential side effects of chemotherapeutic agents: 5-Aza-deoxycytidine and SAHA for the induction of selectin ligands involved in cancer cell metastasis.*
 - *Identified specific glycosyltransferases involved in the biosynthetic regulation of sialyl Lewis antigens displayed on mucins.*
 - **Ph.D**
 - *Carried out studies on *Sclerotium rolfsii* lectin to determine its exquisite carbohydrate binding specificity and antiproliferative activity on human leukemic and epithelial colon cancer cells.*
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AWARDS / SCHOLARSHIPS

- Awarded **Best Researcher** in the Department of Biochemistry and Molecular Biology, **University of Nebraska Medical Center, USA** for the year 2009-2010
- Received **Travel Award** to attend Annual Conference of the Society for Glycobiology 2010, FL, USA.
- Technology entitled "*Recombinant protein with Serological and Cancer diagnostic application*" has been selected for commercialization by Lockheed Martin: FICCI,; and IC2 Inst. Univ. of Texas under "India Innovates growth programme" (**Awarded Silver Medal**)
- Awarded a **Senior Research Fellowship** (SRF) by Indian Council of Agricultural Research (**ICAR**)(Oct 2002 to March 2005).

Vishwanath B. Chachadi, Divya Nayak, Hema H. Shalavadi, Anusha K. M., Sheeba H. Malekar, Tejaswini V. Teggihalli, Manjula H. Nayak, Lipids of Flowers: Better Way To Keep Flower Fresh Forever. *International Journal Of Scientific & Technology Research* 2020; 9(3):68-75.

- Awarded a **Research Fellowship** by Department of Science and Technology (DST)(June 2005 to Dec 2008).

RESEARCH GRANTS

- **UGC-BRS Start-up** grant for the research project entitled “*Identification of glycans involved in cancer metastasis.*” (**Principal Investigator; Rs. 6 Lakhs; 2015-2017**)
- **CSIR Extramural Research Grant** for research project entitled “*Investigating the role of microbial lectins from pathogenic fungi and bacteria causing mycotic and bacterial keratitis.*” (**Co-Principal Investigator; Rs. 18 Lakhs; 2019-2021**)
- **Karnatak University Seed grant money** Project entitled “*Evaluation of differential expression of selectin ligands on cancer cell surfaces.*” (**Principal Investigator: Rs. 50,000; 2021-2022**)

RESEARCH PUBLICATIONS

1. **Vishwanath B. Chachadi**, Radha Pujari, Padma Shastry, Bale M. Swamy, Shashikala R. Inamdar. “*Sclerotium rolfsii lectin induces opposite effects on normal PBMCs and leukemic Molt-4 cells by recognising TF antigen and its variants as receptors.*” ***Glycoconjugate Journal***. 2020, Apr;37(2):251-261
2. **Vishwanath B. Chachadi**, Divya Nayak, Hema H. Shalavadi, Anusha K. M., Sheeba H. Malekar, Tejaswini V. Teggihalli, Manjula H. Nayak, Lipids of Flowers: Better Way To Keep Flower Fresh Forever. *International Journal Of Scientific & Technology Research* 2020;9(3)
3. **Vishwanath B. Chachadi**, Tejaswini R. Nayanegali, Bharamappa G. Pujari, Lakshmi V. Umarji, Vasundhara Budyhalamath, Shashikala R. Inamdar and Pi-Wan Cheng. Inhibitory activity of salivary glycoproteins on phytohemagglutins (PHA): Possible molecules to enhance nutritional quality of red kidney beans. *Legume Research-An International Journal* 2019; 43 (3):337-344
4. **Vishwanath B. Chachadi**, , Hema H. Shalavadi, Divya Nayak Anusha K. M., Sheeba H. Malekar, Tejaswini V. Teggihalli, Manjula H. Nayak, Quantitative Analysis Of Floral Lipids: Their Role In Floral Freshness And Waste Management, *Journal of Advanced Scientific Research*. 2020; 11(2):68-75.
5. **Vishwanath B. Chachadi**. Isolation of Blood Group non-specific Lectin from *Calotropis gigantean* seeds. (***Jordan Journal of Biological Sciences*, 2019**).
6. **Vishwanath B. Chachadi**. Isolation of Blood Group Non-specific Lectin from *Calotropis gigantean* Seeds. ***Jordan Journal of Biological Sciences***. 2019, June; 12 (2):141-145
7. Sindhura BR, Prajna Hegde, **Vishwanath B Chachadi**, Shashikala R Inamdar and Bale M Swamy. “*High mannose N-glycan binding lectin from Remusatia vivipara (RVL) limits cell growth, motility and invasiveness of human breast cancer cells.*” (***Biomedicine and Pharmacotherapy*, 2017**)

8. **Vishwanath B. Chachadi**, Ganapati Bhat and Pi-Wan Cheng. "Glycosyltransferases involved in the synthesis of MUC-associated metastasis-promoting selectin ligands". (**Glycobiology**,2015)
9. **Vishwanath B. Chachadi**, Mohamed F. Ali and Pi-Wan Cheng. "Prostatic cell-specific regulation of the synthesis of MUC1-associated sialyl Lewis a" (**PLoS One**, 2013)
10. Mohamed F. Ali, **Vishwanath B. Chachadi**, Armen Petrosyan and Pi-Wan Cheng. "Golgi phosphoprotein 3 controls cell binding to selectins and intercellular adhesion molecule 1 by interacting with Core 2 N-acetylglucosaminyltransferase 1 at the Golgi" (**JBC**, 2012)
11. Yin Gao, **Vishwanath B. Chachadi**, Pi-Wan Cheng and Inka Brockhausen. "Glycosylation potential of human prostate cancer cell lines". (**Glycoconjugate Journal**, 2012)
12. Prakash Radhakrishnan, **Vishwanath B. Chachadi**, Ming-Fong Lin, Rakesh Singh, Reiji Kannagi, Pi-Wan Cheng. "TNF α enhances the motility and invasiveness of prostatic cancer cells by stimulating the expression of selective glycosyl- and sulfotransferase genes involved in the synthesis of selectin ligands".(**BBRC**, 2011)
13. **Vishwanath B. Chachadi**, Shashikala R. Inamdar, Lu-Gang Yu, Jonathan M. Rhodes and Bale M. Swamy. "Exquisite binding specificity of Sclerotium rolfsii lectin toward TF-related O-linked mucin-type glycans" (**Glycoconjugate Journal**, 2011)
14. **Vishwanath B. Chachadi**, Helen Cheng, David Klinkebiel, Judith K. Christman, and Pi-Wan Cheng. "5-Aza-2'-Deoxycytidine Increases Sialyl Lewis X on MUC1 by Stimulating β -Galactoside: α 2,3 Sialyltransferase 6 Gene" (**Int J Biochem Cell Biol**, 2011)
15. Radha Pujari, Nagaraja N. Nagre, **Vishwanath B. Chachadi**, Shashikala R. Inamdar, Bale M. Swamy and Padma Shastry. "Rhizoctonia bataticola lectin (RBL) induces mitogenesis and cytokine production in human PBMC via p38 MAPK and STAT-5 signaling pathways" **Biochimica et Biophysica Acta**. 2010; 1268–1275
16. Nagaraja N. Nagre, **Vishwanath B. Chachadi**, Palaniswamy M. Sundaram, Ramachandra S. Naik, Radha Pujari, Padma Shastry, Bale M. Swamy, Shashikala R. Inamdar. "A potent mitogenic lectin from the mycelia of a phytopathogenic fungus, Rhizoctonia bataticola, with complex sugar specificity and cytotoxic effect on human ovarian cancer cells. **Glycoconjugate Journal**. 2010; 27:375–386
17. Nagaraja N. Nagre, **Vishwanath B. Chachadi**, Sachin M. Eligar, Shubhada C, Radha Pujari, Padma Shastry, Bale M. Swamy, Shashikala R. Inamdar. "Purification and characterization of a mitogenic lectin from Cephalosporium, a pathogenic fungus causing mycotic keratitis. **Biochemistry Research International**. 2010;2010:854656
18. G. J. Sathisha, Y. K. Subrahmanya Prakash, **Vishwanath. B. Chachadi**, N. N. Nagaraja, S. R. Inamdar, D. D. Leonidas, H. S. Savithri and B. M. Swamy. "X-ray Sequence Ambiguities of Sclerotium rolfsii Lectin Resolved by Mass spectrometry". **Amino Acids**. 2008; 35: 309–320
19. Demetres D. Leonidas, Bale M. Swamy, George N. Hatzopoulos, Sathisha J. Gonchigar, **Vishwanath B. Chachadi**, Shashikala R. Inamdar, Spyros E. Zographos and Nikos G. Oikonomakos. "Structural Basis for the Carbohydrate Recognition of the Sclerotium rolfsii Lectin". **Journal of Molecular Biology**. 2007; 368, 1145–1161

PATENTS

International

- ✓ Swamy BM, Inamdar SR, Venkat H, **Chachadi VB**, Nagre NN, Ramadoss CS (2012) “Cancer cell binding recombinant lectins with antitumor activity and method of preparation”. **European Patent#18187607.9-1120**; Filed; 27th May 2009, Issued; 28th Sept 2018.
- ✓ Swamy BM, Inamdar SR, Venkat H, **Chachadi VB**, Nagre NN, Ramadoss CS (2011) “Cancer cell binding recombinant lectins with antitumor activity and method of preparation”. **International Patent # WO2010/095143 A2**, Filed; 27th May 2009, Issued; 26th Aug 2010. **IP# WO 2010/095143 A3** Filed; 27th May 2009, Issued; 20th Jan 2011

National

- ✓ Swamy BM, Inamdar SR, Venkat H, Radhika S, **Chachadi VB**, Nagre NN, Gonchigar SJ, Morey V, and Ramadoss CS. (2010) “Recombinant lectin and method of preparation thereof. Filed; 4th Jan 2008, Issued; 23rd July 2010. **Indian Patent Application # 30/MUM/2008 A**

PAPERS PRESENTED AT CONFERENCES AND SYMPOSIUM

1. **Vishwanath B. Chachadi**, Mohamed F. Ali and Pi-Wan Cheng. *Modulation of MUC1-associated sialyl Lewis a in normal prostatic RWPE-1 cells by epigenetic regulation of the B3GALT1 gene*. Joint Meeting of the Society for Glycobiology and American Society for Matrix Biology 2012, San Diego, CA, USA.
2. Mohamed F Ali, **Vishwanath B Chachadi**, Pi-Wan Cheng. *Golgi Phosphoprotein 3 Regulates Cell Adhesion to Selectins and ICAM-1 by Controlling Golgi Retention of C2GnT1*. Annual Conference of the Society for Glycobiology 2011 Seattle, WA, USA
3. Yin Gao, Pi-Wan Cheng, **Vishwanath B. Chachadi**, Yifan Wang, TassosAnastassiades, Inka Brockhausen. *The Characteristic Glycosylation Potential of Human Prostate Cancer Cells*. Annual Conference of the Society for Glycobiology 2010 St Petersburg, FL, USA.
4. **Vishwanath B. Chachadi**, Helen Cheng, David Klinkebiel, Judith K. Christman, and Pi-Wan Cheng “5-Aza-2'-Deoxycytidine Increases Sialyl Lewis X on MUC1 by Stimulating β -Galactoside: α 2,3 Sialyltransferase 6 Gene. Annual Conference of the Society for Glycobiology 2010 St Petersburg, FL, USA.
5. Inamdar SR, Yu LG, **Chachadi VB**, Nagre NN, Swamy BM, Rhodes JM, “Pro-apoptotic effect on human colon cancer cells of a Thomsen-friedenreich antigen-binding lectin from *Sclerotium rolfsii*. 23rd International Lectin Meeting (Interlec-23) 2008 University of Edinburgh and University of Stirling, UK.