

Curriculum Vitae

Naveen Kumar Vishvakarma, Ph.D.

Assistant Professor
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Teaching and Research Career

Jan 2014 onwards :

Assistant Professor
Department of Biotechnology
Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India.

June 2013 to Jan, 2014:

Assistant Professor-Microbiology
Department of Botany and Microbiology
HNB Garhwal University, Srinagar-Garhwal, Uttarakhand, India.

2012 - 2013: Postdoctoral Fellow
Cancer Imaging and Metabolism,
Moffitt Cancer Centre, Florida, USA.

2011 - 2012: Research Associate (by Indian Council of Medical Research, New Delhi)
School of Biotechnology,
Banaras Hindu University, Varanasi, UP, India

2010: Postdoctoral Fellow
Manitoba Institute of Cell Biology,
CancerCareManitoba, Winnipeg, Manitoba, Canada.

2009 - 2011: Junior Research Fellow (by Council of Scientific and Industrial Research)
School of Biotechnology,
Banaras Hindu University, Varanasi, UP, India

2008 – 2009: Junior Research Fellow (by University Grants Commission)
School of Biotechnology,
Banaras Hindu University, Varanasi, UP, India

2006 - 2008: Lecturer – Microbiology
Department of Microbiology,
VBS Purvanchal University, Jaunpur, UP, India

Educational Qualifications

2010: Ph.D. Biotechnology from School of Biotechnology, Banaras Hindu University, Varanasi, Uttar Pradesh

2005: Master of Science (M.Sc.) in Applied Microbiology with Gold Medal from Department of Microbiology, VBS Purvanchal University, India.

2003: Bachelor of Science (B.Sc.) in Biology with First Division from Faculty of Life Science, Udai Pratap. College, Varanasi, UP, India

Research Interests

Tumor Microenvironment, Tumor-induced Immunosuppression, Myelopoietic differentiation of immune cells, Infection and immunity, Microbe-based cancer therapy.

Full length Publications

Research Articles

1. Rai RK, **Vishvakarma NK**, Mohapatra TM, Singh SM. Augmented macrophage differentiation and polarization of tumor-associated macrophages towards M1 subtype in *Listeria*-administered tumor-bearing host. **Journal of Immunotherapy** 2012. **35(7):544-54**. ISSN 1537-4513.
2. **Vishvakarma NK**, Kumar Anjani, Kumar Ajay, Kant S, Bharti AC, Singh SM. Myelopotentiation effect of curcumin in tumor-bearing host: Role of bone marrow resident macrophages. **Toxicology and Applied Pharmacology**. 2012, 263:11-121. ISSN 0041-008X.
3. **Vishvakarma NK**, Kumar A, Singh V, Singh SM. Hyperglycemia of tumor microenvironment modulates stage-dependent tumor progression and multidrug resistance: implication of cell survival regulatory molecules and altered glucose transport. **Molecular Carcinogenesis**. 2012 [doi: 10.1002/mc.21922](https://doi.org/10.1002/mc.21922). [In Press] ISSN 1098-2744.
4. Kumar A, **Vishvakarma NK**, Bharti AC and Singh SM. Gender-specific antitumor action of aspirin in a murine model of a T-cell lymphoma bearing host. **Blood Cells, Molecules and Diseases**. 2012;48:137-144. ISSN 1079-9796.
5. **Vishvakarma NK** and Singh, SM. Augmentation of myelopoiesis in a murine host bearing a T cell Lymphoma following in vivo administration of proton pump inhibitor pantoprazole. **Biochimie** 2011 93(10):1786-96. ISSN 0300-9084. **Impact Factor: 3.022**
6. Kumar A, **Vishvakarma NK**, Tyagi A, Bharti AC and Singh SM. Anti-neoplastic Action of Aspirin against a T cell Lymphoma Involves Alteration in Tumor Microenvironment and Regulation of Tumor Cell Survival. **Bioscience Reports** 2012. 32(1):91-104. ISSN 1573- 4935.
7. **Vishvakarma NK**, Kumar A and Singh SM. Role of Curcumin-dependent modulation of tumor microenvironment of a murine T cell Lymphoma in altered regulation of tumor cell survival. **Toxicology and Applied Pharmacology**. 2011 252(3):298-306. ISSN 0041-008X.
8. **Vishvakarma NK** and Singh SM. Immunopotentiating effect of proton pump inhibitor pantoprazole in a lymphoma-bearing murine host: Implication in antitumor activation of tumor-associated macrophages. **Immunology Letters** 2010.134(1):83-92. ISSN 0165-2478.
9. **Vishvakarma NK** and Singh SM. Mechanisms of tumor growth retardation by modulation of pH regulation in tumor microenvironment of a murine T cell lymphoma. **Biomedicine and Pharmacotherapy**. 2011. 65(1):27-39. ISSN 0753-3322.
10. Mallick SK, Gupta V, Singh MP, **Vishvakarma NK**, Singh N and Singh SM. Effect of Neem (*Azadirachta indica*) oil on the progressive growth of a spontaneous T cell lymphoma. **Oriental Pharmacy and Experimental Medicine**. 2008. 7(5): 459-465. ISSN 2211-1069.
11. Singh MP, Rastogi PC, Srivastava AK and **Vishvakarma NK**. Decolorization of azo-dye by white rot fungi *Pleuroteus* sp. **Pollution. Res.** 2008. 27(3): 365-69. ISSN 0257-8050
12. Singh MP, Pandey VK, Pandey AK, Srivastava AK, **Vishvakarma NK** and Singh VK. Production of Xylanase by white rot fungi on wheat straw. **Asian J Microbiol Biotechnol Env Sci**. 2008. 10, 859-862. ISSN 0972-3005.

Book chapter

13. **Vishvakarma NK**, Shrivastava P and Singh SM. Thymic Peptides: Hormones with Biological Response Modifying Potential and Multi-Utility Therapeutic Applications in Life Threatening Pathologies In “**Recent Trends in Biotechnology**”, Nova Science Publishers, New York, USA. 2009. ISBN 978-1-60876-148-7.
14. **Vishvakarma NK**, Singh SM. Macrophages: the versatile frontline line defenders of antimicrobial immunity. In: “**Recent advances in Microbiology**”Vol-II, Nova Science Publishers, New York, USA [In Press]. ISBN 978-1-61470-632-8

Gene sequence

GeneBank accession: **GQ249947.1**

***Pleurotus ostreatus* isolate PU001** 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence.

Conferences and symposium

Oral Presentation ‘Repolarization and augmented antitumor activation of tumor-associated macrophages in Listeria-administered tumor-bearing host’ at Symposium on Recent Advances in Biochemistry and Biotechnology: Applications in Health, Environment & Agriculture Held at Department of Biochemistry, Lucknow University, Lucknow, UP (October 29-31, 2013)

Oral Presentation ‘Modulation of pH regulation in the tumor microenvironment: A novel strategy to retard tumor progression’ at II National Conference on Advances in Biological Sciences held at PRS University, Raipur, Chhattisgarh (November 25-27, 2013)

Presented an invited seminar ‘Prostate Cancer: B7H4 Imaging’ at Molecular imaging and Nanomedicine Retreat, at Cancer Imaging and Metabolism, Moffitt Cancer Center, Tampa, FL, USA on Jan24, 2013,

Poster presentation at Moffitt Research Day Symposium-2013. Title: Validating B7-H4 as a prostate cancer imaging marker in a tumor mouse model.

Presented Project outline and successfully funded on ‘Physical tumor microenvironment and immunosuppression’ at Microenvironment Group Meeting, Moffitt Cancer Center, (July, 2012)

Participated in Silver Jubilee Symposium on Bioinformatics-BTISNet in India 2011 (DBT sponsored) at Pondicherry University.

Awards and Recognitions

- Post-Doctoral Fellowship at Moffitt Cancer Center, Tampa, Florida, USA.
- Award of Post-Doctoral Research Fellowship from Manitoba Institute of Cell Biology, CancerCareManitoba, Winnipeg, Manitoba, USA. (2010)
- Gold Medal in M.Sc. for standing first in the order of merit from VBS Purvanchal University Jaunpur, U.P., India .
- Qualified ‘Graduate Aptitude Test for Engineering (GATE)’ in year 2005 (All India Rank: 278; with 95.75 percentile) and 2006 (All India Rank: 265; with 97.35 percentile).
- Research Training in the lab of Tumor Immunology, School of Biotechnology, Banaras Hindu University, Varanasi (Aug 2005-Feb 2006)
- Summer training of research techniques in the lab of Tumor Immunology, School of Biotechnology, Banaras Hindu University, Varanasi (01.05.2004-15.7.2004)
- Completed courses regarding handling and ethics of animal experimentation for biomedical sciences and passed examination of Animal Research Orientation on the American Association of Laboratory Animal Science (AALAS) Learning Library.

Editorial Board Member-ship

- Journal of Tumor
- Trends in Life Science
- Trends in Biotechnology Research
- Journal of Enzymology and metabolism (Open Science Publication)

Personal Information

Date of Birth:	January 30, 1982
Name of Father:	Late Mr. Rajbanshi Prasad Vishvakarma
Nationality:	Indian
Sex:	Male
Marital Status:	Single