

Dr. VINEET KUMAR SINGH

M.Sc., Ph.D.

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EDUCATIONAL QUALIFICATIONS:

Doctor of Philosophy (PhD)	Banaras Hindu University, Varanasi	Botany	2016	-----
Master of Science (MSc)	VBS Purvanchal University, Jaunpur	Botany	2006	First
Bachelor of Science (BSc)	VBS Purvanchal University, Jaunpur	Bot/Chem	2004	First
Intermediate	UP Board of Secondary Education	Science (Bio)	2000	Second
High school	UP Board of Secondary Education	Science	1998	First

Ph.D. Thesis Title: “Micropropagation of *Gymnema sylvestre* R.Br. and Evaluation of Metabolic and Immunological Implications of Gymnemic acid in Diabetic rats”

PUBLICATIONS:

Research Articles:

- Singh, V.K., Dwivedi, P., Chaudhary, B.R., Singh, R. (2016). Gymnemic acid stimulates *in vitro* splenic lymphocyte proliferation. *Phytother. Res.* 30: 341 – 344. doi: 10.1002/ptr.5514.
- Singh, V.K., Dwivedi, P., Chaudhary, B.R., Singh, R. (2015). Immunomodulatory effect of *Gymnema sylvestre* (R.Br.) leaf extract: An *in vitro* study in rat model. PLoS ONE 10(10): e0139631. doi:10.1371/journal.pone.0139631.
- Singh, V.K., Dwivedi, P., Chaudhary, B.R. (2015). Effect of growth additives, media strength and sucrose concentration on *in vitro* plant regeneration from nodal explants of *Gymnema sylvestre*. *Vegetos*, 28, 55 – 62,. doi: 10.5958/2229-4473.2015.00008.7.
- Singh, V.K. and Dwivedi, P. (2010). Efficient *in vitro* shoot multiplication of *Gymnema sylvestre* R.Br. - an antidiabetic medicinal plant. *Indian J. Plant Physiol*, 15, 250-254.
- Yadav, M., Dwivedi, P., Singh, P., Singh, V. K. (2010). *In vitro* culture protocol of *Tylophora asthmatica*- an anti-asthmatic medicinal herb. *Indian J. Plant Physiol*, 15, 297-301.

Book Chapter:

- Singh, V.K. and Dwivedi, P. (2023). Comparative effect of different Cytokinin on *in vitro* multiplication of *Gymnema sylvestre*. *Environment & Sustainable Development*. eds. Singh, S., Singh, R., Sikroria R. and Tripathi R., ABS Books, Delhi

CONFERENCE/SYMPOSIUM/SEMINAR ATTENDED:

- Pallavi Singh, Vineet Kumar Singh and Padmanabh Dwivedi (Dec. 2009). *In vitro* multiplication of *Stevia rebaudiana*: an anti-diabetic medicinal plant. (Poster Presented in *International Conference on Emerging Trends in Biotechnology (ETBT-2009)*, BHU, Varanasi.)
- Vineet Kumar Singh and Padmanabh Dwivedi (Sep. 2010). *In vitro* shoot induction of *Gymnema sylvestre* R.Br. – A Potent anti-diabetic plant. (Poster Presented in *SAARC Workshop on Biodiversity Conservation*, BHU, Varanasi.)
- Vineet Kumar Singh and Padmanabh Dwivedi (Nov. 2010). Effect of Casein hydrosylate and Maltose on shoot growth of *Gymnema sylvestre* R.Br. *in vitro*. (Poster Presented in *National Conference of Plant Physiology on Physiological and Molecular Approaches for Crop Improvement under Changing Environment*, BHU, Varanasi.)
- Participated in *National Conference on Environmental Problems in India and Challenges to Plant Biologist*. U.P. (Autonomous) College, Varanasi-221002 (Feb. 2011).
- Vineet Kumar Singh, Pallavi Singh, Navin Pradhan and Padmanabh Dwivedi (Jan. 2013). *In vitro* conservation of some important medicinal plants as a source of herbal drug. (Poster presented in *International conference on Global Scenario of traditional system of medicine, Ayurveda, Agriculture and Education*, BHU, Varanasi.)
- Mukul, aradhana Singh, Sandhya Singh, Vineet kumar Singh, Madhuri arya (Aug. 2015). Challenges for Indian Women in Research. (Poster Presented in *International Conference on Issues and Challenges in Doctoral Research*, BHU, Varanasi.)
- Vineet Kumar Singh and Padmanabh Dwivedi (Mar. 2016). Effect of Thidiazuron on *in vitro* *Gymnema sylvestre* R.Br.. (Poster Presented in *National Conference on “Strategies in Plant Physiological Research for Meeting Challenges in Agriculture*, BHU, Varanasi.)
- Vineet Kumar Singh and Padmanabh Dwivedi (Nov. 2022). Comparative effect of different Cytokinins on *in vitro* multiplication of *Gymnema sylvestre*. (Oral Presentation in *National Conference in “ Going Green: Environmental Conservation & Sustainability”* in Sunbeam Women’s College Varuna, Varanasi in collaboration with Institute of Environmental and Sustainable Development, BHU, Varanasi.)
- Vineet Kumar Singh and Padmanabh Dwivedi (Feb. 2024). *Gymnema sylvestre* R.Br. Leaf Extract stimulates *in vitro* splenic lymphocyte proliferation. (Oral Presentation in *National Conference in “Himalayan Ecosystem : Threats, Resilience and sustainable Management”* jointly organized by Government P.G. college Nagnath- Pokhari, Chamoli and Uttarakhand science and Education research Centre, Dehradun, Uttarakhand.)

- Vineet Kumar Singh, Alka Verma, Poonam and Anupama Singh (Sep. 2024). The Journey of education system from Ancient Guru-Shishya parampara to digitalized advanced classrooms. (Oral Presentation in *National Conference on “The Indigenous Education System of Bharat: From Gurukuls to Digital Classrooms”* in Sunbeam Women’s College Varuna, Varanasi sponsored by Indian Council of Historical research.)

WORKSHOP/TRAINING PROGRAM:

- *LATEX: The Documentation software*. Centre for Bioinformatics, School of Biotechnology, BHU, Varanasi. (Sept. 26 - 28, 2011).
- Faculty Development Programme on “*NEP Implementation: Emerging Issue in Higher Education*”. Inter University Centre for Teacher Education, BHU Varanasi 221005. (August 17th-22nd 2023).
- *NEP-2020 Orientation & Sensitization Programme*. Under UGC-MMTTP, Organized by joint collaboration with MMTTC, Department of Education, MGKVP, Varanasi and Teacher Education Department and Teacher’s Reskilling Cell , T.D.P.G. College, Jaunpur.(November 10th-18th 2025)

RESEARCH EXPERIENCE:

- Research Assistant in the project entitled “Micropropagation of *Gymnema sylvestre*- a pharmaceutically important medicinal plant” in the Department of Plant Physiology, Institute of Agricultural Science, BHU, Varanasi (2008-2011).

CONFERENCE/ WORKSHOP ORGANIZER:

- Associated with National Workshop “*Hands-on Practical Experience in Recombinant DNA Techniques, bioinformatics and Cheminformatics*” as Joint Organizing Secretary in Dr. Ghanshyam Singh Mahavidyalaya, Varanasi.
- Associated with Workshop “*Instrumentation Enrichment: Tools for Basic Science Research (IETBSR)*” as Convener in Dr. Ghanshyam Singh Mahavidyalaya, Varanasi.

TEACHING EXPERIENCE:

- Assistant Professor in Department of Botany, Dr. Ghanshyam Singh Mahavidyalaya, Varanasi, affiliated to M.G.K.V.P. Varanasi, from July 2018 till now.

TECHNICAL PROFICIENCY

- Plant Tissue Culture
- HPLC
- Animal handling :Mouse and Rat, Intra-peritoneal drug administration,
- Primary cell Culture: Isolation of Peritoneal macrophages and culture, splenic lymphocyte isolation and culture.

- Macrophage monolayer preparation and phagocytosis.
- Proficiency in Cell viability, Cell adhesion, MTT proliferation, NBT reduction and Nitrite Assays.

PERSONAL PROFILE

Name : Dr. Vineet Kumar Singh
Father : Dr. Ramesh Singh
Mother : Smt. Urmila Singh
Address : Vineet Kumar Singh
C/O Dr. Ramesh Singh
SA-16/9--91, A-1, Lane 1,
Tulsi Nagar colony,
Chakbihi, Tandia, Near Laxmi Mandir, Pachkoshi road,
Pandeypur, Varanasi-221007
Date of Birth : February 16, 1983
Nationality : Indian
Languages : Hindi, English
