

CURRICULUM VITAE

Name

Dr. Shashi Nijhawan

Designation

Principal, Shivaji College, University of Delhi

Education

- M.Sc. Biochemistry; Haryana Agricultural University, Hisar, Haryana, India.
- Ph.D. Haryana Agricultural University, Hisar, Haryana, India.

SPECIALIZATION: Molecular Biology

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Teaching Experience

- **Principal**, Shivaji College, Raja, University of Delhi, Delhi -110027 [[18.06.09-till date]
- **Associate Professor**, Department of Biochemistry, Deshbandhu College, University of Delhi [21.05.1997-17.06.09]
- **Assistant Professor**, Department of Biochemistry, Deshbandhu College, University of Delhi [27.09.1989-20.05.1997]
- **Assistant Professor**, Department of Biochemistry, Shivaji College, University of Delhi [11.09.88-26.09.89]
- **Assistant Professor**, Department of Biochemistry, Haryana Agricultural University, Hisar, Haryana [11.05.1979-08.09.1988]

Memberships of Academic Societies/Committees

- Member, Proteomic Society of India
- Member, Indian Association of Science Congress
- Member of Editorial board of “Journal of Biotechnology and Crop Sciences”

International/National Conferences Organized as Organizing Secretary

1. DBT-DST-ICMR-CSIR sponsored **National Workshop on "RNAomics: Isolation to Interference"** in collaboration with Roche, Medox and TCGA from 25th-29th October, 2010.
2. International conference on **Science Spirituality and Humanity: Transcending Discipline Barriers** in collaboration with NIDM, Ministry of Home Affairs from February 17-19, 2011.
3. **First WDC International conference on "Empowerment of Women in the Developing World"** organized by Women Development Cell, Shivaji College, University of Delhi in collaboration with WSDC, University of Delhi and NIDM, Ministry of Home Affairs, Govt. of India from April 01-02, 2013.

Invited lectures/ Panelist at various events

- Paper presentation on Student Support Services at NUEPA, Delhi on October 28, 2009
- Chaired session on- Biomarkers: Trends in Science in International conference on Science Spirituality and Humanity: Transcending Discipline Barriers at Shivaji College, DU In collaboration with Department of Philosophy, DU & NIDM, Ministry of Home Affairs, Govt. of India on February 18, 2011
- Panelist at Biotechnology as a Career Option in Biotechnology Workshop-BIOTIKOS-2012 at TERI University, New Delhi on March 15, 2012.

- Delivered lecture on Good lab practices at Workshop for Laboratory Assistants – Attendants in Chemical and Life Sciences held at Shivaji College, University of Delhi on July 16, 2014
- Delivered lecture on Maintenance of the Instruments at Workshop for Laboratory Assistants – Attendants in Chemical and Life Sciences held at Shivaji College, University of Delhi on July 18, 2014.
- Chaired session on Health and Medicines: A Socio Economic Perspective & Science and Technology at the Service of Humanity at International conference on Science, Spirituality and Humanity: Transcending Discipline Barriers at Shivaji College, DU In collaboration with Department of Philosophy, DU & NIDM, Ministry of Home Affairs, Govt. of India on February 18, 2011

Research Projects

2013-14: Co-investigator of project: “Biochemical assessment of toxic heavy metals in bacterial strain growing in the polluted water: A step towards Bioremediation” Sponsored by University of Delhi under Innovation project scheme [Total funding: 5.5 Lacs].

Awards

1. **2014** Best Poster presentation on "Epilepsy" at EPICON, the International conference (IC) on Epilepsy organized by SGTB Khalsa College, DU
2. **2014** Best Paper presentation “Microbial Fuel Cell: Harnessing Bioenergy from Yamuna Water” IC-LIFE, organized by Jaypee Institute of Information & Technology, Noida
3. **2015** Awarded Best Display under the theme “Environment” in Antardhwani, DU Innovation plaza.

Courses/Conferences/Symposia/Seminar/Workshops Attended

1. **1991** Refresher Course in Biochemistry-Code Biochem-I at Centre for Professional Development Higher Education, University of Delhi.

2. **1996** National Symposium on Current Trends in Plant Biochemistry & Biotechnology at Society for Plant Biochemistry & Biotechnology, New Delhi and Department of Biochemistry H.A.U. Hissar
3. **1997** Symposium on Diversity in Modern Biology at Department of Biochemistry, Delhi University, South Campus and Bimal K Bachhawat Foundation for Scientific Research and University of Delhi.
4. **1998** Third Refresher Course in Biotechnology at Academic Staff College, Jawaharlal Nehru University, New Delhi.
5. **1999** Trends in Biochemistry at Department of Biochemistry, University of Delhi, South Campus.
6. **2001** Refresher course in Biochemistry at CPDHE, University of Delhi.
7. **2002** Workshop on BioInformatics at BioInformatics Centre JNU and Distributed Information Sub-Center, University of Delhi, South Campus
8. **2004** International Conference on Chemistry Biology Interface: Synergistic New Frontiers at Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi
9. **2005** National Workshop in Bioinformatics and Computational Biology at Sri. Venkateshwara College, University of Delhi
10. **2006** National Symposium on Systems Biology at a joint event by South Campus, University of Delhi & JNU, New Delhi
11. **2009** National Symposium on Biotechnology in the Post Genomic Era at Sri Venkateshwara College, University of Delhi
12. **2009** National Summer School on Molecular Cell Biology at Sri Ventateshwara College, University of Delhi
13. **2009** Orientation Programme in Planning and Management of Higher Educational Institutions at National University of Educational Planning and Administration, NUEPA, Delhi
14. **2009** A two-day Microsoft training programme for senior university officials and principals at ILLL, University of Delhi
15. **2010** Academic Administration and Management at ILLL, University of Delhi
16. **2010** Attended the National Symposium on Genomics and Proteomics at Department of Bio-chemistry, Deshbandhu College, University of Delhi.

17. **2010** Seminar on Trends in Biochemistry at Department of Bio-chemistry, Sri Venkateswara College, University of Delhi and School of Biotechnology, Jawaharlal Nehru University, New Delhi
18. **2010** National Workshop on RNAomics: Isolation to Interference at Shivaji College in collaboration with Roche, Medox and TCGA
19. **2010** National Conference on “Tapped between Traditional and Modernity changes and challenged faced by women in India at Shivaji College.
20. **2013** National Symposium on Ramachandra Manifestation: Peptide to Proteome at University of Delhi, South Campus and Sri Venkateswara College.
21. **2013** One day Principal’s Workshop on Higher Education: Challenges and Opportunities at UGC-ASC, Jamia Millia Islamia, New Delhi.
22. **2013** National Symposium on Ramachandran Manifestation: Peptide to Proteome.
23. **2014** Workshop for Laboratory Assistants – Attendants in Chemical and Life Sciences at Shivaji College, University of Delhi.

Publications

A. Research Publications

1. **Chetal, S.**, Lal, B.M. & Nainawatee, H.S. 1975. P-nitrophenyl acid phosphatase activity in germinating barley seeds under water stress. *Curr. Sci.* 44: 546.
2. **Chetal, S.** and Nainawatee, H.S. 1976. Some enzymes changes associated with water stress in germinating paddy and barley seeds. *Plant Biochem. J.* 3: 105
3. **Chetal, S.**, Oswal, M.C. & Nainawatee, H.S. 1977. Germinating of paddy and barley as influenced by different water stress levels. *J. Res. HAU* 7: 53.
4. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. 1980. Phospholipid changes in wheat & barley leaves under water stress. *Phytochem.* 19: 1393.
5. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. 1980. Glycolipid changes in wheat and barley chloroplast under water stress. *Pl. sci. Lett.* 20: 225.

6. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. 1982. Chemical composition of wheat and barley leaves under water stress. *J. Res. HAU*. 12:50
7. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. 1982. Phospholipase D activity in leaves of water stressed wheat and barley. *Biochem. Physiol. PH*. 177: 92.
8. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. 1982. Lipid changes in two cultivars of Wheat and Barley during leaf development. *Z.pflanzen Physiol*. 107: 187.
9. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. Phosphatidyl ethanolamine in wheat and barley leaves under water stress. *Phytochem*. 21:1432. 57-53
10. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. 1983. Phospholipid changes in wheat and barley chloroplast under water stresses. *Pl. Sci. Lett.*29: 273.
11. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. 1983. Glycolipid phospholipid composition of wheat and barley chloroplast. *Biol. Plant* 25: 246.
12. Goyal, V., **Chetal, S.** and Nainawatee H.S. 1983. Water stress alters characteristics of alkaline phosphatase in *Rhizobium* and *Azotobacter* species. *Folia. Microbiol.* 29: 228
13. Goyal, V., **Chetal, S.** and Nainawatee H.S. 1986. Alterations in *Rhizobium trifolii* catalase under water stress. *Folia. Microbiol.* 31: 164
14. **Nijhawan, S.** and Malik, D. 2014. STEM CELLS: A Life Insurance Policy at Birth? *ICJMAS*. Vol. 3(7) 995-1001.
15. Malik, D., Singh, S., Thakur, J., Singh, R.K., Kapur, A., Kaur, A., **Nijhawan, S.** and Kumar, A. 2014. Nanocomposite Electrode Microbial Fuel Cell: A Promising Technology for Enhanced Power Generation from Yamuna Water. *International Journal of Science and Research* Vol. 3(7): 641-646.
16. Malik D, Singh S, Thakur J, Kishore R, Kapur A, **Nijhawan S.** 2014. Microbial Fuel Cell: Harnessing Bioenergy from Yamuna Water. *International Journal of Science and Research*. Vol. 3 (6): 1076-1081
17. Singh, S., Malik, D., Thakur, J., Kaur, A., Singh, R.K. and **Nijhawan, S.** 2014. A Comparative Analysis of the Physico-chemical Properties and Heavy Metal Pollution In Three Major Rivers Across India. *International Journal of Science and Research*. Vol. 3(8): 1936-1941
18. Malik, D., Singh, S., Singh, R.K., Kaur, A., Thakur, J and **Nijhawan, S.** 2014. Heavy Metal Pollution in Yamuna River: An Introspection. *IJCMAS*. Vol 3(10) 856-863

19. Malik, D., Singh, S., Kaur, A., Thakur, J. and **Nijhawan, S.** 2014. Oxidative Burst: Biochemical implications of metal toxicity. *Journal of Biotechnology and Crop Sciences*. Vol. 6(1) 25-40.

B. Books

Co-editor of

- **Nijhawan, S.**, Lochan, A. and Malik, D. 2014. Empowering Women: The Indian Socio-Cultural Scenario. Pragun Publication (A D K Publishers Distributors Enterprise), New Delhi
- **Nijhawan, S.**, Kaur, A. and Malik, D. 2015. Environmental Analytical Chemistry –A Laboratory Manual. Prithavi Prakashan, New Delhi-11067
- **Nijhawan, S.**, Tewari, P. and Madan, D. 2015. Sansrishti. Prithavi Prakashan, New Delhi-11067

C. Chapters in books

1. **Chetal, S.**, Wagle, D.S. and Nainawatee, H.S. Glycolipid changes in chloroplast of dwarf and tall wheat under water stress. Book: In genetics and wheat improvements. Ed.Gupta, A.K., Oxford and I.B.H., New Delhi. – P-192.
2. Malik, D., Kaur, A. and **Nijhawan, S.** 2014. Women & Disaster Management. Empowerment of Women in the Developing World

D. Other Publications/ Reports/ Editorials/ News and Views

1. **Nijhawan, S.** & Rana V. 2005. Bioinformatics; A New discipline of 21st Century Univ. News (2005) 39: 105
2. **Nijhawan S.** 2005. Biotechnology, The last Great Technological Revolution of 20th Century. Science Reporter

Papers Presented in Conferences/Workshops/Symposia

1. **Poster Presentation** on “Biochemical Assessment of Toxic Heavy Metals in Bacterial Strain growing in the polluted Water: A step towards Bioremediation” at Shivaji college, University of Delhi in collaboration with CDMS, GGSIP University in 2013.

2. **Paper presentation** on “Women Empowerment and Disaster Management” at 1st WDC International conference on Empowerment of Woman in the Developing world held at Shivaji college, University of Delhi from April 1st-2nd, 2013.
3. **Paper Presentation** on: “Microbial Fuel Cell: Harnessing green energy from Yamuna water” at IC-Life 2014, International Conference on Life Sciences, Informatics, Food and environment held at Jaypee Institute of Information & Technology, Noida.
4. **Poster Presentation** on: “Epilepsy: Etiology and Symptoms, Management; focusing on the elderly patients” at Epicon-2014; International conference on Epilepsy held at Khalsa College, University of Delhi from Oct 30-Nov 1, 2014.
5. **Poster Presentation** on: "Pediatric Epilepsy: Etiology and symptoms" at Epicon-2014; International conference on Epilepsy held at Khalsa College, University of Delhi from Oct 30-Nov 1, 2014 [**Best poster presentation award**].
6. **Poster presentation** in National Conference UMCCD-2014 on "Neurodegenerative Disorders: Molecular Mechanism of Alzheimer's Disease, A Risk Factor for Epileptic seizures?" at Shaheed Rajguru College of applied Sciences for women from 29th-30th December, 2014.
7. **Poster presentation** in National Conference UMCCD-2014 on "Impact of diabetes on wound Healing: molecular and Biochemical Aspects" at Shaheed Rajguru College of applied Sciences for women from 29th-30th December, 2014.
8. **Paper presentation** on International conference at 16th world Sanskrit conference in SSC, Silpakorn University, Bangkok, Thailand on "Curcumin: Ayurveda and its reinvention by modern science" from 28th June-2nd July, 2015.