

CURRICULUM VITAE

Name

Dr. Darshan Malik

Designation

Associate Professor, Department of Biochemistry, Shivaji College, University of Delhi

Education

- (1981) M.Sc. Biochemistry; Haryana Agricultural University, Hisar, Haryana, India.
- (1990) Ph.D. Haryana Agricultural University, Hisar, Haryana, India
- (2009) P.D.F. Norwegian University of Science & Technology

SPECIALIZATION: Cell Biology & Physiology

Contact Details

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Teaching Experience

- **Associate Professor**, Department of Biochemistry, Shivaji College, University of Delhi (1998 till date)
- **Assistant Professor**, Department of Biochemistry, Shivaji College, University of Delhi (1989-1998)

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 Convener/Co-convener

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. Satellite meeting on "*Disaster Risk Reduction: Role of Higher Education*" in **International conference** on Science, Spirituality and Humanity: Transcending Discipline Barriers in collaboration with NIDM, Ministry of Home Affairs on February 18, 2011.
3. Science at the service of Humanity in **International conference** on *Science Spirituality and Humanity: Transcending Discipline Barriers* in collaboration with NIDM, Ministry of Home Affairs from February 17-19, 2011.
4. **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.

Research Projects & Ph.D. Students

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]

Co-supervising **Ph.D student** Mr. Amrik Bhattacharya (328/Ph.D/USEM/08) on Topic “Bioremediation of Phenolics and heavy Metals using micro organisms”, registered with GGU IP University, New Delhi.

Awards & Fellowships

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.
4. **2009** Erasmus Mundus (E.U) Scholarship for Academic Exchange Program, Department of Biology, Norwegian University of Science and Technology, Trondheim, Norway.

Courses/Conferences/Symposia/Seminar/Workshops Attended

1. **2010** National Conference on "Tapped between Traditional and Modernity changes and challenged faced by women in India at Shivaji College.
2. **2010** National Workshop on RNAomics: Isolation to Inference.
3. **2010** National Symposia on "Current Trends in Genomics and Proteomics" held at Deshbandhu College.
4. **2011** Bioinformatics Workshop for Life Sciences Faculty organized by Bioinformatics Centre, Sri Venkateswara College.
5. **2011** International Conference on Science, Spirituality and Humanity: Transcending Discipline Barriers held at University of Delhi.
6. **2011** National Symposia on Frontiers and Avenues in Plant Sciences at Shivaji College.
7. **2012** "Bioinformatics" Workshop for Life Science Faculty organized by Bioinformatics Centre, Sri Venkateswara College, University of Delhi.
8. **2013** First WDC International Conference on Empowerment of Women in Developing World Organized by Shivaji College, University of Delhi.
9. **2014** Neurodegenerative Disorder: Molecular mechanism of Alzheimer's Understanding the mechanism and challenges of complex diseases (UMCCD-2014).
10. **2014** Workshop for Laboratory Assistants – Attendants in Chemical and Life Sciences.

11. **2014** International Conference on Life Sciences, Informatics, Food and environment. At Jaypee Institute of Information & Technology, Noida for the research paper titled” Microbial Fuel Cell: Harnessing green energy from Yamuna water).
12. **2014** International Conference 'Epicon-2014, Oct 30-Nov. Khalsa college, University of Delhi
13. **2014** 1st International Conference on Emerging Trends of Nanotechnology in Drug Discovery.

Publications

A. Research Publications

1. Malhotra, S., **Malik, D.** and Dhindsa, K.S. 1988. Proximate composition and antibacterial factors in rice bean (*Vigna umbellata*). Plant foods for Human Nutrition, Springer 38(1), pp.75.
2. Malhotra, S., **Malik, D.** and Dhindsa, K.S. 1988. Serials, Nutrient composition and biological evaluation of Bajra (*Pennisetum typhoides*) International Journal Of Tropical Agriculture 5, (3-4), pp. 299-305.
3. **Malik, D.**, Malhotra, S.P., Mann, K. and Dhindsa, K.S. 1989. Biological Evaluation of Proteins in some varieties of wheat. International Journal Of Tropical Agriculture, 7(3-4), pp. 281-286.
4. **Malik, D.**, Sheoran, I.S. and Singh, R. 1992. Lipid composition of thylakoid membrane of cadmium treated wheat seedlings. Indian Journal of Biochemistry and Biophysics, 29 (4), pp:350-354.
5. **Malik, D.**, Sheoran, I.S. and Singh, R. 1992. Carbon metabolism in leaves of cadmium treated wheat seedlings. Plant Physiology and Biochemistry 30(2), pp. 223-229.
6. Arbo, I., Halle, C., **Malik, D.**, Brattback, H-R and Johansen, B. 2011. Insulin induces fatty acid desaturase expression in human monocytes. Scandinavian Journal of Clinical & Laboratory Investigation 71(4), pp 330-339.

7. Nijhawan, S. and **Malik, D.** 2014. STEM CELLS: A Life Insurance Policy at Birth? *ICJMAS*. Vol. 3(7) 995-1001.
8. **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.
9. **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
10. 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
11. **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
12. **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.
13. Bhattacharya, A., Gupta, A., **Malik, D.** and Kaur, A. 2014. Efficacy of *Acinetobacter sp.* B9 for simultaneous removal of phenol and hexavalent chromium from co-contaminated system. *Applied Microbiology and Biotechnology* 98(23): 9829-41.
14. Srivastava, A., Singh, R. and **Malik, D.** 2014. Identification and Molecular Characterization of Fluorescent Bacteria antagonistic against *Exserohilum turcicum* based on 16S rDNA Sequences. *Journal of Bio-technology and Crop Sciences*. 3(4): 30-46

B. Books

Co-editor of

- Nijhawan,S., Lochan, A. and **Malik, D.** 2014. Empowering Women: The Indian Socio-Cultural Scenario. Pragn 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

C. Chapters in books

1. **Malik, D.**, Sheroan, I.S. and Singh, R. Effect of UV-B enhanced radiation on photosynthetic activities and polypeptides of thylakoids in *Vigna sinensis*. Ed: G. S. Singhal and T. Rama sarma, Today & Tomorrow's Printers and Publisher.
2. **Malik, D.**, Nijhawan, S. and Kaur, A. 2014. Empowering Women: The Indian Socio-Cultural Scenario; Book: Women & Disaster Management. Pragun Publication (A D K Publishers Distributors Enterprise), New Delhi

Papers/Posters Presented in Conferences/Workshops/Symposia

1. **Khara, D.** et al. (1979) "Auxin Promoted Peroxidase activity in Mun (*Phaseolus Aureus*) during germination. Presented at Society of Biological Chemists 48th Annual Meeting Oct. 1979.
2. **Khara, D.**, Sharma, S., Dendsay, J.P.S. and Chaudhry, P.S. Auxin influenced Peroxidase and non peroxidative IAA Oxidase activities in Mung Cotyledons Presented at Society of Biological Chemists 49th Annual Meeting Nov.(1980).
3. **Malik, D.**, Talwar, G. and Dendsay, J.S. Purification of auxin promoted peroxidases in mung cotyledons. Presented at Society of Biological Chemists 52nd Annual Meeting Nov.(1983).
4. Talwar, G., **Malik, D.** and Dendsay, J.S. Kinetic properties of IAA oxidase in mung cotyledons Presented at Society of Biological Chemists 52nd Annual Meeting Nov.(1983).
5. Bhattacharya, A., Kaur, A., **Malik, D.** and Gupta, A. Isolation and Characterization of High Concentration of Phenol Degrading Microbes at the 51st AMI (Association of Microbiologists of India) & International symposium on "Recent Advances in Cross-Disciplinary Microbiology: Avenues & Challenges" at Birla Institute of Technology and Science (BITS), Ranchi, Jharkhand, 14- 17 December, 2010.

6. **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.
7. **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.
8. **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.
9. **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.
10. **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**].
11. **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.

Other Interests

A Great golf enthusiast and have received several awards:

- Winner in North End Golf Tournament Championship-2014, held at the Qutub Golf Course, New Delhi.
- IMT Open Golf Championship (Best Gross Score) 2010.
- IMT Open Golf Championship (Longest Drive) 2010.