

CURRICULUM –VITAE

Dr. Shahina Kalim
Assistant Professor and Coordinator
Ph.D. Biochemistry
Department of Biochemistry
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ACADEMIC QUALIFICATIONS

Examination Passed	Board/ University	Year of Passing	%/OGPA	Division/ Class	Subjects
PhD	CCS HAU, Hisar, India	2005	82.6% (3.63/4.00)	I st	Biochemistry
M.Sc.	CCS HAU, Hisar, India	1998	78.6% (3.43/4.00)	I st	Biochemistry
B.Sc.(Hons)	University of Delhi, Delhi, India	1991	63.4%	I st	Chemistry (Honours)
AISSCE	CBSE, New Delhi, India	1988	73.4%	I st	English, Physics, Chemistry, Biology & Math
AISSE	CBSE, New Delhi, India	1986	68.0%	I st	English, Science & Math

TITLE OF M.Sc.THESIS

Micronutrients' induced effect on biochemical constituents in cowpea susceptible to *Rhizoctonia* Species.

TITLE OF PhD THESIS

Studies on biochemical and biological evaluation of potato (*Solanum tuberosum* L.) tubers.

FELLOWSHIPS / AWARDS

- ❖ Recipient of **Junior Research Fellowship** (*Indian Council of Agricultural Research*)
- ❖ Recipient of **Senior Research Fellowship** (*Council of Scientific and Industrial Research*)

TEACHING EXPERIENCE : 18 years

RESEARCH EXPERIENCE : 18 years

RESEARCH PAPER PUBLISHED

1. Ashraf, S.M., Rajesh and **Kaleem, S.** (1995). Interaction of decavanadate polyanions with proteins. *Analytical Biochemistry* 230 : 68-74.
2. **Kalim, S.**, Luthra, Y.P. and Gandhi, S.K. (1999). Copper induced effect on biochemical constituents in cowpea susceptible to *Rhizoctonia* species. *Acta Phytopathologica et Entomologica Hungarica* 34(3) : 199-210.
3. **Kalim, S.**, Luthra, Y.P. and Gandhi, S.K. (2000). Influence of Bavistin seed treatment on morpho-physiological and biochemical parameters of cowpea roots susceptible to *Rhizoctonia* species. *J. Mycol Pl. Pathol.* 30(3) : 375-379.
4. **Kalim, S.**, Luthra, Y.P. and Gandhi, S.K. (2003). Cowpea root rot severity and metabolic changes in relation to manganese application. *J. Phytopathology* 151 : 92-97.
5. **Kalim, S.**, Luthra, Y.P. and Gandhi, S.K. (2003). Role of zinc and manganese in resistance of cowpea root rot. *Zeitschrift fur Pflanzenkrankheiten und Pflanzenschutz* 110(3) : 235-243.

6. Sood, D.R., **Shina Kalim** and Shilpa (2008). Biochemical evaluation of potato tubers and peels. *Ind. J. Nutr. Dietet.* 45 : 410.
7. Sood, D.R., **Shina Kalim** and Shilpa (2008). Changes in fatty acid spectrum of potato tubers during refrigerated storage. *Ind. J. Nutr. Dietet.* 45 : 514.
8. Vibha Sharma, **Shahina Kalim**, Manoj K. Srivastava, Surabhi Nanda and Sanjay Mishra (2009). Oxidative stress and coxsackievirus infections as mediators of beta cell damage: A review. *Scientific Research and Essay* 4(2) : 042-058.
9. **Shahina Kalim**, Sood, D.R., Ajit Singh and Shilpa (2009). Functional properties, flavour precursors and electrophoretic protein banding pattern of potato tubers and peels. *Ind. J. Nutr. Dietet.* 46 : 339.
10. Sood, D.R., **Shahina Kalim** and Rajat Sood (2009). Functional properties, mineralization and nutritional partitioning of potato starches. *Ind. J. Nutr. Dietet.* 46 : 454.
11. Sood, D.R., Akhlesh Pratap Singh, **Shahina Kalim** and Rajat Sood (2010). Electrophoretic protein banding pattern and effect of addition of aroma precursors on stability of aroma during ageing of Basmati Rice genotypes. *Ind. J. Nutr. Dietet.* 47 : 409.
12. Ramesh Chandra, Madhu Kamle, Anju Bajpai, M. Muthukumar and **Shahina Kalim** (2010). *In vitro* selection: A candidate approach for disease resistance breeding in fruit crops. *Asian Journal of Plant Sciences* 9(8) : 437-446.
13. Uttara Chaturvedi, **Shahina Kalim**, Rajiv Kumar, Pradeep Sawant, Sangeeta Tiwari, S.K. Khurana, A.P. Sahoo, Sudesh Palia & Ashok Kumar Tiwari (2010). Cloning and expression of chicken granulocyte-macrophage colony stimulating factor (GM-CSF) gene. *Indian Journal of Experimental Biology* 48 : 1175-1180.
14. Uttara Chaturvedi, **Shahina Kalim**, G. Desai, Barkha Ratta, Rajiv Kumar, P.V. Ravindra, Sudesh Kumar, B.B. Dash, Sangeeta Tiwari, A.P. Sahoo & Ashok K. Tiwari (2011). Development and *in vitro* characterization of a bivalent DNA containing HN and F genes of velogenic Newcastle disease virus. *Indian Journal of Experimental Biology* 49 : 140-145.
15. Madhu Kamle, Anju Bajpai, Ramesh Chandra, **Shahina Kalim** and Ramesh Kumar (2011). Somatic embryogenesis for crop improvement. *GERF Bulletin of Biosciences* 2(1) : 54-59.
16. Madhu Kamle, **Shahina Kalim**, Anju Bajpai, Ramesh Chandra and Ramesh Kumar (2012). *In vitro* selection for wilt resistance in guava (*Psidium guajava* L.) cv. Allahabad Safeda. *Biotechnology* 11(3) : 163-171.

17. Uttara Chaturvedi, **Shahina Kalim**, Lakshya Veer Singh, A. P. Sahoo, S. K. Palia, Rajiv Kumar, G. Ravi Kumar, Sangeeta Tiwari and Ashok K. Twari (2013). Cloning, expression and phylogenetic analysis of IFN- γ gene in chicken. *Indian Journal of Animal Sciences* 83(4) : 398-401.
18. Uttara Chaturvedi, G. Ravi Kumar, G.S. Desai, Sudesh Kumar, **Shahina Kalim**, Aditya P. Sahoo, B.B. Dash, Sangeeta Tiwari, Barkha Ratta, Lakshya Veer Singh and Ashok K. Tiwari (2013). Phylogenetic and pathogenic analysis of Indian isolates of Newcastle disease virus. *Indian Journal of Biotechnology* 12 : 425-428.
19. M. Kamle, P. Kumar, A. Bajpai, **S. Kalim** and R. Chandra (2013). Assessment of genetic fidelity of somatic embryogenesis regenerated guava (*Psidium guajava* L.) plants using DNA-based markers. *New Zealand Journal of Crop and Horticultural Science* <http://dx.doi.org/10.1080/01140671.2013.814574>.
20. D. R. Sood, **Shahina Kalim** and Rajat Sood (2017). Studies on absorption of nutrients using intestinal sacs of rats fed on different diets. *Asian J. Dairy & Food Res*, 36(2) : 166-169. DOI : 10. 18805/ajdfr.v36i02.7964.
21. Tiwari, B., **Kalim, S.**, Bangar, P., Kumar, S., Kumari, R., and Bhat, K.V. (2018). Expression analysis in response to heat stress in moth bean (*Vigna aconitifolia* (Jacq.) Marechal). *Electronic Journal of Plant Breeding* 8(4) : 1293-1297. DOI: 10.5958/0975-928X.2017.00185.5.
22. Tiwari, B., **Kalim, S.**, Bangar, P., Kumari, R., Kumar, S., Gaikwad, A., and Bhat, K.V. (2018). Physiological, biochemical and molecular responses of thermotolerance in moth bean (*Vigna aconitifolia* (Jacq.) Marechal). *Turkish Journal of Agriculture and Forestry* 42(3), 176-184. doi: 10.3906/tar-1709-1.
23. Tiwari, B., **Kalim, S.**, Bangar, P. and Bhat, K.V. (2018). Identification of genes associated with stress tolerance in moth bean (*Vigna aconitifolia* (Jacq.) Marchal), a stress hardy crop. *Physiology and Molecular Biology of Plants* 1-11. doi.org/10.1007/s12298-018-0525-4.

CONFERENCES/SYMPOSIUMS/SEMINARS/WORKSHOPS/REFRESHER COURSE ATTENDED

1. Participated in **Workshop on “Instrumentation in undergraduate experimental chemistry (Part-II Chemistry Experiments)”** at Kirori Mal College, University of Delhi, Delhi, India, October 3-6, 1989.
2. Madhu Kamle, Anju Bajpai, Ramesh Chandra and **Shahina Kalim**, “Culture filtrate based *in-vitro* selection for wilt resistance in guava.” **National Seminar on Biotechnology and Microbiology in human welfare: The Indian scenario** at Mody Institute of Technology and Science, Lakshmangarh, Sikar (Raj), India, September 26-27, 2009.
3. Madhu Kamle, Ramesh Chandra, Anju Bajpai and **Shahina Kalim**, “Fortification of spermidine enhances somatic embryogenesis in *Psidium Guajava* L.” **National Conference on New horizons in Plant Sciences** at Meerut College, Meerut., India, October 23rd & 24th, 2010.

4. Madhu Kamle, **Shahina Kalim**, Anju Bajpai and Ramesh Chandra, “Genetic fidelity testing of the *in vitro* regenerated guava plants using RAPD and ISSR markers” **National Symposium on Integrated farming systems for sustainable Agriculture – Challenges and opportunities** at Bundelkhand University, Jhansi (Uttar Pradesh), India, February 19-21, 2011.
5. Madhu Kamle, Ramesh Chandra, **Shahina Kalim**, Anju Bajpai and Ramesh Kumar, “*In vitro* screening of guava regenerants against *Fusarium* wilt toxin and its characterization” **National Symposium on Advances in Biotechnological Research in Agri-Horticultural crops for sustaining productivity, Quality improvement & food security** at SVBP University of Agriculture and Technology, Meerut (Uttar Pradesh) India, September 14-16, 2011.
6. Uttara Chaturvedi, **Shahina kalim**, Ramesh Kumar, Barkha Ratta, P. V. Ravindra, Sudesh Kumar and Ashok K. Tiwari, “Cloning and expression of F gene in eukaryotic expression vector” **National Symposium on Effective utilization of Translational Research Platforms for Animal Biotechnology** at Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar(B. K.), Gujarat, India in collaboration with Indian Society for Veterinary Immunology & Biotechnology (ISVIB) & Kamdhenu University, Gujarat, India, 12-14 December, 2011.
7. Participated in seven day **Faculty Development Programme** held at Bundelkhand University, Jhansi (Uttar Pradesh) India from 1st to 7th September, 2014.
8. Participated in **National Seminar on “Land Resources: Challenges & Remedies (with special reference to Bundelkhand Region)”** Organized by the Institute of Economics & Finance, Bundelkhand University, Jhansi (Uttar Pradesh) India and State Land Use Board, Government of Uttar Pradesh, Lucknow, India, November 28, 2014.
9. Attended the **Training Workshop** organized by iGroup Infotech India Pvt. Ltd. at Bundelkhand University, Jhansi(Uttar Pradesh) India on 6th December, 2014.
10. Attended the **National Seminar on “Impact of Environmental Pollution on Earth”** Organized by Guru Rupan Shikshan Seva Sansthan Mahavidyalaya, Jalaun Road Orai, India, November 8, 2015.
11. Participated as **Resourse Person in Workshop on “ Role of Biochemistry in Health, Medicine and Agriculture Sector”** organized by Department of Biochemistry, Bundelkhand University, Jhansi (Uttar Pradesh) India, 6th November, 2017.
12. Participated in the 97th National Workshop on Radiochemistry and Applications of Radioisotopes conducted jointly by Department of Atomic Energy(DAE), Board of Research in Nuclear Sciences(BRNS) and Indian Association of Nuclear Chemists and Allied Scientists(IANCAS) & Department of Chemistry, Bundelkhand University at Bundelkhand University, Jhansi (Uttar Pradesh), India, December 04-09, 2017.
13. Participated in Awareness Programme on “Intellectual Property Rights” organized by PHD Chamber of Commerce and Industry, New Delhi and Institute of Biomedical Sciences, Bundelkhand University, Jhansi (Uttar Pradesh), India, September 13, 2018.
14. Participated in National Conference on “Current Scenario and Future Trends in Biotechnology-Biofuturity-2018” organized by Department of Biotechnology Engineering, Institute of Engineering and Technology Bundelkhand University,

Jhansi (Uttar Pradesh), India, March 27th-28th 2018.

15. Attended as Resource Person in the three days Workshop on “Hands on Practical Training in Biochemistry” organized by Department of Biochemistry, Bundelkhand University, Jhansi (Uttar Pradesh), India, 12, 14 & 15th May, 2018.
16. Participated in the National Symposium on Recent Advances in Clinical & Pharmaceutical Sciences jointly organized by Institute of Biomedical Sciences, Innovation Centre & Smt. Vidyawati Group of Institutions Bundelkhand University, Jhansi (Uttar Pradesh), India on 6th July, 2018.
17. Participated in the National Symposium on DNA Technology & Nanotechnology: Will It Change Future of Medical Sciences & NABL Accreditation Awareness Programme jointly organized by Innovation Centre & Institute of Biomedical Sciences, Bundelkhand University, Jhansi in collaboration with Smt. Vidyawati Group of Institution, Jhansi (Uttar Pradesh), India on 1st October 2018.
18. Participated in the Faculty Training Programme on Advance Scientific Research Equipments organized by Innovation Centre, Bundelkhand University, Jhansi (Uttar Pradesh), India during 3rd -6th October, 2018.
19. Participated in the Workshop on : Hands On Training In Basic And Applied Microbiology organized by Department of Microbiology, Bundelkhand University, Jhansi (Uttar Pradesh), India, 5th March 2019.
20. Participated in two days “Molecular Biology Training” organized by Department of Microbiology, Bundelkhand University, Jhansi with collaboration of MRD Life Sciences, Lucknow (Uttar Pradesh), India on 26th-27th November, 2019.
21. Participated in Seven Days Refresher Course on “Implementation of National Education Policy 2020 in Higher Education” organized by Bundelkhand University, Jhansi (Uttar Pradesh), India from 17 March 2021 to 23 March 2021.
22. Participated in Science Mahotsav 2022 organized by Bundelkhand University, Jhansi (Uttar Pradesh), India and Vigyan Bharti, Jhansi (Uttar Pradesh), India from 1 February to 28 February 2022.
23. Attended International Workshop on “ Data Analytics for Entrepreneurship & Business Innovation using R” organized by A Center of Excellence Bundelkhand Entrepreneurship Development Cell Department of Banking, Economics and Finance, Bundelkhand University, Jhansi (Uttar Pradesh), India.