## Suresh Kumar Gahlawat, Ph.D.

### **Professor**

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(https://www.researchgate.net/profile/S\_Gahlawat)

# **Employment Record:**

Designation	Period		Institute
	From	To	
Professor	Dec. 19, 2008	Till date	Ch. Devi Lal University, Sirsa, India
Associate	June 15, 2004	December 18, 2008	CCS Haryana Agricultural University,
Professor			Hisar, India
Assistant	June 15, 1995	June 14, 2004	CCS Haryana Agricultural University,
Professor			Hisar, India
Research	Jan. 22, 1994	June 14, 1995	CCS Haryana Agricultural University,
Associate			Hisar, India

### **Administrative Experience:**

- ➤ Dean Academic Affairs (December 18, 2020 to till date)
- Dean Research (July 04, 2017 June 13, 2019).
- ➤ Dean, Faculty of Life Sciences (December 19, 2008 December 18, 2017).
- Dean Student's Welfare (February 06, 2009 July 03, 2017).
- Dean of Colleges (July 26, 2011- July 03, 2017).
- Director, Community Radio Station (July 04, 2017- September 09, 2018).
- Chairperson, Department of Biotechnology (2008-2011, 2014-2017).
- ➤ Chairperson, Department of Food Science & Technology (2009-2017).
- Chairperson, Department of Energy & Environmental Sciences (2008-2017).

# **Academic Qualifications:**

- ✓ Bachelor of Science (1983-87) from K.U. Kurukshetra, India
- ✓ Master of Science in Zoology (1987-89) from K.U. Kurukshetra, India
- ✓ Master of Philosophy in Zoology (1989-90) from K.U. Kurukshetra, India
- ✓ Doctor of Philosophy in Zoology (1991-1994) from K.U. Kurukshetra, India

# **Awards and Fellowships:**

- ✓ DBT Overseas Associateship awarded by Department of Biotechnology, Government of India for conducting higher research in FRS Marine Laboratory, Aberdeen, UK from March 30, 2007 to March 07, 2008.
- ✓ BOYSCASTS fellowship awarded by Department of Science & Technology, GOI in FRS Marine Laboratory, Aberdeen, UK from March 19, 2003 to March 14, 2004.
- ✓ Awarded Certificate of Commitment by Central Vigilance Commission, Satarkta Bhawan, G.P.O. Complex, INA, New Delhi upon adopting the Integrity Pledge to uphold highest standards of honesty & Integrity and to follow probity and rule of Law in walks of life.
- ✓ National Merit Scholarship by Haryana Board of School Education, Bhiwani on April 24, 1984.

### **Books Published:**

- 1) **Gahlawat, Suresh Kumar** and Maan, Sushila. 2021. Advances in Animal Disease Diagnosis. CRC Press. ISBN 9780367530518 pp. 1-306.
- 2) Sneh Punia, Anil Kumar Siroha, Kawaljit Singh Sandhu, <u>Suresh Kumar Gahlawat</u>, Maninder Kaur 2020. Pearl Millet: Properties, Functionality and its Applications. CRC Press ISBN 9780367354862 pp. 1-174.
- 3) Gahlawat, S.K., Duhan, J. S., Salar, R.K., Siwach, P. and Kumar, S. and Kaur, P. 2018. Advances in Animal Biotechnology and its Applications. Springer, Germany. pp. 1-401. ISBN 978-981-10-4701-5
- 4) <u>Gahlawat, S.K.,</u> Salar, R.K., Siwach, P. and Duhan, J. S., Kumar, S. and Kaur, P. 2017. Plant Biotechnology: Recent Advancements and Developments. Springer, Germany. pp.1-390. ISBN 978-981-10-4732-9.
- 5) Salar, R.K., <u>Gahlawat, S.K.</u>, Siwach, P. and Duhan, J. S. 2013. Biotechnology: Prospects and Applications. Springer, Germany. pp.1-315. ISBN 978-81-322-1682-7.
- 6) Yadava, N.K., Gupta, R.K., <u>Gahlawat, S.K.</u> and Jindal, M. 2009. Management Practices in Fish Farming. Magalam Publications, Delhi. pp. 1-260. ISBN 978-81-907127-7-4.
- 7) Gupta, R.K., <u>Gahlawat, S.K.</u>, Yadava, N.K. and Jain, K.L. 2007. Fundamental Ichthyology. Daya publishing house, New Delhi. pp. 1-174. ISBN 81-7035-445-5.
- 8) <u>Gahlawat, S.K.,</u> Gupta, R.K., Yadava, N.K., Jain, K.L., Sihag, R.C. and V.P.Sabhlok 2007. Manual in Experimental ichthyology. Daya publishing house, New Delhi. pp.1-293. ISBN:81-7035-446-3

### **International laboratories visited:**

- ✓ Marine Laboratory, Aberdeen, UK
- ✓ FRS BBSRC, Pirbright, UK (Reference laboratory and working on exotic viruses)
- ✓ CEFAS, Weymouth, UK (Reference laboratory for IPN and SVC viruses)
- ✓ University of Stirling, UK (Working on DNA vaccines, Real time PCR)
- ✓ Honorary Research Fellow, University of Aberdeen, UK (Working on molecular fish immunology) from January 1, 2004 to March 30, 2004.

## **External research projects completed:**

- ✓ Development of easy and inexpensive Loop-mediated isothermal amplification (LAMP) kit for the detection of bacterial fish pathogens, UGC, New Delhi.
- ✓ Pathology and control of various diseases of fish and shellfish, State Govt., Haryana, India.
- ✓ Survey, Isolation and Identification of bacterial and other pathogenic diseases in fresh water fishes in Haryana, Fisheries Dept., Govt. of Haryana, India.
- ✓ Promotion and development of apiary for improving the productivity of cross-pollinated oilseed crops, ICAR (NATP)

### Research students guided (Ph.D./M.Phil./M.Sc.):

Ph.D. = 06 M.Phil. = 09 M.Sc. = 04

#### **Research Publications:**

- 1. Sneh Punia Bangar, William Scott Whitesidea, Arashdeep Singh, Fatih Özogul, Antima Gupta, Suresh Kumar Gahlawat (2022). Properties, preparation methods, and application of sour starches in the food. Trends in Food Science & Technology. 121: 44-58. https://doi.org/10.1016/j.tifs.2022.01.029.
- 2. Attri, S. and Gahlawat, S. K. (2021). Challenges and Advances in Molecular Diagnosis of Myopathies and Dystrophies in Perspective of Their Use in Developing Countries: Past, Present, and Future. *Neurology India*, 69(4), 797-807.
- 3. Attri, S., Sharma, V., Kumar, A., Verma, C. and Gahlawat, S. K. (2021). Dissecting role of founder mutation p.V727M in GNE in Indian HIBM cohort. Open Medicine 2021(16): 1733–1744.

- 4. Punia, M., Saini, N., Gahlawat, S. K., and Maan, S. (2021). Recombinase Polymerase Amplification: A New Approach for Disease Diagnosis. In *Advances in Animal Disease Diagnosis* (pp. 281-297). CRC Press.
- 5. Dubey, P. K., Dubey, S., Gahlawat, S. K., and Kataria, R. S. (2021). Toll-like Receptors in Livestock Species. In *Advances in Animal Disease Diagnosis* (pp. 49-60). CRC Press.
- 6. Punia, S., Siroha, A.K. Sandhu, K.S., Gahlawat, S.K. and Kaur, M. (2020) Pearl Millet: A drought arrested Crop. In: Pearl Millet: Properties, Functionality and its Applications Eds. Punia, S., Siroha, A.K. Sandhu, K.S., Gahlawat, S.K. and Kaur, M. CRC Press, Taylor & Francis Group. Pp. 1-14 ISBN: 978-0-367-35486-2.
- 7. Kumar, A., Gahlawat, S. K., and Singh, V. (2020). Comparative analysis of *Plasmodium falciparum* dihydrofolate-reductase gene sequences from different regions of India. *Heliyon*, 6(4), e03715.
- 8. Khaiwal Ravindra, Tanbir Singh, Sahil Mor, Vikas Singh, Tuhin KumarMandal, Manpreet Singh Bhatti, <u>Suresh Kumar Gahlawat</u>, Rajesh Dhankhar, Suman Mor, Gufran Beig (2019). Real-time monitoring of air pollutants in seven cities of North India during crop residue burning and their relationship with meteorology and transboundary movement of air. Science of the Total Environment 690: 717–729.
- 9. Saini, N., Thakur A., Kaur P., <u>Gahlawat S.K.</u> (2019). Herbonanoceuticals: A Novel Beginning in Drug Discovery and Therapeutics. In: Prasad R., Kumar V., Kumar M., Choudhary D. (eds) Nanobiotechnology in Bioformulations. Nanotechnology in the Life Sciences. Springer, Cham pp. pp 161-186. Online ISBN: 978-3-030-17061-5.
- 10. Sihag, M., <u>Gahlawat, S.K.</u> and Siwach, P. (2019). Assembly and Annotation of Expressed Sequence Tags (ESTs) for functional analysis of *G. arboretum* Transcriptome. Annals of Biology 35(2): 160-166
- 11. Kumar, S. and <u>Gahlawat, S.K.</u> (2018). Oocyte Cryopreservation: Paradigm in Assisted Reproduction Technology. In: Advances in Animal Biotechnology and its Applications. @Springer Nature, Singapore. 371-382.
- 12. Chaudhary, P. and <u>Gahlawat, S.K.</u> (2018). Biosynthesis, Characterization and Antimicrobial Activity Analysis of Zinc Oxide Nanoparticles Using Leaf Extracts of *Clerodendrum inerme*. IJSN 9 (3):235-243.
- 13. Saini, N., Gahlawat, S.K. and Lather, V. (2017). Flavonoids: A Nutraceutical and Its Role as Anti-inflammatory and Anticancer Agent. In: Plant Biotechnology: Recent Advancements and Developments. Springer, Germany. 255-270.
- 14. Sihag, M., Sethi, K., <u>Gahlawat, S.K.</u> and Siwach, P. (2017). Advances in Computational Tools for Plant microRNA Identification. In: Plant Biotechnology: Recent Advancements and Developments. Springer, Germany. 1-16.
- 15. Kumar, Ajay, <u>Gahlawat, S.K.</u>, Naresh, K. (2016). Biosynthesis of silver nanoparticles using Bifidobacterium bifidum NCDC 229 and evaluation of synergistic effect with penicillin against pathogenic bacteria. I.J.S.N., 7 (3) 614-621.
- 16. Dubey, P.K., Goyal, S., Namita, Mishra, S.K., Gahlawat, S.K., Kataria, R.S. (2016) Differential expression of Toll-like receptor genes (TLR2 and TLR4) across different tissues of riverine buffalo. Indian Journal of Animal Sciences 86 (1):51-54.
- 17. Ghosh K, Selokar NL, <u>Gahlawat, S.K.</u>, Kumar D, Kumar P. and Yadav PS. (2016). Amnion Epithelial Cells of Buffalo (*Bubalus Bubalis*) Term Placenta Expressed Embryonic Stem Cells Markers and Differentiated into Cells of Neurogenic Lineage *In Vitro*. Animal Biotechnology 27 (1): 38–43.
- 18. Jakhar, V., R.C. Sihag, R.C. and <u>Gahlawat, S.K.</u> (2016). Effect of probiotics on immunological status of giant freshwater prawn (Macrobrachium rosenbergii de Man). Indian J. Anim. Res., 50 (6) 930-935.
- 19. Kumar A, Moirangthem R, <u>Gahlawat S.K.</u>, Chandra J, Gupta P, Valecha N, Anvikar A, Singh V (2015). Emergence of sulfadoxine-pyrimethamine resistance in Indian isolates of *Plasmodium falciparum* in the last two decades. *Infect Genet Evol*. 36:190-198.
- 20. Ghosh K, Kumar R, Singh J, <u>Gahlawat S.K.</u>, Kumar D, Selokar NL, Yadav SP, Gulati BR and Yadav PS. (2015). Buffalo (*Bubalus bubalis*) term amniotic,c-membrane-derived cells exhibited mesenchymal stem cells characteristics in vitro. In Vitro Cell Dev Biol Anim. (9):915-21

- 21. Saharan, P., Duhan, J.S. and <u>Gahlawat, S.K.</u> (2015). Detection of *Pseudomonas fluorescens* from broth, water and infected tissues by loop-mediated isothermal amplification (LAMP) method. African J. Biotechnol. 14 (14): 1181-1185.
- 22. Manuja, B K., Manuja, A., Dahiya, R., Singh, S., Sharma, R.C., <u>Gahlawat, S.K.</u> 2014. Diversity of interferon inducible Mx gene in horses and association of variations with susceptibility vis à-vis resistance against equine influenza infection. Infect Genet Evol. 27:142-148.
- 23. Pannu, R., Dahiya, S., Sabhlok, V.P., Kumar, D., Sarsar, V. and <u>Gahlawat, S.K.</u> (2014). Effect of\_probiotics, antibiotics and herbal extracts against fish bacterial pathogens. Ecotoxicol. Environ. Contamy., 13-20.
- 24. Kumar, A., Duhan, J.S., Surekha and <u>Gahlawat, S.K.</u> (2014). Production of ethanol from tuberous plant (sweet potato) using *Saccharomyces cerevisiae* MTCC-170. African J. Biotechnol 13 (28): 2874-2883.
- 25. Saharan, P., Dingolia, S., Khatri, P. Duhan, J.S. and Gahlawat, S.K. (2014). Loop-mediated isothermal amplification (LAMP) based detection of bacteria: A Review. African J. Biotechnol. 13 (19): 1920-1928.
- 26. Bansal, P., Duhan, J.S. and <u>Gahlawat, S.K.</u> (2014). Biogenesis of nanoparticles. African J. Biotechnology 13 (28): 2778-2785.
- 27. Jakhar, V., Sihag, R.C. and <u>Gahlawat, S.K.</u> (2013). Survey and characterization of diseases in giant freshwater prawn (*Macrobrachium rosenbergii* de man) in Haryana. Indian Journal of Animal Research 47(6): 479-485.
- 28. Jakhar, V., Sihag, R.C. and <u>Gahlawat, S.K.</u> (2013). Effect of probiotics on growth and survival of giant freshwater prawn (Macrobrachium rosenbergii de Man). Research on Crops 14 (4):1264-1268.
- 29. Saharan, P., Khatri, P., Dingolia, S., Duhan, J.S. and <u>Gahlawat, S.K.</u> (2013). Rapid detection of viruses using Loop—Mediated isothermal amplification (LAMP): A Review. In: Biotechnology: Prospects and Applications. Springer, Germany 287-306.
- 30. Duhan, J.S., Nehra, K., <u>Gahlawat, S.K.</u>, Saharan, P. and Surekha (2013). Bacteriocins from Lactic Acid Bacteria. In: Biotechnology: Prospects and Applications. Springer, Germany. pp.127-142. ISBN 978-81-322-1682-7.
- 31. Kumar, S., Gautam, S. K. and <u>Gahlawat, S. K.</u> (2013) Cryobiological effects of cryoprotectants on morphology of cumulus oocyte complexes (COCs) of sheep using vitrification. International Journal of Animal Biotechnology 3: 14-18. ISSN: 2277 –4122
- 32. Dubey, P. K., Goyal, S., Kathiravan, P., Mishra, B.P., <u>Gahlawat, S. K.</u> and R.S. Kataria. (2013). Sequence characterization of river buffalo Toll-like receptor (TLR) genes 1-10 reveals distinct relationship with cattle and sheep. *International Journal of Immunogenetics* 40: 140-148.
- 33. Banerjee, P., <u>Gahlawat, S.K.</u>, Joshi, J., Sharma, U., Vijh, R.K. 2013. Sequence, Expression and Phylogenetic Analysis of Immune Response Genes Related to Mastitis in Buffaloes. *Int. J . Anim. Veter. Adv.*, 5(4): 130-142.
- 34. Sharma, P., Sihag, R.C. and <u>Gahlawat, S.K.</u> 2013. Effect of probiotics on haematological parameters of diseased fish (Cirrihinus mrigal). J Fisheries Sciences.com, 7(4): 323-328.
- 35. Sharma, P., Sihag, R.C. and <u>Gahlawat, S.K.</u> (2013). Relative efficacy of two probiotics in controlling the Epizootic Ulcerative Syndrome Disease in Mrigal (*Cirrhinus mrigala Ham.*). *J. Fish. Aqua. Sci.* 8(2): 305-322.
- 36. Chadda, B. S. Rohilla, S. K. Salar, R. K. and <u>Gahlawat, S.K.</u> (2012). Isolation and evaluation of *Aspergillus niger* in decolorization of reactive textile dyes. Energy-Water-Waste Nexus for Environmental Managemen t (Eds. Devi, R; Kidwai, M.K.; Rose, P.K.; Saran, A.K.): 185-188 (Narosa Publishing House Pvt. Ltd., New Delhi, ISBN: 978-81-8487-206-4).
- 37. Verma, R.K., Yadav, P.K. and <u>Gahlawat, S.K.</u> 2012. Detection and identification of genetic diversity among fish pathogens using 16S-rRNA primers. Annals of Biology, 28 (2): 121-124.
- 38. Banerjee, P., <u>Gahlawat, S.K.</u>, Joshi, J., Sharma, U., Tantia, M.S., Vijh, R.K. 2012. Sequencing, Characterization and Phylogenetic analysis of TLR genes of *Bubalus bubalis*. *DHR-IJBLS*, 13(1): 137-159,
- 39. Saharan, P., Duhan, J.S., <u>Gahlawat. S.K.</u> and Surekha. (2012). Antioxidant potential of various extract s o f stem of Thuja orientalis: in vitro study. *Int. J. Applied Biol. Pharmaceutical Technology* 3 (4): 264-271.

- 40. Dubey, P.K., S. Goyal, J. Aggarwal, <u>Gahlawat, S.K.</u> P. Kathiravan, B.P. Mishra and R.S. Kataria 2012. Sequence and topological characterization of Toll-like receptor 8 gene of Indian riverine buffalo (Bubalus bubalis). *Tropical Animal Health and Production*. 45(1):91-99.
- 41. Lester, K., Hall, Mc., Urguhart, K., <u>Gahlawat, S.K.</u> and Collet, B. 2012. Development of an in vitro syst em to measure the sensitivity to the antiviral Mx protein of fish viruses. *J. Virol. Methods*. 182 (1-2): 1-8
- 42. Namdhari, B.S., Rohilla, S.K., Salar, R.K., <u>Gahlawat, S.K.</u>, Bansal, P. and Saran, A.K. (2012). Decolourization of reactive Blue MR using Aspergillus species isolated from textile waste water. ISCA J. Biological Sciences. 1 (1): 24-29.
- 43. Dubey, P.K. S. Goyal, J. Aggarwal, <u>Gahlawat, S.K.,</u> P. Kathiravan, B.P. Mishra and R.S. Kataria. 2012. Development of tetra primers ARMS-PCR assay for the detection of A1551G polymorphism in TLR8 gene of riverine buffalo. *Journal of Applied Animal Research*. 40: 17-19
- 44. Dahiya, T., <u>Gahlawat, S.K.</u> and Sihag, R.C.(2012). Elimination of Pathogenic Bacterium (*Micrococcus* sp.) by the Use of Probiotics. *Turkish Journal of Fisheries and Aquatic Sciences* 12:185-187.
- 45. Dahiya, T., Sihag, R. C. and <u>Gahlawat, S. K.</u> (2012). Effect of probiotics on the haematological parameters of Indian Magur (*Clarius batrachus* L.). *J. Fish. Aqua. Sci.* 7 (4): 279-290.
- 46. Shashank, Gahlawat S.K., Sabhlok V.P., Bansal Nitish and Sharma Kavita. 2011. Enhancement of disease resistance, growth performance and survival in *Cirrhinus mrigala* on administering probiotic strain *L. acidophilus*. The Biosphere. 3(1): 20-26. ISSN-0975-3877.
- 47. Shashank, <u>Gahlawat S.K.</u>, Sabhlok V.P., Bansal Nitish and Sharma Kavita. 2011. Antimicrobial activity of probiotic strain *B. subtilis* against fish bacterial pathogens. The Biosphere. 3(1): 15-19.
- 48. Jakhar, V., <u>Gahlawat, S.K.</u> and Sihag, R.C.(2010a). A new report of bacterial necrosis disease in freshwater prawn (Macrobrachium rosenbergii (de Man)) in Haryana. The Ecosphere,1(1): 27-30.
- 49. Jakhar V., Gahlawat S.K. and Sihag R.C. (2010b). Methodology for the isolation and identification of bacterial pathogens. *The Ecosphere*, 1(1), 57-69.
- 50. Jakhar, V., <u>Gahlawat,S.K.</u> & Sihag, R.C.(2010c). Review article on bacterial diseases in freshwater prawn, *Macrobrachium rosenbergii*. *The Ecotech*, 2 (1):39-45.
- 51. Jakhar, V., <u>Gahlawat, S.K.</u> & Sihag, R.C. (2010d). Isolation and characterization of coccus shaped bacteria causing tailrot disease in freshwater prawn, *Macrobrachium rosenbergii* (de Man) in Haryana, India . *The Ecotech*, 2 (1) ,49-53.
- 52. Saini, V.K., Sihag, R.C., Sharma, R.C., <u>Gahlawat, S.K.</u> and Gupta, R.K. 2010. Relative efficacy of two species of earthworms in biodegradation of organic wastes under semi-arid subtropical conditions of North -West India. *World Review of Science, Technology and Sust. Development*. 7 (3): 259-270
- 53. <u>Gahlawat S.K</u>, Ellis AE and Collet B. 2009. A sensitive Loop-mediated isothermal amplification (LAMP) method for detection of *Renibacterium salmoninarum*, causative agent of Bacterial Kidney Disease in salmonids. *J. Fish Dis.* 32:491-497.
- 54. <u>Gahlawat, S.K.,</u> Ellis, A.E. Collet, B. 2009. Expression of interferon and interferon Induced genes in Atlantic salmon Salmo salar cell lines SHK-1 and TO following infection with Salmon AlphaVirus SAV. *Fish & Shellfish Immunol*. 26: 672-675.
- 55. Saini, V.K., Sihag, R.C., Sharma, R.C., <u>Gahlawat, S.K.</u> and Gupta, R.K. (2008a). Relative efficacy of two methods of vermicomposting for bio-degradation of organic wastes. *International Journal of Environment and Waste Management*. 2: 102-110.
- 56. Saini, V.K., Sihag, R.C., Sharma, R.C., <u>Gahlawat, S.K.</u> and Gupta, R.K. (2008b). Biodegradation of water hyacinth, sugarcane bagasse and rice husk through vermicomposting. *International Journal of Environment and Waste Management*. 2 (6): 601-609.
- 57. Collet, B., Munro, E.S., <u>Gahlawat, S.K.</u>, Acosta, F., Garcia, J., Roemelt, C., Zou, J., Secombes, C. J., Ellis. A.E. 2007. Infectious pancreatic necrosis virus suppresses type I interferon signalling in rainbow trout gonad cell line but not in Atlantic salmon macrophages. *Fish & Shellfish Immunol*. 22: 44-56.
- 58. Parvati Sharma, <u>Gahlawat, S.K.</u>, Mamta Chauhan and R.C. Sihag. 2007. Induction of Mx gene expression in the Indian major carp, rohu (*Labeo rohita* Linnaeus). Ind. J. Fish. 54 (3): 321-26.

- 59. Gupta, R.K., Jain, K.L., <u>Gahlawat, S.K.</u> and Yadava, N.K.. 2007. Heavy metal pollution in fresh water and its impact on fisheries. In: *Perspective in animal ecology and reproduction* Vol. IV Eds. V.K. Gupta and Anil K. Verma. Daya publishing house, New Delhi. pp. 146-157.
- 60. Gupta, R.K., Yadava, N.K., <u>Gahlawat, S.K.</u>, Jain, K.L. and Burman, A.S. 2007. Ectoparasitic diseases in fresh water fishes and their control. In: *Perspective in animal ecology and reproduction* Vol. IV Ed s. V.K. Gupta and Anil K. Verma. Daya publishing house, New Delhi. pp. 180 191
- 61. <u>Gahlawat, S.K.</u>, Gupta, R.K., Sihag, R.C. and Gupta, R.C. 2007. Quantitative behavioural observations on Rhesus monkey, *Macaca mulatta* (Zimmermann). In: *Perspective in animal ecology and reproducti on* Vo I. IV Eds. V.K. Gupta and Anil K. Verma. Daya publishing house, New Delhi. 299-303.
- 62. <u>Gahlawat, S.K.</u> 2006. A new approach in fish virology and its impact analysis in aquaculture. In: 21<sup>st</sup> National symposium on "Recent advances in life sciences and environmental conservation in welfare of human society" held at Department of Zoology, K.U., Kurukshetra from February 3-5, 66-67.
- 63. Verma, R.K., Jakhar, V. and <u>Gahlawat, S.K.</u> 2006. Epizootic ulcerative syndrome in freshwater fishes in Haryana. In: 21<sup>st</sup> National symposium on "Recent advances in life sciences and environmental conservation in welfare of human society" held at Department of Zoolo gy, K.U., Kurukshetra from February 3-5, 67-68.
- 64. Munro, E.S., <u>Gahlawat, S.K.</u>, Acosta, F., Ellis, A.E. 2006. In infectious pancreatic necrosis virus carrier Atlantic salmon, *Salmo salar* L., post-smolts, almost all kidney macrophages ex vivo contain a low level of non-replicating virus. *J Fish Dis.* 29: 43-48.
- 65. <u>Gahlawat, S.K.</u>, Chhabra, B., Jain, K.L., Gupta, R.K., Dhillon, M. and Sihag, R.C. 2006. A review on the honey: A By-product of bees (Insecta: Hymenoptera). Nutritional and medicinal aspects. In: *Perspective in animal ecology and reproduction* Vol. III Eds. V.K. Gupta and Anil K. Verma. Daya publishing house, New Delhi. pp. 102-126.
- 66. <u>Gahlawat, S.K.</u>, Gupta, R.K., Sihag, R.C. and Yadava, N.K. 2006. Latest scenario of fish diseases in India. In: *Perspective in animal ecology and reproduction* Vol. III Eds. V.K. Gupta and Anil K. Verma. Daya publishing house, New Delhi. pp. 134-143.
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- 68. <u>Gahlawat, S.K.</u>, Gupta, R.K., and Gupta, R.C. 2004. Ecological and behavioural studies on Rhesus monkey, Macaca mulatta (Zimmermann)- A review. In: Perspectives in Animal Ecology and Reproduction Vol.2. Eds. V.K. Gupta and Anil K. Verma. Daya publishing house, New Delhi. 169-200. ISBN: 9788170353225
- 69. Munro, E. S., <u>Gahlawat, S.K.</u>, Ellis, A. E. 2004. A sensitive non-destructive method for detecting IPNV carrier Atlantic salmon by culture of virus from plastic adherent blood leucocytes. *J. Fish Dis.* 27: 129-134.
- 70. <u>Gahlawat, S.K.</u>, Munro, E. S., Ellis, A. E. 2004. A non-destructive test for detection of IPNV-carriers in Atlantic halibut. *J. Fish Dis.* 27: 233-239.
- 71. Acosta, F., Lockhart, K., <u>Gahlawat, S.K.</u>, Real, F., Ellis, A.E. 2004. Mx expression in Atlantic salmon (*Salmo salar* L.) parr in response to *Listonella anguillarum*. Effect of temperature on the kinetics of Mx responses. *Fish & Shellfish Immunol* . 17: 255-263.
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- 89. Gupta, R.C. and <u>Gahlawat, S.K.</u>, (1993). On troop size and composition of Rhesus monkey, *Macaca mulatta* in Haryana. *J. Natcon.* 5(2): 111-114.
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### **Practical Manuals Published:**

- 1) Rachna Gulati., V.P. Sabhlok; Sihag, R.C.; Jain, K.L., Yadava, N.K; Gupta, R.K and <u>Gahlawat</u>, <u>S.K.</u> 2008. Introductory Zoology. Department of Zoology and Aquaculture, CCS Haryana Agricultural University, Hisar pp.1-104 (published from ICAR Development Assistance).
- 2) Gupta, R.K., V.P. Sabhlok; Sihag, R.C; Jain, K.L., Yadava, N.K; Rachna Gulati and <u>Gahlawat</u>, <u>S.K.</u> 2008. Manual of Aquatic and Fish Toxicology. Department of Zoology and Aquaculture, CCS Haryana Agricultural University, Hisar. pp.1-142 (published from ICAR Development Assistance).
- 3) Sihag, R.C., V.P. Sabhlok, Gupta, R.K., Jain, K.L., Yadava, N.K; Rachna Gulati and <u>Gahlawat</u>, <u>S.K.</u> 2008. Manual of Experimental Vermiculture. Department of Zoology and Aquaculture, CCS Haryana Agricultural University, Hisar pp.1-190. (published from ICAR Development Assistance).

- 4) <u>Gahlawat, S.K.</u> and Sihag, R.C. 2005. Fish biotechnology (Laboratory Manual). Department of Zoology and Aquaculture, CCS Haryana Agricultural University, Hisar (published from ICAR Development Assistance). pp.1-91.
- 5) Yadava, N.K., Gupta, R.K., Jain, K.L., <u>Gahlawat, S.K.</u> and Sihag, R.C. 2004. Manual of experimental fisheries, Department of Zoology and Aquaculture, CCS Haryana Agricultural University, Hisar (publish ed from ICAR Development Assistance). pp.1-101
- 6) Gupta, R.K., <u>Gahlawat, S.K.</u>, Jain, K.L., Yadava, N.K. and Sihag, R.C., 2005. Techniques in water analysis (Laboratory Manual). Department of Zoology and Aquaculture, CCS Haryana Agricultural University, Hisar (published from ICAR Development Assistance). pp.1-104.

## **Member:**

Member nominated by Principal Secretary to Govt. of Haryana, Higher Education Department, Chandigarh to study and examine the First Statutes of universities established under section 30 (2) of Haryana Private Universities Act, 2006.

- ✓ SGGS Tricentenary University, Gurgaon, Haryana
- ✓ MVN University, Palwal, Faridabad
- ✓ G.D. Goenka University, Sohna Road, Gurgaon
- ✓ Jaggannath University, Jhajjar
- ✓ K.R. Mangalam University
- ✓ Manav Rachna University

## **Participation in Academic Activities:**

Actively participated into different academic activities conducted by University and Government of India

# Organized Summer school/Workshop/Conference:

- Summer school on Development of sustainable Aquaculture technology in fresh and saline waters held at Department of Zoology & aquaculture, CCSHAU, Hisar from June 14 to July 4, 2005 as Course Co-coordinator.
- Organized UGC funded National Workshop on Basic techniques in Biotechnology, Food Technology and Bio-informatics From June 15-28, 2011 as Director.
- Organized National workshop on Patent awareness: Issues and Challenges organized by Department of Biotechnology, Ch. Devi Lal University, Sirsa and sponsored by Patent Information Centre, Hisar, Haryana State Council for Science & Technology, TIFAC, DST, Government of India, New Delhi on 10<sup>th</sup> August 2011 as Nodal Officer.
- Organized one day health camp on 14.03.2011 in the campus and more than 300 students participated in this activity.
- Organized one day HIV/AIDS awareness campaign on 24.03.2011.
- Organized HIV/AIDS awareness campaign from 23.2.2012 to 25.2.2012 in Hostels and main campus, sponsored by Haryana AIDS Control Society, Panchkula.
- Organized Environmental Friendly Holi on 1.3.2012 in Association with Energy &
  Environmental Sciences and Dainik Bhaskar, Sirsa to create awareness among students.
   Organized International Conference on Biotechnology: Emerging Trends (ICB-2012) in the
  Department of Biotechnology, Ch. Devi Lal University, Sirsa from Sept. 18-20, 2012 as
  Conference Chair.
- Organized National Conference on Biotechnology: Emerging Trends (NCB-2016) in the Department of Biotechnology, Ch. Devi Lal University, Sirsa from February 11-12, 2016 as convener.
- Organized HIV/AIDS awareness campaign for Girls and Boys on March 1 & 2, 2016, respectively as Dean Student's Welfare.
- Organized One day Patent awareness workshop on 08.03.2016 in the Department of Biotechnology as Nodal Officer, IPR cell.
- Organized One Day National workshop on IPR on 21.03.2017 at Auditorium, MP Hall, CDLU, Sirsa

 Organized a lecture on Bio Hydrogen production from the food waste by Prof Tashyrev Oleksandr [Borysovych] from Zabolotny Institute of Microbiology and Virology, Department of Extremophilic Microorganisms Biology, Ukraine on 15.09.2016.

## Workshops/Trainings attended:

- ➤ Leadership for Academician Programme (LeAP-2019)" at AMU, Aligarh and Monash University, Melbourne, Australia from February 15 to 22, 2020 under MHRD initiative.
- ➤ Short Term Course on Administrative and Academic Initiatives, Organized by Academic Staff College, GNDU, Amritsar from December 15 to 17, 2010.
- ➤ Winter school on Recent Advances in Diagnosis and Management of Disease in Mariculture, Organized by Central Marine Fisheries Research Institute, Kochi from November 7-27, 2002.
- ➤ In service training programme in Molecular Biology & Bioinformatics for ☐ Fisheries Scientists, Organized by Centre for DNA Fingerprinting and Diagnostics, Hyderabad from May 13 22, 2002.
- ➤ Mites and their identification and Management, Organized by Department of Entomology, CCS HAU, Hisar from Dec. 1-21,2001.
- ➤ Computer education for Agricultural Scientists, Organized by AAREM, CCS HAU, Hisar from 24. 2. 99 to 23. 3. 99.
- Induction training course, Organized by AAREM, CCS HAU, Hisar from 19. 2.
- > 96 to 20. 3. 96

# Seminar/ Symposia/ Workshop/Conference attended:

- ✓ 79<sup>th</sup> Indian Science Congress held at Baroda from Jan. 1-3, 1992.
- ✓ 4<sup>th</sup> All India Conference on Cytology & Genetics, held at Bangalore from November 5-7, 1992.
- ✓ 8<sup>th</sup> All India Congress on Cytology & Genetics, held at Behrampur from October 15-18, 1993.
- ✓ 5<sup>th</sup> All India Conference on Cytology & Genetics, held at K.U., Kurukshetra from Sept. 26 -28, 1994.
- ✓ Workshop on the strategy for the development of fisheries in Haryana on March 17, 2004 at Aquaculture Research & Training Institute, Hisar, Department of Fisheries, Haryana Goyt.
- ✓ National workshop on rational use of water resources for aquaculture at CCSHAU, Hisar from March 18-19, 2004.
- ✓ Workshop on "Issues facing for prawn farming in Haryana" held at Aquaculture Research & Training Institute, Hisar, Department of Fisheries, Haryana Govt. from Oct. 26-27, 2004.
- ✓ 7<sup>th</sup> International Symposium on vectors & vector Borne Diseases held at Punjabi University, Patiala, India from February 18-20, 2005.
- ✓ National Workshop on Culture of Cat Fishes and Murrels held at ARTI, Hisar from Nov. 25-26, 2005
- ✓ 21<sup>st</sup> National symposium on "Recent advances in life sciences and environmental conservation in welfare of human society" held at Department of Zoology, Kurukshetra University, Kurukshetra from Feb. 3-5, 2006.
- ✓ National Congress of Entomology held at Department of Zoology, Punjabi University, Patiala from March 15-17, 2006.
- ✓ Attended one day workshop on Biotechnology and IPR on 18.03.2010 at CPB Hisar.
- ✓ Attended National Conference on Medical Biotechnology-Vision 2020 held at Advance Centre for Biotechnology, MDU Rohtak from April 16-18, 2010 and Co-Chaired the session.
- ✓ Attended Short Term Course on Administrative and Academic Initiatives from December 15 to 17, 2010 in Academic staff College, GNDU, Amritsar.
- ✓ Chaired the technical session in National seminar on Environmental degradation: Issues and Remed ies held at D.N. P.G. College, Hisar on 11.02.2011.
- ✓ Chaired the technical session in National seminar on Current trends in Pharmaceutical Education and Research held at Jan nayak Ch. Devi Lal memorial College of Pharmacy, Sirsa on 12.03.2011.
- ✓ Attended and presented a paper on Biodiversity Informatics: A New approach to study Biodiversity in National conference on Global warming and its impact on Biodiversity held at GMN College, Ambala Cantt. from Nov 8-9, 2011.

- ✓ Organized International Conference on Biotechnology: Emerging Trends from September 18-20, 2012 in the department of Biotechnology, CDLU, Sirsa as Conference Chair.
- ✓ Chaired the technical session and delivered an invited talk on Loop mediated isothermal amplificat io n method-a novel technique for detection of pathogens in National symposium on Biotechnology: Present Status and Future Prospects organized by Department of Biotechnology, DCRUST, Murthal from March 14 to 18, 2013.
- ✓ Delivered a lecture on "Drug Abuse" on 30.05.2016 in a seminar organized by Haryana Human Rights Commission, Chandigarh held at Ch. Devi Lal University, Sirsa.
- ✓ Delivered a lecture on Drug Abuse on 28.09.2016 organized by Dean Students' Welfare, NSS & YRC, CDLU, Sirsa.
- ✓ Delivered a lecture on Drug Abuse in the auditorium of Vivekanand Senior Secondary School on 30.09.2016 organized by CJM-cum-Secretary, District Legal Services Authority, Sirsa.
- ✓ Participated as Guest of Honor in 3<sup>rd</sup> Annual Conference on Current Scenario and Challenges in Industrial-Academia interaction in Pharmaceutical sector organized by JCDM College of Pharmacy, Sirsa & APTI-Haryana on 11.11.2016.
- ✓ Delivered an invited talk on Role of Co-Curricular Activities in Quality Enhancement at National Seminar on Quality Initiative and Best Practices in Higher Education Institutes of Rural Area sponsored by NNAC and organized by Gobindgarh Public College, Alour, Khanna (Ludhiana) in 28.12.2016.
- ✓ Delivered an invited lecture on Foodborne pathogens: Detection by molecular techniques on 04.03.2017 in National Conference on Food Processing India 2017, Organized by Department of Food Technology, GJUS&T, Hisar from March 03 to 04, 2017.

## **Invited/ Expert lectures delivered:**

- 1. Economics of beekeeping. In: Advances in Apiculture, organized by Centre of advanced studies, Department of Zoology & aquaculture, CCSHAU, Hisar on 17.02.2001.
- 2. Imparted training on beekeeping at RRS Bawal from March 13-19, 2002.
- 3. Fish disease prevalent in Haryana. In: Workshop on Strategy for the development of fisheries in Haryana on March 17, 2004 at Aquaculture Research & Training Institute, Hisar, Department of Fisheries, Haryana Govt.
- 4. Fish health management. In: Summer school on Development of sustainable aquaculture technology in fresh and saline waters held at Department of Zoology & aquaculture, CCSHAU, Hisar from June 14 to July 4, 2005.
- 5. Enemies of honeybees and their management. In: Advances in management of honeybees, held at Department of Entomology, CCSHAU, Hisar from March 28 to April 12, 2005.
- 6. Control of viral and bacterial diseases of brooders as well as spawn to fry. In: Workshop on Modern technology on induced breeding to enhance fish seed production on 31.05.2005, held at Aquaculture Research & Training Institute, Hisar, Department of Fisheries, Haryana Govt. from 23.05.2005 to 3.06.2005.
- 7. Diseases in cat fishes and murrels. In: National Workshop on Culture of Cat Fishes and Murrels held at ARTI, Hisar from Nov. 25-26, 2005.
- 8. biotechnology in relation to viral diseases. In: Winter school on application of Genomics, Mo lecular markers and Transformation Tools for crop improvement held at Biotechnology and Molecular Biology Department, CCSHAU, Hisar from Dec. 1-21, 2005.
- 9. A new approach in fish virology and its impact analysis in aquaculture. In: 21st National symposium on "Recent advances in life sciences and environmental conservation in welfare of human society" held at Department of Zoology, Kurukshetra University, Kurukshetra from February 3-5, 2006.
- 10. Artificial feeding in honeybees. In: Honeybee training at CCSHAU, Hisar from March 21-25, 2006.
- 11. Fish and shellfish diseases and their control. In: Refresher course of Gazetted officers on "Administrative management and modern technology and diversification in aquaculture" held at ARTI, Hisar from Sept. 18-22, 2006.
- 12. Fish health management in catfish. In: Workshop on "Prospects of catfish and ornamental fish culture in Haryana" held at ARTI, Hisar on May 12, 2008.

- 13. Delivered two lectures on Biodiversity Informatics on dated 12.02.2010 in Orientation Course held at Academic Staff College, GJUS&T, Hisar.
- 14. Delivered two lectures on Biodiversity Informatics on dated 02.06.2010 in Orientation Course held at Academic Staff College, GJUS&T, Hisar.
- 15. Delivered two lectures on Biodiversity Informatics on dated 22.06.2010 and 10.07.2010 in refresher course on Information technology held at BPS Mahila Vishwavidayalaya Khanpur, Kalan (Sonepat).
- 16. Delivered two lectures on Biodiversity Informatics on dated 10.07.2010 in Orientation Course in Academic Staff College, BPS Mahila Vishwavidayalaya Khanpur Kalan (Sonepat).
- 17. Chaired the technical session in National seminar on Environmental degradation: Issues and Remedies held at D.N. P.G. College, Hisar on 11.02.2011.
- 18. Chaired the technical session in National seminar on Current trends in Pharmaceutical Education and Research held at Jan nayak Ch. Devi Lal memorial College of Pharmacy, Sirsa on 12.03.2011.
- 19. Delivered invited talk on Role of Biotechnology in Pharmaceutical Education and Research in National seminar on Current trends in Pharmaceutical Education and Research held at Jan nayak Ch. Devi Lal memorial College of Pharmacy, Sirsa on 12.03.2011.
- 20. Delivered invited talk on Role of Biotechnology in general life and human welfare held at Dhronacharya PG Govt. College Gurgaon on 25.03.2011.
- 21. Delivered two lectures on Biodiversity Informatics in Refresher course (SAP DRS I) in Academic Staff College, GJUS&T, Hisar on dated 24.12.2011.
- 22. Delivered two lectures on Biodiversity Informatics on dated 16.01.2012 in Orientation Course in Academic Staff College, BPS Mahila Vishwavidayalaya Khanpur Kalan (Sonepat).
- 23. Delivered two lectures on Loop mediated isothermal amplification method and demonstrated this technique in 5th DBT short term Hands-on Training Workshop on Methods in Molecular Analysis of Complex Diseases on March 3-4, 2012 at Centre for Genomics & School of Studies, Jiwaji University, Gwalior (M.P.) sponsored by Department of Biotechnology, Ministry of Science & Technology, Govt. of India. pp 99-103.
- 24. Delivered two lectures on Loop mediated isothermal amplification method and demonstrated this technique in 5th DBT short term Hands-on Training Workshop on Methods in Molecular Analysis of Complex Diseases on March 3-4, 2012 at Centre for Genomics & School of Studies, Jiwaji University, Gwalior (M.P.) sponsored by Department of Biotechnology, Ministry of Science & Technology, Govt. of India. pp 99-103.
- 25. Delivered an Invited lecture on Loop mediated isothermal amplification method-a novel technique for detection of pathogens in National symposium on Biotechnology: Present Status and Future Prospects organized by the Department of Biotechnology, DCRUST, Murthal from March 15 to 16, 2013.
- 26. Delivered Invited Lecture on role of Bioinformatics in Biotechnology and Biodiversity at Department of Bioinformatics, MDU, Rohtak on 14.11.2014.
- 27. Delivered two lectures on Biodiversity Informatics in Orientation course in Academic Staff College, GJUS&T, Hisar on dated 26.04.2014.
- 28. Delivered two lectures on Biodiversity Informatics in Orientation course in Academic Staff College, GJUS&T, Hisar on dated 31.05.2014.
- 29. Delivered two lectures on Biodiversity Informatics in Refresher course in Academic Staff College, K.U. Kurukshetra on dated 16.06.2014.
- 30. Delivered two lectures on Managing Biodiversity to avoid Biological Disaster on 03.12.2014 in UGC sponsored Special Winter School on Disaster Management organized by Academic Staff College, GJU S&T, Hisar
- 31. Delivered lecture on Biotechnology and its applications in day to day life in Orientation course in Academic Staff College, GJU S&T, Hisar on dated 30.04.2015.
- 32. Delivered lecture on Biodiversity Informatics in Orientation course in Academic Staff College, GJU S&T, Hisar on dated 30.04.2015.
- 33. Organized One Day workshop on Digital India as Convener (DSW -cum-Chairman, NSS), sponsored by Ministry of Electronics and Communications, New Delhi on 18.10.2016 at CDLU, Sirsa and delivered a lecture on digital India.

- 34. Delivered an invited talk on Role of Co-Curricular Activities in Quality Enhancement at National Seminar on Quality Initiative and Best Practices in Higher Education Institutes of Rural Area sponsored by NAAC and organized by Gobindgarh Public College, Alour, Khanna (Ludhiana) in 28.12.2016.
- 35. Delivered a lecture on "Importance of Chemistry in Biotechnology" in 62nd Refresher Course of Chemistry, organized by IGC-Human Resource Development Centre, Punjabi University, Patiala on 02.10.2017.

# Gene sequences in GenBank

Several gene sequences/SNPs have been submitted to GenBank, NCBI, USA. (http://www.ncbi.nlm.nih.gov).

Above mentioned information is true as per my knowledge and belief.

Place: Sirsa, India (S. K. Gahlawat)