

Resume of

Dr. Balwant Singh

Introduction

Dr. Balwant Singh earned Ph.D. degree in Biochemistry from G.B. Pant University of Agriculture & Technology, Pant Nagar, Udham Singh Nagar, Uttarakhand, India in 2009. He is Assistant Professor in the Department of Chemistry, C.B.S.H., G.B. Pant University of Agriculture & Technology Pant Nagar, Uttarakhand, India since 2015.



Field of Interest:

- Biochemical analysis in blood, serum and other human and animal body fluids.
- Molecular Typing of Microbes in potable water, food items and vegetation.
- Correlate the more and more Chemistry applications to Biochemistry, Microbiology, and Biotechnology and Plant physiology.
- Analysis of impact of Microbes on Environmental aspects.
- Collaboration of department to industrial aspects.

Nationality: Indian

Date of Birth: 04-10-1971

Official Address:

Department of Chemistry, College of Basic Sciences and Humanities, G.B Pant University of Agriculture & Technology Pant Nagar, Udham Singh Nagar, Uttarakhand-263 145 India.

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Academic Background:

B.Sc. (1994) with Physics, Chemistry, Mathematics from Ch. Charan Singh University Meerut, India, **Second Division.**

M.Sc. (1998), with **Organic Chemistry** from Ch. Charan Singh University Meerut, India.

First Division.

Ph.D. (2009) from Department of Biochemistry, College of Basic Sciences and Humanities, G.B Pant University of Agriculture & Technology Pant Nagar, Udham Singh Nagar, Uttarakhand, India on the thesis entitled *“Molecular Typing OF Salmonella isolated from Gangetic water.”*

Positions Held

2000-2011: Technician (Lab), Department of Biochemistry at College of Veterinary and Animal Science, G.B Pant University of Agriculture & Technology Pant Nagar, Uttarakhand-263 145 India.

Sept 2011-feb 2012: **Lecturer (Chemistry)**, Govt. Inter College, Thal, District-Pithoragarh, Uttarakhand, India.

Feb 2012-Nov 2015: Technician (lab), Department of Bio Chemistry at College of Veterinary and Animal Science, G.B Pant University of Agriculture & Technology Pant Nagar, Uttarakhand-263 145 India.

Nov 2015-Today: **Assistant Professor (Chemistry)** in the Department of Chemistry, C.B.S.H., G.B. Pant University of Agriculture & Technology Pant Nagar, Uttarakhand, India

Professional Experience

Trainings/Workshops Attended

1. Research Methodology and Design of Experiments, College of Technology GBPUA&T Pantnagar, Jan 12-18 2015.

2. Transmission Electron Micrograph (TEM): Description and interpretation, College of Veterinary and Animal Science GBPUA&T Pantnagar, Nov 14 2014.
3. Sensitization Workshop on" Biosafety issues related to practicing Agricultural Biotechnology" Department of MBGE, C.B.S.H. GBPUA&T Pant Nagar, Nov 03-04 2008.
4. Industry Academia Coordination Workshop (IACW), KGCCI,UCOST and CBSH GBPUA&T Pantnagar GBPUA&T Pantnagar, Nov 15 2008.
5. Computer Literacy Programme, Department of Mathematics, Statics and Computer Sciences C.B.S.H. GBPUA&T Pantnagar, Sep 27- Oct 04 2004.

List of Research Papers:

- [1].Balwant, Tyagi, A., Singh S.P., Saxena, M.K., and Mishra, D.P., (2014) "Biochemical Characterization of rare serovars of *Salmonella* isolated from Gangetic water".*J. Vety. Pharmacol. And Toxicol.***13**: (1): 79-80.
- [2].Balwant, Tyagi, A., Singh S.P., Saxena, M.K., and Mishra, D.P., (2014) "Molecular Characterization of *Salmonella* (rare serovars) isolated from Gangetic water based on ERIC-PCR".*J. Vety. Pharmacol. And Toxicol.***13**: (2): 152-155.
- [3].Balwant, Melkania, U., Singh S.P., Saxena, M.K., and Mishra, D.P., (2015) "Molecular Characterization rare serovars of *Salmonella* in Gangetic water by REP-PCR".*J. Vety. Pharmacol. And Toxicol.***14**:(1).
- [4]. A.Tyagi, Balwantsingh, A.K. Upadhayay and M.kumar, Diagnostic potentiality of Mastitogen in dairy herd. Indian j.ofVety.Med.Dec 2011, p.98-99.
- [5]. Balwant, Uma Melkania, S.P. Singh, M.K.Saxena, and D.P.Mishra, Outer membrane proteins band profile analysis of *Salmonella* (rare serovars) isolated from Gangetic water. June 2015, (accepted), global J.Biotech.Biochem,Research

Papers in Conference Proceedings

- [1]. Balwant, A. Tyagi, M.K. Saxena AND D.P. Mishra, Molecular Characterization rare serovars of *Salmonella* in Gangetic water by REP-PCR" Int. conference on "Cooling the Earth" 15-17 Nov. 2010.CBSH GBPUA&T Pantnagar.
- [2].Ansu Rahal, Ripu Sudan Kumar and Balwant, Effect of supplementation of ammonium sulphate and Sulphur coated urea on blood parameters of lactating crossbred cow. National Conference at Jammu, sep 19-21, 2013.

Member of Organizing Committee

Member of Coordination Committee-Uttarakhand State Council for Science and Technology (UCOST), 2009, 10-12Nov. CBSH, GBPUA&T Pant Nagar.

Departmental Liabilities

1.Demonstrated the Pregnancy Diagnostic Kit for Bovines Of farmers at college Stall of Veterinary and Animal Science GBPUA&T Pantnagar for Kisan Mela March and October every year from 2000-2004.

Associations with Professional Societies

Life Member: 1.Indian Chemical Society

2. Society of Biological Chemists, India

3. Indian Society of Environmental Chemistry

4. Indian Society of Veterinary Pharmacology and Toxicology (ISVPT)

Annual Member:1. NIL

Extra Curricular Activities:

NCC “ B” Certificate,

Skilled Player of Hockey, Cricket and Badminton

Extension and Communication Activities:

Radio Talk at Pant Nagar Janvani

Statement of Teaching & Research Philosophy

In the view of my plan for research will be based on analysis of water of the national river Ganga and Yamuna River and other water resources. According to plan a large number of the water samples (250 ml each) will be collected for the analysis of environmental pollution in term of physical, chemical and biological pollutants in the water of all of the water resources said above. These samples will be screen for *Salmonella* and other highly pathogenic microbes for humans and animals also. The same samples will also be screened for the testing of quality of drinking water of the same rivers. The above screened samples will be sending for serotyping at any national institute of *Salmonella* and other microbial organism for serotyping. After serotyping the said samples which are serotyped as *Salmonella* serovars or of other bacteria showing the pathogenicity will be molecular type by using Protein and DNA based markers as ERIC-PCR, REP-PCR and OMP purification. After all these activity Combined molecular typing will be carried out by using ERIC-PCR, REP-PCR and OMP and microbial study will be

done on the basis of Simpson's index of diversity and then the discrimination ability(D) value will be calculated for all the typing methods used in the above study as described by the Hunter & Gaston.

After the above work done on other hand samples will be screen for estimation of sand quantity for tracing out the chemicals present in the water and to check that water can be use for drinking or not, and if I will get more chance for research, definitely I will carry out my this research work for other rivers and water resources of water in all over India. The purpose of catering knowledge in this area is not only to provide graduates with highly marketable skills of theory and experiments, but also to equip them with broad knowledge that must be useful in future endeavors. Most importantly, I attempt to convey my enthusiasm about materials, their preparation, behaviors and applications to students. I have always been guided by the observation that the presentation of coursework in an interesting and challenging fashion is essential.

I will not forget to spare the time to students for discussing their future career opportunities. This type of contact is one of the most important factors in student motivation and involvement; it enhances students' intellectual commitment and encourages them to think about their own values and future plans. This is my hobby to teach and advise students properly for their best role towards the academic, scientific and technological developments of the society.

(Balwant Singh)

References:

1. Dr D.P. Mishra,

Former Dean, CBSH, GBPUA&T Pant Nagar, Uttarakhand
Academic Advisor, CAEHS, Roorkee road Meerut, UP,
Email: dpmbbc@gmail.com, Mb: 09456452232

2. DR UMAPATHI V.,

Senior Scientist, Indian Veterinary Research Institute
Bangalore, Email: umapathi_pillai@yahoo.com, Mb: 09459200917

3. S.K. KATARIYA,

Associate Professor, Department Of Civil Engineering, College Of Technology,
Department Of Civil Engineering, College Of Technology, GBPUA&T
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