



Dr. Jasveen Singh Bajwa

Ph.D (Microbiology)

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Pursue a position at a leading Corporate House/University in the field of Microbiology and Nutrition, in order to contribute to cutting edge research being pursued by utilizing experience and gaining knowledge. Learn new and advanced techniques to bring beneficial effects of functionally active microbes within reach of millions who need them.

EXPERIENCE

Dr. Yashwant Singh Parmar University of Horticulture and Forestry

January 2014-January 2018

Ph.D Scholar

Rare and traditional fermented food products of Himachal Pradesh (INDIA) were explored for the isolation of potential probiotic strains and these strains were explored for their probiotic potential and health benefits.

Dr. Yashwant Singh Parmar University of Horticulture and Forestry

January 2017-September 2017

Junior Research Fellow

This work was based on the development of novel nutraceuticals food products and their preparation by fortifying in-house traditional probiotic microorganisms. Their isolation, identification and characterization was also carried out

Rayat Bahra University, Mohali, Punjab

November 2017-May 2018

Assistant Professor

had an experience in teaching Basic Microbiology, Food Microbiology, Biochemistry, Agriculture Microbiology and Agriculture Ethics

Chandigarh University

June 2018- Present

Assistant Professor

Teaching Environment Biotechnology, Medical Biotechnology, Industrial Regulatory Affairs, Virology, Environment Microbiology/Biotechnology, Food and Nutrition

EDUCATION

Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan (H.P.), India

January 2014- January 2018

Ph.D (Microbiology)

76.05%

Sam Higginbottom University of Agriculture, Technology and Sciences (SHUATS) Allahabad

August 2011-December 2013

M.Sc Microbiology

85.03%

Himachal Pradesh University

August 2008- July 2011

B.Sc Biotechnology (Hons)

69%

Convent of Jesus and Mary, Shimla

June 2006

Matriculation

64%

SKILLS

- Screening, Streaking, Pouring
- Isolation & culturing of microbes
- Serial Dilution
- Antibiotic sensitivity test
- Optimization of culture conditions
- Activity assay (Well diffusion, Disk diffusion and Bit agar method)
- Purification and characterization of proteins
- Protein Estimation (Lowry’s method)
- Chromatographic techniques (Paper chromatography, TLC and Column chromatography)
- SDS PAGE
- Isolation of Bacterial, Fungal DNA
- HPLC
- SEM
- GC/MS

AWARDS

ICAR Net Qualified

PUBLICATIONS

1. Sharma Heenu and **Bajwa Jasveen**. (2021) Approach of probiotics in mental health as a psychobiotics. Archives of Microbiology. 204
2. KATARIA, S., SONDHIL, S., KAUR, P. S. and **BAJWA, J.** (2020) "BIO PRESERVATIVE POTENTIAL OF BACTERIOCINS: CLASSIFICATION, MODE OF ACTION AND APPLICATION: A REVIEW", *PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY*, 21(19-20), pp. 15-28. Available at: <https://www.ikppress.org/index.php/PCBMB/article/view/5234> (Accessed: 13July2021).
3. GUPTA, S., KOUL, A., **BAJWA, J.** and MAGOTRA, S. (2020) "BIO-MEDICINAL PROPERTIES OF TURMERIC (*Curcuma longa* L.), A DIETARY SPICE USED AS A FOLKLORE MEDICINE IN INDIA: A REVIEW", *PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY*, 21(15-16), pp. 272-291. Available at: <https://www.ikppress.org/index.php/PCBMB/article/view/5195> (Accessed: 13July2021).
4. Heenu Sharma, **Jasveen Bajwa** (2021) "Potential Role and Mechanism of Probiotics", *Annals of the Romanian Society for Cell Biology*, pp. 3616–3624. Available at: <https://www.annalsofrscb.ro/index.php/journal/article/view/472> (Accessed: 13July2021).
5. **Jasveen Bajwa** and Nivedita Sharma. 2018. Evaluation of Probiotic Properties of Yeasts Isolated from Sidra - An Ethnic Fermented Fish Product of North East India. *Int.J.Curr.Microbiol.App.Sci* (2018) 7(2): 2632-2643.
6. HAZARIKA, P., KOUL, A., MAGOTRA, S. and **BAJWA, J.** (2020) "ANTIDIABETIC PROPERTIES OF SOME SELECTED MEDICINAL PLANTS USED IN FOLKLORE MEDICINE IN INDIA: A REVIEW", *PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY*, 21(15-16), pp. 254-261. Available at: <https://www.ikppress.org/index.php/PCBMB/article/view/5193> (Accessed: 13July2021).
7. **Jasveen Bajwa** and Nivedita Sharma. 2017. Isolation and Screening of Potential Probiotic strains from a traditional fermented food matrice- Chhurpi of North East India. *Journal of Research: THE BEDE ATHENAEUM*. Vol 8 Issue1 89-97
8. Kanika Sharma* , Nivedita Sharma, **Jasveen Bajwa**, Sunita Devi. 2017. Optimization of Various Process Parameters Using Response Surface Methodology for Exopolysaccharide Production from a Novel Strain *Pediococcus acidilactici* KM0 (Accession Number KX671557) Isolated from Milk Cream. *International Journal of Emerging Research in Management & Technology* ISSN: 2278-9359 (Volume-6, Issue-1) 27-33

9. SETHI, B. P., BAJWA, J., SHARMA, H., MAGOTRA, S. and KOUL, A. (2020) "PLANT GROWTH PROMOTING RHIZOBACTERIA: ITS POTENTIAL APPLICATIONS AND THE EMERGENCE OF AGRICULTURE", *PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY*, 21(17-18), pp. 169-174. Available at: <https://www.ikppress.org/index.php/PCBMB/article/view/5222> (Accessed: 13July2021).
10. Heenu Sharma, **Jasveen Bajwa**, Surekha Manhas, Jyoti Sarwan. 2020. Probiotics: a short review. *Annals of Tropical Medicine and Public Health* 23(15) DOI:[10.36295/ASRO.2020.231543](https://doi.org/10.36295/ASRO.2020.231543)
11. Shubham Kumar, **Jasveen Bajwa**, Shanu Magotra and Apurva Koul. 2020. Therapeutic properties of wine: A review. *Annals of Tropical Medicine and Public Health*. Vol 23 Issue 15, October 2020. 231-552
12. GOSWAMI, G., **BAJWA, J.**, KAUL, A., GOSWAMI, N. and MAGOTRA, S. (2020) "UNRAVELING THE PLANT GROWTH PROMOTING POTENTIAL OF MICROBES ASSOCIATED WITH *Diplazium esculentum* AND *Clitoria ternatea*", *PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY*, 21(15-16), pp. 157-160. Available at: <https://www.ikppress.org/index.php/PCBMB/article/view/5181> (Accessed: 13July2021).
13. Anupama Gupta, Nivedita Sharma* and **Jasveen Bajwa**. 2017. Evaluation of enterococcus faecium ch-1 isolated from chuli- a traditional fermented apricot product of trans himalayan region. *SDRP Journal of Food Science & Technology*. 165-176

CONFERENCES

Molecular Biology Approaches in Drug Discoveries, 2019

International and national level conferences have been attended and paper presented comprising different themes and areas.

POSTER PRESENTATION

National Workshop and Symposium on "Advances in Fermentation and Bioprocess Technology" at Chandigarh University, Gharuan, Mohali (11-12 April 2019).

International Conference on Biodiversity: Current Scenario and Future Strategies, St. Bede's College, Shimla, Himachal Pradesh, India (October 6-8, 2016)

56th Annual Conference of, Association of Microbiology.

International Symposium on "Emerging Discoveries in Microbiology" Jawaharlal Nehru University, New Delhi (December 7-10, 2015)

National Conference on "Emerging Challenges in Biotechnology. Associations of Microbiologists of India, Chandigarh (August 21-22, 2015)

7th Annual Convention of ABAP & International Conference on Plant Biotechnology, Molecular Medicine & Human Health. (October 18-20, 2013)

WORKSHOPS

Intellectual Property & Innovation Management in Knowledge Era, Held in the Department of Biotechnology on 18th March, 2016

"IPR Literacy: Patent drafting and filing" held in Department of Biotechnology on 3rd- 4th October, 2016.

"System Biology: An understanding of bacterial genomics and proteomics" held in Bioinformatics Centre, Himachal Pradesh University, Summer Hill, Shimla from November 26-28, 2015

"Molecular Biology and Pathology" at Biotech Study & Research Centre, Zirakpur, Punjab (India) from 1st June, 2012- 30th June, 2012