



Dr. Gurinder Singh

hgdocwork1989@gmail.com,

+91-7696564989

OBJECTIVE

A hardworking, dedicated and problem solving person looking for a good and suitable position according to my education and skills. So, that I can show into my work during taking up challenging assignments for the growth of organization and personal growth as well.

EXPERIENCE

- **Assistant professor**, AMAR SHAHEED B.A.S.J.S.M. COLLEGE, BELA, September 13, 2023 to December 22, 2023
 - I was teaching a wide variety of subjects of Biotechnology including Biochemistry, Bioprocess Technology, Animal Biotechnology, Enzymology and I developed a curriculum that meets both college and department standards, I planned lessons and assignments of theory and practical as well. I assessed the bachelor and master students' progress through grading papers and tests and advise students about important things, books, MCQs and techniques about the experimental concepts. I was also conducting the seminars from the syllabus of the subjects.
- **Resource person**, GOVT. COLLEGE MOHALI PH-6, April 13, 2022 to June 15, 2022
 - I was teaching a wide variety of subjects of Biotechnology including Immunology, Biochemistry and Animal Biotechnology. I developed a curriculum that meets both college and department standards, I planned lessons and assignments of theory and practical as well. I assessed the bachelor's students' progress through grading papers and tests and advise students about the important things regarding competitive exams for future. I was also conducting the seminars from the syllabus of the subjects.
- **Medical Tech**, ACCU REFERENCE MEDICAL LAB, LINDEN, NJ, USA, June 10, 2019 to March 15, 2020.
 - As a Medical Tech. in microbiology department performs a wide-range of diagnostic testing by using automated micro scan by using different kinds of panel, streaking, spreading and staining to detect the casual organisms, aerobic and anaerobic as well in a given clinical sample including urine, stool, UTI, blood, body fluids, nasal wash, ear swab, eye swab, genital culture etc., I was responsible for the interpretation and reporting of lab tests to client under the supervision of supervisor.

- **Assistant professor**, AMAR SHAHEED B.A.S.J.S.M. COLLEGE, BELA, August 1, 2018 to January 31, 2019
 - I was teaching a wide variety of subjects of Biotechnology including Bioprocess Technology, Enzymology, Microbiology, Biochemistry, Plant Biotechnology and Animal Biotechnology. I planned lessons and assignments of theory and practical as well. I assessed the bachelor's and master's students' progress through grading papers, tests and advise students about important things, books, MCQs and techniques about the experimental concepts. I was also conducting the seminars from the syllabus of the subjects.
 - I was participated in many other college activities like College meetings regarding betterment for the students and college, workshops including hands on experience in Molecular-Biology, Microbiology, Uses of local medicinal plants and Yoga exercises.
 - I was also helping the master's students for their minor research projects and to publishing the research papers regarding literature search on medicinal plants, preparation of extracts, *in-vivo* and *in-vitro* activities and column chromatography etc.
- **Guest faculty**, GOVT. COLLEGE MOHALI PH-6, one session, 2017 to 2018.
 - I was teaching a wide variety of subjects of Biotechnology. I developed a curriculum that meets both college and department standards, I planned lessons and assignments of theory and practical as well. I assessed the bachelor students' progress through grading papers and tests and advise students about important things for the master entrance test. I was also conducting the seminars from the syllabus of the subjects.
- **Research project assistant**, PUNJAB STATE COUNCIL FOR SCIENCE AND TECHNOLOGY, November 26, 2015 to January 29, 2016.
 - I was indulging with the rural women of Punjab during pilot research project because of the resemblance with my thesis work about the uses of local medicinal plants that how they generate the income from the local medicinal plants by commercialize the product prepare from them.
 - How they prevent her and their family members from different kind of diseases when they are not in severe conditions.
 - I was conducting the on-desk workshops that how they prepare the crude extracts, infusion and decoction from the different parts of local medicinal plants in different regions of Punjab.
 - I was also let them know about the directional plantation of trees as well.
- **Microbiologist** in BIS licensed bottling and packaging water plant, January 4, 2013 to August 10, 2013.
 - I was cultivating and managing infectious strains of microbes including *E. Coli*, *Coliform*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Yeast*, *Salmonella* and *Shigella* strains in a water sample by using specific nutrient broth and agar.
 - I was also check the pH, TDS, TSS, hardness of water etc.

TECHNICAL QUALIFICATIONS

- Pharmacovigilance training with ICSR processing and management done under ACI from April

2022 to August 2022.

- Microbiology techniques like culturing of microbes (including pathogen) and PBMC.
- Preparation of natural extracts, column chromatography, TLC, preparation of different reagents, handling of rats (but not surgery), basic concepts and instrumentation of HPTLC.
- Industrial Area Phase - 1 Chandigarh in Plant Tissue Culture and got A + grade.
- Attended National Workshop on 11-12th May, 2009 of R-DNA Techniques held at Govt. College Mohali.
- HPLC on 14-18th May, 2012 from NIPER.
- Done Immunological Techniques and R-DNA Techniques at Shree Nanda Biotech Ph.-6 Mohali on 20th January to 20th February, 2010.
- Conceptual knowledge and sample preparation of FLOW CYTOMETRY in PGI through Shree Nanda Biotech Mohali.
- GAS CHROMATOGRAPHY and INFRARED SPECTROSCOPY on 27-31st September, 2012 with HPLC again on 3rd -7th September, 2012 from NIPER.
- Attended one-month skill development programme in MSME Govt. of India on 7th March to 19th April, 2011.
- Attended workshop on 7th October, 2016 in medical writing and meta-analysis by the Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala.

RESEARCH PAPERS PUBLICATIONS

- Singh G, Jain S, Kumar D, Kumar S and Mehta P. 2016. Pharmacognostic standardization of Jwarnashak Panch Kashya. *Journal of Medicinal Plants Studies*. 4(4):189-191.
- Singh G, Kumar D, Kumar S, Mehta P and Kaur G. 2016. Estimation of total phenol and flavonoids in Jwarnashak Panch Kashya and its antioxidant activity. *Journal of Pharmacognosy and Phytochemistry*. 5(4):136-138.
- Kaur G, Sudhera N, Bassi D, Singh K and Singh G. 2016. Assessment of glucose levels and lipid profiles in adults with Down syndrome in Punjab (India). *Journal of Human Biology Review*. 5(4).
- Kaur G, Sudhera N, Singh K, Singh G and Bassi D. 2017. Effect of Fasting Blood Glucose (FBG) on Lipid Metabolism and Gender Differences in the Pattern of Dyslipidemia in Adults with Type 2 Diabetes in Northern India. *Journal of Ethno. Med. of Taylor and Francis*. 11(3):209-215.
- Singh G, Singh B and Mehta P. 2018. Antipyretic activity investigations on various extracts and fractions of Jwarnashak Panch Kashya (Polyherbal formulation). *Journal of Pharmacognosy and Phytochemistry*. 7(3):3017-3020.
- Singh G. 2023. *Tinospora cordifolia*: The Miracle plant. *International Journal of Herbal Medicine*. 12(1):21-33.

BOOK PUBLISHED

- Singh G *et al.*, 2017. MEDICINAL PLANTS (PLANTS WITH HEALING WONDERS). Kaav publications. ISBN No.: 978-81-933557-6-3.

EDUCATION: -

- Doctor of Philosophy (Ph.D., Life Sciences) from Punjabi University, Patiala (2014-2019)
- Masters of biotechnology (2010-2012) from HPU Shimla
- Bachelors of biotechnology (2007-2010) from Punjabi University, Patiala
- Certificate course in pharmaceutical chemistry (Add on course in 2010) from Punjabi University, Patiala
- Diploma in pharmaceutical chemistry (Add on course in 2011) from Punjabi University, Patiala
- Advance diploma in pharmaceutical chemistry (Add on course in 2012) from Punjabi University, Patiala