

RESUME

Name	Dr Prabhjot Kaur Gill
Father's Name	Mr. Pal Singh Gill
Mother's Name	Mrs. Baljit Kaur
Date of Birth	21 June 1976
Sex	Female
Marital status	Unmarried (Single)
Nationality	Indian
Address	Plot No 15, Vikas Nagar, P.O-Rayon & Silk mill, Amritsar-143005, Punjab, INDIA. Home Phone No. 0183-2255632 Mobile No. 9815130014 E-mail: pjk_gill@yahoo.com

Educational Qualifications

Ph.D. in Microbial Biotechnology Dec 1999-2005

Thesis title "Purification and characterization of thermostable inulinase from *Aspergillus fumigatus*".

Department of Biotechnology, Guru Nanak Dev University, Amritsar

M.Sc. in Microbiology August 1997-Nov 1999

Guru Nanak Dev University, Amritsar
(Major Subject: Microbial Genetics, Mycology, Virology, Bacteriology, Industrial Microbiology and Fermentation, Genetic Engineering). **First division.**

M.Sc. Project title "Studies on inulinase enzyme of a *Streptomyces* Strain".

B.Sc. in Biological Sciences July 1994-June 1997

Guru Nanak Dev University, Amritsar
(Major Subject: Botany, Zoology, Chemistry and English).

10+2 standard July 1993-April 1994

Central Board of Secondary Education (CBSE)
(Major subject: Biology, Chemistry, Physics, English)

10th standard June 1991-1992

CBSE (Major subject: Science, Social Science, Math's, Geography, English etc)

August 2004-April 2005

Lecturer for post-graduate classes on part time basis in Department of Biotechnology, Guru Nanak Dev University, Amritsar

Course taught: Molecular Biology, Microbial Physiology, Molecular Genetics, Genomics and Functional Genomics, Lab in Microbiology and Lab in Biochemistry

August 2005- till now

Lecturer in Department of Biotechnology
Lovely Institutes of Higher Studies
Phagwara (Chehru)

Research Publications

- Singh Prabhjeet and **Gill Prabhjot Kaur** 2006. Production of inulinases: Recent Advances. Food Technology and Biotechnology (**invited review**)
- Sharma A D, **Gill Prabhjot Kaur**. 2006. Purification and characterization of heat stable inulinase from streptomyces sp. Journal of Food Engineering (in press).
- Sharma AD, Kainth S, **Gill Prabhjot Kaur**. 2006. Inulinase production using garlic (*Allium sativum*) powder as a potential substrate in *Streptomyces* sp. Journal of Food Engineering (in press).
- **Gill Prabhjot Kaur**, Manhas RK, Singh P. 2006. Hydrolysis of inulin by immobilized thermostable extracellular inulinase from *Aspergillus fumigatus*. Journal of Food Engineering (in press).
- **Gill Prabhjot Kaur**, Manhas RK, Singh P. 2006. Purification and properties of a heat-stable exoinulinase isoform from *Aspergillus fumigatus*. Bioresource Technology, 97, 894-902.
- **Gill Prabhjot Kaur**, Manhas RK, Singh P. 2006. Comparative analysis of thermostability of extracellular inulinase activity from *Aspergillus fumigatus* with commercially available (Novozyme) inulinase. Bioresource Technology. 98: 355-358
- Sharma AD, **Gill Prabhjot Kaur**, Bhullar SS, Singh P. 2005. Improvement in inulinase production by simultaneous action of physical and chemical mutagenesis in *Penicillium purpurogenum*. World Journal of Microbiology and Biotechnology 21,929-932.
- **Gill Prabhjot Kaur**, Manhas RK, Singh J, Singh P. 2004. Purification and characterization of an exo-inulinase from *Aspergillus fumigatus*. Applied Biochemistry and Biotechnology.117: 19-32.

- **Gill Prabhjot Kaur**, Sharma AD, Harchand RK, Singh P. 2003. Effect of media supplements and culture conditions on inulinase production by an actinomycete strain. *Bioresource Technology* 87: 359-362.
- Sharma AD, **Gill Prabhjot Kaur**, Singh P. 2003. RNA Isolation from Plant Tissues Rich in Polysaccharides. *Analytical Biochemistry* 314: 319-321.
- **Gill Prabhjot Kaur**, Sharma AD, Singh P, Bhullar SS. 2003. Changes in germination, growth and soluble sugar contents of *Sorghum bicolor* (L.) Moench seeds under various abiotic stresses. *Plant Growth Regulation*, 40: 157-162.
- Sharma AD, **Gill Prabhjot Kaur**, Singh P. 2002. DNA Isolation From Dry and Fresh Samples of Polysaccharide-Rich Plants. *Plant Molecular Biology Reporter* 20: 415a-415f.
- **Gill Prabhjot Kaur**, Sharma AD, Singh P, Bhullar SS. 2002. Osmotic stress-induced changes in germination, growth and soluble sugar content of *Sorghum bicolor* (L.) Moench seeds. *Bulgarian Journal of Plant Physiology*, 28: 12-25.
- **Gill Prabhjot Kaur**, Sharma Arun Dev, Singh P, Bhullar SS. 2001. Effect of various abiotic stresses on growth, soluble sugars and water relations of sorghum seedlings grown in light and darkness. *Bulgarian Journal of Plant Physiology* 27: 72-84.

National Publications

- Sharma AD, Nanda JS, **Gill Prabhjot Kaur**, Bhullar SS, Singh P, Vyas D. 2002. Enhancement in Inulinase production by mutagenesis in *Penicillium purpurogenum*. *Indian Journal of Biotechnology* 1: 270-274.

Conferences

- **Gill Prabhjot Kaur**, Manhas RK, Singh P (2004). Purification and characterization of two thermostable inulinase isoforms from *Aspergillus fumigatus*. Published in 5th **International Fructan Symposium** (Dec 5-9), Havana, Cuba.
- **Gill Prabhjot Kaur**, Manhas RK, Singh P (2004). Immobilization of thermostable extracellular inulinase from *Aspergillus fumigatus* on various supports for production of fructose. Published in 45th **AMI Annual conference** (Nov 23-25), National Dairy Research Institute, Karnal, Haryana.
- Sharma AD, **Gill Prabhjot Kaur**, Bhullar SS. (2004). Physical and chemical mutagenesis mediated enhancement in inulinase production of *Penicillium purpurogenum*. Presented in **National Symposium on Advances in Industrial Biotechnology** (Feb. 23-24) held at Punjabi university Patiala, Punjab, India.

- **Gill Prabhjot Kaur**, Manhas RK, Singh P. (2004). Comparison of extracellular inulinase from *Aspergillus fumigatus* with commercial available inulinase. Presented in 7th Punjab Science Congress (Feb. 7-9) held at Guru Nanak Dev University, Amritsar, Punjab, India.
- Participated in National Conference on “ **Indian Philosophy, Science and Culture**” (January 23-25, 2004) at Convention Centre, Jamia Hamdard. New Delhi.
- **Gill Prabhjot Kaur**, Manhas RK, Singh J, Singh P (2003). Purification and properties of an exo-inulinase from *Aspergillus fumigatus*. Presented in 5th **international** conference in Food Convention (IFCON 2003) December 5-8 Mysore.
- Bhullar SS, Viz S, Ravi V, **Prabhjot Kaur** and Singh P (2000). Purification and Characterization of an extracellular thermostable inulinase from *Aspergillus fumigatus*. Presented in 41st AMI Annual conference (Nov 22-25), Birla Institute of Scientific Research, Jaipur.

Citation index of the published work

S. No	Publication	Cited in
1	Sharma AD Gill Prabhjot Kaur, Singh P. 2003. RNA Isolation from Plant Tissues Rich in Polysaccharides. <i>Analytical Biochemistry</i> 314:319-321,	<ul style="list-style-type: none"> ➤ Journal General Virology, 85, 2004, 983-991. ➤ Molecular Breeding, 2004, 14, 215-226. ➤ Life Science Research, 2004,1.8,52-57. ➤ Chinese Bulletin Of Botany 2005, 1.22,,198-202. ➤ Virologica Sinica 2005,20,315-319. ➤ Pharmaceutical Biotechnology, 2005,12,183-185
2	Sharma AD, Gill Prabhjot Kaur, Singh P. 2002. DNA Isolation From Dry and Fresh Samples of Polysaccharide-Rich Plants. <i>Plant Molecular Biology Reporter</i> 20: 415a-415f.	<ul style="list-style-type: none"> ➤ Plant Molecular Biology Reporter, 2003,21, 177a-177g, ➤ Plant Molecular Biology Reporter, 2003,21, 463a-463g,. ➤ International Journal of Agriculture & Biology, 2005, 82–85. ➤ Plant Molecular Biology Reporter, 2004, 22,195a-195j ➤ Electronic J of Biotechnology, 2006 9,1, (on-line).
3	Gill Prabhjot Kaur, Sharma AD, Harchand RK, Singh P. 2003. Effect of media supplements and culture conditions on inulinase production by an actinomycete strain. <i>Bioresource Technology</i> 87:359-362.	<ul style="list-style-type: none"> ➤ Food Technology Biotechnology, 42, 141–146, 2004

Workshop

Participated in DBT sponsored “Tools for Data Mining”. Held at Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India, during 07-08, Oct 2003.

Memberships

- Association of Microbiologist India (AMI)
- Lifetime member of Punjab Academy of Sciences, Punjabi University, Patiala, Punjab, India.

Techniques learned

- DNA isolation
- RNA isolation
- Plasmid isolation
- Southern blotting
- Northern blotting
- Hybridization (radioactive and non-radioactive)
- PCR
- Cloning
- Electrophoresis (DNA and RNA)
- Electrophoresis (Native, SDS and 2D-PAGE)
- Western blotting
- Column chromatographies (protein purification)
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Other Relevant Experience

Under taken various practical and theoretical courses of the post-graduation students gain in their practical experience at Guru Nanak Dev University, Amritsar.

Computer Skills

Well knowledge of the software aspects of the present day infotech environment like MS-word, Excel, PowerPoint and Sigma Stat, Gel Pro Analyzer, Grafit software and data surfing on Internet and fairly good experience using Bioinformatics tools like NCBI, TIGR, CLUSTALW, FASTA, BLAST analysis and Protein Structure Databases etc.

Personal Skills and Interests

Good communication and managerial skills. My multidisciplinary studies and experiences have given me the very practical skills.

Prabhjot Kaur
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References

1.

Dr. Prabhjeet Singh, Reader
Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India
E-mail: prabhjeet_s@yahoo.com
Phone: 0183-2258802-09, ext-3178
Fax: 0183-2258820/258272

2.

Dr. Rajesh Kumari Manhas, Reader
Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India
Phone: 0183-2258802-09, ext-3450
Fax: 0183-2258820

3.

Dr. Jatinder Singh, Professor
Department of Biochemistry and Molecular Biology, Guru Nanak Dev University,
Amritsar, Punjab, India
E-mail: jst2002@rediffmail.com
Phone: 0183-2258802-09, ext-3313
Fax: 0183-2258820

4.

Dr. Amarjit Singh Bhawner, Professor
Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India
E-mail: ajsbhanwer@yahoo.com
Phone: 0183-2258802-09, ext-3278
Fax: 0183-2258820