

CURRICULUM – VITAE

Name: Dr. Parvinder Kaur

Personal Information:

Date of Birth: 24.06.1977

Citizenship: Indian

Present Position: Assistant Professor (Ad.Hoc)

Official Address: Swami Shraddhanand College (Delhi University),
Alipur, Delhi-110036

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Date of Appointment in the College: 10th Nov, 2009

Total Teaching Experience: Approx. 9 years

Native Place: Delhi

Education:

Examination and Year	Board/ University	Percentage	Subjects	Division
B.Sc. (1998)	UDSC	69.7	Microbiology	I st
M.Sc. (2000)	UDSC	74.1	Microbiology	I st
Ph.D. (2008)	UDSC	-	Microbiology	-

International /National Positions and/or Awards/ Fellowships:

- 1. AMI Young Scientist Award (Industrial Microbiology) Nov'2011**
- 2. Young Scientist Award (First position in ICMEMB-2011, Bhopal) July' 2011**

3. Deutscher Akademischer Austauschdienst (German Academic Exchange Service) **DAAD scholarship for 6 months from 1st July' 04-31st Dec' 04:** To pursue research at IPK (Germany) as part of doctorate degree

4. **Joint CSIR-UGC JRF and LS-NET in Life Sciences Dec' 2000**

5. Awarded **South Campus Endowment Scholarship** during Post-Graduation.

6. **Joint CSIR-UGC NET for Lecturership in Life Sciences Dec' 1999**

List of Students guided for Innovation Projects:

B.Sc (H) Microbiology: [Purnati Khuntia, Manti Kumar Saha, Shweta Jaiswal, Priyanka, Ayush Sharma, Anju Mehra, Anjali Panchal, Kumar Anadi Anant] and
B.Sc (H) Chemistry [Ashish Tiwari and Sumit Sharma].

Research Projects/ Innovation Projects Undertaken :

i. Completed: Assessment of Microbial & Chemical quality of drinking water samples from various localities of Delhi NCR and checking the efficacy of various technologies available to make it potable (**SSNC 205**) [**November'2013- March'2015**]

ii. Ongoing: None

Research Interest: Industrial Microbiology, Food Biotechnology, Genomics and Mycology

Computer Literacy: (Softwares etc. used /working knowledge) **MS Office, Basic bioinformatics softwares, Sigma Plot, internet etc.** Holding a Post graduate diploma in Bioinformatics from BII, Noida (2004).

Contribution in International Conferences/Seminars/Workshops :

1. **Kaur, P. 2011.** 'Cell-bound phytase of *Pichia anomala*'- Oral presentation for Young Scientist Award (**First Prize**). International Conference on Microorganisms in Environmental Management and Biotechnology (**ICMEMB-2011**), Barkatullah University, Bhopal.
2. **Kaur, P. and Satyanarayana, T. 2008.** Permeabilization of the yeast *Pichia anomala* cells for ameliorating cell-bound phytase activity and its applicability in dephytinizing soymilk. **International Symposium on Microbial Biotechnology: Diversity, Genomics and Metagenomics**, 49th Annual conference of AMI. Delhi University, Delhi.

3. **Kaur, P.** and Satyanarayana, T. **2005**. Optimization of cell-bound phytase of *Pichia anomala* using statistical methods. **MICROBIAL DIVERSITY 2005**, International conference on Microbial Diversity: Current Perspectives and potential applications. UDSC, New Delhi.
4. **Kaur, P.** and Satyanarayana, T. **2004**. Application of statistical methods for optimizing production of cell-bound phytase of *Pichia anomala*. **ESBES-5**, European Symposium on Biochemical Engineering Science. University of Stuttgart, Stuttgart, Germany.
5. Vohra, A., **Kaur P.**, and Satyanarayana, T. **2003**. Cell bound phytase of *Pichia anomala*: Purification and Characterization. **YEAST 2003**, An International meeting on yeast biology. IMTech, Chandigarh.
6. **Kaur, P.** and Satyanarayana, T. **2001**. Glucoamylase of the thermophilic mould *Thermomucor indicae-seudaticae*. **THERMOPHILES 2001**, International conference on Biology and Biotechnology of Thermophilic Microbes. UDSC, New Delhi.

Contribution in National Conferences Seminars/Workshops :

1. Vohra, A., **Kaur, P.** and Satyanarayana, T. **2010**. Cost-effective phytase from the yeast *Pichia anomala* and its environment-friendly applications in animal feeds and aquaculture. International Symposium on Cross disciplinary Microbiology: Avenues and Challenges [AMI 2010-CMAC], Birla Institute of Technology (BIT), Mesra, Ranchi.
2. **Kaur, P.** and Satyanarayana, T. **2006**. Characteristics and potential applications of cell-bound phytase of *Pichia anomala*. **Microbiology: The Challenges Ahead**, 47th Annual conference of AMI. Barkatullah University, Bhopal.
3. **Kaur, P.** and Satyanarayana, T. **2003**. Glucoamylase production by a thermophilic mould *Thermomucor indicae-seudaticae* in submerged fermentation. **BIOHORIZON 2003**. IIT, Delhi.
4. **Kaur, P.** and Satyanarayana, T. **2000**. Production and characterization of glucoamylase of thermophilic mold *Thermomucor indicae-seudaticae*. **MICROBIOTECH**, 41st Annual Conference of AMI. Birla Institute of Scientific Research, Jaipur, Rajasthan.

LIST OF PUBLICATION (with title of the papers/articles, list of authors along with journal title, year of publication, ISSN/ISBN No. and Impact factor):

Citations : 282
H-index : 10
i10-index : 10

1. A. Archana, **Kaur, P.**, Kanodia, S., Gupta, S., Priyanka, Khuntia, P., Anant, K. A., Saha, M. K., Jaiswal, S., Sharma, A., Tiwari, A., Mehra, A., Panchal, A. and Kumar, S. (2015). Evaluating Microbial & Chemical Quality of Delhi-NCR Drinking Water, enhancing its Standard & Spreading mass awareness. The Delhi University **Journal of Undergraduate Research and Innovation**. Paper number 2, Volume 1. [ISSN: 2395-2334].
2. **Kaur, P.**, Verma, D. and Satyanarayana, T. (2011) Recycling of spent medium from *Pichia anomala* MTCC-4133 phytase fermentation for the production of useful microbial products. **Kavaka**. 39; 8-14 [ISSN: 0379-5179].
3. Vohra, A., **Kaur, P.** and Satyanarayana, T. (2011) Production, characteristics and applications of the cell-bound phytase of *Pichia anomala*. **Antonie Van Leeuwenhoek-International Journal of General and Molecular Microbiology**. 99; 51-55 [Impact Factor: 2.07] (ISSN: 1572-9699).
4. **Kaur, P.**, Singh, B., Böer, E., Straube, N., Piontek, M., Satyanarayana, T. and Kunze, G. (2010) Pphy - a cell-bound phytase from the yeast *Pichia anomala*: molecular cloning of the gene *PPHY* and characterization of the recombinant enzyme. **Journal of Biotechnology** 149; 8-15 [Impact Factor: 3.183] (ISSN: 0168-1656).
5. **Kaur, P.** and Satyanarayana, T. (2010) Improvement in cell-bound phytase activity of *Pichia anomala* by permeabilization and applicability of permeabilized cells in soymilk dephytinization. **Journal of Applied Microbiology** 108; 2041-2049 [Impact Factor: 2.196] (ISSN: 1365-2672).
6. **Kaur, P.**, Kunze, G. and Satyanarayana, T. (2007). Yeast phytases: present scenario and future perspectives. **Critical Reviews in Biotechnology**, 27; 93-109 [Impact Factor: 5.10] (ISSN: 1549-7801).
7. **Kaur, P.**, Lingner, A., Singh, B., Boer, E., Polajeva, J., Steinborn, G., Bode, R., Gellissen, G., Satyanarayana, T. and Kunze, G. (2007) *APHO1* from the yeast *Arxula adenivorans* encodes an acid phosphatase of broad substrate specificity. **Antonie Van Leeuwenhoek-**

International Journal of General and Molecular Microbiology 91; 45-55 [Impact Factor: 2.07] (ISSN: 1572-9699).

8. Minocha, N., **Kaur, P.**, Satyanarayana, T. and Kunze, G. (2007) Acid phosphatase production by recombinant *Arxula adenivorans*. **Applied Microbiology and Biotechnology** 76; 387-39 [Impact Factor: 3.69] (ISSN: 0175-7598).
9. **Kaur, P.** and Satyanarayana, T. (2005) Production of cell-bound phytase by *Pichia anomala* in an economical cane molasses medium: optimization using statistical tools. **Process Biochemistry** 40 (9); 3095-3102 [Impact Factor: 2.414] (ISSN: 1359-5113).
10. **Kaur, P.** and Satyanarayana, T. (2004) Production and starch saccharification by a thermostable and neutral glucoamylase of a thermophilic mould *Thermomucor indicae-seudaticae*. **World Journal of Microbiology and Biotechnology**. 20 (4); 219-425 [Impact Factor: 1.262] (ISSN: 0959-3993).
11. Satyanarayana, T., Vohra, A. and **Kaur, P.** (2004) Phytase in animal productivity and environmental management. **Productivity** 44: 542-548 (ISSN: 00323-9924).
12. Satyanarayana, T., Noorwez, S. M., Kumar, S., Uma Maheswar Rao, J. L., Ezhilvannan, M. and **Kaur, P.** (2004) Development of an ideal starch saccharification process using amylolytic enzymes from thermophiles. **Biochemical Society Transactions**. 32; 276-278 [Impact Factor: 2.59] (ISSN: 1470-8752).
13. **Kaur, P.** and Satyanarayana, T. (2001) Partial Purification and Characterization of Glucoamylase of thermophilic mould *Thermomucor indicae-seudaticae*. **Indian Journal of Microbiology**, 41; 195-199 [Impact Factor: 0.457] (ISSN: 0973-7715).

Articles in Edited Books/Conference Proceedings/Book Chapter Published (along with title of the book, publisher and ISBN No and year of publication)

1. **Kaur, P. (2014)**. Industrial Applications of microbes. Chapter submitted and published online on ILL (Institute of Life Long Learning) website. [ISBN 2349-154X]
2. **Kaur, P. (2013)**. Control of microorganisms by physical and chemical methods. Chapter submitted and published online on ILL (Institute of Life Long Learning) website. [ISBN 2349-154X]
3. **Kaur, P., Vohra, A. and Satyanarayana, T. (2013)**. Laboratory and Industrial Bioreactors for Submerged Fermentations. In: 'Fermentation Processes Engineering in the Food

Industry' (Eds. C. R. Soccol, A. Pandey and C. Larroche). CRC Press, Boca Raton London New York, pp. 165 - 179. (ISBN-13: 978-1439887653).

4. **Kaur, P.** and Satyanarayana, T. (2009). Yeast acid Phosphatases and Phytases: Production, Characterization and Commercial Prospects. In: Yeast Biotechnology: Diversity and Applications (Eds. T. Satyanarayana and G. Kunze). Springer Netherlands, pp 693-714. (ISBN 978-1-4020-8292-4)
5. Singh, B., **Kaur, P.** and Satyanarayana, T. (2009). Thermophilic mold and yeast phytases: Production, characteristics and applications. In: Agriculturally Important Microorganisms (Eds. G.G. Khachatourians, D.K. Arora, T.P. Rajendran, A.K. Srivastava), Academic World International, USA, Volume II, pp 317-345. (ISBN: 8190310429)
6. **Kaur, P.**, Singh, B and Satyanarayana, T. (2007). Microbial phytases in combating environmental phosphorus pollution. In: Air, water and soil pollution (Ed. K.K. Singh, A. Tomar, V. Phogat and S. Phogat). M.D. Publications Pvt. Ltd., New Delhi, pp 150-190. (ISBN-13: 9788190455107)
7. **Kaur, P.** and Satyanarayana, T. (2006). Developments in production, characteristics and potential applications of yeast phytases. In: Current concepts in Botany (Eds. K.G. Mukherji and C. Manoharachary). I.K. International Publishing House Pvt. Ltd., New Delhi, pp 377-394. (ISBN 13: 9788188237647).
8. Singh, B., **Kaur, P.** and Satyanarayana, T. (2006). Fungal phytases in ameliorating nutritional status of foods and combating environmental phosphorus pollution. In: Microbes-Health and Environment (Eds. A.K. Chauhan and Ajit Verma). I.K. International Publishing House Pvt. Ltd., New Delhi, pp 289-326. (ISBN-13: 978-81-88237-51-7)

Popular articles published / Articles published in newspapers etc.

1. **Kaur, P.**, Joshi, S. and Satyanarayana, T. (2014) Psychrophilic and psychotolerant mycelial fungi. **Kavaka** 42: 112-122 (ISSN: 0379-5179).
2. **Kaur, P.** and Satyanarayana, T. (2004) Probiotics: A beneficial health option. **Everyman's Science** 39: 224-229 (ISSN: 0531-495X).

3. **Kaur, P., Singh, B., Vohra, A. and Satyanarayana, T. (2003)** Fabulous phytases: Diverse functions in the living world and commercial prospects. **The Botanica** 53: 1-8 (ISSN: 0045-2629).

OTHERS:

1. Attended an IPR workshop on 4th September, 2014 organized by **Cluster Innovation Centre, North Campus, University of Delhi.**
2. Attended a **Hands-on workshop on Immunology** during May 14-18, 2012 organized by Department of Biochemistry, **Sri Venkateswara College, University of Delhi.**

Professional Association and Membership of Learned Bodies

- Life member of Association of Microbiologists of India (AMI).
- Life member of The Biotech Research Society (BRSI).