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Food Biotechnology Research Laboratory
Deptt. of Food Engg. & Technology
Sant Longowal Institute of Engg. & Technology,
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Longowal-148 106, Punjab, India

Dr. Parmjit Singh Panesar

Qualification/ Areas of Research	**M.Sc. Ph.D. (India), Post Doctorate (UK)** *Specialization*: Food Processing & Biotechnology **Areas of Research**: Prebiotics, probiotics, food enzymes, value addition of agro-industrial wastes, application of immobilized cells/enzymes in different bioprocesses. **Number of citations: 2150, h-index: 23, i10 index: 49** (Google scholar)
Academic/ Research/ Industrial Experience	**Academic/Research: 19+ years (After Ph.D.)** **Industrial: 1 year & 6 months** **i) Academic Experience** ➢ ***Head (Dept. of Food Engineering & Technology): July, 2016 onwards*** ➢ ***Professor: Jan 01, 2009 onwards*** ➢ *Associate Professor:* Jan 01, 2006-Dec 31, 2008 ➢ *Assistant Professor (Reader)*: Aug 2002-Dec 31, 2005 ➢ *Sr. Lecturer-Food Technology*: Aug 2001-Aug 2002 ➢ *Lecturer* - Food Technology: Aug 97- July 2001 **Sant Longowal Institute of Engg. and Tech. (SLIET), Longowal, Punjab (India)** **ii) Industrial Experience** **Supervisor** *(Production and R & D)* Oct.91-April 93 **Max-India Ltd., Toansa, Punjab, India**
Research Projects Awarded	"*Development of processes for production, downstream processing and applications of oligosaccharide producer enzymes*" a network project (jointly with Department of Biotechnology, Punjabi University, Patiala) funded by Department of Biotechnology (DBT), Govt. of India., New Delhi with fund amount of Rs. 70 lakh for 2013-2015 **(Principal Investigator at SLIET Longowal).** "*Development of immobilized cell technology for the production of L(+) lactic acid using waste potato starch*" funded by CSIR, GOI, New Delhi with fund amount of Rs. 26.72 lakh for 2013-2015 **(Principal Investigator).** "*Infrastructure Development & Augmentation of Food Biotechnology Laboratory*" funded by AICTE, New Delhi with fund amount of Rs. 20.00 lakh for 2013-2014 **(Chief Coordinator).** "*Lactulose production by permeabilized yeast cells using immobilized cell technology*" funded by CSIR, GOI, New Delhi with fund amount of Rs. 18.22 lakh for 2009-2012 **(Principal Investigator).** "*Development of bench scale technology for the production of lactose free milk*" funded by MHRD, GOI, New Delhi with fund amount of Rs. 6.00 lakh. for 2000-2002 **(Principal Investigator).**

	"Bioseparation of microbial amylase: Process optimization and validation" funded by MHRD, GOI, New Delhi with fund amount of Rs. 6.00/- lakh for 2001-2003 **(Co - Investigator).** *"Infrastructure Development & Augmentation of Molecular biology & Biotechnology Laboratory funded by MHRD, GOI, New Delhi with fund amount of Rs. 20.00/- lakh for 2004-2006* **(Co-Investigator).**
Research Guidance	▪ **10 Ph.D.** [06 (Completed) + 05 Ph.D. students (under progress)] ▪ **25 M. Tech** (Food Engg. &Technology) students at SLIET, Longowal (India) ▪ **60+ Food Technology Students of B. Tech Degree** and Diploma level at SLIET, Longowal (India).
Research Publications	▪ **100 + Research Papers/ Reviews** (Pease see Annexure-I) ▪ **25 Chapters** published in Books (Pease see Annexure-II) ▪ **100+ Papers** presented in conferences (Pease see Annexure-III) ▪ **50 Books Reviews**
Fellowship/ Awards	➢ Awarded **'Better Opportunities for Young Scientists in Chosen Areas of Science & Technology (BOYSCAST)' fellowship** by the Department of Science & Technology (DST), Govt of India, New Delhi. ➢ Awarded "**Young Scientist Fellowship"** in 1999 by PSCST, India ➢ Awarded **CSIR – Senior Research Fellowship** in April, 1997 ➢ Qualified ***GATE***
Books/ Laboratory Manuals	**Books Published** ▪ **Science and Technology of Fruit Wine Production** (2017), M.R. Kosseva, V.K. Joshi, P.S. Panesar (ISBN 9780128008508), Academic Press, USA, UK ▪ **Biotechnology in Agriculture and Food Processing : Opportunities and Challenges,** Parmjit S. Panesar, Satwinder S. Marwaha, **Published by CRC Press, Boca Raton, FL, USA [2014]** ▪ **Bio-organic Chemistry**, H.K. Chopra. A. Parmar and P.S. Panesar, Published by Narosa Publishing House Pvt. Ltd., **New Delhi. [2012]** ▪ **Bio-processing of Foods**, **P.S. Panesar,** H.K. Sharma, B.C. Sarkar, published by Asiatech Publishers Inc. (ISBN: 81-87680-27-X), New Delhi **[2011]** ▪ **Enzymes in Food Processing: Fundamentals & Potential Applications**, P. S. Panesar, S. S. Marwaha, H.K. Chopra, **(ISBN 978-93-80026-33-6)**, Published by IK International Pvt. Ltd., New Delhi**. [2010]** ▪ **Food Chemistry**, H.K. Chopra and P.S. Panesar, Published by Narosa Publishing House Pvt. Ltd. **(ISBN 978-81-8487-039-8)**, New Delhi. [**International Edition** has been published by Alpha Science International Ltd. (ISBN 978-1-84265-599-3), **Harrow, U.K.**]. **[2010]** **Laboratory Practices/Manuals:** ▪ Food Microbiology ▪ Food Biotechnology
Participation in Advisory Committees	➢ **Member** in the ***international collective of experts of Foundation for Science and Technology*** (FCT), Portugal. ➢ **Former Member** of the scientific panel on ***"Genetically modified***

	organisms and foods" constituted by the *Food Safety and Standards Authority of India.* ➢ **Member of core advisory committee** of Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India. ➢ **Member of Board of Studies at Lovely Professional University, Jalandhar** in the discipline of Food Technology, India ➢ **Member of Board of Studies at Mata Gujri College, Fatehgargh Sahib, India** in the discipline of Food Technology ➢ **Member of expert committee nominated by Govt. of Himachal Pradesh** for the inspection of Shoolini Institute of Life Sciences & Business Management, Solan (HP) for starting M.Sc. in Biochemistry and M. Phil in Biotechnology discipline, India ➢ **Member of the curriculum formulation committee** for diploma students in food technology for Punjab, Haryana, Himachal Pradesh and J & K state under the TTIR (Formerly known as TTTI) Chandigarh, India ➢ **Member of research advisory board** of Bhojia Institute of Life Sciences, Distt. Solan, Himachal Pradesh. ➢ **Member of Board of Studies at Punjab Technical University, Jalandhar** in the disciplines of Biotechnology, and Food Technology. ➢ **Current/Former Member of Editorial Advisory Board of** • International Journal of Biological Macromolecules (ISSN: 0141-8130) • International Journal of Food and Fermentation Technology (ISSN NO.: 2277-9396) • American Journal of Food Technology (ISSN no. 1557-4571) • International Journal of Dairy Sciences (ISSN no. 1811-9743) • Asian Journal of Microbiology Biotechnology & Environ. Sci. (ISSN no. 0972-3005) • Research Journal of Microbiology (ISSN no. 1816-4935) • World Journal of Dairy & Food Sciences (ISSN no. 1817-308X) • Journal of Industrial Pollution Control (ISSN no. 0257-8050)
Conference/ Seminars etc. Organized	▪ **Organized National conference** on "*Food and Nutrition Security: Food and Biotechnologies Interventions*" on March 22-23, 2007 at SLIET Longowal ▪ **Organized National Conference** "*New Horizons on Bio-processing of Foods*" held on 26-27 Feb. 2011 at SLIET Longowal. ▪ **Organized** '*14th Punjab Science Congress'* held on 7-9 Feb., 2011 at SLIET Longowal (Jt. Secretary). ▪ **Organized** AICTE sponsored **Training Programme** on "Biotechnological Interventions in Food Processing (BIFP-2012)" at SLIET Longowal From March 12-17, 2012
Advance Trainings attended	▪ *"Microbiological Control in Food"* organized by **Chinese Inst. of Food Science & Technology**, Beijing, China ▪ "*Theoretical & Practical Course on Bacterial Genetics*" at **International Centre for Genetic Engg. & Biotechnology (ICGEB), Trieste, Italy** ▪ *"Applications of Biotechnology in Dairy & Food Processing"* **at National Dairy Research Institute, Karnal** (India) ▪ *"Parasitic Genomics and Bioinformatics studies"* at **ICGEB, New Delhi** (India) ▪ *"Alcoholic Beverages-Manufacture and quality control"* at **Central Food Technological Research Institute, Mysore** (India)

	▪ "*Molecular Biology Techniques in Biotechnology*" from 18-30 Dec. 2000 at **BITS, Pilani** (India) ▪ **Institute of Microbial Technology (IMTECH**), Chandigarh ▪ "*Phytosanitary and HACCP Requirements for Export Quality Food Products*" at **MAU Parbhani** (India)
Resource Person/Invited Lectures/ session chair	**Some of Selected Conferences**: ▪ *Session Chair at "International Conference on Agricultural, Food and Nutritional Sciences*" at Zurich, Switzerland July 29-30, 2015 ▪ Session Chair at "*International Conference on Agricultural and Food Engineering*" at New York, USA during June 5-6, 2014. • "Biotechnological Tools in Food Processing and Analysis" at National conference on "*Food Processing and Technology: Current Status and Future Prospects (NCFPT-2016)*, at Shoolini University, Solan (HP), February 25-26, 2016. • "Biotechnological Approaches in the Utilization of Food Industry Byproducts for Lactic Acid Production" *at Biomass to Biovalue Summit: BBS-2016* on "Value Addition to Biomass in Indian Perspectives" Organized by Center of Innovative & Applied Bioprocessing (CIAB), Mohali, February11-12, 2016. • "Potential of Biotechnology in Food Processing, Quality and Safety Assessment" at National conference on "*Frontiers in Applied Biotechnology*" at Department of Biotechnology, Chandigarh University, 22-23 December, 2015. • "Statistical modeling of L(+) lactic acid production by L. casei MTCC 1423 utilizing potato waste liquid" at "*International Conference on New Horizons in Biotechnology 2015 (NHBT 2015*)" at Trivandrum during Nov 22-25, 2015 • "Biotechnological Interventions in the Utilization of Food Industry Waste For Organic Acid Production" at "*International Conference on Advances in Bioprocess Technology*", Tiruvalla on Nov 26-28, 2015 • "Biotechnological interventions in food quality and safety" at National conference on "*Food Technology: Emerging Trends*" at Chaudhary Devi Lal University, Sirsa, March 23-24, 2015 • "Hazardous waste: environmental concerns and biotechnological interventions" at State Level Seminar on "*Excessive Use of Toxic Chemicals and its lmpact on Human Life & Environment*" at AS College Khanna (Punjab), January 29, 2015 • Genetically modified foods: fundamentals, potential benefits and safety concerns National Seminar on "*Genetically Modified Organisms: Necessity & Whims (GMO 2015)*" Asian Educational Institute, Patiala Feb 17-18, 2015 • Biotechnology in food processing: current scenario & future prospects at 7th National Conference on "*Recent Advances in Chemical, Biological and Environmental Sciences*" held at Multani Mal Modi College, Patiala January 30-31, 2015. • Chaired a session at International Conference during "*International Conference on Emerging Trends in Biotechnology (ICETB-2014)*" The Biotech Research Society held at JNU, New Delhi, India, Nov 6-9, 2014. • "Bioprocessing of Foods: current status & future prospects" at 5th "*International Conference on Advances in Food Technology and Health Sciences (ICFTHS-2014)*" by International Institute of Food and Nutritional

	Sciences at JNU, New Delhi, October 15-16, 2014. • "Biopreservation in food technology: strategies and potential applications" at 4th at "*International Conference on Updating Food Technology*: A Challenge towards Public Health Nutrition (ICUFT-2014)" by International Institute of Food and Nutritional Sciences at JNU, New Delhi May 7-8, 2014. • "*Lactose intolerance: Prevalence and biointerventions*" at "*International Conference on Food Technology: Impact on Nutrition and Health (IFIN-2013)*" by International Institute of Food and Nutritional Sciences at JNU, New Delhi Dec 23-24, 2013. • International Conference on Advances in Biotechnology and Bioinformatics 2013 (ICABB 2013) during Nov 25 to 27, 2013 at Pune. • International Conference on Industrial Biotechnology (ICIB-2012) held at Punjabi Univ. Patiala during Nov. 2012. • International Conference on Food and Nutrition for Public Health Care at JNU New Delhi held during May 2012. • Winter School on "Recent Advances in Functional Fermented Dairy Food and Their Quality Assurance" organized by Dairy Microbiology Division, NDRI, Karnal from 9th – 29th December, 2011. • National Seminar on "Emerging Trends in Food Science & Technology" held at MCMDAV College, Chandigarh on November 12, 2011. • International Congress on "Bioprocesses in Food Industries" (ICBF-2008) and 5th Convention of The Biotech Research Society at Hyderabad (India) during November 6-8, 2008. • Invited to deliver lecture at IDF Symposium on "Lactose and its Derivatives", Moscow (Russia). • National Seminar on "Food Safety and Quality" on Oct 20-21, 2008 organized by Department of Food Technology, G.J. University of Science and Technology, Hisar, Haryana (India). • National Seminar on "Functional Foods and Neutraceuticals: Current Status and Future Scenario Quality" held on March 2-3, 2009 organized by Department of Food Technology & Microbiology, KMV Jalandhar (India). • National conference on 'Biotechnology 2009: Present and Future Perspectives' held on March 19-20, 2009 at Department of Biotechnology, Punjabi University Patiala (India).
Member of Editorial Board of Journals	▪ International Journal of Biological Macromolecules (ISSN: 0141-8130), **An Elsevier Journal** ▪ Applied Food Biotechnology (ISSN: 2423-4214) ▪ International Journal of Food and Fermentation Technology (2249-1570) ▪ Asian Journal of Microbiology Biotechnology & Environmental Sciences (ISSN no. 0972-3005) ▪ International Journal of Dairy Sciences (ISSN no. 1811-9743) ▪ American Journal of Food Technology (ISSN no. 1557-4571) ▪ Research Journal of Microbiology (ISSN no. 1816-4935) ▪ World Journal of Dairy & Food Sciences (ISSN no. 1817-308X) ▪ Journal of Applied Sciences (ISSN no. 1812-5654) ▪ Journal of Industrial Pollution Control (ISSN no. 0257-8050) ▪ Journal of Ecology, Environment & Conservation (ISSN no. 0971-765X)
Reviewer/	▪ Process Biochemistry (ISSN no. 1359-5113) ▪ Biochemical Engineering Journal (ISSN no. 1369-703X)

referee of journals	▪ Food and Bioprocess Technology (ISSN no. 1935-5130) ▪ International Journal of Food Science and Technology (ISSN no. 1365-2621) ▪ Carbohydrate Polymers (ISSN no. 0144-8617) ▪ Journal of Food Process Engineering (ISSN no. 1745-4530) ▪ Journal of Chemical Technology & Biotechnology (ISSN no. 1097-4660) ▪ International Journal of Biological Macromolecules (ISSN no. 0141-8130) ▪ Letters in Applied Microbiology (ISSN no. 1472-765X) ▪ Chemical Engineering Communications (ISSN no. 0098-6445) ▪ Dairy Science & Technology (ISSN no. 1958-5586) ▪ Chemical Engineering Journal (ISSN no. 1385-8947) ▪ International Journal of Carbohydrate Chemistry (ISSN no. 1687-9341) ▪ Journal of Applied Sciences (ISSN no. 1812-5654) ▪ Journal of Toxicology and Environmental Health Sciences (ISSN no. 2006-9820) ▪ International Journal of Dairy Sciences (ISSN no. 1811-9743) ▪ African Journal of Food Science and Technology (ISSN no. 1557-4571) ▪ The Canadian Journal of Chemical Engineering (ISSN no. 1939-019X) ▪ Research Journal of Microbiology (ISSN no. 1816-4935) ▪ Indian Journal of Microbiology (ISSN no. 0046-8991)
Memberships of professional societies	▪ Life Member of *International Forum on Industrial Bioprocesses (IFIBiop)* ▪ Life Member of *Indian Science Congress Association (ISCA)*, India. ▪ Life member of *Biotechnology Research Society of India (BRSI)*. ▪ Life member of *Association of Microbiologists of India (AMI)*. ▪ Life Member of *Indian Society for Technical Education (ISTE)*, India. ▪ Life Member *Association of Food Scientists and Technologists (AFSTi)*, India ▪ Life Member of *Punjab Academy of Sciences (PAS)*, India.
Abroad Visits	▪ Chembiotech Labs, University of Birmingham Research Park, Birmingham, **United Kingdom** ▪ International Center for Genetic Engg. & Biotechnology (ICGEB), Trieste, **Italy** ▪ British Columbia Institute of Technology, Vancouver, **Canada** ▪ University of Zurich, **Switzerland**. ▪ Chinese Academy of Agricultural Sciences, Beijing, **China** ▪ Asian Institute of Technology, Bangkok, **Thailand** ▪ **USA, Germany, France**

(Parmjit S. Panesar)

ANNEXURE-I

Research Papers/Reviews published in National/International Journals

1. Rachna Sehrawat, **Parmjit S. Panesar**, Tanya L. Swer, Anit Kumar (2017) Response surface methodology (RSM) mediated interaction of media concentration and process parameters for the pigment production by *Monascus purpureus* MTCC 369 under solid state fermentation. *Pigment & Resin Technology*, **46**: 14–20.
2. V Bali, **PS Panesar** and MB Bera (2016). Trends in utilization of agro-industrial byproducts for production of bacteriocins and their biopreservative applications. *Critical Reviews in Biotechnology*, **6**: 204-214.
3. V. Bali, **Parmjit S. Panesar**, Manab B. Bera, and John F. Kennedy (2016) Bacteriocins: Recent trends and potential applications. *Critical Reviews in Food Science and Nutrition*, **56**: 817-834
4. **Parmjit S. Panesar**, Rupinder Kaur, Gisha, Rajender S. Sangwan (2016) Bio-Processing of agro-industrial wastes for the production of food grade enzymes: Progress and Prospects. *Applied Food Biotechnology*, 3 (4):208-227
5. **P.S. Panesar** and S. Kaur (2016) Screening of media components and process parameters for production of L(+) lactic acid from potato waste liquid using amylolytic *Rhizopus oryzae*. pp. 1 –11 (DOI: http://dx.doi.org/10.1556/066.2016.0013) (Published online)
6. **Parmjit S. Panesar** and Shubhneet Kaur (2015) Bioutilisation of Agro-industrial Waste for Lactic Acid Production. *International Journal of Food Science and Technology*, 50: 2143-2151.
7. Basharat Yousuf, **Parmjit S. Panesar,** Harish K. Chopra and Khalid Gul (2015) Characterization of secondary metabolites from various solvent extracts of saffron floral waste. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* DOI 10.1007/s40011-015-0547-4
8. S. Kaur, **P.S. Panesar***, M.B. Bera and V. Kaur (2015) Simple Sequence Repeat Markers in Genetic Divergence and Marker Assisted Selection of Rice Cultivars: A Review. *Critical Reviews in Food Science and Nutrition*, 55: 41-49 Doi: 10.1080/10408398.2011.646363
9. V. Bali, **P.S. Panesar***, M.B. Bera and R. Panesar (2015) Fructo-oligosaccharides: Production, purification and potential applications. *Critical Reviews in Food Science and Nutrition*, 55: 1475-1490.
10. Reeba Panesar, Shubhneet Kaur, **Parmjit S. Panesar** (2015) Production of microbial pigments utilizing agro-industrial waste: a review. *Current Opinion in Food Science*, 1: 70-76.

11. Gisha, **Parmjit S. Panesar*,** Manab B. Bera and Shubhneet Kaur (2014) Bioutilization of whey for ethanol production using yeast isolate. *International Journal of Food and Fermentation Technology*, 4: 107-112.
12. Varinder Kaur, M.B. Bera, **P.S. Panesar**, H.K. Chopra and J.F. Kennedy (2014) Welan Gum: Microbial Production, Characterization**,** and Applications. *International Journal of Biological Macromolecules* 65: 454-461.
13. V. Bali, **P.S. Panesar** and M.B. Bera (2014). Potential of immobilization technology in bacteriocin production and antimicrobial packaging: A Review. *Food Reviews International*, 30(3): 244-263
14. **P.S. Panesar**, V. Bali and S. Rani (2014) Physico-chemical, textural and sensory analysis of aloe vera fortified probiotic yoghurt. *Current Nutrition and Food Sci*ence 10: 228-233.
15. V. Bali, **P.S. Panesar** and M.B. Bera (2014) Utilization of agro-industrial byproducts for bacteriocin production using newly isolated Enterococcus faecium BS13. *International Journal of Biological, Veterinary, Agricultural and Food Engineering* 8(6): 507-511.
16. Shubhneet Kaur, **Parmjit S. Panesar**, Manab B. Bera and Shweta Kumari (2014) Physicochemical, textural, pasting, and in vitro digestion properties of some basmati and non-basmati rice cultivars. *International Journal of Food Properties*, 17: 1055-1066
17. Reeba Panesar, **Parmjit S. Panesar** and Manab B. Bera (2014) Evaluation of different media for fermentative production of biopigments using yeast cultures. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences* 16:163-168.
18. S. Kumari, **P.S. Panesar***, M.B. Bera and H.K. Chopra (2014) Comparative studies on physico-chemical characterization of yeast cells entrapped with alginate and hybrid beads. Iranian Polymer Journal, 23: 111-119.
19. **P.S. Panesar***, S. Kumari and R. Panesar (2013) Biotechnological approaches for the production of Prebiotics and their potential applications. *Critical Reviews in Biotechnolog*y, 33(4): 345-364.
20. S. Kumari, **P.S. Panesar*** and M.B. Bera (2013) Statistical modeling of β-galactosidase production from novel yeast isolate using cheese whey. *Journal of Scientific & Industrial Research* (Accepted)
21. V. Kaur, M.B. Bera*, **P.S. Panesar**, H.K. Chopra (2013) Production and characterization of exopolysaccharide produced by *Alcaligenes faecalis* B14. *International Journal of Biotechnology and Bioengineering Research. 4:* 365-374
22. S. Kumari, **P.S. Panesar***, M.B. Bera and Reeba Panesar (2013) Permeabilization of a newly isolated Kluyveromyces sp. for the preparation of whole cell biocatalysis with β-galactosidase activity. *International Journal of Food and Nutritional Sciences* 2(1): 22-26

23. V. Bali **P.S. Panesar*** and Manab B. Bera (2013) Effect of bacteriocin extracted from *Enterococcus faecium* BS 13 on shelf life of paneer and khoya. *International Journal of Food and Nutritional Sciences* 2(1): 5-11
24. V. Bali, **P.S. Panesar*** and M.B. Bera (2013) Physiological, biochemical and molecular characterization of potential bacteriocin producer strain isolated from fermented barseem. *Acta Alimentaria* 43(4): 515-525.
25. S.M.R. Joshi, M.B. Bera and **P.S. Panesar*** (2012) Extrusion cooking of maize/spirulina mixture: factors affecting expanded product characteristics and sensory quality. *Journal of Food Processing and Preservation* 38(2): 655-664
26. V. Bali, **P.S. Panesar*** and M. B. Bera (2012). Biopreservation: An emerging tool in food processing industry. *Beverage and Food World* 39(10): 50-59
27. S. Kaur, **P.S. Panesar*** and M. B. Bera (2012). Genetically modified foods: Global status, potential benefits and safety concerns. *Journal Punjab Academy of Sciences* 9-10(1&2): 28-33
28. **P. S. Panesar*** and John F Kennedy (2012) Biotechnological approaches for the value addition of whey. *Critical Reviews in Biotechnology* 32(4): 327-348
29. **P.S. Panesar*,** Y. Chavan, H.K. Chopra, and J.F. Kennedy (2012) Production of microbial cellulose: Response surface methodology approach, *Carbohydrate Polymers* 87: 930– 934
30. **P.S. Panesar*** and Shweta Kumari (2011) Lactulose: Production, Purification and Potential applications. *Biotechnology Advances,* 29: 940–948
31. S.K. Nayak, **P.S. Panesar** and H. Kumar* (2011) Non-genotoxic p53-activators and their significance as antitumor therapy of future. *Current Medicinal Chemistry* 18: 1038-1049.
32. **P.S. Panesar*** (2011) Fermented dairy products: Starter cultures and potential nutritional benefits. *Food and Nutrition Sciences* 2: 47-51
33. S. Kaur, **P.S. Panesar*** and M.B. Bera (2011) Studies on evaluation of grain quality attributes of some basmati and non basmati rice cultivars. *Journal of Food Quality* 34: 435-441
34. V. Bali, **P.S. Panesar*** and M.B. Bera (2011) Isolation, screening and evaluation of antimicrobial activity of potential bacteriocin producing lactic acid bacteria isolate. *Microbiology Journal* 1(3): 113-119
35. **P.S. Panesar*** and C. Shinde (2011) Effect of storage on syneresis, pH, lactobacillus acidophilus count, *Bifidobacterium bifidum* count of Aloe vera fortified probiotic yoghurt. *Current Research in Dairy Sciences* 4: 17-23
36. R. Panesar, **P.S. Panesar*** and M.B. Bera (2011) Development of low cost medium for the production of biosurfactants. *Asian Journal of Biotechnology* 3(4): 388-396
37. S. Kumari, **P.S. Panesar*** and M.B. Bera (2011) Production of β-galactosidase using Novel Yeast Isolate from Whey. *International Journal of Dairy Science* 6(2): 150-157

38. S. Kumari, **P.S. Panesar*,** M.B. Bera and B. Singh (2011) Permeabilization of yeast cells for β-galactosidase activity using mixture of organic solvents: a response surface methodology approach. *Asian Journal of Biotechnology* 3(4): 406-414
39. S.K. Nayak, H. Kumar***** and **P.S. Panesar** (2011) Synthesis of various dithiocarbamate esters through regioselective thiolation of 2-aminothiazole. *International Journal of Pharmaceutical Chemistry* 1
40. R. Panesar, **P.S. Panesar**, R.S. Singh, J.F. Kennedy* (2011) Hydrolysis of milk lactose in a packed bed reactor system using immobilized yeast cells. *Journal of Chemical Technology and Biotechnology* 86: 42-46
41. S.K. Nayak, **P.S. Panesar** and Harish Kumar* (2011) Synthesis and molecular field similarity study of p53 inhibitory activity of Thiazol-2-yl dithiocarbamate esters. I*nternational Journal of Research in Pharmaceutical and Biomedical Sciences* 2: 850-855
42. R. Panesar, **P.S. Panesar***, N. Kumar and M.B. Bera (2010) Evaluation of bacterial strains for biosurfactant production from agro-industrial waste. *Asian Journal of Microbiology Biotechnology & Environ. Sciences*.12: 33-38
43. B. Singh, **P.S. Panesar**, V. Nanda and J.F. Kennedy* (2010) Optimization of osmotic dehydration process of carrot cubes in mixture of sucrose and sodium chloride solution. *Food Chemistry* 123: 590-600
44. **P.S. Panesar***, Shweta Kumari, and R. Panesar (2010) Potential applications of immobilized β-galactosidase in food processing industries. *Enzyme Research*, Article ID 473137, 16 pages
45. **P.S. Panesar***, J.F. Kennedy, C.J. Knill and M.R. Kosseva (2010) Production of L(+) lactic acid by *Lactobacillus casei* from whey. *Brazilian Archives of Biology and Technology* 53: 219-226.
46. **P.S. Panesar***, N. Kumar, S.S. Marwaha, and V.K. Joshi (2009) Vermouth production technology: An overview. *Natural Product Radiance* 8: 334-344
47. **P.S. Panesar***, G. Kaur, R. Panesar and M.B. Bera (2009) Synbiotics: potential dietary supplements in functional foods. (http://www.foodsciencecentral.com/fsc/ixid15649). *FST Bulletin, Food Science Central*, IFIS Publishing UK
48. **P.S. Panesar***, Y.V. Chavan, M.B. Bera, O. Chand and H. Kumar (2009) Evaluation of *Acetobacter* strain for the production of microbial cellulose. *Asian Journal of Chemistry* 21: 099-102
49. **P.S. Panesar***, R. Panesar and B. Singh (2009) Application of response surface methodology in the optimization of process parameters for the production of kinnow wine. *Natural Product Radiance* 8: 366-373

50. Reeba Panesar, **P.S. Panesar***, D. Hasija, M.B. Bera and Harish Kumar (2009) Fermentative potential of *Pseudomonas aeruginosa* strain for biosurfactant production *Biological Forum-An International Journal*. 1: 102-105
51. Gurpreet Kaur, **P.S. Panesar***, M.B. Bera and B. Singh (2009) Optimization of permeabilization process for lactose hydrolysis in whey using response surface methodology. *Journal of Food Process Engineering* 32: 355–368
52. Gurpreet Kaur, **P.S. Panesar***, M.B. Bera and H. Kumar (2009) Hydrolysis of whey lactose using CTAB-permeabilized yeast cells. *Bioprocess & Biosystems Engineering* 32: 63-67
53. M.R. Kosseva*, **P.S. Panesar**, G. Kaur, and J.F. Kennedy (2009) Use of immobilised biocatalysts in the processing of cheese whey. *International Journal of Biological Macromolecules* 45: 437-447
54. S.K. Nayak, P.S. Panesar and H. Kumar* (2009) p53- induced apoptosis and inhibitors of p53. *Current Medicinal Chemistry*, 16: 2627-2640
55. **P.S. Panesar*** (2008) Application of response surface methodology in the permeabilization of yeast cells for lactose hydrolysis. *Biochemical Engineering Journal* 39: 91-96
56. A. Thakur, **P.S. Panesar*** and M. Singh (2008) Parametric optimization of lactic acid extraction from aqueous solution in a mixed flow reactor using emulsion liquid membrane by response surface methodology. *Chemical and Biochemical Engineering Quarterly* 22: 157-167
57. B. Singh*, **P.S. Panesar** and V. Nanda (2008) Optimization of osmotic dehydration process of carrot cubes in sucrose solution. *Journal of Food Process Engineering*. 31: 1-20
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ANNEXURE-II

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ANNEXURE- III

Full papers in Conference Proceedings

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2) P.S. Panesar (2014) Statistical modeling for permeabilization of a novel yeast isolate for β-galactosidase activity using organic solvents. In International Conference on Agricultural and Food Engineering (ICAFE 2014) held at New York (USA) from June 5-6, 2014.
3) P.S. Panesar (2012) Permeabilization of a newly isolated *Kluyveromyces* sp. for the preparation of whole cell biocatalysts with β-galactosidase activity International Conference on Food Technology for Health Promotion (ICFTHP-2012) Jawaharlal Nehru University, New Delhi from Dec 27-28, 2012.

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