

Department of Food Processing Technology

Dr. Rupinder Pal Singh

Research Publications

Research/Review Papers:

1. Singh R.S., **Singh R.P.** & Kennedy J.F. (2017). Immobilization of yeast inulinase on chitosan beads for the hydrolysis of inulin in a batch system. *Int. J. Biol. Macromol.* **95**: 87-93.
2. Singh R.S., **Singh R.P.** & Kennedy J.F. (2016). Endoinulinase production by a new endoinulinase producer *Aspergillus tritici* BGPUP6 using a low cost substrate. *Int. J. Biol. Macromol.* **92**: 1113-1122.
3. Singh R.S., **Singh R.P.** & Kennedy J.F. (2016). Recent insights in enzymatic synthesis of fructooligosaccharides from inulin. *Int. J. Biol. Macromol.* **85**: 565-572.
4. Singh R.S. & **Singh R.P.** (2014). Response surface optimization of endoinulinase production from a cost effective substrate by *Bacillus safensis* AS-08 for hydrolysis of inulin. *Biocatal. Agric. Biotechnol.* **3**: 365-372.
5. Singh R.S., **Singh R.P.** & Yadav M. (2013). Molecular and biochemical characterization of a new endoinulinase producing bacterial strain of *Bacillus safensis* AS-08. *Biologia* **68**: 1028-1033.
6. Singh R.S. & **Singh R.P.** (2010). Production of fructooligosaccharides from inulin by endoinulinases and their prebiotic potential. *Food Technol. Biotechnol.* **48**: 435-450.

Sequence Submitted

1. Singh R.S., **Singh R.P.** & Singh T. (2014) Sequence of 18s rDNA of *Aspergillus tritici* BGPUP6 submitted to Genbank (**Accession No. KP780810**).
2. Singh R.S. & **Singh R.P.** (2012). Sequence of 16s rDNA of *Bacillus safensis* AS-08 submitted to GenBank (**Accession No. JX849661**).

Book Chapters

1. Singh R.S., Chauhan K. & **Singh R.P.** (2018). Trends in Enzymatic Synthesis of High Fructose Syrup. **In:** *Technologies in Food Processing*. Sharma H.K. & Panesar P.S. (Eds.), Apple Academic Press, New Jersey, USA, pp. 81-108.
2. Singh R.S., Chauhan K. & **Singh R.P.** (2017). Enzymatic approaches for the synthesis of high fructose syrup. **In:** *Plant Biotechnology: Recent Advancements and Developments*. Gahlawat S.K., Salar R.K., Siwach P., Duhan J.S., Kumar S. & Kaur P. (Eds.), Springer, Singapore, pp. 189-211.
3. Singh R.S. & **Singh R.P.** (2017). Inulinases. **In:** *Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products*. Pandey A., Negi S. & Soccol C.R. (Eds.), Elsevier Science and Technology, Amsterdam, The Netherlands, pp. 423-446.

Presentations and Workshops

1. **Rupinder Pal Singh*** & Amrit Singh (2020). Gamma Radiation Impact on Dairy Wastewater Treatment. “23rd Punjab Science Congress-2020”, SLIET, Longowal, Punjab.
2. **Rupinder Pal Singh*** (2019). Media optimization for industrial microbiology: Application of response surface methodology and artificial neural networks. “National seminar on Advances in Mathematical and Information Sciences”, SGTB Khalsa College, Sri Anandpur Sahib.

Poster Presentations

1. Amandeep Kaur & **Rupinder Pal Singh*** (2020). Stevia: An Ideal Bio-sweetener. “23rd Punjab Science Congress-2020”, SLIET, Longowal, Punjab.
2. Simran Sen, Pritbha Singh & **Rupinder Pal Singh*** (2020). Development and Standardization of Bread using Pearl Millet Flour as a Partial Replacement of Refined Wheat Flour. “23rd Punjab Science Congress-2020”, SLIET, Longowal, Punjab.
3. Ram Sarup Singh & **Rupinder Pal Singh** (2016). Enhanced Production of Endoinulinase from *Bacillus safensis* AS-08 in a Stirred Tank Reactor. “National Conference on Technologies in Sustainable Food Systems (TSFS-2016)”, SLIET, Longowal, Punjab.
4. Ram Sarup Singh, **Rupinder Pal Singh** & Veerpal Kaur (2014). Molecular characterization of a new inulinase producer *Mucor rufescens* BG-1. “International Conference on Emerging Trends in Biotechnology (ICETB-2014)”, Jawaharlal Nehru University, New Delhi.
5. Ram Sarup Singh & **Rupinder Pal Singh** (2013). Statistical optimization of endoinulinase production from raw dahlia inulin by *Bacillus safensis* AS-08 for the hydrolysis of inulin. Rupinder “International Conference on Advances in Biotechnology and Bioinformatics (ICABB-2013)”, DY Patil University, Pune, Maharashtra.
6. Ram Sarup Singh & **Rupinder Pal Singh** (2012). Molecular and biochemical characterization of a new endoinulinase producing bacterial strain of *Bacillus safensis* AS-08. “International Conference on Industrial Biotechnology (ICIB-2012)”, Punjabi University, Patiala, Punjab.