



**DR. BARINDERJIT SINGH**

## **OFFICE ADDRESS**

Assistant Professor (Food Technology)  
Department of Food Science and Technology  
I. K. Gujral Punjab Technical University  
Jalandhar-Kapurthala Highway  
Near Pushpa Gujral Science City  
Kapurthala-144601  
Punjab (India)  
Ph. No – +91-9478098069  
Email: [dr.bsingh@ptu.ac.in](mailto:dr.bsingh@ptu.ac.in); [barinderjitsaini@gmail.com](mailto:barinderjitsaini@gmail.com)

## **HIGHLIGHTS OF SKILL, EXPERIENCE AND QUALIFICATION**

- Ph. D in Food Technology, M. Tech in Food Engineering & Technology and B. Tech in Food Technology
- MBA in Operations Management
- Certified Lead auditor for ISO-9000 Series & HACCP and Certified Internal Auditor for ISO-22000 series.
- 14+ years of academic experience in teaching Engineering & Management courses.
- 4 years' work experience in Canned, Glass Jars & Frozen Food Industries.
- Over 100 scientific papers in different national/international journals and conferences in the area of Food Science/Technology/Engineering/Management, along with 20 Book chapters and 13 Books
- Patent granted: 10

## EDUCATIONAL QUALIFICATION

- French language course-Level I (2022), I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India.
- PhD - Food Technology (2017), Guru Nanak Dev University, Amritsar, Punjab, India. (CGPA 10/10).
- M.Tech. - Food Engineering & Technology (2009), Sant Longowal Institute of Engg. and Technology (Deemed-to-be-University), Longowal, Punjab, India. (CGPA 10/10).
- PG Diploma - Dairy Technology (2009), Annamalai University, Chidambaram, Tamil Nadu (Distance education), India.
- MBA in Operations Management (2006), Punjab Technical University, Jalandhar (Distance education), Punjab, India..
- B. Tech - Food Technology with distinction (2003), Guru Nanak Dev University, Amritsar, Punjab, India..
- Diploma in Export Management (2003), Indian Institute of Export Management, Bengaluru, Karnataka, India (Correspondence).
- Advance Diploma in French (2003), Guru Nanak Dev University, Amritsar, Punjab, India. (Part-Time).
- Diploma in French (2002), Guru Nanak Dev University, Amritsar, Punjab, India. (Part-Time).
- Certificate in French (2001), Guru Nanak Dev University, Amritsar, Punjab, India. (Part-Time).

## ACADEMIC EXPERIENCE

Sr. No.	Organization	Designation	Period
1.	I.K.G. Punjab Technical University, Kapurthala, Punjab, India	Assistant Professor, Department of Life Sciences and Technology	March 9, 2011 to Present
2.	Sant Longowal Institute of Engg. and Technology, SLIET (deemed-to-be-university), Longowal, Punjab, India	Assistant Professor (Contractual), Department of Food Engg. And Technology	August 2, 2010 to March 8, 2011
3.	Jaipur National University, Jagatpura, Jaipur, Rajasthan, India	Lecturer, Department of Food Technology	September 16, 2009 to July 31, 2010
4.	Institute of Computer Services (Authorized Distance	Part-Time Senior Faculty Member	October 1, 2006 to July 30, 2007

## **INDUSTRIAL EXPERIENCE**

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<b>Sr. No.</b>	<b>Organization</b>	<b>Designation</b>	<b>Period</b>
1.	Agro Dutch Industries Limited, Punjab, India	Quality Assurance Manager	January 1, 2006 to July 15, 2007
2.	Premier Mushroom Farm (Unit of Premier Explosive Group), Secundrabad, India	Deputy Manager of R & D	July 29, 2005 to December 31, 2005
3.	Agro Dutch Industries Limited, Punjab, India	Quality Assurance/ Control Manager	June 16, 2003 to June 25, 2005

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## **AUDITOR, LEAD AUDITOR & OTHER FOOD-RELATED COURSES**

- Attended Awareness Programmes on Food Safety, Standards & Quality organized by QCI, October 2008.
- Lead Auditor course for ISO 9000:2000 Series from CII, April, 2007.
- Lead Auditor course for HACCP from SGS, April, 2007.
- Certificate Course in HACCP Awareness from BVQI, January, 2005.
- Certificate Programs of HACCP, GMP, Can Inspection, Plant Hygiene & Sanitation, Retort Operation organized by Daniel Brookes, owner of I.F.T., Thailand, March, 2004.

## **RESEARCH AREA**

- Valorization of food waste
- Development of functional foods and nano-emulsion
- Biofortification of nutrients among different cereals and pulses.
- Diversity in bioactive compounds among different pulses, cereals, fruits and vegetables.
- Optimization of extraction conditions for polyphenols extraction from different biomaterials using response surface methodology.
- Impact of advertisement on food eating habits of consumers
- AI and machine learning in food supply chain and business management

## **THESIS SUPERVISED**

- Currently supervising 3 PhD, and 5 M.Sc. Students at Department of Food Science and Technology, I.K.G. Punjab Technical University.

- Supervised 16 M. Tech and 21 M.Sc. Thesis at Department of Food Science and Technology, I.K.G. Punjab Technical University

**PhD. Thesis**

S.no.	Name of Candidate	Title of thesis/dissertation	Name of course	Year of Completed
1	Abhishek Sharma	Diversity of polyphenolic compounds among different parts of Kainth Fruit	PhD.	Pursuing (Registered in 2021)
2	Sahil Chaudhary	Valorization of grapefruit waste through innovative technologies in the development of novel edible coating.	PhD.	Pursuing (Registered in 2021)
3	Simple Sharma	Valorization of pomelo waste through innovative technologies in the development of novel edible coating.	PhD.	Pursuing (Registered in 2021)

**Post-Graduate Thesis**

S.no.	Name of Candidate	Title of thesis/dissertation	Name of course	Year of Completed
1.	Niti Sharma	Bioactive components in raw and different processed products of an underutilized legume <i>Macrotyloma uniflorum</i> and their effects on type-II diabetes	M.Tech.- FT (Nutrigenomics)	2014
2.	Manpreet Kaur Saini	Extraction of bioactive components and preparation of jam from <i>Solanum nigrum</i> and their effects on type-II diabetes	M.Tech.- FT (Nutrigenomics)	2015
3.	Menka Saini	Bioactive components (volatile and non-volatile) in <i>Quisqualis indica</i> and preparation of the functional beverage	M.Tech.- FT (Nutrigenomics)	2015
4.	Sanjeev Sharma	Bioactive components in the raw and dehydrated product of blue-green algae	M.Tech.- FT (Nutrigenomics)	2015
5.	Abhishek Chaudhary	Diversity of polyphenolic compounds among different parts of Kusum fruit	M.Tech.- FT	2018
6.	Sonia Mahajan	Diversity of polyphenolic compounds among different legumes	M.Tech.- FT	2019
7.	Aayush	Iron biofortification of soaked and	M.Sc. FT	2019

	Wadhwa	germinated sorghum: effect on proximate composition, bioactive		
8.	Mandeep Kaur	Effect of dehydration techniques on the proximate composition, iron content, bioactive and functional properties of different parts of water chestnut	M.Sc. FT	2019
9.	Nikita Dixit	Optimization of bioactive components from maize and their Physicochemical analysis	M.Sc. FT	2019
10.	Samridhi Mandeel	Iron Biofortification of Maize with Soaking and Germination: Effect on Reducing Sugar and Polyphenolic Compounds	M.Sc. FT	2019
11.	Suraj Prabha	Engineering Properties and Drying Behaviour of Different Varieties of Carrot	M.Sc. FT	2020
12.	Abhishek Sharma	Study on Different Engineering Properties of Kainth Fruit	M.Tech.	2020
13.	Abhishek Bhargav	Methodology Development of Muffins with Bioactive Components	M.Sc.	2020
14.	Jasmin Kaur Cheema	Methodology Development for Noodle Making From Kidney Beans	M.Sc.	2020
15.	Manpreet Kaur	Engineering Properties of Major Legumes	M.Tech.	2020
16.	Amy Masih	Engineering Properties of Different Beans	M.Tech.	2020
17.	Monika Thakur	Development of Black Rice Wine With Improved Nutritional and Organoleptic Traits	M.Tech.	2020
18.	Vani Ramachandran	Methodology Development of Combined Beetroot and Kinnow Wine Production	M.Tech.	2020
19.	Manpreet Kaur	Effect of dehydration on food properties of Muskmelon ( <i>Cucumis melo.</i> )	M.Tech.	2021
20.	Amy Masih	Effect of dehydration on food properties of watermelon ( <i>Citrullus lanatus</i> )	M.Tech.	2021
21.	Drishiti Gupta	Effect of different extraction conditions on the polyphenolic content isolated from kidney beans ( <i>Phaseolus vulgaris</i> ) seed	M.Sc.	2021
22.	Abhishek Pandey	Effect of different extraction conditions on Extraction of polyphenols from black rice ( <i>Oryza sativa</i> L.)	M.Sc.	2021
23.	Shymali Vidya	Effect of darkness and light on the germination of the black gram (Vigna Mungo)	M.Tech.	2022
24.	Mukul Zade	Comparative study of the extraction of essential oils from different citrus fruit waste.	M.Tech.	2023
25.	Dakshan Kumar N.	Comparative study of different dehydrated ginger-based formulations for treating thyroid dysfunction	M.Tech.	2023
26.	Ravi Kumar Sah	Comparative study of food properties of Kinnow Mandarin ( <i>Citrus reticulata</i> ) and Murcott Mandarin ( <i>C. reticulata x sinensis</i> )	M.Sc.	2023
27.	Deepika Kumari	Effect of dehydration on nutritional and polyphenolic content of Citron ( <i>Citrus medica</i> )	M.Sc.	2023
28.	Laishram	Physico-chemical, functional, texture and	M.Sc.	2023

	Genish Singh	sensory characteristics of germinated kidneybean flour supplemented wheat based chapattis		
29	Pratibha Sharma	Physico-chemical, functional, texture and sensory characteristics of germinated chickpea flour supplemented wheat-based chapattis	M.Sc.	2023

### Professional development programs

(Faculty Development Programs, Orientation Program, Refresher Course, Short Term Course, Workshop, Symposium, Seminar, Webinar, Conference)

### Faculty Development Program

Year	Title of the Faculty Development Program	Name of organizer	Duration	Date (from-to)	Mode
2022	Applications of computing Techniques in sustainable energy systems	AICTE-IKGPTU	One week	June 15-20, 2022	Offline
2022	Advancement in the methodologies for the development of synthetic materials	AICTE-IKGPTU	One week	June 6-11, 2022	Offline
2021	"FDP on Social Entrepreneurship	AICTE Training And Learning (ATAL) and Entrepreneurship Development Institute of India	One week	October 04-08, 2021	Online
2021	"FDP in Entrepreneurship	AICTE Training And Learning (ATAL) and Entrepreneurship Development Institute of India	One week	September 20-24, 2021	Online
2021	Novel Technological Approaches for Utilization of Food Industry Waste	AICTE Training And Learning (ATAL) and National Institute of Food Technology Entrepreneurship and Management (NIFTEM)	One week	September 13-17, 2021	Online
2021	Agri Entrepreneurship	AICTE Training And Learning (ATAL) and Entrepreneurship Development Institute of India	One week	August 23-27, 2021	Online
2021	Aqua-Food Technology (Emerging Food Processing Technologies: Prospects and Challenges for Food and	AICTE Training And Learning (ATAL) and Tezpur University	One week	January 4-8, 2021	Online

	Nutrition)						
2020	Computer Science & Biology	AICTE And (ATAL) Lakshmi College of Technology	Training Learning and Narain	One week	December 15-19, 2020	Online	
2020	Postharvest and Processing (Food Technology)	AICTE And (ATAL) and National Institute of Food Technology Entrepreneurship and Management	Training Learning Academy of	One week	November 02-06, 2020	Online	
2020	Pedagogical Techniques for Virtual Classroom	Dr SSBUI CET, Panjab University & DUIET, Dibrugarh University (under the aegis of TEQIP- III project)		One week	September 2-6, 2020	Online	
2020	Teaching and Learning in Higher Education	International Institute of Education Research & Training and Eudoxia Research Centre, India		One Month	July 20, 2020 to August 14, 2020	Online	
2020	Current Progress and Future Prospects of Biotechnology	Chaitanya Bharathi Institute of Technology, Hyderabad and Andhra Pradesh Akademi of Sciences		One week	June 8-13, 2020	Online	
2020	Research and Innovation	Sri Sai College of Management & Information Technology, Badhani-Pathankot		One week	June 05-09, 2020	Online	
2020	Enhancing Research Capabilities	Society of Materials and Mechanical Engineers (SOMME), Bathinda and AICTE		One week	June 2020 1-5,	Online	
2020	Research Methodology: Tools & Techniques	Inspira Research Association (IRA) & LBG PG College, Jaipur		3 days	May 29-31, 2020	Online	
2020	Challenges in Building Collaborations in Research and Innovation	Dr M.G.R. Educational and Research Institute, Tamilnadu, India		One day	May 09,2020	Online	
2020	LaTex	Sri Sai College of Engineering and Technology, Badhani, Pathankot, in association with		Two week	23rd March to 4th April 2020	online	

IIT Bombay Spoken Tutorial (An initiative of the National Mission on Education through ICT, MHRD, Govt of India)

2019	FDP on Fostering Creativity and Innovation in Entrepreneurship	National Institute of Technical Training and Research, Chandigarh & I.K.Gujral Punjab Technical University, Jalandhar, Kapurthala	One week	December 16, 2019	offline
2019	Internet of Things	AICTE Training and Learning Academy, Jaipur	One week	Dec 02, 2019	offline
2019	Modern Tools and Techniques for Teacher and research	AICTE-IKGPTU	One week	November 18, 2019	offline
2012	Basics of Structural Equation Modeling	Jointly organized by Punjab Technical University and the University of North Carolina (UNC), USA	One day	December 14, 2012	offline

### **Short Term Program/Training**

<b>Year</b>	<b>Title of the Short-Term Program/Training</b>	<b>Name of organizer</b>	<b>Duration</b>	<b>Date (from-to)</b>	<b>Mode</b>
2023	Phyton for non-programmers	Linked in learning	Self-learning	July 17, 2023	Online
2023	SQL for data analysis	Linked in learning	Self-learning	July 9, 2023	Online
2023	Introduction to Linux	Linked in learning	Self-learning	July 8, 2023	Online
2023	Data analytics for students	Linked in learning	Self-learning	July 6, 2023	Online
2021	Bakery Technology Course	AIBTM	Three week	January 25-February 12, 2021	Online
2020	Academic Writing	Swayam and HNB Garhwal University	15 week	Self-paced	Online
2020	'Innovative and Responsible Research Practices' (IRRP-2020)	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, Sangrur and AICTE	One week	September 15-20, 2020	Online



2020	Transfer Learning for Food Classification	Coursera Project Network and offered through Coursera	2 hrs	Flexible (Self-paced)	Online
2020	The Meat We Eat	University of Florida and offered through Coursera	Seven weeks	Flexible (Self-paced)	Online
2020	Grammar and Punctuation	University of California, Irvine and offered through Coursera	Four weeks	Flexible (Self-paced)	Online
2020	Google Ads for Beginners	Coursera Project Network and offered through Coursera	2 hrs	Flexible (Self-paced)	Online
2020	Food & Beverage Management	Università Bocconi and offered through Coursera	Five weeks	Flexible (Self-paced)	Online
2020	Wine Tasting: Sensory Techniques for Wine Analysis	University of California, Davis and offered through Coursera	Five weeks	Flexible (Self-paced)	Online
2020	Create Informative Presentations with Google Slides	Coursera Project Network and offered through Coursera	Two hours	Flexible (Self-paced)	Online
2020	Journal Citation Reports (JCR) Certification	Web of Science Group, A Clarivate Analytics Company, South Asia		Flexible date	Online
2020	The Kahoot app Training	Kahoot		Flexible	Online
2020	Virtual Class Room 2020	PCTI and Center for Future Technology, New Delhi		June 15-20, 2020 (12 hrs Course)	Online
2020	Dairy Business Management	Department of Dairy Technology, Parul University, Vadodara		June 2020	1-7, online
2020	Research Methodology	A.R. Burla Mahila Varishtha Mahavidyalaya, Solapur.		May 2020 to June 2020	17, to 01, Online
2020	COVID-19, Guidelines for Food Handlers	Health First in collaboration with FoSTaC and FSSAI, India	Two hours	May 2020	22, Online
2020	15 - Innovation, Incubation, Intrapreneur, Invention & Intellectual Property	S.A. College of Arts & Science	Two week	April 2020 to May 2020	26, to 09, Online

2020	Understanding Open Education Resources	Commonwealth of Learning, Canada	Self-learning	March 22, 2020	online
2020	COVID Awareness – Punjabi	DIKSHA and Department of Personnel and Training, India	Self-learning	May 27, 2020	online
2020	Infection Prevention and Control	DIKSHA and Department of Personnel and Training, India	Self-learning	April 28, 2020	online
2020	Basic of COVID-19	DIKSHA and Department of Personnel and Training, India	Self-learning	April 26, 2020	online
2018	Bio-Imaging for Food Quality Monitoring and Process Automation	GAIN programme of Ministry of Human Resource Development, Government of India Organized by Guru Nanak Dev University, Amritsar, India	Five days	January 5-9, 2018.	Offline
2013	Hands-on Analytical & Molecular Techniques: Biochemical Conversion Technologies for Advanced Biofuels	Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala, India	Three days	19-20th February, 2013	offline
2012	Soft Computing in Process & Product Optimization	Sant Longowal Institute of Engineering & Technology, Sangrur, India	Five days	February 6-10, 2012	Offline

### **Workshop**

<b>Year</b>	<b>Title of the Workshop</b>	<b>Name of organizer</b>	<b>Duration</b>	<b>Date (from-to)</b>	<b>Mode</b>
2020	Recent Advances in Dairy & Food Engineering	Department of Dairy Technology, Parul University, Vadodara and GEA Process Engineering (India) Pvt. Ltd, India	One day	September 15, 2020	Online
2020	Hands-On Workshop On “Patent Searching, Drafting And Filing”	PANIMALAR INSTITUTE OF TECHNOLOGY, Tamil Nadu, in association with	Five days	May 29, 2020 to June 02, 2020	Online

Innovations and Exilyze Intellectual Services, IEEE Computer Society & Computer Society Of

India

2020	Writing Literature Review Article: Weekend	Jointly organized by CAPE Institute of Technology, Levengipuram and Manuscriptpedia	Half day	May 16, 2020	Online
2018	Recent advancements in Thermal Analysis Techniques (DSC, TGA, DTA, TMA, STA)	Jointly organized by KEP Technologies Pvt. Ltd., India and Punjab Technical University, Kapurthala, India	One day	Nov 2, 2018	Offline
2014	Open and Distance Learning on the topic “ Reviewing and Editing of Distance Education Study Material.”	DDE, Punjab Technical University, Kapurthala, India	One day	May 06, 2014	Offline
2014	Writing Self Learning Material for ODL Courses	DDE, Punjab Technical University, Kapurthala, India	One day	March 30, 2014	Offline
2014	Open and Distance Learning on the topic “ Writing Self Learning Material & Assignments.”	DDE, Punjab Technical University, Kapurthala, India	Two days	February 12-13, 2014	Offline
2012	Vedic Mathematics	Punjab Technical University,	Two days	June 21-22, 2012	Offline
2012	Latest Development in the Emerging Green Technologies Based on the Applications of Microwave Energy to Material Processing	Punjab Technical University, Kapurthala, India. (sponsored by DRDO, INSA New Delhi)	One day	August 20-22, 2012	Offline
2011	A-VIEW Basics	NMEICT (MHRD) at Punjab Technical University, Kapurthala, India.	One day	May 20, 2011	Offline
2011	Making & Managing Patents	Punjab Technical University, Kapurthala, India.	One day	March 16, 2011	Offline
2009	New Biology and Plant Engineering	School of Life Sciences, Jaipur National University, Jaipur, India,	Two days	December 1-2, 2009	Offline
2003	Organic Foods-scope, Production & Benefits	Jointly organized by the Association	One day	March 14, 2003	Offline

of Food Science & Technologists, India and Guru Nanak Dev University, Amritsar, India

2002	National & International Food Regulations	Jointly organized by the Association of Food Science & Technologists, India and Guru Nanak Dev University, Amritsar, India	One day	November 11, 2002	Offline
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### **General Orientation Course (GOC)**

<b>Year</b>	<b>Title of the General Orientation Course</b>	<b>Name of organizer</b>	<b>Duration</b>	<b>Date (from-to)</b>	<b>Mode</b>
2015	UGC- Sponsored GOC course	Academic Staff College, Guru Nanak Dev University, Amritsar	28 days	May 5, 2015 to June 1, 2015.	Offline

### **Refresher Course**

<b>Year</b>	<b>Title of the Refresher Course</b>	<b>Name of organizer</b>	<b>Duration</b>	<b>Date (from-to)</b>	<b>Mode</b>
2020	Online refresher programme on MBA- PPC (Management, Business, Administration- Present & Post Crisis	S.A. College of Arts & Science, Chennai, India	21 days	14 April 2020 to 04 May 2020	online
2013	UGC- Sponsored refresher course in the subject "Health & Life Sciences (Food Technology, Nutrition, Home Sciences, Pharmaceutical Sciences, Sports Medicine, Physiotherapy, Bio-Sciences & Physical Education)."	Academic Staff College, Guru Nanak Dev University, Amritsar,	21 days	July 10-30, 2013	offline

### **Webinar**

<b>Year</b>	<b>Title of the Webinar</b>	<b>Name of organizer</b>	<b>Date (from-to)</b>
2020	Food Safety Series- Food Risk Analysis	Department of Food Science and Technology, Pondicherry University, Pondicherry	September 10, 2020
2020	Pulse electric field in foods	ICAR-NAHEP, CAAST and Navsari Agricultural University, Navsari	September 07, 2020
2020	Unblocking the future through emerging precision farming and post-harvest	ICAR-NAHEP, CAAST and Navsari	August 30, 2020

	technologies	Agricultural University, Navsari	
2020	Edible landscape and future food systems for healthy diets	ICAR-NAHEP, CAAST and Navsari Agricultural University, Navsari	August 30, 2020
2020	Recent advances in dairy process engineering	College of Food and Dairy Technology, Koduvalli and Association of Food Scientists & Technologists (India), Chennai Chapter.	August 24-28, 2020
2020	Education 4.0: Reliability Centered Maintenance	School of Mechanical Engineering, Vellore Institute of Technology, Chennai	July 19, 2020
2020	Knowledge sharing on A to Z of Journal Publications (Survey to Citation!!)	Institute for Engineering Research and Publication	May 30, 2020
2020	Food Chemistry to Immunity (Farm to Fork Safety)	Sri Sai College of Management & Information Technology, Badhani-Pathankot	June 12, 2020
2020	Research Article Writing and Publishing in Good Impact Journal	Institute for Engineering Research and Publication	June 13, 2020
2020	Setting a New Normal in Food Processing Sector in Post COVID-19: Opportunities and Challenges	Department of Processing and Food Engineering, College of Technology and Engineering	June 10, 2020
2020	Current progress and future prospects of biotechnology	Department of biotechnology, CBIT, in association with Andhra Pradesh Akademi of Sciences	June 08 to June 13, 2020
2020	Webinar #askRSF part 2: How to Make Your Conference Effective and Efficient	Research Synergy Institute, Bandung	May 20, 2020
2020	Entrepreneurship: Opportunities Post COVID-19	Entrepreneurship Development Cell of Moradabad Institute of Technology, Moradabad	May 16, 2020
2020	Plastic waste- Sources, Production, Management and Handling in Post COVID-19 World	Punjab University Rural Centre Kauni (Shri Muktsar Sahib)	May 18, 2020
2020	Role of dietary spices in human health and wellness	Association of Food Scientists and Technologists (India)	May 16, 2020
2020	Impact of COVID on Entrepreneurship	Center for Management Studies, JAIN (Deemed-To-Be University), Bangalore, India	May 21, 2020
2020	The New Normal in Education	St. Albert's College (Autonomous), Kerala India	May 23, 2020
2020	Modes of Teaching and Learning in Lockdown	SWAYAM-NPTEL Local Chapter, Guru Nanak Dev Engineering College, Ludhiana, India	May 11, 2020
2020	International webinar on Global Economic Development Impact of COVID-19- Issue, Challenges, and the way forward	Jointly organised by IQAC and PG & Research Center of Poona College of Arts, Science & Commerce, Pune, India	May 1, 2020
2020	How to Avoid Fraudulent Image Manipulation	Enago Academy, United States	March 25, 2020
2020	How to Write a Persuasive Academic Book	Enago Academy, United States	May 13,

	Proposal			2020
2020	International webinar on Global Economic Development “Impact of COVID-19: Issue, Challenges and the way forward	Jointly organized by IQAC & department of Commerce, PG & Research Center and BBA CA department of Poona College of Arts, Science & Commerce.		May 1, 2020
2020	Stress Management during Lockdown	MIT Moradabad, U.P., India		May 17, 2020
2020	Student Engaging Classrooms- Online/Offline	University Institute of Engineering and Technology, Panjab University, Chandigarh, India		May 15, 2020
2020	Honey: Natural Immunity Booster to Combat Infectious Diseases & Beekeeping Economics	Career Point University, Himachal Pradesh, India		May 19, 2020

### **Seminar**

<b>Year</b>	<b>Title of Seminar</b>	<b>Name of organizer</b>	<b>Date (from-to)</b>
2013	National Seminar on “Food Processing & Technology (NSFT-13)”	Department of Food Science & Technology, DAV College, Jalandhar,	Feb 22, 2013
2012	One day Seminar on “Mother Tongue & Media: Challenges & Prospects”	Punjab Technical University,	November 29, 2012

### **Symposium**

<b>Year</b>	<b>Title of the Symposium</b>	<b>Name of organizer</b>	<b>Date (from-to)</b>
2012	Biofluid Dynamics of Human Body System	Punjab Technical University,	March 12, 2012

### **Quiz Participation**

<b>Year</b>	<b>Title of the Quiz Participation</b>	<b>Name of organizer</b>	<b>Date (from-to)</b>
2020	Coronavirus Disease (COVID-19) Awareness Quiz, 2020	Department of Biotechnology, TERI School of Advanced Studies, New Delhi	May 27, 2020
2020	an E-Quiz on “ World Milk Day”- Test Your Dairy And Food Product Knowledge	College of Dairy and Food Technology, Udaipur, Rajasthan	June 1, 2020

### **International Conference**

<b>Year</b>	<b>Title of the International Conference</b>	<b>Name of organizer</b>	<b>Date (from-to)</b>
2020	2020 Kahoot! EDU Summit	Kahoot Academy	June 17, 2020
2020	Chemical Science Frontiers: The Virtual International Conference	Department of Chemistry, Uka Tarsadia University, Bardoli	May 29 -30, 2020

2014	3 <sup>rd</sup> International Conference on “Human Values in Higher Education.”	Punjab Technical University,	February 28-March 2, 2014
2014	9 <sup>th</sup> Nutra India Summit	CSIR, IIFoST & MM ACTIV, India	March 12-14, 2014
2012	Marketing in Emerging Economies: An Agenda for the Next Decade	Jointly organized by Punjab Technical University and the University of North Carolina (UNC), USA	December 15-16, 2012
2012	Advancements & Futuristic Trends in Mechanical & Materials Engineering	Punjab Technical University,	October 5-7, 2012
2012	7 <sup>th</sup> Nutra India Summit	CSIR, IIFoST & MM ACTIV, India	March 12-15, 2012
2011	Advancements & Futuristic Trends in Mechanical & Materials Engineering	Punjab Technical University,	October 7-8, 2011

### **National Conference**

<b>Year</b>	<b>Title of the National Conference</b>	<b>Name of organizer</b>	<b>Dates</b>
2020	National Conference "Science & Technology for Sustainable Future"	DAV College, Jalandhar (SERB-DST & DBT Sponsored)	March 6-7, 2020
2020	Punjab Science Congress on Emerging trends in Science and Technology for Sustainable Development	SLIET, Longowal	7-9 Feb 2020
2019	Multi-track National Conference- 2019 (Track I: “New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019”)	SLIETCON-2019 (Track I: “New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019”) NITTTR, Chandigarh by SLIET, Longowal, Sangrur. (BEST PAPER AWARD)	March 1-2, 2019

### **EVENT ORGANIZED**

<b>Type of event</b>	<b>Event name</b>	<b>Organized at</b>	<b>Date (from-to)</b>
FDP (Seven days)	Research Methods for Data Analysis for Engineers and Researchers	I.K.G.Punjab Technical University,	April 22-28, 2017
Symposium (One day)	Food Safety Requirements for Food Industry	I.K.G.Punjab Technical University,	Nov. 01, 2018
Training for Trainer (One day)	Basic level - catering	I.K.G.Punjab Technical University, Kapurthala, India, in collaboration with FSATO and FoSTaC, Food Safety Standard Authority of India,	March 12, 2019
2days Training Program(Two days)	Hands on training on HPLC & GC Instrument	I.K.G.Punjab Technical University, Kapurthala, India, in collaboration with AGILENT	15-16 April 2019

## National Exam

1. Successfully passed an online LaTeX exam on April 11, 2020, conducted remotely from IIT Bombay under Spoken Tutorial Project funded by National Mission on Education through ICT, MHRD, Govt of India in collaboration with Sri Sai Group of Institutes, India.

2 Successfully qualified ASRB-ICAR National Eligibility test – 2009

## PUBLICATIONS IN INTERNATIONAL/NATIONAL JOURNALS

Publication year	Authors of the article	Title of paper	Journal Name	Vol. no. (Issue no.): Page no.	Impact factor
2024	Sahil Chaudhary, Satish Kumar, Vikas Kumar, Barinderjit Singh, Atul Dhiman	Irradiation: A tool for the sustainability of fruit and vegetable supply chain-Advancements and future trends	Radiation Physics and Chemistry	Vol 217	2.776
2023	Mohanasundaram, Sugumar; Singh, Barinderjit; Suradkar, Nitin Govindprabh; Venkatesa Prabhu S.; Chinnasamy, Gomadurai Goel, Mukesh; Khaled, Jamal M.	Extraction of pectin from Ethiopian prickly pear fruit peel and its potency for preparing of cellulose-reinforced biofilm.	Biomass Conversion and Biorefinery	Published online. In press	4.05
2023	Rohilla, Shubham; Jaiswal, Akriti; Singh, Barinderjit; Mahanta, Charu Lata	Ultrasound-assisted extraction of phytochemicals from <i>Eryngium foetidum</i> leaves using response surface methodology.	Biomass Conversion and Biorefinery	Published online. In press	4.05
2023	Yashi Srivastava; Barinderjit Singh; Brahmeet Kaur; Mohammed Ubaid; Anil Dutt Semwal	Kinetic study of thermal degradation of flaxseed oil and moringa oil blends with physico-chemical, oxidative stability index (OSI) and shelf-life prediction	Journal of Food Science and Technology	Published online. In press	3.12
2023	Nand Kumar, Maksud Hasan Shah, Shreya	Physico-Biochemical Property Evaluation of Certain Promising Varieties of Chickpea (Cicer	International Journal of Environment and Climate Change,	Volume 13, Issue 7, Page 1	NAAS (5.13)



	Mandal, Shakti Singh, Anam Khan, Barinderjit Singh, Laukesh Singh	arietinum L.)		9	
2023	Nand Kumar, Shakti Singh, Anam Khan, Bal Veer Singh, Barinderjit Singh , Shikhar Verma , Laukesh Singh,	Evaluation of Amino Acids and Yield Components on Certain Promising Varieties of Chickpea ( <i>Cicer arietinum L.</i> )	International Journal of Environment and Climate Change,	Vol. 13, Issue 6, 312-320	NAAS (5.13)
2023	Manish Kaushik, Manoj Sathe, S. Shyni Carmel Mary, *Barinderjit Singh, Mohit Tiwari, Ravikiran Prafull Kakade	A Review of Artificial Intelligence Applications in Supply Chain Management	A Journal for New Zealand Herpetology	Vol 12 Issue 01 2023 612-619	Emerg ing Source s Citatio n Index
2023	Akash Deep Shukla, Yashi Srivastava, Siyad Puthan Veettil and Barinderjit Singh	Outlines of Confocal Scanning Laser Microscopy in Food Analysis	Foods	Accepted	5.56
2023	Madiajagan M, Nageswara Rao Atyam, Rajeeb Lochan Moharana, Vidhya Gopal, S. Prabhukumar, Barinderjit Singh	A Harvesting Identification for Smart Hydroponics Agricultural System Design Using Agro Machine Learning Model, doi: 10.1109/RMKMATE59243.2023.10369986.	2023 International Conference on Research Methodologie s in Knowledge Management, Artificial Intelligence and Telecommunic ation Engineering (RMKMATE),	1-6	Scopu s- indexe d

			Chennai, India, , IEEE Xplore		
2022	Tiwari, Shivam; Singh, Barinderjit Singh; Pachar, Sunita; Bharati, Raveendra Kumar; Cotrina- Aliaga, Juan Carlos; Kumar, Sarvesh	Analysis and Design A framework identifying Crop nutrients Using KNN Approach. doi: 10.1109/CISCT55310.2022.100 46541.	2022 2nd International Conference on Innovative Sustainable Computational Technologies (CISCT), Dehradun, India, IEEE Xplore	1-4	Scopus- indexed
2022	Javier Alanya- Arango, Joel Alanya- Beltran, Sathish Kumar Ravichandran, Barinderjit Singh, Archana Sasi, Durgaprasad Gangodkar	Internet of Things and Machine Learning based Intelligent Irrigation System for Agriculture	5th International Conference on Contemporary Computing and Informatics (IC3I), IEEE Xplore	67-72	Scopus- indexed
2022	Venkata Harshavardhan Reddy Dornadula, Shyam Sunder. T, Aparna Pavani. S, Renu Lamba, Barinderjit Singh, Nagabhushana m Tida	Impact of innovative entrepreneurship models in Enhancing stakeholder engagement and business performance	Manager - The British Journal of Administrativ e Management ISSN - 1746 1278	Volume 58 Special Issue 09 Dec 2022, 21-30	ABDC – Austra lian Busine ss Deans Counc il indexe d
2022	Mohd Shamim, Shaik Rehana Banu, Pawan Deep Singh, Barinderjit Singh, Yashi Srivastava, G	Quality assurance and standards monitoring of higher Education development	Manager - The British Journal of Administrativ e Management	Volume 58 Special Issue 09 Dec 2022, 31-40	ABDC – Austra lian Busine ss Deans Counc

	S Pradeep Ghantasala		ISSN - 1746 1278		il indexe d
2022	Mohammad Irshad Hussain, Lucky Mehta, Barinderjit Singh, Navpreet Kaur, Yashi Srivastava, Pankaj Choudhury	Comparative evaluation and international aspects of practice And higher education policy	Manager - Volume The British 58 Journal of Special Administrati Issue 06 ve Sep 2022 Management 178-188		ABDC - Austra lian Busine ss Deans Counc il indexe d
2022	Habibulla Palagiri, Shweta Mogre, Rashmi Badjatya Rawa, Geetha Manoharan, Barinderjit Singh and Rachana Jaiswal	An investigation on the use of machine learning methods for predicting employee performance	Manager - 58 (SI 06, The British Septembe Journal of r 2022): Administrativ 15-22 e Management (TBJAM) ISSN - 1746 1278		ABDC - Austra lian Busine ss Deans Counc il indexe d
2022	Y. Saritha Kumari, Aarti Dawra, Rachana Jaiswal, Aijaj Ahmad Raj, Geetha Manoharan And Barinderjit Singh	An evaluation of machine learning techniques and how they affect human resource management and sustainable development	Manager - 58 (SI 06, The British Septembe Journal of r 2022): Administrativ 4-14 e Management (TBJAM) ISSN - 1746 1278		ABDC - Austra lian Busine ss Deans Counc il indexe d
2022	Barinderjit Singh* Rashmi S. Deshpande Gunjan Chhabra Mohd. Shaikhul Ashraf Shaik Vaseem Akram R. Raffik	Leaf Disease Detection Using Deep Neural Network  DOI: 10.1109/ICSES55317.2022.991 4183	2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), Chennai, India, IEEE Xplore	295-300	Scopu s- indexe d

2022	Anita Gehlot Neeru Sidana Deepali Jawale Neetu Jain <sup>4</sup> Bhaskar Pratap Singh and Barinderjit Singh	Technical analysis of crop production prediction using Machine Learning and Deep Learning Algorithms.	2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICES), Chennai, India, IEEE Xplore	335-339	Scopus- indexed
2022	Kusuma Praveen Kumar*, Barinderjit Singh*, Malini K V, Arti Ranjan, Shailejkumar D Bonde, Sandeep Rout, Firos A	IoT And Machine Learning Based Effective Plant Disease Classification And Detection For Agricultural Applications	IJFANS International Journal of Food and Nutritional Sciences	Vol.11, Issue 8, 415-423	UGC CARE Listed ( Group -I)
2022	Barinderjit Singh*, Deepayan Padhy, Selva Ganapathy M, Yashi Srivastava, N. Lenin Rakesh, Gurwinder Kaur, D R K Saikanth	Combination Of Multispectral And Machine Learning Approach For Identifying Honey Adulteration	IJFANS International Journal of Food and Nutritional Sciences	Vol.11, Sp. Issue 1: 2331- 2339	UGC CARE Listed ( Group -I)
2022	Priyanka Budania, Garvita, Gaurav Lodha, Sonam Bhadauriy, Barinderjit Singh* and Ekta Rao	A comparison of artificial intelligence and robotics effects on business management and economics	World Journal of Management and Economics	15 Special Issue 03	ABDC Austra lian Busine ss Deans Counc il indexe d
2022	Rajesh Gupta, T. Milton,K. Suresh Kumar, G Saravana Kumar, Barinderjit Singh And Ajay Kumar Garg	Impact of total quality management approaches in retaining and enhancing customer satisfaction	World Journal of Management and Economics	15 Special Issue 03	ABDC Austra lian Busine ss Deans Counc il indexe d

2022	Sudheer Hanumanthakari, Asad Ullah, Aijaj A.Raj, M.Z.M. Nomani, M. Rajya Laxmi and Barinderjit Singh*	The application of machine learning in creating enhanced industry 4.0 for sustainable growth and development	World Journal of Management and Economics	15 Special Issue 03	ABDC Australian Business Deans Council indexed
2022	Umesh U, P. Rengarajan, Vignesh Karthik S. A, B. Sakthimala, Niraj C. Chaudhari and Barinderjit Singh*	The impact of human resource management in creating enhanced industry 4.0 for sustainable growth and development	World Journal of Management and Economics	15 Special Issue 03	ABDC Australian Business Deans Council indexed
2022	G. Radha Krishna Murthy, Lalit Goyal, Reema Sharma, Kumar Ratnesh, Dharmendra Yadav and Barinderjit Singh*	The role of information systems (IS) in human resource management and its impact on business performance	World Journal of Management and Economics	15 Special Issue 03	ABDC Australian Business Deans Council indexed
2022	M. Shankar, Veena Prasad, Aravindharamanan S, Barinderjit Singh*, Shikha Maheshwari, Yashi Srivastava	Analyzing the contribution of digital apps in the food delivery systems	Telematique	21 (1): 2424 – 2429	Emerging Sources Citation Index
2022	Nagendra Prasad Krishnam, K Suresh Kumar, Hashem Ali Almashaqbeh, Professor Yasin Sheikh, Dharamvir, Barinderjit Singh	Application of Conceptual Artificial Intelligence (AI) framework in Human Resource Management	Manager – The British Journal of Administrative Management (TBJAM)	58 (SI 02, May 2022): 63-73	ABDC – Australian Business Deans Council indexed
2022	Gurwinder Kaur, Barinderjit Singh*, Sanjeev	Artificial Intelligence (AI) Based Smart Agriculture For Sustainable Development	The Management Accountants	June 2022	UGC care list

	Bansal, Anil Kumar Angrish				
2022	Narinder Kaur, Ranbir Singh, Barinderjit Singh*	Television viewing habits of the teenagers and early adulthoods.	Journal of the Oriental Institute	51 1(1) January- March	UGC care list
2022	Aayushi Jain, Rahul Mehra, Renu Garhwal, Shafiya Rafiq, Seema Sharma, Barinderjit Singh, Shiv Kumar, Krishan Kumar, Naveen Kumar & Harish Kumar	Manufacturing and characterization of whey and stevia-based popsicles enriched with concentrated beetroot juice	Journal of Food Science and Technology	<a href="https://doi.org/10.1007/s13197-022-05364-w">https://doi .org/10.10 07/s13197 -022- 05364-w</a>	3.12
2020	LaxmiAnantha narayan, Vikas Kumar, Anil Panghal, Barinderjit Singh, RojiWaghmar e, Yogesh Gat and Narinder Kaur	Use of microalgal biomass as a novel functional ingredient for the preparation of cereal-based extrudates: impact of processing on amino acid profiling and colour degradation kinetics,	Brazilian Journal of Pharmaceutica l Sciences  e-ISSN: 2175- 9790	56: e18665	Scopu s- indexe d
2019	ShafiyaRafiq, Barinderjit Singh, Yogesh Gat	Effect of different drying techniques on chemical composition, color and antioxidant properties of kinnow ( <i>Citrus reticulata</i> ) peel	Journal of Food Science and Technology e- ISSN: 0975- 8402	56(5): 2458- 2466	3.12
2018	Yogesh Gat, Anil Panghal, NavnidhiChhi kara, Poorva Sharma, Vikas Kumar, Barinderjit Singh	Effect of extrusion on thermal, textural and rheological properties of legume-based snack	Journal of Food Science and Technology e-ISSN: 0975- 8402	55(9): 3749- 3756	3.12
2017	Barinderjit Singh, Narpinder Singh, Sheetal Thakur, Amritpal Kaur	Ultrasound assisted the extraction of polyphenols and their distribution in whole mung bean, hull and cotyledon.	Journal of Food Science and Technology e-ISSN: 0975- 8402	54(4):921 -932	3.12
2012	Harish Kumar Sharma, Jaspal Singh,	Statistical Optimization of Desugerization Process Parameters of Liquid Whole	LWT – Food Science & Technology	47(1):208 -212	6.056

	Bhavesh Chand Sarkar, Barinderjit Singh, Monica Premi	Egg Using Response Surface Methodology	e-ISSN: 0023-6438		
2012	Barinderjit Singh, H. K.Sharma and B.C. Sarkar	Optimization of the Nutraceuticals from the Wheat Bran using Response Surface Methodology	Journal of Food Science and Technology e-ISSN: 0975-8402	49(3):294-308	3.12

## BOOK CHAPTER

Publicati on year	Authors as on the Chapter	Title of Chapter	Title of Book/ editor/ publisher	Page no.	ISBN no.
2024	Kiranbeer Kaur, Priyanka, Gurwinder Kaur, Barinderjit Singh, Shalini Sehgal & Shalini Trehan	Artificial Intelligence (AI) as a Transitional Tool for Sustainable Food Systems	Sustainable Food Systems (Volume II) SFS: Novel Sustainable Green Technologies, Circular Strategies, Food Safety & Diversity/ Monika Thakur/ Springer Nature	305-328	978-3-031-46046-3
2024	Ashok Kumar Koshariya, P.M. Rameshkumar, P. Balaji, Luigi Pio Leonardo Cavaliere, Venkata Harshavardhan Reddy Dornadula, Barinderjit Singh	Data-Driven Insights for Agricultural Management : Leveraging Industry 4.0 Technologies for Improved Crop Yields and Resource Optimization	Robotics and Automation in Industry 4.0 : Smart Industries and Intelligent Technologies/ Nidhi Sindhwani, Rohit Anand, A. George, Digvijay Pandey/ CRC Press	260-274	9781003317456
2024	K.V. Daya Sagar, K.K. Ramachandran, Purnendu Bikash Acharjee, Pratibha Singh, Harish Satyala, Barinderjit Singh	Data Analytics and ML for Optimized Performance in Industry 4.0	Robotics and Automation in Industry 4.0 : Smart Industries and Intelligent Technologies/ Nidhi Sindhwani, Rohit Anand, A. George, Digvijay Pandey/ CRC Press	275-287	9781003317456
2023	Kiranbeer Kaur, Barinderjit Singh, Gurwinder	Automation and Robotics in Food Processing	Frontier in Food Processing and Preservation/ Vidiya C.S., Prasad Patil, Barinderjit Singh, S.S. Bora, Prashun Sachan/ BS Global	220-239	978-81-19651-43-6

	Kaur, Hardeep Singh		Publication House		
2023	Kiranbeer Kaur, Hardeep Singh, Barinderjit Singh, Gurwinder Kaur,	Chemical, Physical and Biological Methods for Food Preservation	Frontier in Food Processing and Preservation/ Vidiya C.S., Prasad Patil, Barinderjit Singh, S.S. Bora, Prashun Sachan/ BS Global Publication House	240- 267	978-81- 19651- 43-6
2023	P. Asha, Barinderjit Singh	AI and deep learning methods for creating sustainable supply chain management and process	Marketing Management Through Artificial Intelligence for better customer engagement/ P. Malyadri, Bojja Suryanarayana Reddy/ Guptnath Trivedi/ Bluerose Publishers	292- 325	978-93- 5704- 108-9
2023	Kajal Mittal, Barinderjit Singh	A conceptual study in reengineering the human resource tactics to enhance high performance work practices post pandemics crisis	Opportunities and Challenges of Human Resource Management Approaches during COVID- 19 Pandemic/ Melanie Lourens, Habibulla Palagiri, T. Milton, K.K. Ramachandran/ Iterative International Publishers	1-17	978-1- 68576- 400-5
2023	Aryan Das Gupta, Barinderjit Singh	The critical association between different employee engagement methods in enhancing psychological well-being among the employees post Covid 19 for effective sustainability.	Opportunities and Challenges of Human Resource Management Approaches during COVID- 19 Pandemic/ Melanie Lourens, Habibulla Palagiri, T. Milton, K.K. Ramachandran/ Iterative International Publishers	172- 184	978-1- 68576- 400-5
2023	Prabin Kumar Bera and Barinderjit Singh	The critical understanding of the applications of machine learning model in creating better product development	Machine learning approaches for better management in competitive environment	269- 292	978-93- 5668- 191-0
2023	Valentino Jobert Barbosa and Barinderjit Singh	Implications of machine learning approaches for achieving productivity and efficiency in enhancing profitability of the business	Machine learning approaches for better management in competitive environment	199- 119	978-93- 5668- 191-0



2023	Venkata HRD and Barinderjit Singh	The role of big data and machine learning benefit to Top management for better business administration	Machine learning approaches for better management in competitive environment	131-152	978-93-5668-191-0
2023	Gioia Arnone and Barinderjit Singh	A comparative analysis of the role of machine learning in making effective decision making	Machine learning approaches for better management in competitive environment	30-55	978-93-5668-191-0
2023	A.Shameem, Barinderjit Singh	The Impact of AI in Understanding the Training Needs of the Employees for Achieving Superior Performance and Output in Modern Business Environment	Impact of Integrated Artificial Intelligence in Human Resource Management Functions	95-112	978-1-68576-399-2
2022	Ravneet Kaur, Shubhra Shekhar, Sahil Chaudhary, Barinderjit Singh and Kamlesh Prasad	Non-thermal Food Preservation Technologies	Smart and Sustainable Food Technologies/ Shalini Sehgal, Barinderjit Singh, Vasudha Sharma/ Springer Nature	157-195	978-9811917455
2022	Gurwinder Kaur, Barinderjit Singh*, Yashi Srivastava, Manpreet Kaur, Yogesh Gat	Lychee ( <i>Lychee Chinensis Sonn.</i> ) By-products: Chemistry, Processing	Handbook of Fruit Processing By-Products: Nutritional Composition, Biochemistry, Processing Technology and Utilization/ Khalid Muzaffar/ Taylor and Francis	223-238	978-0-367-72474-0
2022	Barinderjit Singh, Gurwinder Kaur, Reetu, Shafiya Rafiq	Cashew apple by-products: chemistry, processing and utilization	Handbook of Fruit Processing By-Products: Nutritional Composition, Biochemistry, Processing Technology and Utilization/ Khalid Muzaffar/ Taylor and Francis	273-289	978-0-367-72474-0
2022	Priyanka Suthar, Bababode Adesegun Kehinde, Shafiya Rafiq, Nazmin Ansari,	Orange byproducts, their processing and utilization	Handbook of Fruit Processing By-Products: Nutritional Composition, Biochemistry, Processing Technology and Utilization/ Khalid Muzaffar/ Taylor and Francis	87-98	978-0-367-72474-0

	Barinderjit Singh, Harish Kumar				
2021	Barinderjit Singh, Gurwinder Kaur, Reetu	Mung bean: Bioactive compounds and their potential health benefits	Cereals, Pulses, Roots and Tubers: Functionality, Health Benefits, and Applications/ Dr. Sneh Punia, Dr. Anil Kumar Siroha and Dr. Manoj Kumar/ Taylor and Francis	445-456	978-0-367-69250-6
2021	Barinderjit Singh, Reetu, Gurwinder Kaur	Black gram: Bioactive components for human health and their Functions	Cereals, Pulses, Roots and Tubers: Functionality, Health Benefits, and Applications/ Dr. Sneh Punia, Dr. Anil Kumar Siroha and Dr. Manoj Kumar/ Taylor and Francis	373-387	978-0-367-69250-6
2020	Masimba Tapera, Barinderjit Singh and Patrick Ndambiri	Techniques for Preliminary Phytochemical Studies on Plant Materials	Research Trends in Medicinal Plant Sciences (Volume - 7)/ AkiNik Publications	135-150	978-93-90322-09-1

## Book

### Edited book

Publication year	Editor	Title of Book	Publisher	ISBN no.
2023	Vidiya C.S., Prasad Patil, Barinderjit Singh, S.S. Bora, Prashun Sachan	Frontier in Food Processing and Preservation	BS Global Publication House	978-81-19651-43-6
2023	Veena Prasad Vemuri, T.Ch. Anil Kumar, Barinderjit Singh, Yashi Srivastava	Emerging Technologies, Perspectives, Trends and Practical Implication of Machine Learning in Higher Education	Booksclinic Publishing	978-93-5823-455-8
2023	Melanie Lourens, Mukesh Kumar Sharma, Kolachina Srinivas, Barinderjit Singh	Artificial Intelligence in Human Resource Management	Iterative International Publishers	978-1-68576-417-3
2022	Shalini Sehgal, Barinderjit Singh, Vasudha Sharma	Smart and Sustainable Food Technologies	Springer Nature	978-9811917455

**Authored book**

<b>Publication year</b>	<b>Author</b>	<b>Title of Book</b>	<b>Publisher</b>	<b>ISBN no.</b>
2023	Atul D Bobdey, Vishnupriya S, P. Reddypriya, Barinderjit Singh	Food Science and Technology	AG Publishing House	978-81- 19338-14-6
2023	Barinderjit Singh, Bhupinder Singh, Rubrinder Singh Sandhu, Yashi Srivastava	Fundamental of Total Quality Management	Book Rivers	978-93- 5515-379-1
2022	M. Radha G.Yamuna L. Dhanalakshmi Barinderjit Singh	Economic Analysis for Business	Scientific International Publishing House (SIPH)	978-93- 5625-062-8
2022	Kaushal Rana, Yasmeen Banu, Piali Biswas, Barinderjit Singh	Management Information Systems	Scientific International Publishing House (SIPH)	978-93- 5625-261-5
2022	Sujay M.J., Harshith N., Veena Prasad Vemuri, Barinderjit Singh	Application of Advertising Management	Book Rivers	978-93- 5515-153-7
2022	Shubhendu Sheher, Barinderjit Singh, L.B.Muralidhar, S. Umamaheswari	Advertising Management	Book Rivers	978-93- 5515-548-1
2022	Mushtaque Ahmad, Rohit Patawa, Barinderjit Singh, Ankit Jain	Statistical Process Control with Six Sigma	Book Rivers	978-93- 5515-344-9
2022	Barinderjit Singh, Bhupinder Singh, Reetu Palthania, Yashi Srivastava	Fundamentals of Food, Dairy and Environmental Microbiology	Scientific International Publishing House	978-93- 5625-605-7
2022	Bhupinder Singh, Barinderjit Singh, Yashi Srivastava, Edidiong Etim UKPONG	Research Methodology – A Perspective	Book Rivers	978-93- 5515-632-7

### Translate book in Punjabi

Publication year	Translator	Title of Book/Author/ Class	Publisher	Status
2023	Barinderjit Singh	Biology for Engineers/ . Annamma Odaneth /UG – IIIrd Sem	AICTE	Under Review

### Book Proceeding

Publication year	Author	Chapter	Editor	Title of Book	Publisher	ISBN no.
2022	Barinderjit Singh	Optimization of ultrasound assisted extraction conditions for polyphenolic compounds from Macrotyloma uniflorum seeds	Dr. Hüseyin SENDİR	ISPEC 13th International Conference on Engineering & Natural Sciences March 19-20, 2022 / Burdur, Turkey	ISPEC Publications	978-625-7720-79-3

### **PRESENTATION IN DIFFERENT EVENTS**

#### Invited Talk

Title of talk	Event	Date of talk	Name of organizer
Polyphenols in Food Matrices: Isolation and Characterization Challenges	4 <sup>th</sup> International Conference on Advances in Biological Research and Environmental Sustainability	June 2023	21, Research Floor publisher, Science letter journal and ACTA Botanica Plantae
Traditional and Machine Learning-Based Approaches for the Prediction of Polyphenols in Food Matrices	International Conference on Recent Advances in Nutraceuticals and Functional Foods	May 2023	23, Graphic Era (Deemed to be University), Dehradun.
Regulations for the Indian Food Industry	One day symposium	May 2022	5, Department of Food Science and Technology, IKGPTU, Kapurthala
Role of FSSAI in Food Business	Webinar	April 2021	6, Department of Biotech Engineering and Food Technology, Chandigarh University, Punjab, India.

Regulation of Nutraceuticals and Functional Foods	One Day Seminar	March 2020	17,	Department of Food Science & Technology, Punjab Agriculture University, Punjab, India.
Current Scenario in Food Safety and Standards	One Day Seminar	March 2020	17,	Department of Food Science & Technology, Punjab Agriculture University, Punjab, India.
Food Regulations for the Indian Food Industry	One Day Seminar	October 2019	5,	DAV College, Jalandhar, Punjab, India.
Food Safety Standard for Indian Food Industry	One Day Seminar	March 2019	19,	G.H.G. Khalsa College, Gurusar Sadhar, Ludhiana, Punjab, India.
Challenges for Isolation and Characterization of Polyphenolic Compounds	8th International Food Convection on “IFCON-2018: HASH TAG-Holistic Approaches for Start-ups, Human Resource Training for Agriculture and Food Industry Gemmation.”	12-15 December 2018		AFSTI in association with CFTRI and DRDO and supported by the Ministry of Food Processing of India and Food Safety and Standards Authority of India at CFTRI, Mysore, Karnataka, India.
Quality Management System in Food Industry	One Day Seminar	March 2018	20,	G.H.G. Khalsa College, Gurusar Sadhar, Ludhiana, Punjab, India.
Diversity in Polyphenols among different Vigna Species	National Conference on “Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016		Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO at GNDU, Amritsar, Punjab, India.
Quality & Safety Auditing in Food Industry	Faculty/Executives Development Programme on “Modern Analytical Techniques & Certification System in Foods in the Era of Liberalization & Globalization”	June 2008	9-15,	Department of Food Engineering & Technology, SLIET (deemed-to-be-university), Longowal, India.
Quality Management System (ISO-9001:2000) Fundamentals	Faculty/Executives Development Programme on “Modern Analytical Techniques & Certification System in Foods in the Era of Liberalization & Globalization”	June 2008	9-15,	Department of Food Engineering & Technology, SLIET (deemed-to-be-university), Longowal, India.
ISO-9001: 2000 Implementation	Faculty/Executives Development Programme on “Modern Analytical Techniques & Certification System in Foods in the Era of Liberalization & Globalization”	June 2008	9-15,	Department of Food Engineering & Technology, SLIET (deemed-to-be-university), Longowal, India.

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## Oral Presentations in National & International Conferences

Authors	Title of paper	Event	Date of event	Name of organizer
Simple Sharma, Barinderjit Singh	Nutritional profile and bioactive constituents of pomelo fruit	5th International Food, Agriculture and Veterinary Sciences Congress	March 17-19, 2023	Kars, Türkiye organised by Kafkas University and IKSAD Institute
Abhishek Sharma, Barinderjit Singh	Kainth Fruit (Pyrus Pashia): An Underutilized Fruit Seeking Utilization For Food Industry	4th International Cukurova Agriculture and Veterinary Congress	February 27-28, 2023	Adana Turkey
Simple Sharma, Barinderjit Singh	Pomelo fruit nutritional composition, industrial utilization, and bioactive composition	International Cappadocia Scientific Research Congress	11-12 December 2022	Cappadocia-Nevsehir, Türkiye, organised by IKSAD Institute
Simple Sharma, Barinderjit Singh	Pomelo (Citrus grandis): an exotic fruit	International Subtropical and Citrus Conference	December 8-9, 2023	Lankaran State University, Azerbaijan
Simple Sharma, Barinderjit Singh	Importance and applications of engineering properties in food Industries	6th International Icontech Conference On Innovative Surveys In Positive Sciences	December 4-5, 2022	Rijeka, Croatia
Simple Sharma, Barinderjit Singh	Valorisation of pomelo fruit waste and industrial Applications	7 <sup>th</sup> Asia Pacific International Modern Sciences Congress held on /	November 4-5, 2022	Stie Ganesha College of Economics, Jakarta, Indonesia
Sahil Chaudhary, Barinderjit Singh	Encapsulation of bio-active compounds from grapefruit waste: a by-product Valorization approach	1st International Traditional Foods and Sustainable Food Systems Symposium	August 10, 2022	Mersin, Turkey

Sahil Chaudhary, Barinderjit Singh	Grapefruit- utilization of high- value compounds From by-products using novel approaches	ICONFOOD 22 International Congress on Food Researchers	October 14- 16, 2022	Sivas, Turkiye Sivas Cumhuriyet University, Turkey
Sahil Chaudhary, Barinderjit Singh	Grapefruit - A reservoir of bioactive compounds with health promoting effect.	GANUD – 3 <sup>rd</sup> International Conference on Gastronomy, Nutrition and Dietetics	May 8, 2022	Istanbul University, Turkey Gedik Istanbul,
Simple Sharma, Barinderjit Singh	Pomelo fruit as a bioactive source and health potential.	GANUD – 3 <sup>rd</sup> International Conference on Gastronomy, Nutrition Dietetics	May 8, 2022	Istanbul University, Turkey Gedik Istanbul,
Deepika Kumari, Barinderjit Singh	Nutritional, phytochemical and health benefits of 'citron'	GANUD – 3 <sup>rd</sup> International Conference on Gastronomy, Nutrition and Dietetics	May 8, 2022	Istanbul University, Turkey Gedik Istanbul,
Ravi Kumar Sah, Barinderjit Singh, Gurwinder Kaur	Effect of dehydration techniques on nutritional and polyphenol content of waste from Kinnow mandarin ( <i>Citrus reticulata</i> ) and Murcott mandarin ( <i>Citrus reticulata x sinensis</i> )	GANUD – 3 <sup>rd</sup> International Conference on Gastronomy, Nutrition and Dietetics	May 8, 2022	Istanbul University, Turkey Gedik Istanbul,
Narinder Kaur, Ranbir Singh, Barinderjit Singh	Relationship between television advertisement viewing and food eating habits in children will continue into adulthood.	World Children Conference – 2022	April 22-24, 2022	Özay Günsel Children's University, İksad Institute and Near East University, Antalya, Turkey
Narinder Kaur, Ranbir Singh, Barinderjit Singh	Influences of Television Advertisements on Children's Food Eating Habits.	National Conference on Frontiers in Education, Management and Information Technology (FEMIT 2022)	March 26, 2022	Lyallpur College, Khalsa Kapurthala, Punjab, India
Barinderjit Singh	Optimization of ultrasound assisted extraction conditions for polyphenolic	ISPEC 13th International Conference on Engineering & Natural	March 19-20, 2022	ISPEC Azerbaijan Institute,

		compounds from <i>Macrotyloma uniflorum</i> seeds	Sciences at Burdur, Turkey			
Narinder Kaur, Ranbir Singh, Barinderjit Singh	Television viewing habits of the teenagers and early adulthoods,	3rd International E-conference on "Modern Global Strategy in Management, Commerce, Mathematics, Science & Technology"	March 18, 2022	J.H.A. Agarsen College, Chennai		
Amy Marsh, Manpreet Kaur, Barinderjit Singh	Effect of processing on the nutritional properties, polyphenols and antioxidant activity of Watermelon	The International Conference on "Post COVID Journey of Food processing sectors."	September 17-18, 2021.	AICTE and A D Patel Institute of Technology, Gujrat, India		
Manpreet Kaur, Barinderjit Singh, Amy Marsh	Food Properties of Sarda and Bobby Muskmelon and effect of Processing on the nutritional properties, polyphenols and antioxidant activity of Muskmelon ( <i>Cucumis melo</i> )	The Annual International Conference on Sustainable Agriculture: Negotiating Tradition and Modernity	August 12-14, 2021	Centre for Research, Maitreyi College, University of Delhi, India.		
Amy Marsh, Manpreet Kaur, Barinderjit Singh	Food Properties of Watermelon and effect of Processing on the nutritional properties, polyphenols and antioxidant activity of Watermelon ( <i>Citrullus lanatus</i> )	The Annual International Conference on Sustainable Agriculture: Negotiating Tradition and Modernity	August 12-14, 2021	Centre for Research, Maitreyi College, University of Delhi, India.		
Manpreet Kaur, Amy Marsh, Barinderjit Singh,	Effect of processing on the physicochemical and functional properties of Muskmelon ( <i>Cucumis melo</i> )	International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETy-2021)	June 24-25, 2021	University of Georgia, Tezpur University and AFSTI Tezpur chapter, Tezpur, Assam, India		
Amy Marsh, Manpreet Kaur, Barinderjit Singh	Effect of processing on the physicochemical and functional properties of Watermelon ( <i>Citrullus lanatus</i> )	International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETy-2021)	June 24-25, 2021	University of Georgia, Tezpur University and AFSTI Tezpur chapter, Assam, India.		



Barinderjit Singh	Method development for isolation and characterization of plant secondary metabolites	2020 International and Young Scholars Workshop	June 3-5, 2020	Suleyman Demirel University, Kazakhstan
Barinderjit Singh*, Reetu, Manpreet Kaur	Characterization of Free and Conjugated Polyphenolic Compounds in Solanum nigrum Fruit	International Virtual Conference on "COVID-19 and Infectious Diseases in Relation to Public Health: Perspectives and Challenges"	May 31, 2020	Career Point University, Hamirpur, Himachal Pradesh
Barinderjit Singh, Reetu*, Menka Saini	Free and conjugated polyphenolic profile of <i>Quisqualis Indica</i> Flower extract	International Virtual Conference on "COVID-19 and Infectious Diseases in Relation to Public Health: Perspectives and Challenges"	May 31, 2020	Career Point University, Hamirpur, Himachal Pradesh
Barinderjit Singh*, Reetu, Manpreet Kaur	Polyphenolic compounds, antioxidant activity and in vitro inhibitory potential against key enzymes relevant for hyperglycemia of <i>Solanum nigrum</i> fruit.	"World Summit on Medical Sciences, Pharmaceutical Sciences & Nursing Sciences Research 2020" (WOMPAN 2020) - online	May 30-31, 2020	Eudoxia Research Centre, India.
Barinderjit Singh	Application of response surface methodology for extraction optimization of polyphenols from <i>Macrotyloma uniflorum</i> seeds	Online International Conference on Application of SPSS and Statistical Data Analysis-2020	April 29 - 30, 2020	Eudoxia Research Centre, India
Sonia Mahajan, Barinderjit Singh*	Optimization of the extraction conditions for polyphenolic compounds from pigeon pea using response surface methodology.	23rd Punjab Science Congress on Emerging trends in Science and Technology for Sustainable Development	February 7-9, 2020	SLIET, Longowal
Barinderjit Singh*, Narpinder Singh	Effect of Exogenous Enzymes on the	A Multi-track National	March 1-2, 2019	SLIET, Longowal, Sangrur, India (held

	Extraction of Polyphenolic Compounds from Different Fractions of Pluses.	of Conference-SLIETCON-2019 (Track I: "New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")			at NITTTTR, Chandigarh, India)	
Barinderjit Singh*, Narpinder Singh	Polyphenolic compounds among different <i>Vigna</i> Species: Effect of extraction conditions, exogenous enzymes and processing methods.	Emerging and Sustainable Technologies in Food Processing (ESTFP- 2018)	March 15-16, 2018		SLIET, Sangrur	Longowal,
Barinderjit Singh*, Narpinder Singh	Ultrasound-assisted extraction of polyphenols and their distribution in whole cowpea, hull and cotyledon.	Technologies in Sustainable Food Systems (TSFS)	7-8 October 2016		SLIET, Sangrur.	Longowal,
Barinderjit Singh*, and Niti Sharma	Nutritional and polyphenolic properties of wheat.	17th Punjab Science Congress	14-16, February 2014		Punjab University, Kapurthala,	Technical
Barinderjit Singh*, H. K. Sharma and Niti Sharma	Bioactive Compounds and Antioxidant Activity of Different Winter ( <i>Triticum</i> Varieties	National Conference on "Bioactive Compounds and Functional Foods in Health and Disease Management	November 15-16, 2013		NIFTEM Kundli, Harayana	Campus, Sonapat,

\* Name of presenter

### **Poster in National & International Conferences**

<b>Authors as on the paper</b>	<b>Title of paper</b>	<b>Event</b>	<b>Date of event</b>	<b>Name of organizer</b>
Reetu*, Barinderjit Singh, Aayush Wadhwa	Biofortification of Sorghum Combating Hidden Hunger for Iron.	Multi-Disciplinary National Conference "Science Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)
Suraj Prabha*, Barinderjit Singh	Physical, Optical and Textural Properties of Different Varieties of Carrots ( <i>Daucus carota</i> ).	Multi-Disciplinary National Conference "Science Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)

Jasmin Kaur*, Barinderjit Singh	Technologies for Nutritional Enhancement of Grain Based Products with Bioactive Components.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6- 7, 2020	DAV Jalandhar (SERB-DST & DBT Sponsored)	College, (SERB-DST & DBT Sponsored)
Abhishek Sharma*, Barinderjit Singh	Nutritional Value and Engineering Properties of Kainth fruit.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6- 7, 2020	DAV Jalandhar (SERB-DST & DBT Sponsored)	College, (SERB-DST & DBT Sponsored)
Abhishek Bhargav*, Barinderjit Singh	Nutrition Enhancement of Muffin with Bioactive Components.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6- 7, 2020	DAV Jalandhar (SERB-DST & DBT Sponsored)	College, (SERB-DST & DBT Sponsored)
Amy Masih*, Barinderjit Singh	Engineering Properties of Different Varieties of Beans.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6- 7, 2020	DAV Jalandhar (SERB-DST & DBT Sponsored)	College, (SERB-DST & DBT Sponsored)
Manpreet Kaur*, Barinderjit Singh	Engineering Properties of Major Legumes.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6- 7, 2020	DAV Jalandhar (SERB-DST & DBT Sponsored)	College, (SERB-DST & DBT Sponsored)
Sonia Mahajan, Barinderjit Singh*	Sequential Combination of Ultrasound and Microwave-Assisted Extraction of polyphenols from the black gram.	23rd Punjab Science Congress on Emerging trends in Science and Technology for Sustainable Development	7-9 Feb 2020	SLIET, Longowal	
Suraj Prabha*, Barinderjit Singh	Engineering Properties of Different Varieties of Carrot.	23rd Punjab Science Congress on Emerging trends in Science and Technology for Sustainable Development	7-9 Feb 2020	SLIET, Longowal	
Reetu*, Aayush Wadhwa, Barinderjit Singh	Iron Biofortification of Sorghum by Soaking and Germination: Effect on Proximate Composition, Iron, Bioactive and Functional Properties.	23rd Punjab Science Congress on Emerging trends in Science and Technology for Sustainable Development	7-9 Feb 2020	SLIET, Longowal	
Arshdeep Kaur*, Barinderjit Singh, Jyotsana	Need and Opportunities of Nutrigenomics in Agriculture and Food Industry.	Inbix'19: Indian Conference on Bioinformatics	February 22-23, 2019	Hansraj Mahila Maha Vidyalay, Jalandhar, India.	
Jasmin Kaur Cheema*, Barinderjit Singh	Proximate, Fatty acid and Anthocyanin Analysis of Kokum (Garcinia Indica).	A Multi-track National Conference- SLIETCON-2019 (Track I: "New	March 1- 2, 2019	SLIET, Longowal, Sangrur, India (held at NITTTR, Chandigarh, India)	

		( <b>Best Poster Award</b> )	Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")			
Arshdeep Kaur*, Barinderjit Singh	Proximate, amino acid and carotenoids analysis of Jackfruit.	A	Multi-track National Conference-SLIETCON-2019 (Track I: "New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")	March 1-2, 2019	SLIET, Sangrur, Chandigarh, India (held at NITTTR, India)	Longowal, India
Abhishek Sharma* and Barinderjit Singh	Nutritional Value, Polyphenols and Antioxidant Property of Kaphal fruit ( <i>Myrica esculenta</i> ).	A	Multi-track National Conference-SLIETCON-2019 (Track I: "New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")	March 1-2, 2019	SLIET, Sangrur, Chandigarh, India (held at NITTTR, India)	Longowal, India
Suraj Prabha*, Barinderjit Singh	Nutritional and Antioxidant Properties of Oats.	A	Multi-track National Conference-SLIETCON-2019 (Track I: "New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")	March 1-2, 2019	SLIET, Sangrur, Chandigarh, India (held at NITTTR, India)	Longowal, India
Manpreet Saini, Barinderjit Singh, Samridhi Mandeel*	Polyphenolic compounds, antioxidant activity and <i>in vitro</i> inhibitory potential against key enzymes relevant for hyperglycemia of <i>Solanum nigrum</i> fruit.	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)		March 15-16, 2018	SLIET, Sangrur.	Longowal, India
Abhishek Chaudhary, Barinderjit Singh, Aayush Wadhwa*	Diversity of polyphenols in the different fractions of Kusum fruit. ( <b>Best Poster Award</b> )	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)		March 15-16, 2018	SLIET, Sangrur.	Longowal, India
Devisha Thakur*, Barinderjit Singh	Nutritional value, Polyphenols and Antioxidant Properties of Corn ( <i>Zea Mays</i> ).	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)		March 15-16, 2018	SLIET, Sangrur.	Longowal, India
Uzain Zahoor*, Barinderjit Singh	Development of novel products from fish industry waste.	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)		March 15-16, 2018	SLIET, Sangrur.	Longowal, India

Priyanka Singh*, Barinderjit Singh	An Application of Analytical Hierarchy Processing for Examining the Customer Value Perceptions Towards Organic Food.	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Menka Saini, Barinderjit Singh, Sonia Mahajan*	Optimization of the extraction conditions for bioactive components from <i>Quisqualis indica</i> flower using response surface methodology.	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Nikita Dixit*, Barinderjit Singh	Nutritional, Physicochemical and Antioxidant Properties of Groundnuts.	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Barinderjit Singh, H.K. Sharma, Mandeep Kaur*	Diversity of polyphenols in the bran obtained from different varieties of wheat.	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Barinderjit Singh*, Narpinder Singh	Optimization of Ultrasound-Assisted Extraction of Polyphenols from black gram and their Distribution in Different Milling Fractions. ( <b>Best Poster Award</b> )	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO	
Abhishek Chaudhary*, Barinderjit Singh	Optimization of Ultrasound-Assisted Extraction of bioactive components from <i>Schleichera Oleosa</i> fruit using Response Surface Methodology.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO	
Priyanka Singh*, Barinderjit Singh, Arun Kumar Deshmukh	Analyzing and Prioritizing Perceived Customer Value Perceptions Towards Functional Food - A Multi-Criteria Modelling Approach.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO	
Charu Goel*, Barinderjit Singh, Gaurav Bhargava	Ultrasound-assisted extraction of polyphenols from apple and their distribution in peel and pulp. ( <b>Best Poster Award</b> )	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO	

Prakhar Singh*, Rakesh K. Rai, Shweta Mishra, Richa Kumari, Pallavi Sinha, TM Mohapatra, Barinderjit Singh	Microbial quality analysis of milk and milk products: A Study of Varanasi District.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Manpreet Saini, Barinderjit Singh*, Sanjeev Kumar	Optimization of the extraction conditions for bioactive components from <i>Solanum nigrum</i> using surface response methodology.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Menka Saini, Barinderjit Singh, Sonia Mahajan*	Development and Quality Evaluation of RTS (Ready to Serve) Beverages Made from <i>Quisqualis indica</i> flower.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Manpreet Saini, Barinderjit Singh, Uzain Zahoor*	Physicochemical, Sensory Characterization, Enzyme inhibitory and antioxidant activities of <i>Solanum nigrum</i> fruit jam.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Barinderjit Singh*, Priyanka Singh	Analyzing and prioritizing customer value perceptions towards nutraceuticals using analytical hierarchy processing (AHP) modeling - A multi-criteria decision approach.	Technologies in Sustainable Food Systems (TSFS 2016)	7-8 October 2016	SLIET, Longowal, Sangrur.
Niti Sharma* and Barinderjit Singh	Nutritional and polyphenolic properties of <i>Macrotyloma uniflorum</i> .	17th Punjab Science Congress	February 14-16, 2014	Punjab Technical University, Kapurthala

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\* Name of presenter

### ABSTRACT PUBLISHED IN NATIONAL & INTERNATIONAL CONFERENCES

- Barinderjit Singh, Narpinder Singh (2019). Effect of Processing Methods on Polyphenolic Compounds Among Different *Vigna* Species. 22<sup>nd</sup> Punjab Science Congress to be held on February 7-9, 2019 at DAVIET, Jalandhar, Punjab, India (Oral)

- Abhishek Bhargav\*, Barinderjit Singh (2019). Nutritional And Antioxidant Properties Of Plum. 22<sup>nd</sup> Punjab Science Congress to be held on February 7-9, 2019 at DAVIET, Jalandhar, Punjab, India (Poster)
- Arshdeep Kaur, Barinderjit Singh (2019). Proximate, amino acid and carotenoids analysis of Jackfruit. 22<sup>nd</sup> Punjab Science Congress to be held on February 7-9, 2019 at DAVIET, Jalandhar, Punjab, India (Poster)

## AWARD RECEIVED

### Best Poster/Oral Presentation Award

- Manpreet Kaur\*, Barinderjit Singh, Amy Marsh (2021). Food properties of Sarda and Bobby muskmelon and effect of processing on the nutritional properties, polyphenols and antioxidant activity of Muskmelon (*Cucumis melo*). The Annual International Conference on Sustainable Agriculture: Negotiating Tradition and Modernity was held on August 12-14, 2021 by the Centre for Research, Maitreyi College, University of Delhi, India.
- Manpreet Kaur\*, Amy Marsh, Barinderjit Singh (2021). Effect of processing on the physicochemical and functional properties of Muskmelon (*Cucumis melo*). International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETY-2021). June 24-25, 2021 by University of Georgia, Tezpur University and AFSTI Tezpur chapter, Tezpur, Assam, India.
- Barinderjit Singh\*, Reetu, Manpreet Kaur (2020). Polyphenolic compounds, antioxidant activity and in vitro inhibitory potential against key enzymes relevant for hyperglycemia of Solanum nigrum fruit. Two days online “World Summit on Medical Sciences, Pharmaceutical Sciences & Nursing Sciences Research 2020” (WOMPAN 2020) held on May 30-31, 2020 by Eudoxia Research Centre, India.
- Jasmin Kaur Cheema\*, Barinderjit Singh (2019). Proximate, Fatty acid and Anthocyanin Analysis of Kokum (*Garcinia Indica*). A Multi-track National Conference- SLIETCON-2019 (Track I: “New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019”) held on March 1-2, 2019 at NITTTTR, Chandigarh by SLIET, Longowal, Sangrur.
- Abhishek Chaudhary, Barinderjit Singh, Aayush Wadhwa\* (2018). Diversity of polyphenols in the different fractions of Kusum fruit. “Emerging and Sustainable Technologies in Food Processing (ESTFP- 2018)” held on March 15-16, 2018, SLIET, Longowal, Sangrur.
- Barinderjit Singh\*, Narpinder Singh (2016). Optimization of Ultrasound-Assisted Extraction of Polyphenols from black gram and their Distribution in Different Milling Fractions. “Food Processing for Sustainable Agriculture & Industry (ICFOST XXV), 10-12 November 2016, Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO, India.
- Charu Goel\*, Barinderjit Singh, Gaurav Bhargava (2016). Ultrasound-assisted extraction of polyphenols from apple and their distribution in peel and pulp. “Food Processing for Sustainable Agriculture & Industry (ICFOST XXV), 10-12 November 2016, Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO, India.

### Young scientist award

- Young Scientist Award 2021, By International Institute of Organized Research (I2OR), Greater Mohali, Punjab

### **Academic Excellence award**

- IRSD Preeminent Academic Excellence award 2022, during 8th International Conference on Interdisciplinary Research for Sustainable Development which is organized by Green ThinkerZ Society in Academic association with Centre for Modern Construction, Western Sydney University, Australia; Elsevier's Mendeley; IIT Bombay Spoken Tutorial, Wakelet, Flipgrid, The Intelligent Indian and I2OR, Punjab

## **TRAVEL GRANT**

- Speaker travel grant (\$ 3375) for delivering lecture (Emerging Applications of AI and Machine Learning in Food Safety) at the International Association for Food Protection's Annual Meeting (IAFP 2023) which is to be held at Toronto, Canada from July 15, 2023, to July 19, 2023. (Visa declined)

## **Patent**

### **Granted**

- An IoT enabled apparatus for cooking – Patent no. 202022102616.5 dated 12/05/2022 (German Patent)
- Driver performance scoring smart system and safety warning with accident proneness filtering using machine learning – Patent no. 202022100928 Dated 22/03/2022 (German Patent)
- Milk Analyzer- Patent no. 363763-001 dated 05/05/2022 (Indian design patent)
- Seed Quality Analyzer- Patent no. 365447-001 dated 05/06/2022 (Indian design patent)
- Adulteration monitoring device - Patent no. 364429-001 dated 19/05/2022 (Indian design patent)
- Vegetable quality analyzer - Patent no. 367710-001 dated 15/07/2022 (Indian design patent)
- Fruit processing machine - Patent no. 373988-001 dated 12/11/2022 (Indian design patent)
- Milk adulteration monitoring device - Patent no. 375235-001 dated 08/12/2022 (Indian design patent)
- Potable Solar Onion Dryer - Patent no. 379150-001 dated 12/02/2023 (Indian design patent)
- AI based waste management machine- Patent no. 6289942 dated 21/06/2023 (U.K. Design Patent)



## **CONSULTANCY SERVICES**

- The consultancy was given to the Environmental Management Consultant – E.C.Engineers, Jaipur, for documentation, implementation, and training of ISO 9001:2008 in 2010.

## **EDITORIAL MEMBERSHIPS OF JOURNALS**

- Member of Editorial Board of "**International Engineering Journal For Research and Development**" E-ISSN no.: 2349-0721, Fast Track Publications, India (May 2020 to till date).

## **Research Council Memberships of National institutes or universities**

- Global Vice President in 2021, International Council of Applied Science Research (ICASR), International Centre for Research and Innovation, Eudoxia Research Centre, India.
- A spokesman in 2021, World Agriculture Research Council (WARC), The International Research Council of Eudoxia, Eudoxia Research Centre, India.
- Research Coordinator- Food Science and Technology Stream, Department of Research and Development, I.K.G. Punjab Technical University, Kapurthala.

## **PROFESSIONAL MEMBERSHIP**

- Lifetime Member of Institute for Engineering Research and Publication
- Lifetime Member of Punjab Science Congress.
- Lifetime Member of International Society for Research and Development.
- Active Member of The International Society for Nutraceuticals and Functional Foods (2012-13).
- Professional member of European Nutraceutical Association Foods (2012-13).
- Regular member of International Association for Food Protection (ID 66488, 2023-24)

## **BOARD OF STUDIES MEMBERSHIP**

- Member of Board of Studies (Food Technology) for Department of Food Technology, Khalsa College, Amritsar, 2016 to till date.
- Member of Board of Studies (Food Technology) for affiliated colleges of I.K.G. Punjab Technical University, 2011 to till date.
- Member of Board of Studies (Food Technology) for Main Campus I.K.G. Punjab Technical University, 2012 to till date.
- Member of Board of Studies (Clinical Research) for Main Campus I.K.G. Punjab Technical University, 2019 to 2021.

- Member of Board of Studies (Hotel Management) for affiliated colleges as well as Distance Education Programme of I.K.G. Punjab Technical University, 2014 to 2017
- Member of Board of Studies (Agriculture Sciences) for affiliated colleges of I.K.G. Punjab Technical University, 2014 to 2017.

### **CONTRIBUTION TO DISTANCE EDUCATION**

- Stream and course Coordinator of post-graduation and graduation courses of
  - Hotel Management & Catering Technology (Dec. 2013 to Feb. 2015)
  - Airlines, Tourism & Hospitality Management (Dec. 2013 to Feb. 2015)

### **PERSONAL DETAILS**

Date of Birth : March 12, 1981

Nationality : Indian

Languages known : English, French, Hindi, Punjabi

Hobbies : Reading Books/Journals

**Place: Kapurthala, India**

  
(Dr. Barinderjit Singh)