

Personal Profile



Dr. Sandeep Janghu
Associate Professor
Department of Food Technology
Rajiv Gandhi University (A Central University)
Rono Hills, Doimukh, Arunachal Pradesh-791112

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Educational Profile

Ph.D. (Food Engg. & Tech.) S.L.I.E.T., Longowal, Punjab.
M.Tech (Food Engg.) G.J.U.S.T., Hisar, Haryana.
M.Sc. (Food Sc. & Tech.) Ch. Devi Lal University, Sirsa, Haryana.
International P.G. Course Hebrew University of Jerusalem, Israel.

Professional Experience

Associate Professor Department of Food Technology, Rajiv Gandhi University, Arunachal Pradesh	June 2023- Till Date
Assistant Professor National Institute of Food Technology, Entrepreneurship & Management (NIFTEM)- Thanjavur	May 2015-May 2023
Assistant Professor ITM University, Guwalior, M.P.	July 2014-April 2015
Assistant Professor Shoolini University, Solan, H.P.	July 2010-Feb 2014

Administrative Experience

Head, Department of Food Technology, Rajiv Gandhi University, Arunachal Pradesh	July 2023-Till Date
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Awards & Honor's

- UGC-CSIR-NET Qualified in Life Sciences, All India Rank 25 (Dec. 2012).
- MASHAV Fellowship for International PG course in ISRAEL (Feb. 2014).
- NCC 'C' Certificate.

Membership of Professional Bodies

- **Lifetime member** of Nutrition Society of India, National Institute of Nutrition, Hyderabad, INDIA.
- **Life member** of Association of Food Scientists & Technologists, India (**AFSTI**), CFTRI, Mysore. INDIA (Membership no: **AFST/LM/2-2019/TEZ/2924**).

Research Interests

- Cereal Sciences
- Bakery Science & technology
- Honey Processing
- Dairy Technology
- Fruits & Vegetable Processing
- Non-Thermal processing techniques

Research Publications

- Rimpi Foujdar, Harish Chopra, **Sandeep Janghu** and Manab Bandhu Bera (2023). Fabrication of “Lysine modified Zein- Punica granatum peels’ purified ellagitannin nanoconjugates (Ly-M-Z-PE NCs)” and its in-vitro bio-accessibility, antiproliferative activity as well as biosafety studies. *Food Bioscience*. Vol. 55, October 2023, Article: 102943.
- Surbhi Kapoor, Rajat Chandel, Ramandeep Kaur, Satish Kumar, Raj Kumar, **Sandeep Janghu**, Amarjeet Kaur and Vikas Kumar (2023). The flower of *Hypericum perforatum L.*: A traditional source of bioactives for new food and pharmaceutical applications. *Biochemical Systematics and Ecology*. Vol. 110, October 2023, Article: 104702.
- Sumi Das, Kandarpa Kumar Saikia and **Sandeep Janghu** (2023). Spray drying microencapsulation effect on Antibacterial activities of Citrus limon Burm powder against pathogenic bacteria. *Indian Journal of Applied & Pure Biology*. Special Volume June 2023, Page No. 65-73.
- Pratishtha Bassi, Vikas Kumar, Ramandeep Kaur, Satish Kumar, Ramesh Kumar Saini, **Sandeep Janghu** (2023). Valorization of Kinnow peel for development of phytochemical enriched tea infusion: Standardization of tea bag loading, dipping temperature and dips per minute for the better extraction of bioactive compounds. *International Journal of Food Science and Technology*. Vol 58, Issue 5, Page 2715-2721.
- Rajni Saini, Satish Kumar, Vikas Kumar, Ajay Sharma, **Sandeep Janghu**, Rakesh Sharma, Priyanka Suthar (2022). Deep Eutectic Solvents: The New Generation Sustainable and Safe Extraction Systems for Bioactive Compounds in Agri food sector: An Update. *Journal of Food Processing and Preservation*. Vol. 46, Issue 10, Page e16250.
- Vinita Sharma, Maninder Kaur, Kanwaljit Singh Sandhu, Vikash Nain, **Sandeep Janghu** (2021). Physicochemical and rheological properties of cross-linked litchi kernel starch and its application in development of bio-films. *Starch-Starke*. Vol. 73, Issue 7-8, Page 1-6.

- Mandar Gawas, Aarti Bains, **Sandeep Janghu**, Pranali Kamat, Prince Chawla (2021). A comprehensive review on varicose veins: preventive measures and different treatments. *Journal of the American College of Nutrition*. Vol. 41, Issue 5, Page 499-510.
- Giridhar Goudar, Paras Sharma, **Sandeep Janghu**, T. Longvah (2020). Effect of processing on barley β - glucan content, its molecular weight and extractability. *International Journal of Biological Macromolecules*. 162; 1204-1216.
- Anil Panghal, Ravinder Kaur, **Sandeep Janghu**, Poorva Sharma, Paras Sharma and Navnidhi Chhikara (2019). Nutritional, phytochemical, functional and sensorial attributes of *Syzygium cumini* L. pulp incorporated pasta. *Food Chemistry*. 289; 723-728.
- **Sandeep Janghu**, Manab B. Bera, Vikas Nanda (2018). Characterization of Different Unifloral Indian Honey Varieties on The Basis of Physico Chemical Properties and Rheological Behavior. *The Annals of the University Dunarea de Jos of Galati Fascicle VI - Food Technology*. 42(2);36-48.
- Ravinder Kaushik, Prince Chawla, Naveen Kumar, **Sandeep Janghu**, Amit Lohan (2018). Effect of Pre-Milling Treatments on Wheat Gluten Extraction and Noodle Quality. *Food Science and Technology International*. 24(7); 627-636.
- Anil Panghal, **Sandeep Janghu**, Kiran Virkar, Yogesh Gat, Vikas Kumar, Navnidhi Chhikara (2018). Potential Non-Dairy Probiotic Products- A Healthy Approach. *Food Bioscience*. 21; 80-89.
- **Sandeep Janghu**, Manab. B. Bera & Vikas Nanda (2018). Rheological properties of few Unifloral Indian Honey. Conference proceedings in "International conference on Agricultural & Biological Sciences (ICABS-2018)". At Melbourne, Australia from 6th – 7th August 2018. (Oral Presentation and full-length paper published in proceedings).
- **Sandeep Janghu**, Manab B. Bera, Vikas Nanda & Ashish Rawson (2017). Study on Power Ultrasound Optimization and Its Comparison with Conventional Thermal Processing for Treatment of Raw Honey. *Food Technology and Biotechnology*. 55(4); 570-579.
- Monisha Choudhury, Ankita Majumdar & **Sandeep Janghu**. (2016). Development and Acceptance Analysis of Mixed Fruit Pomace Fortified High-Fiber Biscuit. *International Journal of Advances in Science Engineering and Technology*, Vol. 4, No. 4 Spl. Issue-2. Pp. 35-39.
- **Sandeep Janghu**, Aradhita Ray, Vikas Bansal and Ravinder Kaushik. (2014). Dehydration Process Optimization for Maximum Lycopene Retention in Tomato Slices Using Response Surface Methodology. *Asian Journal of Dairy and Food Research*, Vol. 33, No. 3. Pp. 204-208.
- **Sandeep Janghu**, Ravinder Kaushik, Vikas Bansal, Paras Sharma and Suman Dhindwal. (2014). Physicochemical Analysis of Ghee Residue and Conversion into Confectionary Food Products. *Indian Journal of Dairy Science*, Vol. 67, No. 4. July-Aug. 2014. Pp. 294-299.

Book/Book Chapter published

- Manab Bandhu Bera, Ashwani Kumar, **Sandeep Janghu** (2023). Application of physical properties in designing modern storage structures/silos/bins. In: M. B. Bera and K. Prasad (eds.) Food Storage Engineering. Apple Academic Press, Canada, Chapter 4.
- Malabika Kalita, Doll Chutani, **Sandeep Janghu** (2023). Food Spoilage Conditions: Perishable Foods. In: M. B. Bera and K. Prasad (eds.) Food Storage Engineering. Apple Academic Press, Canada, Chapter 8.
- Bandita Bagchi Banerjee, **Sandeep Janghu** (2023). Food Spoilage Conditions: Non-Perishable Foods. In: M. B. Bera and K. Prasad (eds.) Food Storage Engineering. Apple Academic Press, Canada, Chapter 9.
- Himanshu Rajput, **Sandeep Janghu** (2023). Storage Management System: safety and sanitation. In: M. B. Bera and K. Prasad (eds.) Food Storage Engineering. Apple Academic Press, Canada, Chapter 10.
- Bandita Bagchi Banerjee, **Sandeep Janghu** (2022). Role of Food Microwave Drying in Hybrid Drying Technology. In: Jelena Jovanovic (ed.) A Comprehensive Review of the Versatile Dehydration Processes. (ISBN: 978-1-83768-141-9) IntechOpen Limited, London, United Kingdom. Page No. 1-15.
- Bandita Bagchi Banerjee, **Sandeep Janghu** (2022). Chapter 3: Basic Characterization of Essential Oil Recovered from Indigenous Assam Lemon's (*Citrus Limon* L. Burmf) Wasted Peel. In: Sustainable Food Resource Management: Technological Interventions, Safety Aspects and Future Trends. (ISBN: 978-93-5570-533-4) AkiNik Publications, Rohini, New Delhi, India. Page No. 35-44.
- G. Mohan Naik, P. Vasantha Kumari, R. Jaganmohan, **Sandeep Janghu** and Asish Rawson (2019). Production Technology of Jackfruit Flour as a Functional Ingredient. In: Nandan Sit, Laxmikant S. Badwaik and Amit Baran Das (eds.) Innovations in Food Processing Technology. New India Publishing Agency, India, Chapter 18.

Popular Articles

- Bandita Bagchi Banerjee, **Sandeep Janghu** (2023). Scope of Bakery Industry in North East India. *Agriculture & Food: E-Newsletter*. Volume 5, Issue 1, Page 23-24. (WWW.AGRIFOODMAGAZINE.CO.IN) (E-ISSN-2581-8317) (Article ID: 40007).
- Bandita Bagchi Banerjee, Vikas Kumar, **Sandeep Janghu** (2022). Post Covid globalization prospects of health befitting Sub Himalayan minor fruits from Northeast India – A Review. *Indian Food Industry Magazine*. Vol 4, No 4, Jul-Aug 2022. Page 46-57.
- **Sandeep Janghu**, Bandita Bagchi Banerjee (2022). Scopes and opportunities in Agri-Processing in North East India. *Agriculture & Food: E-Newsletter*. Volume 4, Issue 1, Page 47-49. (WWW.AGRIFOODMAGAZINE.CO.IN) (E-ISSN-2581-8317) (Article ID: 35512).

- Bandita Bagchi Banerjee, **Sandeep Janghu** (2022). Prospects of Manipur as Agri-Business Hub. *Agriculture & Food: E-Newsletter*. Volume 4, Issue 9, Page 292-293. (WWW.AGRIFOODMAGAZINE.CO.IN) (E-ISSN-2581-8317) (Article ID: 38097).
- Tonmoy Hazarika, **Sandeep Janghu** (2021). Equipments involved in collection of Minor Forest Produce. Training of Master Trainers (ToMTs) – Handbook of Minor Forest Produce Processing under PMFME Scheme. Page 55-77.
- Upama Kalita, **Sandeep Janghu** (2021). Value Addition of Minor Forest Produce. Training of Master Trainers (ToMTs) – Handbook of Minor Forest Produce Processing under PMFME Scheme. Page 32-54.

Course/Conference/Workshop organized

- Organized 2 days short course on bakery and US Blueberries in collaboration with Assocom Institute of bakery technology & Management (AIBTM), Noida during 29-30th August 2022 at NIFTEM-T, Liaison Office, Guwahati.
- Organized 5 days workshop on “Processing & Marketing skill development in food processing in food processing sector” in collaboration with Sishabari Mahila Udyog Farmers Group during 22nd – 26th August 2022 at Hotel Vinayak, Siliguri, West Bengal.
- Organized 1 day workshop (virtual mode) on “Post Harvest Processing and Value Addition of Different Spices” on 17th August 2022 at Liaison Office, Guwahati, NIFTEM-Thanjavur.
- Organized 1 day workshop (virtual mode) on “Processing of Milk & Milk Products” on 28th July 2022 at Liaison Office, Guwahati, NIFTEM-Thanjavur.
- Organized One day workshop on “Food Quality and Safety Management for Export of Processed Food Products from NER” jointly organized by IIFPT-Central Agricultural University –APEDA on 26th March 2021 at College of Agriculture, CAU, Iroisemba, Imphal, Manipur.
- Organized One Day Workshop on “Food Processing Entrepreneurship Development and Export Promotion in Tripura” jointly organized by IIFPT-College of Agriculture, Tripura –APEDA on 6th March 2021 at Pragna Bhawan, Agartala, Tripura.
- Organized One Day Workshop on “Food Quality and Safety Management for Export of Processed Food Products from NER” jointly organized by IIFPT with APEDA on 21 Feb 2021 at Hotel Natraj Dibrugarh.
- Organized One Day Workshop on “Food Quality and Safety Management for Export of Processed Foods from NER” jointly organized by IIFPT-APEDA-USTM on 17 Feb 2021 at USTM Meghalaya Campus.
- One day workshop organized on Bakery Technology Liaison Office, Bathinda, Indian Institute of Food Processing Technology on 28th February 2019.
- Organizing member for International Conference on “Food Security, Nutrition and Sustainable Agriculture- Emerging Technologies” Jointly organized with Baba Farid Group of Institutions, Bathinda on 14-16th February 2019.

- Organizing member for One-day workshop on “Opportunities in Food Processing” at Jeet Palace, Bathinda on 27th February 2018.
- Organizing member for National Seminar on “Recent Trends in Food Processing” Jointly organized by Indian Institute of Crop Processing Technology, Thanjavur & Central University, Bathinda at Central University, Bathinda on 09th December 2016.
- Organizing member for National Seminar on “Whole Grain for Healthy Life” on 16th October 2015 at Indian Institute of Crop Processing Technology, Thanjavur.

Invited Talks/Paper Presented in Event/Conference/Workshop etc.

- Delivered an Invited talk on “Technological Interventions in Food Processing Sector” during GoA-IIT-G, IndiGlobal Bharat Summit-2023 organized by Govt. of Assam- IIT-Guwahati at IIT-Guwahati on 27-28th February 2023.
- Delivered a talk on “Career opportunities in Food Processing Industries” during visit of BSc. Food Nutrition & Dietetics students from CAU College of Community Sciences, Tura at NIFTEM-T, Liaison Office, Guwahati on 20th February 2023.
- Presented invited talk over “Opportunities in Food Processing Sector” during state level one day workshop organized by ARIAS Society during 30th January 2023 at Conference Hall, ARIAS Society, Guwahati.
- Delivered invited talk during 40th Foundation Day celebration of NERAMAC organized by NERAMAC on 31st March 2022.

Title of talk: Potentiality of Agri-Horti sector in North East, Innovative technologies in food processing and funding/credit linkages on food processing sector

- Invited lecture delivered during Training on Production, preservation and value addition of spices and condiments organized by State Agricultural Management & Extension Training Institute (SAMETI), Directorate of Agriculture, ASSAM on 21st March 2022.

Title of talk: Processing of Spices & Condiments, Major & Minor spices

- Delivered talk during Emerging North East-2022 organized by ASSOCHAM on 02nd March 2022.

Title of talk: Mushroom cultivation and value addition

- Invited lecture delivered during Women Entrepreneurship Development Program (WEDP) organized by National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India on 14th March 2022.

Title of talk: Potential sector having “NER Advantage” - Food Processing and Value chain development

- Delivered talk during Technical Session on S&T innovations to provide livelihood opportunities in the NE solution on Agriculture & Food Processing organized by North East Centre for Technology Application & research (NECTAR), DST, govt. of India on 21st December 2021.

Title of talk: About Food Processing in NER, IIFPT/MoFPI Schemes

- Invited lecture delivered during Entrepreneurship Development training program for spice export from NER organized by Spice Board of India, Regional Office, Guwahati on 01st December 2021.

Title of talk: Spice processing technology, schemes under MoFPI

- Invited talk delivered during Good Agricultural Marketing Practices organized by Assam Rural Infrastructure Agricultural Services (ARIAS) Society on 30th November 2021.

Title of talk: Quality improvement of agri-produce through processing

- Delivered an invited talk during Awareness program on Food Technology organized by Department of Food Technology, Guru Jambheshwer University of Sc & Technology on 11th November 2021.

Title of talk: MoFPI schemes focused on the Food Processing Sector

- Delivered an invited lecture during National Training Program organized by National Corporative Development Corporation (NCDC) – LINAC on 12th October 2021.

Title of talk: Honey uses, processing & its economic importance

- Invited lecture delivered during Online Entrepreneurship Development Program organized by Spice Board of India, Regional Office, Guwahati on 10th March 2021.

Title of talk: Spice Processing technology & Schemes by MOFPI for North Eastern Region.

- Delivered an invited lecture during webinar on Dietary diversification for better Nutrition organized by NetProFan North East Chapter, Guwahati on 25th September 2021.

Title of talk: Dietary diversification need of the hour

- Invited talk delivered during Converging towards a healthy walk through life organized by Network of Professionals of Food & Nutrition in India, NE Chapter on 25th September 2021.

Title of talk: Dietary Diversification- Need of the Hour

- Invited lecture delivered during National Level Stakeholders Meet organized by North Eastern development Finance Corporation Ltd. (NEDFI), Guwahati, Assam on 17th November 2020.

Title of talk: Role of IIFPT in Food Processing for North East Region: Gaps/Challenges in Value chain in Horticulture in NER

- Delivered invited lecture during National Organic Food Festival-2020, New Delhi organized by Ministry of Food Processing Industries, GOI & CII on 21st February 2020.

Title of the talk: Post-Harvest Management & Value Addition

- Invited lecture delivered during Food Processing Summit-2020, LADAKH organized by Invest India Group on 16th January 2020.

Title of lecture: Scaling up the production of UT and Technologies developed for commercialization by IIFPT

- Delivered invited lecture during Industry Interactive Meet on Tea, Sericulture & Food Processing, Agartala, TRIPURA organized by Confederation of Indian Industry (CII) on 7th December 2018.

Title of talk: Emerging Trends in the food processing sector & scope for development in NE

- Invited talk delivered during Extension approaches for mainstreaming farm women and popularizing gender friendly tools & approaches, Jorhat, ASSAM organized by EEI- NER on 23rd August 2018.

Title of the lecture: Gender Friendly Technologies in Food Processing

- Invited talk delivered during Technology Assistance to Food Processing on Food Preservation and Hygiene packaging, Bhubaneshwar, ODISHA organized by Odisha Assembly of Small & Medium Enterprise (OASME) on 12th August 2018.

Title of the talk: Export Scopes of Processed Food from North east

- Delivered an invited talk during Food Processing Conclave 2018, Gangtok, SIKKIM organized by Indian Chamber of Commerce (ICC) on 23rd April 2018.

Title of talk: Food Processing: Sector of Opportunities

- Lecture delivered during North East Food Pro 2018, Aizawl, MIZORAM organized by Indian Chamber of Commerce (ICC) on 13th March 2018.

Title of the talk: Technological Advancement and Opportunities in Food Processing

- Delivered an invited talk during North East Food Pro 2018, Shillong, MEGHALAYA organized by Indian Chamber of Commerce (ICC) on 8th March 2018.

Title of the talk: Technological Advancement and Opportunities in Food Processing

- Delivered an invited lecture in North East Food Pro 2018, Guwahati, ASSAM organized by Indian Chamber of Commerce (ICC) on 6th March 2018.

Title of the talk: Technological Advancement and Opportunities in Food Processing

- Invited lecture delivered during Emerging North East 2018, Guwahati, Assam organized by ASSOCHAM on 5th March 2018.

Title of the talk: Food Processing and Value Addition Opportunities in NE

- Invited lecture delivered in 6th AGRO PROTECH 2018, Kolkata, West Bengal organized by Indian Chamber of Commerce (ICC) on 14th February 2018.

Title of the talk: Food Processing: Scopes and Opportunities.

- Delivered an invited talk during Awareness Program & investors meet on Food Processing, Kohima, NAGALAND organized by North East Regional Agricultural Marketing Corporation (NERAMAC) on 25th January 2018.

Title of the talk: Food Processing potential and its benefits for the farmers and entrepreneurs of Nagaland state.

- Delivered an invited talk during ALFINFOODTECH SUMMIT 2017, Bhubaneswar, ODISHA organized by Odisha Assembly of Small & Medium Enterprise (OASME) on 12th August 2017.

Title of the talk: Export opportunities for agro-based food products from Odisha and NE

- Delivered an invited talk in workshop on “Bamboo shoot processing technology”, organized by Cane & Bamboo Technology Centre (CBTC), Guwahati on 5th July 2017.

Title of the talk: Importance of hygiene in food processing.

- Paper presented in “International Conference on Agriculture and Biotechnology” (ICABT), organized by IRAJ Research Forum, Chennai, Tamil Nadu on 30th Oct. 2016.

Title of the talk: Development and Acceptance Analysis of Mixed Fruit Pomace Fortified High-Fiber Biscuits.

- Paper presented in “First International conference on Food, Nutrition and Health” (ICFNH-2016), organized by Indian Dietetic Association & Deptt of Food & Nutrition Research centre, Thassim Beevi Abdul Kader college for Women Kilalarai, Tamil Nadu on 7th June 2016.

Title of the talk: Power ultrasound process optimization for treatment of raw honey

Sponsored Project

Title of the project	Funding agency	Year of sanction	Role
Identification of Sustainable Technologies for Value Chain Development of Jackfruit.	SERB/MoFPI	2015	Co-PI
Development of Non-Thermal Processing and Botanical Source Identification Techniques for Indian Honey.	IICPT	2016	PI
Establishment of Food Processing Business Incubation & Food Testing Laboratory at Liaison Office, NIFTEM-T, Guwahati	MoFPI	2017	PI
Establishment of Training Centre for Skill Training under various Job roles in Food Processing.	SHRISD/MoFPI	2019	PI