

Dr. Amit Kumar Juneja

Assistant Professor (Dairy Engineering)

College of Post Harvest Technology & Food Processing

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Research Areas: Exergy analyses of dairy equipments and plants, Mechanization of Traditional Indian Dairy Products, Process Equipment Design

Qualifications

- B.Tech. (Dairy Technology) from Dairy Science College, Bangalore
- M.Tech. (Food Process Engineering and Management) from NIFTEM, Sonapat
- Ph.D. (Dairy Engineering) from NDRI, Karnal

Academic Achievements

- Qualified ICAR NET (Agriculture Structure and Process Engineering) by ICAR
- Qualified UGC NET (Home Science)
- Qualified Gate (Life Sciences)

Conferences/Workshops/Life Membership

- Presented paper during 13th IDEA Convention & International Conference organized by GADVASU, Ludhiana from 13-10-2023 to 14-10-2023
- Participated in poster presentation during 13th IDEA Convention & International Conference organized by GADVASU, Ludhiana
- Attended workshop on ABC of Scientific Writing organized by NRRI, Cuttack from 22-07-2020 to 05-08-2020
- Workshop cum training programme on Computer vision applications in dairying organized by ICAR-NDRI, Karnal from 22-01-2020 to 24-01-2020
- Life Membership of Indian Dairy Engineers Association

Work Experience

- Worked as Assistant Professor (Dairy Engineering) at Sher-e-Kashmir University of Agricultural Sciences & Technology, R.S.Pura, Jammu from 01.04.2024 to 21.10.2024
- Worked as Senior Research Fellow on “Development of equipment for mechanized production of traditional Indian dairy products” at Dairy Engineering Dept., National Dairy Research Institute, Karnal from 01.08.2017 to 30.09.2017

Publications

- Juneja, A. K., Barnwal, P., Sharma, A. K., Naskar, B., & Ammu, V. K. (2023). Energy, exergy and exergoeconomic analyses of single stage spray drying plant in the northern region of India for skim milk powder production. *Journal of Thermal Analysis and Calorimetry*, 148(20), 11081-1109.
- Juneja, A. K., Barnwal, P., Sharma, A. K., & Naskar, B. (2023). Thermodynamic and exergoeconomic analyses of two-stage spray drying plant for skim milk powder production. *Drying Technology*, 41(13), 2105-2118.
- Ammu, V. K., Vairat, A. D., Minz, P. S., Singh, A. K., Chitranayak, Juneja, A.K, & Jayswal, D. Whey removal characteristics during conventional production of chhana. *Indian J Dairy Sci*, 75(3), 208-214.
- Naskar, B., John, H., Barnwal, P., Puniya, A. K., Sharma, R., & Juneja, A. K. (2024). Influence of Magnetic Induction Power on Physico-Chemical and Microbial Quality of Milk. *Journal of Scientific & Industrial Research*, 83(4), 343-349.
- Ammu, V. K., Minz, P. S., Singh, A. K., Vairat, A. D., Chitranayak, J. A., & Jayswal, D. K. (2020). An overview of mechanization in chhana production. *Indian Journal of Dairy Science*, 73(1), 1-6.
- Juneja, A. K., Ammu, V. K., & Jayswal, D. B. (2021). Role of Artificial Intelligence for Quality Evaluation of Food Products. In *Handbook of Research on Food Processing and Preservation Technologies* (pp. 111-124). Apple Academic Press.
- Halder, K., Juneja, A., Hati, S., & Solanki, C. (2018). Technological Interventions in Kulfi Production: A Review. In *Novel Dairy Processing Technologies* (pp.75-92). Apple Academic Press.
- Juneja, A. K., Ammu, V. K., & Jayswal, D. B. Irradiation—A novel food preservation technique. *Indian Food Industry Magazine*, Vol 2, No 5, Sept-Oct 2020.
- Ammu, V. K., Juneja, A. K., Dominic, D.M. & Jayswal, D. B. Microwave assisted freezing: The freezing technology of future. *Food and Scientific Reports*, Vol 1, Issue 8, August 2020.

Awards

- Recipient of ICAR-NDRI Institute Fellowship in Ph.D. programme
- Recipient of Gate Scholarship in M.Tech. programme
- Recipient of ICAR National Talent Scholarship during B.Tech. programme
- Consolation Prize in National Dairy and Food Quiz contest held at SMC College, Anand Agricultural University, Anand, Gujarat (2013)
- Second prize in Village Adoption Programme (2015)