

Chandrakant Genu Dalbhagat

Project Officer (FRK Project)

Agricultural and Food Engineering Department

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Education

12/2015- present	Ph D (Pursuing) Topic: Manufacture of micronutrient fortified rice using extrusion technology Advisor: Prof. H N Mishra
2009- 2011	Master of Technology (Dairy & Food Engineering) Agricultural and Food Engineering Department, IIT Kharagpur, West Bengal Topic: Study and performance evaluation of a new plate heat exchanger of higher capacity Advisor: Prof. H N Mishra Final Grade: 8.68/10
2005- 2009	Bachelor of Technology (Agricultural Engineering) Mahatma Phule Krishi Vidyapeeth, Rahuri (Maharashtra) Topic: Preparation of soil fertility map of the experimental farm, Nashik, Maharashtra, India Advisor: Prof. N. V. Jadhav Final Grade: 8.54/10

Professional Experience

June 2019 to till date	Project Officer (FRK Project) , Agricultural and Food Engineering Department, IIT Kharagpur, West Bengal
Nov 2015 to Sept 2018	Senior Research Fellow (EHR Project) , Agricultural and Food Engineering Department, IIT Kharagpur, West Bengal
July 2011 to October 2015	Assistant Professor , K. K. Wagh College of Agricultural Engineering and Technology, Nasik, Maharashtra

PUBLICATIONS

- **Dalbhat, C. G.**, & Mishra, H. N. (2019). Effects of Extrusion Process Conditions on System Parameters; Physicochemical Properties and Cooking Characteristics of Extruded Fortified Rice Kernels. *Journal of Cereal Science*. <https://doi.org/10.1016/j.jcs.2019.05.016>.
- **Dalbhat, C. G.**, Mahato, D. K., & Mishra, H. N. (2019). Effect of extrusion processing on physicochemical, functional and nutritional characteristics of rice and rice-based products: A review. *Trends in Food Science & Technology*. 85, 226-240.
- Burbade R. G., **Dalbhat C. G.**, Jadhav S. C., & Jadhav, N. V. (2012). Effect of wrapping materials on the storage of cut flowers. *Green farming: International Journal of Applied Agricultural and Horticultural Sciences*. 3(5), 607-610.
- Jadhav, N. V., **Dalbhat C. G.**, & Jadhav, V. D. (2012). Preparation of Soil fertility map of Experimental farm, Nashik, Maharashtra, India. *Green farming: International Journal of Applied Agricultural and Horticultural Sciences*. 3(2), 238-241.
- A popular article on "Fortified Rice: Solution to Iron Deficiency Anaemia" in Food & Beverage News on April 1-15, 2017.
- A popular article on "Equipment for manufacturing Bakery Products" in a daily agrowon newspaper on 8th and 15th Sept. 2015.

CONFERENCES

- Mishra H. N. & **Dalbhat C. G.** (2018). Characterization and Process Optimization for Production of Iron Fortified Rice (IFR) Using Twin Screw Extruder. 3rd International Conference on Food Properties. Sharjah (UAE). January 22-24.
- **Dalbhat C. G.**, Mahato D. K., & Mishra H. N. (2018). Effect of Extrusion Processing on System Parameters and Physico-chemical Properties of Extruded Rice. 3rd International Conference on Food Properties. Sharjah (UAE). January 22-24.
- **Dalbhat C. G.**, & Mishra H. N. (2018). Effect of Extrusion Process Parameters on the Functional, Cooking, Thermal and Structural Properties of Fortified Rice Kernels (FRK). IFT 18: A Matter of Science + Food. Chicago, IL (USA). July 15-18.
- **Dalbhat C. G.**, & Mishra H. N. (2018). Effect of Die Opening Size on the Extruder Operating Parameters, Cooking and Structural Properties of Fortified Rice Kernels. 19th IUFOST World Congress of Food Science and Technology 2018. Mumbai (India), October 23-27.
- **Dalbhat C. G.**, Mishra H. N. & Londhe R (2016). Performance Evaluation of New Plate Heat Exchanger of Higher Capacity. International Conference on Emerging Technologies in Agricultural and Food Engineering. Kharagpur (India), December 27- 30.

WORKSHOPS ATTENDED

- A one day workshop on "ICT based application in Irrigation Scheduling" organised by Dr Annasaheb Shinde College of Agricultural Engineering, MPKV Rahuri on 24th March 2015.
- A two-day workshop on "Protected Cultivation for Vegetable Crops" organised by Precision Farming Development Centre, MPKV Rahuri on 10th and 11th March 2015.
- A two-week ISTE Workshop on Engineering Thermodynamics organised by IIT Mumbai on 11th to 21st December 2012

ACADEMIC ACCOLADES

- Qualified NET Examination 2011 & 2018 in Post-Harvest Engineering and Technology conducted by Agriculture Scientist Recruitment Board, New Delhi
- All India Rank 53rd in GATE -2009 (Graduate Aptitude Test in Engineering)
- M.H.R.D. (Ministry of Human Resource Development) scholarship by Government of India for Post-Graduation Studies (2009-2011)
- First Prize at National level paper presentation held in College of Engineering, Pandharpur (Maharashtra).
- Second Prize at State level paper presentation held in Dr D. Y. Patil College of Agricultural Engineering, Kolhapur (Maharashtra).
- General Secretary of K. K. Wagh College of Agricultural Engineering and Technology, Nashik during under graduation.
- K. K. Wagh Memorial Scholarship for AY 2005-06 and 2007-08.

Research Interest

- Food fortifications (Rice fortification)
- Extrusion processing
- Food formulations & functional foods
- Food process modelling

PERSONAL DETAILS

Date of Birth : 10th October 1986
Permanent Address : At- Deole Po- Ghoti Tal-Igatpuri Dist-Nashik State-Maharashtra Pin-422402
Languages Known : English, Hindi and Marathi

(Dalbhat Chandrakant Genu)

Place : Kharagpur
Date : 24 October 2019