



Dr. Irengbam Barun Mangang, B.Tech., M.Tech., Ph.D., FSASS

Currently working as Assistant Professor (Contract), Kelappaji College of Agricultural Engineering and Food Technology (KCAE & FT), Tavanur, Kerala

Former Lecturer at North Eastern Hill University

(NEHU), Tura Campus

12barunmangang@gmail.com

+91-8778015818

INTRODUCTION	A professional Food Technologist who has completed post-graduation and doctorate in Food Science and Technology and published 14 research papers, 2 book chapters, and 7 popular articles.				
SPECIALIZATION	Bio-based chemicals, circular bioeconomy, food packaging, food processing technology, microencapsulation				
GOOGLE SCHOLAR	Dr. IB Mangang - Google Scholar				
EXPERIENCE 1	<p>JRF/SRF in a DST project titled Development of Vegetative propagation Protocol and Vacuum Freeze Dehydrated Probiotic Powder from Sohiong (<i>Prunus nepalensis</i>) for almost 12 months in Incubation Center, Department of Agri-Business Management and Food Technology, NEHU, Tura Campus</p> <ul style="list-style-type: none"> • Ensure research and development activities, which led the R&D efforts of the project from its inception to develop a range of food products • Engaging in promotion including student recruitment as appropriate • Manuscript preparation • Technology dissemination • Teaching masters and guiding Ph.D. • Taking practical classes for master students 				
EXPERIENCE 2	<p>Lecturer in Department of Agri-Business Management and Food Technology, NEHU, Tura Campus from 1st October, 2023 till 9th June 2024</p> <p>Subjects handled:</p> <ol style="list-style-type: none"> 1. Food engineering and unit operations 2. Food packaging 3. Technology of Fruits and vegetables 4. Research methodology and biostatistics 5. Techniques in Food Analysis 6. Food Product Development 				
EXPERIENCE 3	<p>Assistant Professor (C): Ongoing</p> <p>Subjects handled:</p> <ol style="list-style-type: none"> 1. Processing Technology of Dairy Products 2. Processing Technology of liquid milk 3. Food plant sanitation 				
PERSONAL INFORMATION	<p>Father's name : IRENGBAM BOJEN SINGH Mother's Name: IRENGBAM UMABATI DEVI Marital status : Unmarried Date of Birth : 01/02/1996 Category : OBC NCL</p>				
ADDRESS	Permanent Address	Present Address			
	Kwakeithel Moirang Pural Leikai, Imphal West – 795001, Manipur, India	Kelappaji College of Agrl Engg & Technology Tavanur (PO) - 679573, Malappuram (Dist), Kerala, India.			
ACADEMICS	EXAM	UNIVERSITY	NAME OF INSTITUTE	YEAR	%
	B.Tech	Central Agricultural University	College Of Agricultural Engineering and Post-Harvest Technology, Sikkim	2013-2017	79.6

	M.Tech	Tamil Nadu Agricultural University	Indian Institute of Food Processing Technology, Thanjavur	2017-2019	85.0
	Ph.D.	NIFTEM-T	NIFTEM- Thanjavur	2019-2022	86.1
RESEARCH PAPER PUBLISHED	<ol style="list-style-type: none"> 1) Mangang, Irengbam Barun & Manickam, Loganathan. (2022). Insect repellent pellets—an application of botanicals against red flour beetle—their antifungal activity during storage and use as potential fumigants. <i>Journal of the Science of Food and Agriculture</i>, 102(14), 6696-6706. 10.1002/jsfa.12037. (SCI Impact factor: 4.125) 2) Mangang, I. B., Minj, R., Manickam, L., Rangarajan, J., & Shanmugasundaram, S. (2022). Turmeric—a super food—prevention of post-harvest losses using radio frequency disinfestation. <i>Archives of Phytopathology and Plant Protection</i>, 55(12), 1450-1463. (Scopus indexed: SNIP 0.586) 3) Sasikumar, R., Mangang, I. B., Vivek, K., & Jaiswal, A. K. Effect of ultrasound-assisted thin bed drying for retaining the quality of red bell pepper and compare the predictive ability of the mathematical model with artificial neural network. <i>Journal of Food Process Engineering</i>, e14468. (SCI Impact Factor: 2.89) 4) Appugol, K.A., Mangang, I. B., Shanmugasundaram, S., Manickam, L. (2022). Radiofrequency heating: A novel thermal treatment on the quality of peanut during disinfestation of <i>Caryedon serratus</i> and its potential in reducing aflatoxin. <i>Journal of Food Processing and Preservation</i>, 46(11), e17029. (SCI Impact factor: 2.609) 5) Mangang, I. B., Appugol, K.A., Vidhya Lakshmi A., R Meenatchi., V Eyarkai Nambi., Manickam, L. (2022). Insect repellent nettings: An application of plant-based Insecticides: Preventing the dispersal of the red flour beetle. <i>The Pharma Innovation</i>. 11(9): 1286-1291. (NAAS: 5.23) 6) Appugol, K.A., Mangang, I. B., Vidhya Lakshmi A., Manickam, L. (2022). Radiofrequency Assisted Disinfestation of <i>Caryedon serratus</i> in Peanuts. <i>Biological Forum- An International Journal</i>. 14(3): 295-301. (NAAS: 5.11) 7) Vidhya Lakshmi A., Appugol, K.A., Mangang, I. B., Rangarajan, J., Manickam, L. (2022). Development of Fig Chikki using Fig powder (<i>Ficus Carica</i>) and its storage stability studies. <i>Biological Forum- An International Journal</i>. 14(3): 245-252. (NAAS: 5.11) 8) Subrahmaniyan, M., Mangang, I. B., & Manickam, L. (2022). Evaluation Of Antioxidant Properties, Total Phenolic and Flavonoid Content of Six Medicinal Plants. <i>Uttar Pradesh Journal of Zoology</i>. 43(3): 32-39. (NAAS: 4.21) 9) Minj, R., Mangang, I. B., Rangarajan, J., & Manickam, L. (2021). Effect of microwave heating-based disinfestation of cigarette beetle (<i>Lasioderma serricorne</i>) in turmeric powder. <i>The Pharma Innovation</i>. (NAAS: 5.23) 10) Subrahmaniyan, M., Mangang, I. B., & Manickam, L. (2021). Toxicological potential of four plant extracts impregnated on packaging materials against red flour beetle. <i>International Journal of Entomology Research</i>, 6(5): 202-206. (Impact Factor: RJIF 8) 11) Subrahmaniyan, M., Mangang, I. B., & Manickam, L. (2021). Repellent effect of six medicinal plants against <i>Tribolium castaneum</i> (Herbst). <i>International Journal of Botany Studies</i>. 6(6): 438-444. (Impact Factor: RJIF 8) 12) Mangang, I. B., Tiwari, A., Rajamani, M., & Manickam, L. (2020). Comparative laboratory efficacy of novel botanical extracts against <i>Tribolium castaneum</i>. <i>Journal of the Science of Food and Agriculture</i>, 100(4), 1541-1546. (SCI Impact factor: 4.125) 13) Mangang, I. B., Tiwari, A., M., & Manickam, L. (2019). Comparative repellency study of novel insect repellent cloth bags treated with the plant extracts against <i>Tribolium castaneum</i>. <i>International Journal of Chemical Studies</i>, 7(3): 4155-4157. (NAAS 5.31) 14) Tiwari, A., Mangang, I. B., & Manickam, L. (2019). Radio frequency disinfestation of black gram: effect on grain's viability and physico-chemical composition. <i>International Journal of Chemical Studies</i>, 7(3), 4869-4872. (NAAS 5.31) 				
RESEARCH TOPICS	B.Tech	Development of Ready to Eat Extruded Snacks from Composite Flour			
	M.Tech	Impregnation of Medicinal Plants in Packaging for Safe Storage of Grains			
	Ph.D.	Development of insect repellent systems for the management of insects in grain storage			

BOOK CHAPTERS	<ol style="list-style-type: none"> 1) Manickam, L., Mangang, I. B., & Rajamani, M. (2021). Phytochemicals for the Management of Stored Product Insects. In Sustainable Bioeconomy (pp. 171-182). Springer, Singapore. 2) Niveditha, H., Akshay, R.P., Aditi, N., Mangang, I. B., Vanmathi, M.A., & Rajamani, M. (2022). Food allergies. In Research Trends in Food Technology and Nutrition (pp. 17-38). AkiNik Publications, New Delhi.
POPULAR ARTICLES	<ol style="list-style-type: none"> 1) Mangang, I. B., & Manickam, L. (2021). Botanicals – The promising alternative to chemicals in stored pest management. <i>Just Agriculture</i>, 1(10): 79. 2) Appugol, K.A., Mangang, I. B., Manickam, L. (2022). Rising Concerns in Entomophagy. <i>Agriculture and Food: E-newsletter</i>. Article ID: 36559 3) Mangang, I. B., Appugol, K.A., Manickam, L. (2022). Scope of Indicators in Food Industries. <i>Agriculture and Food: E-newsletter</i>. Article ID: 37251 4) Anyasha Das, Birti Katharpi, Sentile Thono, Dipkar Darjee, Banrilaakor Dkhar, Sasikumar R. *, I. B. Mangang *. Critical Analysis of Polyphenol Oxidase: A Major Contributing Factor in Enzymatic Browning Reaction. <i>Agri-Tech Today</i>. Article ID 4240218. 5) Nitika Bishwas, Ayush Gupta, Tangringchi S Momin, Chilse C Marak, T. Siponglemla, Sasikumar R. *, I. B. Mangang *. Ripening And Its Control Using Active Packaging. <i>Agri-Tech Today</i>. Article ID 4240218. 6) Silvyo Mario, Babli Waribam, Sasikumar R., I. B. Mangang*. Exploring sucrose alternatives for bakery: A comprehensive analysis. <i>Agri-Tech Today</i> 7) Babli Waribam, Silvyo Mario, Sasikumar R., I. B. Mangang*. Shortening, a mystery: Unravelling the effect on baked delights. <i>Agri-Tech Today</i>
ABSTRACTS	<ol style="list-style-type: none"> 1) Mangang, I. B., Tiwari, A., Rajendran. D., & Manickam, L. “Comparative repellency study of limonene and deltamethrin against <i>Tribolium castaneum</i>.” <i>8th International Food Convention: HASHTAG</i>. 12-15 Dec, 2018, AFSTI, CSIR-CFTRI, Mysore, India. 2) Tiwari, A., Mangang, I. B., & Manickam, L. “Radio Frequency Disinfestation of Black Gram (<i>Vigna Mungo</i>)”. <i>8th International Food Convention: HASHTAG</i>. 12-15 Dec, 2018, AFSTI, CSIR-CFTRI, Mysore, India. 3) Tiwari, A., Mangang, I. B., & Manickam, L. “Design and Development of Multi-faceted Insect Management Unit”. <i>International Conference on Recent Advances in Food Processing Technology</i>. 17-19 Aug, 2018, Indian Institute of Food Processing Technology, Thanjavur, Tamil Nadu, India.
POSTER/ORAL PRESENTATION	<ol style="list-style-type: none"> 1) Mangang, I. B., Tiwari, A., Rajendran. D., & Manickam, L. “Evaluation of Botanicals for repellent/attractant effect against insects using Multi-faceted Insect Management Unit”. <i>International Conference on Recent Advances in Food Processing Technology</i>. 17-19 Aug, 2018, Indian Institute of Food Processing Technology, Thanjavur, Tamil Nadu, India. 2) Mangang, I. B., Induja, C., & Manickam, L. “Insect Growth Regulating Film”. <i>Post-harvest Management- Concepts, Challenges, Prospects (PHM-2022)</i>. 18-19, 2022, National Institute of Food Technology, Entrepreneurship and Management-Thanjavur (NIFTEM-T), Tamil Nadu, India.
CONFERENCE PARTICIPATION	<ol style="list-style-type: none"> 1) Participated in the <i>Conference on Recent Advances in Food Processing Technology</i>. 17-19 Aug, 2018, Indian Institute of Food Processing Technology, Thanjavur, Tamil Nadu, India. 2) Participated in the <i>8th International Food Convention: HASHTAG</i>. 12-15 Dec, 2018, AFSTI, CSIR-CFTRI, Mysore, India 3) Participated in the <i>Post-harvest Management- Concepts, Challenges, Prospects (PHM-2022)</i>. 18-19, 2022, National Institute of Food Technology, Entrepreneurship and Management-Thanjavur (NIFTEM-T), Tamil Nadu, India.
TRAININGS	<ol style="list-style-type: none"> 1) AICTE Training and Learning (ATAL) Academy Online FDP on “Aqua-food technology (Emerging Food Processing Technologies: Prospects and Challenges for Food and N” from 2021-1-4 to 2021-1-8 at Tezpur University. 2) AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Effective Leadership and Excellence in Technical Education” from 15/11/2021 to 19/11/2021 at Women Engineering College Ajmer

	<ol style="list-style-type: none"> 3) Ten days National Level Online Training on “Recent Advances in Entomology – New Dimensions to Invigorate the Insect Pest Management” from 7th to 18th December, 2020 at University of Horticultural Sciences, Bagalkot College of Horticulture, Bidar 4) 7-Day Design Thinking Course organized by Turnip Innovations from 12 Apr 2023 to 18 Apr 2023 and facilitated by Dr. Hemang Shah 5) 7-Day course on Intellectual Property Management for Startups from 6th May 2023 to 12th May 2023 organized by Turnip Innovations and facilitated by Dr. Rahul Kapoor 6) Six days National level Online FDP on “Writing successful research papers and Project Proposals for Funding Agencies” organized by Department of Food Science and Technology, Malla Reddy University, Hyderabad on 23th June 2023 to 29th June 2023 7) Six-months experience in making biscuits and cookies at CAEPHT, Sikkim. 8) Four-months training in Zyduss Wellness Sikkim where I learnt how to manufacture sugar-free pellets, tablets and powder. 9) Two-months training in Sikkim Milk Union where I learnt how to process pasteurized milk, cheese, ice-cream and butter.
WEBINAR	<ul style="list-style-type: none"> • Participated in IP Awareness/Training program under National Intellectual Property Awareness mission • Participated in National Webinar on Sustainable Food Alternative: Challenges and Opportunities organized by Department of Food Science and Technology, Malla Reddy University, Hyderabad on 11th September 2022
MEMBERSHIPS	<ul style="list-style-type: none"> • Life time member in the Association of Food Scientists and Technologists (India). • Life time member in InSc International Publishers (IIP)
FELLOW	<ul style="list-style-type: none"> • FSASS title in SAS Fellow Membership
NET	<ul style="list-style-type: none"> • Qualified UGC NET lectureship
AWARDS	<ul style="list-style-type: none"> • Institute Free Studentship Award given by Indian Institute of Food Processing Technology in the year 2019 • MOFPI Scholarship from 2020-2022 • Best article award on the title “Rising concerns of entomophagy” • Best oral presentation award in the Post-harvest Management- Concepts, Challenges, Prospects (PHM-2022). 18-19, 2022 • Innovative article award on “Scope of indicators in food industries”.
EXTRA-CURRICULAR ACTIVITIES	<ul style="list-style-type: none"> • Resource person in Summer Internship program organized by Incubation Center (LBI, MSME Incubator), North Eastern Hill University (NEHU), Tura Campus in June 2024 • Organizer of Farmers awareness programme, 2024 • Winner of video-making event organized on the occasion of National Science Day 2020 in Science Club NIFTEM-T • Participated in 3 days of camping organized by Kasturba Gandhi Kendra, Imphal from 28 to 30 May 2007 • Participated in 3 days of camping organized by Kasturba Gandhi Kendra, Imphal from 23 to 25 May 2008
REVIEWER	<ul style="list-style-type: none"> • Sustainable Food Technology: Royal Society of Chemistry • TIJER- International Research Journal • International Journal of Novel Research and Development (IJNRD)
DECLARATION	I hereby declare that all the above facts and information are true to my knowledge. I will solely be responsible for any discrepancy found in them.
	<p>Date: 24th July, 2024 Place: Tavanur, Kerala, India</p> <p style="text-align: right;"> (IRENGBAM BARUN MANGANG)</p>