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AssistantProfessor,DepartmentofFood Science and Nutrition

Qualification:PhD,IEST Shibpur
M.Sc.(Food Processing and Nutrition Science),IEST Shibpur
B.Sc.(Clinical Nutrition and Dietetics),University of Calcutta.

DoctoralResearchTopic:"Studies on the Preparation and Evaluation of the Physico-Chemical and Nutritional Properties of SomeProtein,LipidandMicronutrientrichSpreadProducts "

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Teaching Experience:14years(FormerAssistantProfessorandProgram Coordinator,DepartmentofDietetics and Applied Nutrition,Amity University Kolkata)

Research Experience:

- **ICMR-Post Doctoral Fellow** in the project titled “Studies on therapeutic properties of protein hydrolysates and puniceic acid based bioactive drink against malnutrition and infective diarrhea” at ICMR NICED, from Apr’ 19 to Apr’ 21.
- JRF in the project titled “Development of technology to make low cost nutritionally effective ‘ready to eat’ protein rich human food from oil seeds or deoiled edible seed cakes (seed meals) by co-extrusion with cereals” sponsored by Ministry of Consumer Affairs, Food & Public Distribution (Department of Ministry of Food & Public Distribution) Directorate of Vanaspati, Vegetable Oils & Fats, New Delhi for the period of 16thApril,2012 to 31st December,2014.

Publications:

- **Kar, S.,** Hossain, A., & Dutta, S. (2025). Quantitative determination of phytochemicals and antioxidant activity of orange peel extracts (aqueous and isopropanol). Indian Journal of Natural Sciences, 16, 95678–95685.
- Dutta, S., Chatterjee, N., Gallina, N. L. F., **Kar, S.,** Koley, H., Nanda, P. K., Biswas, O., Das, A.K., Biswas, S., Bhunia, A.K. & Dhar, P. (2025). Diet, microbiome, and probiotics establish a crucial link in vaccine efficacy. Critical Reviews in Microbiology, 1–26.
- Dutta, S., **Kar, S.,** Yasmin, R. & Choubey, R. (2024) Evaluation of Bioactive Compounds and Antioxidant Activity of Various Parts (Pod, Flower and Leaves) of Drumstick (Moringa oleifera) Bull. Env. Pharmacol. Life Sci, 13, 105-110.
- Bhattacharya, T., Preetam, S., Mukherjee, S., **Kar, S.,** Singha Roy, D., Singh, H., Ghose, A., Das, T. & Mohapatra, G. (2024) Anticancer activity of quantum size carbon dots: opportunities and challenges. Discover Nano, 19.
- Dutta, S., **Kar, S.,** Ghosh, A. & Mukherjee, P. (2024) Comparison of Aqueous and Isopropanol Extracts of Phytochemicals and Antioxidant Activity of Spent Tea Leaves. International Journal of Biology, Pharmacy and Allied Sciences, 13 3416-3425.
- Chatterjee, P., **Kar, S.&** Ghosh, J. (2023) Effect of Arginine and Citrulline Supplements on Cardiovascular Health and Sports Activities: A Narrative Review on Indian Perspective. Journal of Advanced Zoology,44(S-6) 1980-1985.
- Raza, A.M., Khaitan, J. &Ghosh, J., **Kar, S.** (2023) Indian Millets (Finger millet, Kodo, Sorghum and Pearl millet): Potent functional foods and processing scopes. Journal of Advanced Zoology, 44(S-6) 2012-2025.

- Bose, S., Maity, M. & **Kar, S.** (2023) Antinutrient Phytic acid: Can be proved to be a Boon for Colorectal Cancer. *Journal of Advanced Zoology*, 44(S-6) 1972-1979.
- **Kar, S.**, Dutta, S. & Yasmin, R (2023) A comparative study on phytochemicals and antioxidant activity of different parts of pumpkin (*Cucurbita maxima*). *Food Chemistry Advances* 3 ,100505.
- Barman, P. & **Kar, S** (2023) Clitoriaterneate: A low-cost noble blue tea in India. *Journal of Survey in Fisheries Sciences*, 10(1S) 6128-6138.
- **Kar, S.**, Bhattacharyya, D.K. & Ghosh, M. (2016) Evaluation of Nutritional Characteristics of Health Beneficial DAG Rich oil based Spreads. *Science Direct Materials Today: Proceedings* 3(10A), 3375–3387.
- **Kar, S.**, Bhattacharyya, D.K. & Ghosh, M. (2016) Adoption of novel technology for developing antioxidant rich rice bran oil incorporated margarine. *Proceedings of Research Scholars Colloquium 2016*, Indian Institute of Engineering science and Technology, Shibpur.
- **Kar, S.**, Bhattacharyya, D.K. & Ghosh, M. (2015) Isopropanol Fractionation of Coconut Oil into its Olein and Stearin Fractions *International Journal of Scientific Research in Science & Technology*, 1(5), 83-88.
- Sengupta S., **Kar, S.**, Bandyopadhyay, N.R., Ghosh, M., Bhowal, J. & Bhattacharyya, D.K. (2015). Production of Protein Enriched Ready-To-Eat Extruded Food Products using Edible Quality Sesame Flour, Rice Flour and Bengal Gram Flour. *International Journal of Food Safety, Nutrition, Public Health and Technology*, 7(2), 5–12.
- **Kar, S.**, Sahu, S., Ghosh, M. & Bhattacharyya, D.K. (2014) Technology Development for Producing Bitter and Flavor Free Mustard Spreads. *Journal of International Academic Research for Multidisciplinary*, 2(6), 250-263.
- **Kar, S.**, Ghosh, M. & Bhattacharyya, D.K. (2013) Development of some bioactive food compounds based soyspreads. *Scholars Research Library, Annals of Biological Research*, 4(7), 204-211.
- **Kar, S.**, Mukherjee, A., Ghosh, M. & Bhattacharyya, D.K. (2013) Utilization of Moringa Leaves as Valuable Food Ingredient in Biscuit Preparation. *International Journal of Applied Sciences & Engineering (IJASE)* 1(1):29-37.
- Das, J., Bhattacharya, T., **Kar, S.**, Ghosh, M. & Bhattacharyya, D.K. (2013) Preparation of Some Nutritionally Superior Quality Mayonnaise Products. *International Journal of Applied Sciences & Engineering (IJASE)*, 1(1), 15-20.
- **Kar, S.**, Roy, P., Ghosh, M. & Bhattacharyya, D.K. (2012) Utilization of Seed Protein Concentrates in making Protein Rich Biscuits. *Indian Journal of Information Science and Applications (IJISA)*, 2(1).

Patent Publications:

- Title of the invention: Nutri-chef application system
Application No. 202331061108 A
Date of publication: 03.11.2023
Authors: Souvik Tewari, Paromita Mukherjee, Ranajit Kumar Khalua, Poulami Adhikary Mukherjee, **Sanjukta Kar**, Khan Farhana Mareen.
- Title of the invention: Solar powered soil testing device with biofertilizer dispenser
Design No. 439696-001

Date of publication: 06.12.2024

Authors: Souvik Tewari, SwetaParida, **Sanjukta Kar**, Anindita Ghosh, Paromita Mukherjee, Ranajit Kumar Khalua, Tanmay Ghosh.

Book Chapter Publications:

- Bhattacharjee, B., **Kar, S.**, Ghosh, J. (2025) Somatotyping analysis among sports persons. *In Examining Physiology, Nutrition, and Body Composition in Sports Science* (pp. 111–154). IGI Global.
- Chatterjee, S., **Kar, S.**, Ghosh, J. (2024). Association between the use of cannabis, opioid and postpartum depression outcomes in relation to its pharmacokinetics and impact on nutritional health. In *Recent trends and innovations in food science, food technology and nutrition* (pp. 85–104). AkiNik Publications.
- Bhattacharya, T., Mittal, P., **Kar, S.**, Das, T., Singla, M. (2024) Synthesis of bionanomaterials by polymers. In *Bionanomaterials for industrial applications* (pp. 24–49). CRC Press.