

**Dr. YUGAL KISHORE MOHANTA, M.Sc., Ph.D.**

Assistant Professor & Chief Co-ordinator, MBSI, Noth  
Eastern States of India

Department of Applied Biology, School of Biological Sciences  
University of Science and Technology Meghalaya (USTM)  
NAAC "A" Graded University ; nirf Indian ranking-2024 (151-200)

Profile page: [https://ustm.ac.in/dr-yugal-kishore-mohanta\\_trashed/](https://ustm.ac.in/dr-yugal-kishore-mohanta_trashed/)

**BACK GROUND**

I have over six years of extensive research experience in the fields of nanobiotechnology, microbiology, plant natural products, and fermented foods. As a dedicated researcher and academician, I have honed my skills and knowledge in these areas. Furthermore, I have successfully published over **102** scientific articles (Q1/Q2/Q3), **5** edited books (Elsevier, CRC press), **26** book chapters, **2** Indian patents in my field of expertise and established a research lab (NanoBioTraK\_Lab) through SERB-DST grant. Currently I received an international research network project scheme grant sponsored by XJENZA MALTA, Govt. of Malta in 2024-25. I have supervised **3** PhD students (on-going), **6** masters dissertation students and **1** SERB-DST interns. I possess a strong sense of curiosity, a creative mindset, and a genuine eagerness to acquire new knowledge. With my strong set of skills and qualities, I excel in the fields of science, education, and social work. I am particularly interested in prioritizing the concept of translational research in the field of sustainable development. Moreover for the promotion of science and research I am also acting as Chief Coordinator in Microbiologists' Society India for the North Eastern states of India.

**Google Scholar Citations: 3450, H-index 32, i10-index 71**

**Scopus citations: 2489, H-index 27**

**Web of Science citations: 2034, H-index 24**

**Publication Matrix:**

International collaboration- **89.3%**

Documents in top citation percentiles: **67.9% (top 25% cited)**

Documents in top 25% journals: **57.7%**

Documents and Field-Weighted Citation Impact: **1.54**

**ACADEMIC APPOINTMENTS**

*October 2021- Continue...*

**Assistant Professor, University of Science and Technology, Meghalaya (USTM), India**

**Techno City, 9<sup>th</sup> Mile, Baridua, Ri-Bhoi-793101, Meghalaya, India**

E-mail: [ykmohanta@gmail.com](mailto:ykmohanta@gmail.com)/[yugalkmohanta@ustm.ac.in](mailto:yugalkmohanta@ustm.ac.in)

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Wednesday, January 8, 2025

September 2019 –November 2019

**Post-doctoral Researcher, Natural and Medical Sciences Research Center, University of Nizwa, Oman**

February 2016 –May 2019

**Pre-doctoral Researcher, North Orissa University, Baripada, Odisha, India**

April 2016 –July 2016

**Visiting Research Scholar, KU Leuven, Belgium**

August 2015 –April 2016

**Guest-Faculty, MPC (Auto.) College, Odisha, India**

December 2011 –November 2013

**Research Scholar, NIT Rourkela, India**

December 2010 –July 2011

**Industrial Trainee, BCIL, Department of Biotechnology, Govt. of India**

## EDUCATION

Sl. No	Degrees	Year	Subjects	University/Institution
01	BS	2008	Biotechnology	North Orissa University
02	MS	2010	Biotechnology	North Orissa University
03	PhD	2019	Life Sciences	North Orissa University

## PROFESSIONAL AWARD & RECOGNITION

- ❖ International leadership in “**Education for Sustainable Development Award -2024**” by Edufam International Academy, Al Bustan, Dubai.
- ❖ Chief Co-ordinator, Microbiologist Society, India for North-east States of India 2024-2025.
- ❖ Peer Reviewer (2023) Recognition by Wiley Publications 2024
- ❖ Visiting Assistant Professor, Chettinad Academy of Research and Education (CARE), Tamilnadu, India
- ❖ State President (Assam& Meghalaya), Microbiologist Society, India 2023-2024
- ❖ Peer Reviewer (2022) Recognition by Wiley Publications 2023.
- ❖ Peer Reviewer (2022) Recognition by ACS Publications, American Chemical Society, 2023.
- ❖ **Out standing Researchers of the Year -2022** award by University of Science and Technology Meghalaya.
- ❖ **Visiting Research Fellowship** by KU Leuven, Belgium, April- June 2016.
- ❖ **DST-Inspire Fellowship** by Department of Science and Technology, Govt. of India, 2011.
- ❖ **BCIL- Industrial Trainee Fellowship** by Department of Biotechnology, Govt. of India, 2010.
- ❖ **First class with distinction (Gold Medalist)**, M.Sc. Biotechnology, North Orissa University, India, 2010
- ❖ **First class with distinction (Gold Medalist)**, B.Sc. Biotechnology, North Orissa University, India, 2008

## AS SUPERVISOR

### PhD students:

Mr. Minisrang Daimary (On going @ Bodoland University, Kokrajhar, Assam)

Mr. Irom Bipin Kumar Singh (On Going@ Uttaranchal University, Dehradun, Odisha)

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Mr. Jibanjyoti Panda (On going @ MSCB University, Baripada, Odisha)

**Internship@ NanobioTrak\_lab:**

Ms. Puja Roy (July-September 2024)

**Masters dissertations (06)**

**RESEARCH PROJECT GRANTS**

- Title:** Developing therapeutic functional food by formulating synbiotic microcapsules using edible mushrooms as prebiotic resources  
**Grant No:** Research Network Project-2024-008  
**Duration:** 2024-2025 (On going)  
**Funding Agency:** XJENZA MALTA, Government of Malta
- Title:** Search for nutraceutical lead molecules from wild edible mushroom (WEMs) extracts and utilization as prebiotic sources to develop synbiotic microcapsules (SDG III)  
**Grant No:** SRG/2022/000641  
**Duration:** 2022-2024 (Completed)  
**Funding Agency:** SERB (currently known a ANRF), Department of Science and Technology, Government of India

**CURRENT RESEARCH ACTIVITY**

Exploring natural bioresources for designing and synthesizing bio-functional nanomaterials for application in food, agriculture, medicine, and environments (**Nano-FAME**)

**Research themes**

- Development of Nano-nutraceuticals through biomass valorization
- Nutritional and Microbial diversity evaluation of fermented foods from North East India
- Nanotechnological application in food preservation and packaging

**FIELDS OF INTEREST**

Nano-biotechnology, Natural Products, Fermented Foods, Microbiology, Nutraceuticals, SDGs

**PATENTS FILE/PUBLISHED/GRANTED**

- ❖ RHAMNOLIPID BIOSURFACTANT COATED IRON NANOPARTICLE: A CREDIBLE APPROACH TOWARDS POTENTIAL PETROLEUM HYDROCARBON REMEDIATION (**Application No.202331052858 A; published on 13/10/2023**)
- ❖ SYNTHESIS OF RHAMNOLIPID BIOSURFACTANT COATED ZINC-OXIDE NANOPARTICLE AND ITS ANTICANCER POTENTIAL AGAINST HUMAN BREAST CANCER CELL LINES (**Application No.202331052859 A; published on 13/10/2023**)

**PAST TEACHING EXPERIENCES**

- ❖ Lecturer in P.G. Department of Biochemistry, M.P.C. Autonomous College, Baripada, Odisha India (From 1<sup>st</sup> August 2015 -April 2016)

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- ❖ Teaching Assigned to Biochemistry (Elective) papers in P.G. Department of Botany, North Orissa University, Baripada, India (From 2016-2018)

### CURRENT COURSE TEACHINGS

- Plant Biotechnology
- Animal Biotechnology
- Genetic Engineering
- Bioprocess Technology

### INDUSTRIAL EXPOSURE

Industrial Trainee in Biotech Industrial Training Programme 2010-11 sponsored by **Biotech Consortium India Limited, Department of Biotechnology, Government of India** at Tectona Biotech Resource Centre (TBRC), Bhubaneswar.

### EDITORIAL EXPERIENCES

**Editorial cum Advisory Board Member:** [Current Research in Nutrition and Food Science \(Scopus;ESCI\)](#)

**Guest Associate/Review Editor:**

Frontiers in Nanotechnology, Discover Agriculture, Discover Sustainability, Frontiers in Pharmacology, Frontiers in Oncology, Frontiers in Cellular and Infection Microbiology [Link](#)

**Book Editor:** [CRC Press, Elsevier, Springer Nature](#)

### REVIEWERS FOR JOURNALS

PLoS ONE, International Journal of Biological Macromolecules, Food and Bioprocess Technology, Environmental Research, Food and Function, Scientific Reports, International Journal of Nanomedicine, Applied Organometallic Chemistry, IET Nanobiotechnology, MDPI Crystals, MDPI Antibiotics, MDPI Nutraceuticals, MDPI Materials, MDPI Agronomy, MDPI Processes, MDPI Molecules, MDPI Pharmaceuticals, Nano Plant Biology, Chemical Papers, Journal of Cluster Sciences, Frontiers in Oncology, Green Processing and Synthesis, Journal of Molecular Structures and Dynamics, Journal of Applied Microbiology, Journal of Nanoparticle Research, Journal of Pure and Applied Microbiology, Micro Nanoletter, Applied Biochemistry and Biotechnology, Process Biochemistry, Waste Management, Waste and Biomass Valorization, Advances in Natural Sciences: Nanoscience and Nanotechnology, Journal of Experimental Nanoscience, Inorganic and Nanometal Chemistry, Journal of Total Bioactive Products, International Journal of Environmental Analytical Chemistry, Applied Food Research, Expert Opinion On Pharmacotherapy, Artificial Cells, Nanomedicine and Biotechnology, Particulate Science and Technology, Frontiers in Pharmacology, Journal of Food Sciences, ACS Omega, ACS Nano, Journal of Food Processing and Preservation, Microbial Cell Factories, eFoods, Analytical Letters.

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**LIST OF PUBLICATIONS (Cumulative Impact Factors: 482.20)****Research/Review Articles:****Publications Year 2024**

1. P. Das, P. C. Nath, A. B. Altemimi, M. Katyal, R. K. Kesavan, S. Rustagi, J. Panda, S. K. Avula, P. K. Nayak and Y. K. Mohanta (2024) Recent advances on artificial intelligence-based approaches for food adulteration and fraud detection in the food industry: Challenges and opportunities. **Food Chemistry**, 468:142439; ISSN: 0308-8146, <https://doi.org/10.1016/j.foodchem.2024.142439> . [Q1: IF-8.5]
2. T. Bhuyan, K. Choudhury, P. Das, S. Sharma, J. Mazumder, Y. K. Mohanta (2024) Biosynthesis of pH-Responsive Mesoporous Silica Nanoparticles from Cucumber Peel for targeting 3D Lung Tumor Spheroids. **ACS Applied Bio Materials**, 7(11):7494-7508; ISSN 2576-6422 <https://doi.org/10.1021/acsabm.4c01092> [Q1: IF-4.6]
3. B. Mishra, J. Panda, A. K. Mishra, P. C. Nath, P. K. Nayak, U. Mahapatra, M. Sharma, H. Chopra, Y. K. Mohanta, K. Sridhar (2024) Recent advances in sustainable biopolymer-based nanocomposites for smart food packaging: A review. **International Journal of Biological Macromolecules** 279:135583; ISSN 0141-8130 <https://doi.org/10.1016/j.ijbiomac.2024.135583> [Q1: IF-7.7]
4. Y. K. Mohanta, K. Biswas, A. K. Mishra, B. Patra, B. Mishra, J. Panda, S. K. Avula, R. S. Varma, B. P. Panda, D. Nayak (2024) Amelioration of gold nanoparticles mediated through Ocimum oil extracts induces reactive oxygen species and mitochondrial instability against MCF-7 breast carcinoma. **RSC Advances** 14: 27816; ISSN 2046-2069; [10.1039/d4ra04807e](https://doi.org/10.1039/d4ra04807e) [Q3: IF-3.9]
5. P. Muthusamy, S. Murugan, S. K. Mandal, B. Mishra, Y. K. Mohanta, H. Sarma, M. Narayan (2024) Utilizing banana peduncle as an affordable bio-adsorbent for efficient removal of lead ions from water and industrial effluents. **Sustainable Chemistry for the Environment** 7:100150; ISSN 2949-8392; <https://doi.org/10.1016/j.scenv.2024.100150> [Q3: CS-1.8]
6. N. A. Kungwani, J. Panda, A. K. Mishra, N. Chavda, S. Shukla, K. Vikhe, G. Sharma, Y. K. Mohanta, M. Sharifi-Rad (2024) Combating bacterial biofilms and related drug resistance: Role of phyto-derived adjuvant and nanomaterials. **Microbial Pathogenesis** 195:106874; ISSN 0882-4010; <https://doi.org/10.1016/j.micpath.2024.106874> [Q3: IF-3.3]
7. D. Nayak, A. K. Mishra, S. Malla, U. Swain, K. Panigrahi, J. Panda, S. Rustagi, P. R. Rauta, Y. K. Mohanta (2024) Eco-Friendly Mycogenic Synthesis of Iron Oxide Nanoparticles Using *Volvariella volvacea* and Unveiling its Potential as Antibiofilm and Anticancer Agents. **ECS Journal of Solid State Science and Technology** 13:087003; ISSN 2162-8777 [10.1149/2162-8777/ad658b](https://doi.org/10.1149/2162-8777/ad658b) [Q3: IF- 1.8]
8. A. Chakraborty, J. Panda, A. K. Mishra, S. Sivakumar, L. V. Srinivasan, A. Nongbet, S. S. Mohanty, S. Rustagi, P. C. Nath, M. S. Wagh, Y. K. Mohanta (2024) Jackfruit waste for the production of sustainable biorefinery products: a step towards bio-economic advancement. **Biomass Conversion and Biorefinery** ; ISSN 21906815/21906823; <https://doi.org/10.1007/s13399-024-05954-y> [Q2: IF- 3.5]
9. D. Thapa, V. Kumar, B. Naik, V. Kumar, A. K. Gupta, Y. K. Mohanta, B. Mishra, S. Rustagi (2024) Harnessing probiotic foods: managing cancer through gut health. **Food Science and Biotechnology** ; ISSN 1226-7708 <https://doi.org/10.1007/s10068-024-01638-5> [Q3: IF- 2.9]
10. P. C. Nath, R. Sharma, U. Mahapatra, Y. K. Mohanta, S. Rustagi, M. Sharma, S. Mahajan, P. K. Nayak, K. Sridhar (2024) Sustainable production of cellulosic biopolymers for enhanced smart food packaging: An up-to-date review. **International Journal of Biological Macromolecules** 273:1330090; ISSN 0141-8130 <https://doi.org/10.1016/j.ijbiomac.2024.133090> [Q1: IF- 8.20]
11. S. Rahaman, N.C. Talukdar, A. Patowary, Y.K. Mohanta (2024) Propolis from the North-East region of India exhibits potent antioxidant and anticancer activity against breast cancer cells. **Biocatalysis and Agricultural Biotechnology** 59: 103269; ISSN:1878-8181 <https://doi.org/10.1016/j.bcab.2024.103269> . [Q3: IF- 4.0]

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12. T. Bhuyan, Y.K. Mohanta, K. Patowary, S. Maity, D. Nayak, K. Deka, K. M.Sundaram, S. Muthupandian, H. Sarma (2024) Therapeutic potential of lipopeptide biosurfactant-fabricated copper oxide nanoparticles: Mechanistic insight into their biocompatibility using zebra fish. **Current Research in Biotechnology** ISSN 2590-2628 <https://doi.org/10.1016/j.crbiot.2024.100227> [Q1: IF- 5.6]
13. J. Panda, A. K. Mishra, P. C. Nath, S. Mahanta, M. Sharma, P. K. Nayak , Y.K.Mohanta\*, K. Sridhar (2024) Wild edible mushrooms to achieve sustainable development goals: Novel sources for food security, health, and well-being. **Food Bioscience** 60: 104277 ISSN 2212-4292 <https://doi.org/10.1016/j.fbio.2024.104277> [Q1: IF- 5.2]
14. B. Doolam, B. Mishra, D. Surabhi, S. K. Mandal, S. Sada, N. R. Reddy, J. Panda, S. Rustagi, A. K. Mishra, Y. K. Mohanta\* (2024) A systematic review of potential bioactive compounds from *Saccharomyces cerevisiae*: exploring their applications in health promotion and food development. **Environment, Development and Sustainability** ISSN 1387-585X <https://doi.org/10.1007/s10668-024-04969-9> [Q2: IF- 4.9]
15. M. Pyla, S. Kankipati, B. Sumithra, P.K. Mishra, B. Mishra, S.K. Mandal, J. Panda, H. Chopra, S. K. Avula, M.Salah, Y.K.Mohanta, M.A.Kamal (2024) Bacterial Proteins and Peptides as Potential Anticancer Agents: A Novel Search for Protein-based Therapeutics. **Current Medicinal Chemistry** ISSN 0929-8673 <https://doi.org/10.2174/0109298673253414231127162817> [Q3: IF- 4.1]
16. T. K. Mohanta, Y.K.Mohanta, P. Kaushik, J. Kumar (2024) Physiology, genomics, and evolutionary aspects of desert plants. **Journal of Advanced Research** 58: 63-78; ISSN2090-1232 <https://doi.org/10.1016/j.jare.2023.04.019> [Q1: IF- 12.877] [Link](#)
17. J. Panda, A. K. Mishra, Y. K. Mohanta, K. Patowary, P. R. Rauta, B. Mishra (2024) Exploring Biopolymer for Food and Pharmaceuticals Application in the Circular Bioeconomy: An Agro-Food Waste-to-Wealth Approach. **Waste and Biomass Valorization**; ISSN 1877-265X <https://doi.org/10.1007/s12649-024-02452-0> [Q3: IF- 3.4]
18. P. C. Nath, A. K. Mishra, R. Sharma, B. Bhunia, B. Mishra, A. Tiwari, P. K. Nayak, M. Sharma, T. Bhuyan, S. Kaushal, Y. K. Mohanta, K. Sridhar (2024) Recent advances in artificial intelligence towards the sustainable future of agri-food industry. **Food Chemistry** 447: 138945; ISSN 0308-8146 <https://doi.org/10.1016/j.foodchem.2024.138945> [Q1: IF- 8.8]
19. B. Mishra, A. K. Mishra, Y. K. Mohanta, Rajasri Yadavalli, D. C. Agrawal, H. P. Reddy, R. Gorrepati, C.N. Reddy, S. K. Mandal, M. Zaki Shamim, J. Panda (2024) Postbiotics: the new horizons of microbial functional bioactive compounds in food preservation and security. **Food Production, Processing and Nutrition** 6:28 ISSN 2661-8974 <https://doi.org/10.1186/s43014-023-00200-w> [Q2: IF- 4.7]
20. T. Bhuyan, S. Gogoi, T. Ghoshal, P. R. Parmar, K. Mishra, Y. K. Mohanta, P. S. Nayak, M. Sharifi-Rad (2024) Mitigation of Cr (VI) phytotoxicity in mung bean seedlings through the supplementation of phyto-fabricated zinc oxide nanoparticles using *Paederia foetida*. **Biocatalysis and Agriculture Biotechnology** 56:103055 ISSN:1878-8181 <https://doi.org/10.1016/j.bcab.2024.103055> [Q3: IF- 4.0]
21. Mrunal S. Wagh, Sowjanya S., P.C. Nath, A. Chakraborty, R. Amrit, B. Mishra, A. K. Mishra, Y. K. Mohanta(2024) Valorisation of agro-industrial wastes: circular bioeconomy and biorefinery process –a sustainable symphony. **Process Safety and Environmental Protection** 183: 708–725, ISSN 0957-5820 <https://doi.org/10.1016/j.psep.2024.01.055>. [Q1: IF- 7.8]
22. R. Sharma, P. C. Nath, Y. K. Mohanta, B. Bhunia, B. Mishra, M. Sharma, S.Suri, M. Bhaswant, P. K. Nayak, K. Sridhar (2024) Recent advances in cellulose-based sustainable materials for wastewater treatment: An overview. **International Journal of Biological Macromolecules** 256(2):128517, ISSN 0141-8130 <https://doi.org/10.1016/j.ijbiomac.2023.128517>. [Q1: IF- 8.20]
23. Q. Y. Tamboli, S. M. Patange, Y. K. Mohanta, A. D. Patil, S. R. Kamble, R. Alig, I. Bushnak, K. R. Zakdea (2024) *Moringa oleifera* Gum-Assisted Synthesis and Characterization of CoAg<sub>2</sub>Fe<sub>2</sub>-xO<sub>4</sub>: Insight into Structural, Magnetic, Optical, and Biomedical Properties. **ACS Omega** 9(3): 3835–3845,ISSN 2470-1343, <https://doi.org/10.1021/acsomega.3c06578>. [Q2: IF- 4.10]
24. M. Sharifi-Rad, Y.K.Mohanta, P. Pohl, D.Nayak, M. Messaoudi (2024) Facile phytosynthesis of gold nanoparticles using *Nepeta bodeana* Bunge: Evaluation of its therapeutics and potential catalytic activities. **Journal of Photochemistry & Photobiology, A: Chemistry** 446:115156. ISSN 18732666/10106030 <https://doi.org/10.1016/j.jphotochem.2023.115150>. [Q2: IF- 4.30]

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**Publications Year 2023**

25. B.Sarma, H. Kashtoh, T. L. Tamang, P.N. Bhattacharyya, Y. K. Mohanta\*, and K. H. Baek (2023) Abiotic Stress in Rice: Visiting the Physiological Response and Its Tolerance Mechanisms. **Plants** 12(23):3948, ISSN:2223-7747 <https://doi.org/10.3390/plants12233948>. [Q1: IF 4.5]
26. Y.K. Mohanta, A. K. Mishra, J. Panda, I. Chakrabartty, B. Sarma, S. K. Panda, H. Chopra, G. Zengin, M. G. Moloney, M. Sharifi-Rad (2023) Promising applications of phyto-fabricated silver nanoparticles: Recent trends in biomedicine. **Biochemical and Biophysical Research Communications** 668:149126. ISSN 1090-2104 <https://doi.org/10.1016/j.bbrc.2023.149126>. [Q3: IF- 3.10]
27. N.S.V. Lakshmayyaa, A. K. Mishra, Y. K. Mohanta\*, J. Panda, B. Naik, B. Mishra, R. S. Varma (2023) Essential oils-based nano-emulsion system for food safety and preservation: Current status and future prospects. **Biocatalysis and Agriculture Biotechnology** 53:102897 ISSN:1878-8181 <https://doi.org/10.1016/j.bcab.2023.102897> [Q3: IF- 4.0]
28. H. Chopra, Y.K.Mohanta, S. Mahanta, T. K. Mohanta, I. Singh, S. K. Avula, S. P. Mallick, A. A. Rabaan, H. AlSaihati, A. Alsayyah, M. Alissa, H. R. Alturaifi, B. AlAlwan, M. S. Attia, S. Chakraborty, K. Dhama (2023) Recent updates in nanotechnological advances for wound healing: A narrative review. **Nanotechnology Reviews** 12: 20230129, ISSN:2191-9089/2191-9097 <https://doi.org/10.1515/ntrev-2023-0129>. [Q1: IF- 7.4]
29. B. P. Panda, Y. K. Mohanta, R. Paul, B. A. K. Prusty, S. P. Parida, A. Pradhan, M. Saravanan, K. Patowary, G. Jiang, S. J. Joshi, H. Sarma (2023) Assessment of environmental and carcinogenic health hazards from heavy metal contamination in sediments of wetlands. **Scientific Reports** 13:16314, ISSN:2045-2322 <https://doi.org/10.1038/s41598-023-43349-7>. [Q2: IF- 4.60]
30. M.K. Ray, A. K. Mishra, Y. K. Mohanta, S. Mahanta, I. Chakrabartty, N. A. Kungwani, S. K. Avula, J. Panda, R. N. Pudake (2023) Nanotechnology as a Promising Tool against Phytopathogens: A Futuristic Approach to Agriculture. **Agriculture** 13: 1856 ISSN 2077-0472 <https://doi.org/10.3390/agriculture13091856>. [Q1: IF- 3.60]
31. B. Mishra, Y.K. Mohanta, C.N. Reddy, S.D.M. Reddy, S. K. Mandal, R. Yadavalli, H. Sarma (2023) Valorization of agro-industrial biowaste to biomaterials: An innovative circular bioeconomy approach. **Circular Economy** ISSN: 2347-4459 <https://doi.org/10.1016/j.cec.2023.100050>.
32. A. Balasubramanian, R. Ganesan, Y. K. Mohanta, J. Arokiaraj, M. Saravanan (2023) Characterization of bioactive fatty acid metabolites produced by the halophilic *Idiomarina sp.* OM679414.1 for their antimicrobial and anticancer activity. **Biomass Conversion and Biorefinery**; ISSN 21906815/21906823 <https://doi.org/10.1007/s13399-023-04687-8>. [Q2: IF- 4.00]
33. Y.K. Mohanta, A.K. Mishra, A. Nongbet, I. Chakrabartty, S. Mahanta B. Sarma, J. Panda, S.K. Panda (2023) Potential Use of the Asteraceae Family as a Cure for Diabetes: A Review of Ethnopharmacology to Modern day Drug and Nutraceuticals Developments. **Frontiers in Pharmacology** 14 (2023). ISSN 1663-9812 [10.3389/fphar.2023.1153600](https://doi.org/10.3389/fphar.2023.1153600). [Q1: IF- 5.988]
34. K. Murugan, R. Rajaganesh, J.-S. Hwang, L. Wang, M. Vasanthakumaran, H.-U. Dahms, C. Panneerselvam, Y. K. Mohanta, S. Muthupandian, R. B. Janarthanam, F. Chen, N. A. H. Alkenani (2023) Smoke toxicity effect of bio-fabricated mosquito coil for the sustainable management of mosquito vectors. **Journal of Natural Pesticide Research** 6:100048. ISSN 2773-0786 <https://doi.org/10.1016/j.napere.2023.100048>
35. R. R. Baruah, Y.K. Mohanta\*, M. Saha, S. S. Ghosh, M. C. Kalita and D. Devi (2023) Reinforced non-mulberry silk fibroin-fibroin nanocomposites and their optimization for tissue engineering applications. **Journal of Material Sciences** 58(24):10131-10147. ISSN 2321-6212 <https://doi.org/10.1007/s10853-023-08625-x> [Q2: IF- 4.682]
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88. S.K. Panda, [Y.K.Mohanta](#), L.P. Padhy, W. Luyten (2019) Antimicrobial activity of select edible plants from Odisha, India against food-borne pathogens. **LWT-Food Science and Technology** 113:108246. doi: [10.1016/j.lwt.2019.06.013](https://doi.org/10.1016/j.lwt.2019.06.013) ISSN: 0023-6438 [Q1: IF-6.056]

### Publications Year 2018

89. [Y.K.Mohanta](#), D. Nayak, K. Biswas, S.K. Singdevsachan, E.F. AbdAllah, A. Hashem, A.A. Alqarawi, D. Yadav, T.K. Mohanta (2018) Silver Nanoparticles Synthesized Using Wild Mushroom Show Potential Antimicrobial Activities against Food Borne Pathogens. **Molecules** 23:655 doi:[10.3390/molecules23030655](https://doi.org/10.3390/molecules23030655) ISSN:1420-3049 [Q1: IF-4.927]

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90. [Y.K.Mohanta](#), K. Biswas, S.K. Panda, A. Syed, F. Ameen, A.K. Bastia, T.K. Mohanta (2017) Bio-inspired synthesis of silver nano-particles from leaf extracts of *Cleistanthus collinus* (Roxb.): Its potential antibacterial and anticancer activity. **IET Nanobiotechnology** 12 (3):343-348; doi:[10.1049/iet-nbt.2017.0203](https://doi.org/10.1049/iet-nbt.2017.0203) ISSN:1478-1581 [Q2: IF-2.05]
91. [Y.K.Mohanta](#), K. Biswas, S.K. Panda, J. Bandyopadhyay, D. De, R. Jayabalan, A.K. Bastia, T.K. Mohanta (2017) Phyto-assisted synthesis of bio-functionalised silver nanoparticles and their potential antioxidant, anti-microbial and wound healing activities. **IET Nanobiotechnology** 11(8): 1027-1034. doi:[10.1049/iet-nbt.2017.0017](https://doi.org/10.1049/iet-nbt.2017.0017) ISSN:1478-1581 [Q2: IF-2.05]
92. [Y.K. Mohanta](#), S.K. Panda, A.K. Bastia, T.K. Mohanta (2017) Biosynthesis of silver nanoparticles from *Protium serratum* and investigation of their potential impacts on food safety and control. **Frontiers in Microbiology** 8: 2017 doi: [10.3389/fmicb.2017.00626](https://doi.org/10.3389/fmicb.2017.00626) ISSN:1663-4365 [Q1: IF-6.064]
93. [Y.K.Mohanta](#), S.K. Panda, R. Jayabalan, N. Sharma, A.K. Bastia, T.K. Mohanta (2017) Antimicrobial, antioxidant and cytotoxic activity of silver nanoparticles synthesized by leaf extract of *Erythrina suberosa* (Roxb.). **Frontiers in Molecular Biosciences** 4:14. doi:[10.3389/fmolb.2017.00014](https://doi.org/10.3389/fmolb.2017.00014) ISSN:2296-889X [Q1: IF-6.113]

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94. S.K. Panda, [Y.K.Mohanta](#), L. Padhi, J. Kim, T. Mohanta, H. Bae (2016) Large Scale Screening of Ethnomedicinal Plants for Identification of Potential Antibacterial Compounds. **Molecules** 21(3): 293; doi:[10.3390/molecules21030293](https://doi.org/10.3390/molecules21030293) ISSN:1420-3049 [Q1: IF-4.927]
95. [Y.K.Mohanta](#), S.K. Panda, K. Biswas, A. Tamang, J. Bandyopadhyay, D. De, D. Mohanta, A.K. Bastia (2016) Biogenic synthesis of silver nano-particles from *Cassia fistula* (Linn.): In vitro assessment of their antioxidant, antimicrobial and cytotoxic activities. **IET Nanobiotechnology** 10(6):438-444. doi:[10.1049/iet-nbt.2015.0104](https://doi.org/10.1049/iet-nbt.2015.0104) ISSN:1478-1581 [Q2: IF-2.05]

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96. [Y.K.Mohanta](#), S.K. Singdevsachan, U.K. Parida, S.K. Panda, T.K. Mohanta, H. Bae (2015) Green synthesis and antimicrobial activity of silver nanoparticles using wild medicinal mushroom *Ganoderma*

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97. T.K. Mohanta, N. Mohanta, Y.K.Mohanta and H. Bae (2015) Genome-wide Identification of Calcium Dependent Protein Kinase Gene Family in Plant Lineage Shows Presence of Novel D-x-D and D-E-L Motifs in EF-Hand Domain. **Frontiers in Plant Science** 6:1146. doi: [10.3389/fpls.2015.01146](https://doi.org/10.3389/fpls.2015.01146). ISSN:1664-462X[Q1: IF-6.627]
98. T.K. Mohanta, N. Mohanta, Y.K. Mohanta, P. Parida and H. Bae(2015) Genome-wide identification of CalcineurinB-Like (CBL) gene family of plants reveals novel conserved motifs and evolutionary aspects in calcium signalling events. **BMC Plant Biology** 15:189. doi:[10.1186/s12870-015-0543-0](https://doi.org/10.1186/s12870-015-0543-0)ISSN: 1471-2229[Q1: IF-5.26]
99. J.K. Patra, S. Gouda, Y.K.Mohanta, G. Das (2015) Mangrove Plants: A potential source of anticancer drugs. **Indian Journal of Geo-Marine Science** 44(5):666-672. ISSN:0379-5136(SCI: IF-0.496)

### Publications Year 2014

100. Y.K.Mohanta and S.K. Behera (2014) Biosynthesis, characterization and antimicrobial activity of silver nanoparticles by *Streptomyces* sp.SS2. **Bioprocess and Biosystems Engineering** 37 (11):2263-2269. doi: [10.1007/s00449-014-1205-6](https://doi.org/10.1007/s00449-014-1205-6). ISSN:1615-7591[Q3: IF-3.434]
101. Y.K.Mohanta, L. Padhi, S.K. Panda (2014) Antifungal activity of *Eleutherine bulbosabulb* against mycelia fungus. **International Journal of Agricultural Technology** 10(5):1165-1171. ISSN: [2630-0192](https://doi.org/10.1007/s11655-014-1747-0)(IF-0.115)
102. J.K. Patra and Y.K.Mohanta (2014) Antimicrobial compounds from mangrove plants: A pharmaceutical prospective. **Chinese Journal of Integrative Medicine** 20(4):311-320. doi: [10.1007/s11655-014-1747-0](https://doi.org/10.1007/s11655-014-1747-0)ISSN: 1672-0415[ Q2: IF-2.626]

### Edited Books/ Authored Books:

1. Edited a book entitled "**Nanotechnology in Biology and Medicine: Research Advancements & Future Perspectives**". Editors: (P.R. Rauta, Y.K.Mohanta, D. Nayak); Published October 28, 2019 CRC Press, Taylor and Francis Group (2019): [ISBN 9780367200503](https://doi.org/10.1080/9780367200503)Link
2. Edited a book entitled "**Graphene Nanomaterials in Food, Health & Agriculture sectors**". Editors: (Y.K. Mohanta, K. Biswas, S. Mahanta, M. Saravanan) CRC Press, Taylor and Francis Group (2024) [ISBN 9781032292366](https://doi.org/10.1080/9781032292366)Link
3. Edited a book entitled "**Carbon-based nanomaterials in biosystems: biophysical interface at lower dimensions**" (K. Biswas, Y.K.Mohanta, T. K. Mohanta, M. Saravanan) Elsevier Inc., with offices at 50 Hampshire St., 5th Floor, Cambridge, MA 02139, USA (2024) [ISBN: 9780443155086](https://doi.org/10.1016/j.cbi.2024.105086)Link
4. Edited a book entitled "**Sustainable Green Nanotechnology: Food and Agriculture Paradigm**" (Y.K. Mohanta, I. Chakrabartty, M. Saravanan) CRC Press, Taylor and Francis Group [ISBN: 9781003389408](https://doi.org/10.1016/j.cbi.2024.105086)
5. Edited a book entitled "**Nano-microbiology for Sustainable Development**" (Y.K.Mohanta, B. Mishra, R.N. Pudake) Springer-Nature (*In Press*)
6. Edited a book entitled "**Nanomedicine and nutrigenomics: pioneering the future of health**" (Y.K.Mohanta, H. Sharma, M. Narayan) Elsevier Inc., with offices at 50 Hampshire St., 5th Floor, Cambridge, MA 02139, USA (under preparation)
7. Edited a book entitled "**Microbial Nanotechnology for Sustainable Future: Industrial and Environmental Perspectives**" (Y.K. Mohanta, B. Mishra, T. Bhuyan) CRC Press, Taylor and Francis Group (*Type setter*)
8. Edited a book entitled "**Fruit and Vegetable Processing Wastes and By-products: Utilization and Future Prospects**" (Y.K. Mohanta, P.K. Nayak, P.C. Nath) Springer-Nature (under preparation)
9. Edited a book entitled "**Mushrooms in sustainable development: An industry and Environment paradigm**" (Y.K. Mohanta, J. Panda, P.C. Nath, H. N. Thatoi) CRC Press, Taylor and Francis Group (under preparation)

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10. Edited a book entitled “**Multifunctional Quantum Dots-Biological, Environment, and Energy Applications**” (T. Bhuyan, Y.K. Mohanta, M. Khanuja, R.N. Pudake) Springer-Nature (under preparation)

**Book chapters:**

1. T. K. Mohanta, Y.K. Mohanta, N. Mohanta (2015) Role of Biotechnology in Bioremediation, in: S. Singh, K. Srivastava (Eds.), **Handbook of Research on Uncovering New Methods for Ecosystem Management through Bioremediation**, IGI Global, pp. ISBN-13: 978-1466686823
2. Y.K. Mohanta, S.K. Panda, A.K. Bastia (2015) Fermented Foods in India: Diversity and Biotechnological Prospects, in: J.K. Patra, R. Jayabalan & S.K. Rath (Eds.) **Natural products in food: prospects and applications**, Studium Press, USA June 30, 2017 pp. 360-382 ISBN: 1-62699-074-3
3. Y.K. Mohanta, T.K. Mohanta (2016) Bioactive compounds from marine actinobacteria: a treasure house of potential drugs, in: S.K. panda & H.K. Sahu (Eds.), **Ethno-Pharmacology, Biodiversity and Conservation**, Kunal Publisher, India, pp. 102. ISBN: 978-81-932499-5-6
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5. Y.K. Mohanta, S.K. Panda (2017) Bioactive compounds from marine microorganisms: approaches, challenges and prospects, in: S.K. panda (Eds.), **Recent Advances in Natural Products**, Studium Press, USA, June 30, 2017 pp. 365-400. ISBN: 1-62699-060-3
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7. S.K. Singdevsachan, P. Auroshree, Y.K. Mohanta (2017) Bioactive compounds of mushroom and their therapeutic potentials: a review, in: S.K. panda (Eds.), **Recent Advances in Natural Products**, Studium Press, USA, June 30, 2017 pp. 433-452. ISBN: 1-62699-060-3
8. T.K. Mohanta, Y.K. Mohanta, Y.A. Tamboli, N. Mohanta (2017) Medicinal and Antimicrobial Activity of Living Fossil Plant *Ginkgobiloba*, in: S.K. panda (Eds.), **Recent Advances in Natural Products**, Studium Press, USA, June 30, 2017 pp. 35. ISBN: 1-62699-060-3
9. Y.K. Mohanta, L. Padhi and S.K. Panda (2018). *Embllica officinalis* Gaertn. A review of application with special reference to Hyperlipidemia, in: Bhardwaj, A and Govil, J.N. (Eds.), “**Recent Progress in Medicinal Plants Vol. 47—Metabolic Disorders: Hyperlipidemia**”. Studium Press LLC (USA), pp. 1-19. January 2018. ISBN: 978-16-26990-84-5
10. Y.K. Mohanta, T. K. Mohanta and D. Nayak (2019) Recent Developments on Nanotechnology in Agriculture: Challenges and Prospects, in: P.R Rauta, Y.K. Mohanta and D. Nayak (Eds.) “**Nanotechnology in Biology and Medicine: Research Advancements & Future Perspectives**”. CRC Press, Taylor and Francis Group, pp. 79-86. October 28, 2019 ISBN: 9780367200503
11. S. Mohanta, S.K. Singdevsachan, Y.K. Mohanta, S.K. Panda and T.K. Mohanta (2019) An Overview of Mycogenic Nanoparticles: Synthesis and Their Bio-Pro prospective Applications, in: P.R Rauta, Y.K. Mohanta and D. Nayak (Eds.) “**Nanotechnology in Biology and Medicine: Research Advancements & Future Perspectives**”. CRC Press, Taylor and Francis Group, pp. 87- 97. October 28, 2019 ISBN: 9780367200503
12. K. Biswas, A. Sett, D. De, J. Bandyopadhyay, and Y.K. Mohanta (2022) Smart Nanomaterials for Bioimaging Applications: An Overview, in: M. Arakha, A.K. Pradhan and S. Jha (Eds.) “**Bio-Nano Interface: Applications in Food, Healthcare, and Sustainability**”. Springer Nature, Springer Nature Singapore Pte Ltd., pp. 287, ISBN 978-981-16-2515-2 ISBN 978-981-16-2516-9 (eBook) [https://doi.org/10.1007/978-981-16-2516-9\\_16](https://doi.org/10.1007/978-981-16-2516-9_16)
13. Lakshmayya N.S.V., S. Lekhya Y., Y.K. Mohanta, S. K. Mandal, D.C. Agrawal and B. Mishra (2023) Food Preservatives From Microbial Origin: Industrial Perspectives, in: Sanjay Kumar, Narendra Kumar and Shahid-ul-Islam (eds.) “**Role of Microbes in Industrial Products and Processes**”, pp. 81-106 ISBN 978-1-119-90101-3 © 2023 Scrivener Publishing LLC

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14. D. Nayak, Y.K.Mohanta, P. R. Rauta, I. Chakrabartty and M. Saravanan (2023) Ethosomes for Dermal and Transdermal Drug Delivery Systems, in:H. Barabadi et al. (eds.), "**Pharmaceutical Nanobiotechnology for Targeted Therapy**", Nanotechnology in the Life Sciences, Springer Nature Switzerland AG 2022 pp. 321-344 ISBN 978-3-031-12657-4 ISBN 978-3-031-12658-1 (eBook) [https://doi.org/10.1007/978-3-031-12658-1\\_11](https://doi.org/10.1007/978-3-031-12658-1_11)
15. D. Nayak, H. Chopra, I. Chakrabartty, M. Saravanan, H. Barabadi and Y. K. Mohanta(2023) Opportunities and challenges for bioengineered metallic nanoparticles as future nanomedicine, in: H. Barabadi et al. (eds.), "**Bioengineered Nanomaterials for Wound Healing and Infection Control**", Woodhead Publishing Series in Biomaterials, Elsevier pp. 517-540; ISBN: 978-0-323-95376-4 (print), ISBN: 978-0-323-95835-6 (online) <https://doi.org/10.1016/B978-0-323-95376-4.00012-5>
16. R. Ahmed, M. K. Ray, D. Nayak, and Y.K. Mohanta(2023) Microbial Enzymes in Biomedical Applications, in: R. Sirohi et al. (eds.), "**Microbial Enzymes and Metabolites for Health and Well-Being**", CRC Press pp.; ISBN 9781032436197
17. B. Patra, N. Das, M. Z. Shamim, T. K. Mohanta, B. Mishra, and Y. K. Mohanta (2023) Dietary Natural Polyphenols Against Bacterial and Fungal Infections: An Emerging Gravity in Health Care and Food Industry, in:K. Arunachalam et al. (eds.), "**Bioprospecting of Tropical Medicinal Plants**", Springer Nature pp. 807- 820; ISBN 978-3-031-28779-4 (print) ISBN 978-3-031-28780-0 (eBook) [https://doi.org/10.1007/978-3-031-28780-0\\_33](https://doi.org/10.1007/978-3-031-28780-0_33).
18. H. Chopra, S. Bibi, Y. K. Mohanta, S. Kumari, and A. A. Baig (2023) Role of Polyphenols in Cardiovascular Diseases, in:K. Arunachalam et al. (eds.), "**Bioprospecting of Tropical Medicinal Plants**", Springer Nature pp. 807-820; ISBN 978-3-031-28779-4 (print) ISBN 978-3-031-28780-0 (eBook) [https://doi.org/10.1007/978-3-031-28780-0\\_33](https://doi.org/10.1007/978-3-031-28780-0_33).
19. A. Nongbet, J. Panda, Y. K. Mohanta, I. Chakrabartty, M. Z. Shamim and T. K. Mohanta (2024) Role of nanoparticles to protect plants from abiotic stress by scavenging reactive oxygen species, in: R. N. Pudake, R. M. Tripathi, S. S. Gill (eds.), "**Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants**", Elsevier pp. 95-114; ISBN 978-0-443-18500-7 <https://doi.org/10.1016/B978-0-443-18500-7.00006-5>.
20. Y.K.Mohanta, A. Nongbet, J. Panda, I. Chakrabartty, T. K. Mohanta and B. Mishra (2024) Nanobiotechnology in genetic engineering for abiotic stress resistance in crops, in: R. N. Pudake, R. M. Tripathi, S. S. Gill (eds.), "**Nanotechnology for Abiotic Stress Tolerance and Management in Crop Plants**", Elsevier pp. 153-164; ISBN 978-0-443-18500-7 <https://doi.org/10.1016/B978-0-443-18500-7.00006-5>.
21. P. Periaamy, Y. K. Mohanta (2024) Global Energy Crisis: Need for Energy Conversion and Storage, in: I. Chakrabartty, H.R. Hakeem (eds.), "**Green Nanomaterials in Energy Conversion and Storage Applications**", CRC Press pp. ; ISBN 9781003398578 <https://doi.org/10.1201/9781003398578>.
22. A. Nongbet, Y. K. Mohanta, K. R. Hakeem, and I. Chakrabartty (2024) Biofuels: Opportunities, Challenges, Risks, and Sustainability, in: S.K. Brar et al. (eds.), "**The Microbiology of the Drop-in Biofuel Production, Biofuel and Biorefinery Technologies**", Springer-Nature, Switzerland AG pp. 1-13 ; ISBN 978-3-031-61637-2 [https://doi.org/10.1007/978-3-031-61637-2\\_1](https://doi.org/10.1007/978-3-031-61637-2_1)
23. S. Das, M.I. Kalyani, Y.K. Mohanta, and M. Sharifi-Rad (2024) Nanotechnology- Enabled Food Packaging and Its Antimicrobial Potential, in: Y. K. Mohanta et al. (eds.), " Sustainable Green Nanotechnology: Food and Agriculture Paradigm", CRC Press pp. 228-249; ISBN: 9781003389408 <https://doi.org/10.1201/9781003389408>
24. M. K. Ray, R. Ahmed, M. Z. Shamim, Y. K. Mohanta (2025) Bioprospecting of novel and industrially relevant enzymes, in: M. Shah & A. Sarkar (eds.), "Bio Refinery of Waste Water Treatment: Way to Generate Waste to Value", Elsevier pp. 203-238; ISBN: 9780323956710 <https://doi.org/10.1016/B978-0-323-95670-3.00003-4>
25. M. Z. Shamim, J. Panda, G. Mohanty, B. Gogoi, K. Patowary, B. Mishra and Y. K. Mohanta (2024). The Preventative and Curative Functions of Probiotics: A Paradigm of Food as Drug Revolution, In : H. Thatoi, et al. (eds.), "Applied Biotechnology and Bioinformatics: Agriculture, Pharmaceutical Research and

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Environment” WILEY pp. 181–215. ISBN: 9781119896401  
<https://doi.org/10.1002/9781119896869.ch8>

26. R. Ahmed, B. Ingti, N. Afsha, I. Thongmee, and Y. K. Mohanta (2025). Isolation of Actinomycetota by Different Methods, In L. Kathik (eds), " Protocols of Actinomycetes: Microbiology to Gene Editing" CRC Press pp. 1-31. ISBN: 9781032504230 [10.1201/9781003398400-1](https://doi.org/10.1201/9781003398400-1)

#### Abstracts:

1. [Y.K. Mohanta](#), S.K. Panda, K. Biswas, A. Tamang, J. Bandyopadhyay, D. De, R. Jayabalan, T.K. Mohanta & A.K. Bastia (2017). Bio-inspired synthesis of silver nano-particles from leaf extract of *Clutiacolli* (Roxb.): Its potential antibacterial and anticancer activity. Proceedings- pp.78.
2. [Y.K. Mohanta](#), K. Biswas, J. Bandopadhaya, A. Tomang, D. De, D. Mohanta, S.K. Panda, T.K. Mohanta & A.K. Bastia (2016). *Abutilonindicum* (L.) Sweet leaf extracts assisted bio-inspired synthesis of electronically charged silver nano-particles with potential antimicrobial properties. Proceedings-Nano-Bio-Con 2016, pp.68.
3. [Y.K. Mohanta](#), K. Biswas, A. Tomang, J. Bandopadhaya, D. De, D. Mohanta & A.K. Bastia (2015). Green synthesis of bioactive silver nano-particles (AgNPs) by leaf extracts of *Garugapinnata* Roxb. and its antimicrobial activity. Proceedings-Nano-Bio-Med 2015, pp. 92.
4. [Y.K. Mohanta](#), K. Biswas, A. Tomang, J. Bandopadhaya, D. Mohanta & A.K. Bastia (2015). Bio-inspired synthesis of electronically charged silver nano-particles by *Cleistanthuscollinus* leaf extract with potential antimicrobial properties. Proceedings-Condensed Matter Days 2015, pp. 61
5. [Y.K. Mohanta](#), L. Padhy, S.K. Panda & A.K. Bastia (2014). Antimicrobial activity of aboriginal plants used in the preparation of "Handia" among the Tribals of Northern Odisha. Proceedings-Phytoresources-Utilization and Conservation, pp. 40
6. [Y.K. Mohanta](#) & L. Padhy (2014). Ethno-medicinal evaluation of wild mushrooms from Similipal Biosphere Reserve, Odisha, India. Proceedings-Phytoresources-Utilization and Conservation, pp. 42
7. [Y.K. Mohanta](#) (2013). Actinobacterial Diversity of Bhitarkanika Mangrove Ecosystem: Sustainable use as potential drug candidate. Proceedings-Conserving Biodiversity for Sustainable Development, pp.84
8. [Y.K. Mohanta](#) & S. Das (2012). Antimicrobial and antioxidant activity of marine Actinomycetes from Odisha coast, India. Proceedings-Utilization of microbes for sustainable development, pp. 70
9. [Y.K. Mohanta](#), L.P. Padhi, G. Sahoo, S.K. Dutta, & S.K. Panda (2012). Bacterial flora of Indian chameleon (*Chamaeleozeylanicus*, Laurenti). Proceeding-Current Trend of Wildlife Research in India with special reference to Herpetology, pp. 88
10. [Y.K. Mohanta](#), R. N. Rout, S. Satapathy & A. Mohapatra (2008). Preliminary study on Plant Biodiversity in Lulung forest of Similipal Biosphere Reserve. Proceedings –Botanical Researches: Present scenario & Future prospect, pp.91

#### CONFERENCE/WORK SHOP/COURSES/FDP ORGANIZED

1. National Conference on "Bioresources and Sustainability: Current Trends and Future Prospects" (NCBS-2024) held on 2<sup>nd</sup> and 3<sup>rd</sup> April 2024 at the Department of Applied Biology, University of Science and Technology Meghalaya, India sponsored by DST-SERB, Govt. of India (File No: SSY/2024/000154) and recognized by Viksit Bharat-2047 mission. (As Convenor)
2. Workshop on "Basics of Scientific Writings" held on September and October 2023 at the Department of Applied Biology, University of Science and Technology Meghalaya, India. (As Convenor)
3. Hands-on training on "Microbiological Techniques and Quality" held on 15<sup>th</sup> and 16<sup>th</sup> September 2022 at the Department of Applied Biology, University of Science and Technology Meghalaya, India. (As Organizing secretary)

#### INVITED LECTURER/RESOURCE PERSON

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1. Invited speaker and resource person in the National Seminar on “**Microbial Mystry: Investigations on the Unknowns and Unseens**” at Darjeeling Government College, Darjeeling, West Bengal, India on 27<sup>th</sup> September 2024.
2. Invited speaker and resource person in the SERB sponsored National Workshop on “**Application of Nanotechnology in Plant Growth Promotion for Sustainable Agriculture**” at Amity Institute of Microbial Technology, Amity University Uttar Pradesh, Noida on 9-13<sup>th</sup> September 2024.
3. Invited key-note speaker for the International Conference on “**Recent innovations in scientific and commercial approaches towards land restoration and environmental sustainability**” at Swami Shri Swaroopanand Saraswati Mahavidyalaya, situated in Hudco, Bhilai, Chhatisgarh on 5-6<sup>th</sup> June 2024.
4. Invited Speaker for the National Level Online Faculty Development Program on “**Current Science and Development in Nanobiotechnology**” Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telengana on 1<sup>st</sup> February 2024.
5. Invited Speaker for the National Level Online Faculty Development Program on “**Current Trends and Innovations in Biological Sciences**” Chettinad Academy of Research and Education, Kelambakkam, Chennai on 2<sup>nd</sup> September 2022.

### WORK SHOP/COURSES/FDP ATTENDED

1. FDP on hands-on Training on “**LMS Moodle**” on 3<sup>rd</sup> to 10<sup>th</sup> September 2022 at the University of Science and Technology Meghalaya, India.
2. FDP on “**INTELLECTUAL PROPERTY RIGHTS**” organized by Intellectual property office, India on 9<sup>th</sup> September 2022.
3. Clarivate-**JOURNAL CITATION REPORTS (JCR) CERTIFICATION SERIES-2022** held on 10<sup>th</sup> August 2022.
4. Online Weeklong FDP on “**E-CONTENT DEVELOPMENT**” Organized by TLC, Tezpur University from 4<sup>th</sup> to 8<sup>th</sup> April 2022.
5. **UGC-HRDC** FDP on “**PROFESSIONAL ETHICS AND MORAL VALUES IN QUALITY EDUCATION AND RESEARCH**” from 21<sup>st</sup> to 26<sup>th</sup> October 2021 at Jai Narain Vyas University, Rajasthan, India (Online mode).
6. E-workshop cum Discussion forum on “**HIGH-END CHARACTERIZATION OF MICRO-ALGAE: OVERCOMING THE TECHNOLOGICAL BARRIERS**” from 3<sup>rd</sup> to 4<sup>th</sup> March, 2021 at The Energy and Resources Institute, New Delhi.
7. Certificate course on “**HPLC-MASS TECHNOLOGY**” funded by **DST-DPRP** organized from 15<sup>th</sup> to 18<sup>th</sup> May 2019 at HPLC-MASS Laboratory, Department of Chemistry, Karunya Institute of Technology and Sciences, Coimbatore-641114, TamilNadu, India.
8. Short-term course on “**FERMENTATION AND ENZYME TECHNOLOGY**” under **TEQIP-II** held from 1<sup>st</sup> February to 5<sup>th</sup> February 2013 at the Department of Biotechnology, College of Engineering and Technology, BPUT, Bhubaneswar, Odisha, India.

### SEMINARS/CONFERENCES ATTENDED

1. International conference on “**Global Leaders Conference 2024 on Sustainable Development Goals (SDGs)**” on 14<sup>th</sup> September, 2024 (Oral presentation) at Al Bustan, Dubai, Saudi Arabia
2. International conference on “**Microbiological research: Current challenges and future prospects**” during January 9<sup>th</sup>-11<sup>th</sup>, 2024. (Oral presentation) at Bharathidasan University, Tiruchirapalli, Tamilnadu.
3. International Symposium on “**Advances in Algal Research**” during June 12<sup>th</sup>-14<sup>th</sup>, 2023. (Oral presentation) at Indian Institute of Technology Guwahati.

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Wednesday, January 8, 2025

4. International Seminar on “**Advances in Entrepreneurial Botany: Entrepreneurship Opportunities from Plant Resources for Sustainable Development**” during October 27th- 29th, 2022. (Oral Presentation) at University of Science and Technology Meghalaya.
5. International symposium on “**Water Sustainability: Challenges, Technologies and Opportunities**” held on 22<sup>nd</sup> to 25<sup>th</sup> March, 2021 at Amrita ViswaVidyapitham, Kerala, India. (Online)
6. National seminar on “**Emerging Trends in Plant Science Research: Challenges and Opportunities**” held on 22<sup>nd</sup> to 23<sup>rd</sup> March, 2017 at PG Department of Botany, North Orissa University, Takatpur, Baripada, Odisha, India. (Oral presentation)
7. International conference on “**Nanocomputing and Nanobiotechnology-2016**” held on 03-05 October, 2016 at MaulanaAbulKalam Azad University of Technology, WestBengal, India. (Oral presentation)
8. International conference on “**Nanotechnology for Biological and Biomedical Applications-2015**” held on 01-04 December, 2015 at Indian Institute of Technology, Mumbai, India. (Poster presentation)
9. National seminar on “**Condensed Matter Days-2015**” held on 27<sup>th</sup> to 29<sup>th</sup> August, 2015 at Department of Physics, Visva-Bharati, Santiniketan, West Bengal, India. (Poster presentation)
10. National seminar on “**Phytoresources: Utilization and Conservation**” held on 24<sup>th</sup> to 25<sup>th</sup> March, 2014 at PG Department of Botany, North Orissa University, Takatpur, Baripada, Odisha, India. (Oral presentation)
11. International conference on “**Conserving Biodiversity for Sustainable Development**” held on 16<sup>th</sup> to 18<sup>th</sup> August, 2013 at Department of Biotechnology and Biomedical Engineering, National Institute of Technology, Rourkela, Odisha, India. (Oral presentation)
12. One day seminar on “**Conservation of Biodiversity**” held on 11th January 2013 at Department of Life Science, National Institute of Technology, Rourkela, Odisha, India.
13. PranakrushnaParija Memorial National Conference on “**Recent Advances in Plant Biotechnology**” held on 22<sup>nd</sup> & 23<sup>rd</sup> December, 2012 at Dept. Of Botany, Ravenshaw University, Cuttack, Odisha, India.
14. National seminar on “**Utilization of Microbes for Sustainable Development**” held on 14<sup>th</sup>&15<sup>th</sup> December, 2012 at Dept. of Microbiology, CBSH, Orissa University of Agriculture and Technology, Odisha, India.
15. National seminar on “**Botanical Researches: Present Scenario & Future Prospect**” held on 29<sup>th</sup>and 30<sup>th</sup>January, 2008 at Government college of Science, Raipur, C.G., India. (Oral Presentation)
16. National seminar on “**Biotechnology: Prospects and Potential in Orissa**” held on 20<sup>th</sup> October, 2006 at Fakir Mohan University, Balasore, Odisha, India.

## MEMBERSHIPS

- Life Member Microbiologist Society, India (MS/LM/681)
- Life Member Indian Science Congress Association (L41741)
- International Natural Product Sciences Taskforce ([www.inpst.net](http://www.inpst.net))

## HOBBIES/EXTRACURRICULAR ACTIVITIES

- Nature photography (Wildlife & Landscape photographer)
- Adventure, Trekking

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Wednesday, January 8, 2025

- Social and Promotional activities for empowering society as well as conservation of nature and wildlife biodiversity.

## INTERNATIONAL COLLABORATIONS

1. Prof. Mahesh Narayan ( University of Texas at El Paso, USA)
2. Chev. Prof. Renald Blundell (University of Malta)
3. Prof. Walter H.M.L. Luyten (KU Leuven, Belgium)
4. Prof. Majid Sharifi-Rad (University of Zabol, Iran)
5. Prof. Amra Bratovic (University of Tuzla, Bosnia and Herzegovina)
6. Dr. Awdhesh Kumar Mishra (Yeungnam University, South Korea)
7. Dr. Hamed Barabadi (Shahid Beheshti University of Medical Sciences,Iran)
8. Prof. Hans-Uwe Dahms (Department of Biomedical Science and Environmental Biology, KMU - Kaohsiung Medical University, Kaohsiung 80708, Taiwan)
9. Prof. Jiang Shiou Hwang (Institute of Marine Biology, National Taiwan Ocean University, Keelung 20224, Taiwan)
10. Prof. Guy Raymond Feuya Tchouya (Université des Sciences et Techniques de Masuku, Box. 901, Franceville, Gabon)
11. Dr. Satya Kumar Avula ( University of Nizwa, Sultanate of Oman)

## NATIONAL COLLABORATIONS

1. Prof. Saravanan Muthupandian (Saveetha University, Chennai)
2. Prof. B. Jebasingh (Karunya University, Coimbatore, Tamilnadu)
3. Dr. Kunal Biswas (Sathyabama Institute of Science and Technology, Chennai)
4. Dr. Pradipta Ranjan Rauta (AIPH University, Bhubaneswar, Odisha)
5. Dr. Hemen Sarma (Bodoland University, BTR, Assam)
6. Dr. Kumanand Tayung (Gauhati University, Assam)
7. Dr. Bibhu Prasad Panda (SOA, Bhubaneswar)
8. Dr. Abanti Pradhan (SOA, Bhubaneswar)
9. Prof. Hrudaynath Thatoi (SOA, Bhubaneswar)
10. Dr. Neelam Amit Kungwani ( GBU, Gandhinagar, Gujarat)
11. Dr. Prakash Kumar Nayak (CIT, Kokrajhar, Assam)
12. Dr. Biswanath Bhunia ( NIT, Agartala, Tripura)
13. Dr. Saurov Mahanta (National Institute of Electronics and Information Technology, Gol)
14. Dr. Ramesh Namdeo Pudake (Amity Institute of Nanotechnology, Noida, Hariyana)
15. Prof. Sanket J. Joshi (Amity Institute of Microbial Technology, Jaipur, Rajasthan)

## PERSONAL INFORMATION

NAME : YUGAL KISHORE MOHANTA  
FATHER'S NAME : JUDHISTHIR MOHANTA  
MOTHER'S NAME : SHANTILATA MOHANTA  
DATE OF BIRTH : 29<sup>th</sup> SEP 1987

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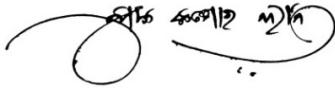
# CURRICULUM VITAE

2025

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SEX : MALE  
MARITAL STATUS : MARRIED  
LANGUAGES KNOWN : ODIYA, HINDI, BENGALI, ENGLISH

## DECLARATION

I hereby declare that all information given are true, complete and correct to best of my knowledge and belief.



(Y.K. Mohanta)

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