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Special Issue on: Biotechnological Trends for Sustainability



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Submission Open: **July 11, 2024**

Submission Deadline: **October 30, 2024**

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In the era of climate change and pollution, biotechnology has the potential to facilitate sustainable development. The field of biotechnology provides renewable and sustainable genetic inputs it aims to minimize the formation of toxic pollutants and is considered a green technology. Biotechnology develops various cost-effective bioprocesses such as bioactives, biotech crops, bioremediation, biofuels, biofertilizers, and biopesticides. This special issue on plant 'Biotechnological Development for Sustainability', is an effort to compile the latest information, innovations, and advancements in the field of biotechnology. Moreover, it will cover the basic and applied aspects of biotechnological field of food, pharmaceutical industries, agriculture, environment, nanotechnology, genetically modified organism and biosafety.

Keywords: Agriculture; Environment; Industrial applications; Nanobiotechnology; Microbial Biotechnology; Sustainability

Topics to be covered include:

- Crop improvement through biotechnological tools
- Production of bioactive compounds using microorganisms
- Bioinoculants, biocontrol agents, plant growth-promoting rhizobacteria
- Beneficial soil fungi, crop protection, organic farming
- Bioremediation of contaminated sites and ecosystems
- Heavy metal contamination and its Remediation
- Biodegradation of recalcitrant and xenobiotics
- Biofortification, constraints in production, and their management
- Climate-ready crops, innovative practices for organic food production
- Microbes in food production
- Synthetic biology for bioactive compound production
- Advances in biofuel production
- Extremophiles and their biotechnological applications
- Biotechnology in climate change agriculture

Manuscript submission

Authors are invited to submit high quality articles (Research, review as well as short communications). Submitted papers should be well formatted and use good English. All the submitted papers will be screened for plagiarism using Turnitin and will be subjected to peer review. Accepted papers will be published under the special issue on the journal's website. Manuscripts should be submitted online through the journal's online submission system. Please visit this link for further details: <https://ejmanager.com/my/jabb/>

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Editors for Special Issue

Editor in Chief



Dr. Ajar Nath Yadav is Assistant Professor (Senior Scale) and Assistant Controller of Examination at Eternal University, Baru Sahib, Himachal Pradesh, India. He has 9 years of teaching and 15 years of research experience in the field of Microbial Biotechnology, Microbial Diversity, and plant-microbe interactions. Dr. Yadav obtained doctorate in Microbial Biotechnology, jointly from IARI, New Delhi and BIT, Mesra, Ranchi, India. Dr. Yadav has 350 publications, with h-index of 90, i10-index of 312, and 22777 citations. Dr. Yadav is editor of 18 Springer-Nature, 7 Taylor & Francis, 2 Elsevier and 1 Wiley book. Dr. Yadav is Editor-in-Chief of "Journal of Applied Biology and Biotechnology". He has been serving as an editor/associate editor for 10 national & international journals and a reviewer for 130 different national & international peer-reviewed journals. He has lifetime membership of Association of Microbiologist in India, and Indian Science Congress Council, India.

Dr. Yadav is listed in the World's Top 2% Scientist in 2022 and 2023 (Stanford University, California, United States). Dr. Yadav is listed in the World's Top 2% Most Influential Scientists (in a Single Year)- 2022. Dr. Yadav is among the 1% leading scientists in the world by the 3rd edition of Research.com. Dr. Yadav received the University Best Researcher Award 2022 & 2023 and the University Best Teacher Award 2018 by Eternal University. Dr. Yadav is the University Best Scientist (First Rank) 2020-2024 by AD Scientific Index. Dr. Yadav is First Rank in the University in SCOPUS (214 publications with h-index of 46)- 27% of University publications. Please visit <https://sites.google.com/view/ajarnathyadav/> for more details.

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Guest Editors



Dr. Tanvir Kaur is Assistant Coordinator, IQAC at Eternal University, Baru Sahib, Sirmour, Himachal Pradesh, India. She obtained her doctorate degree in Biotechnology (Microbial Biotechnology) from Eternal University, Baru Sahib, Himachal Pradesh, India; Dr. Kaur has 76 publications with h-index 29, i10-index 49, and 2845 citations. In her credit ~400 microbes (bacteria and fungi) isolated from diverse sources. She has deposited 31 nucleotide sequences. Dr. Kaur has developed NPK microbial consortium for the crops growing in hilly region of Himachal Pradesh. She has been serving as reviewer for 18 different national and international peer-reviewed journals and reviewed 61 manuscripts.



Dr. Ashutosh Pandey is a Post Doctoral Researcher at the Institute for Water and Wastewater Technology, Durban University of Technology, Durban South Africa. He earned his Ph.D. in Biotechnology from Motilal Nehru National Institute of Technology, Allahabad, India, focusing on algae cultivation for biofuel production and bioremediation using dairy industry wastewater. With a strong background in microbial applications, wastewater technology, and renewable energy, Ashutosh has served in various academic and research roles, including as an assistant professor and scientist. He has published extensively, with over 25+ publications and multiple book chapters, contributing significantly to the fields of environmental biotechnology and sustainable energy. His research has garnered significant recognition, with over 500+ citations on Google Scholar and multiple awards, including the SARChi Chair National Research Fellowship and the Young Scientist Award from the Society of Life Sciences.



Dr. Sarvesh Rustagi is Associate Professor in Department of Food Science and Technology, Uttaranchal University, Dehradun, India. He also holds the position of Director Admission & Marketing (National & International) at Uttaranchal University, Dehradun, India in addition to teaching. He completed B.E (Biotechnology), M.Tech (Biotechnology with Spez. Food Technology) and Ph.D. (Food Technology). He also qualified Nationalized exam like GATE (Biotechnology) and NET (Food Technology). He is specialized in Food Biotechnology and Food Engineering. He has published more than 150 papers in International & Indian Journals, Conferences & Seminars. He is member of Association of Food Scientists and Technologists (India). He also won Young Scientist Award by Govt. of Uttarakhand

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