

Prof. Dr. Yogini Mulay
Convenor,
BTBT, Tashkent, 2024,
Date: 29/05/2024

To,
The Principal
Tuljaram Chaturchand College, Baramati.

**Subject: Report of International Conference on "Biotechnology for a Better Tomorrow" at
"Institute of Fundamental and Applied Research, Tashkent, Uzbekistan on 16th and 17th
May 2024."**

Respected Sir,

I am pleased to submit a detailed report of International conference on "Biotechnology for a Better Tomorrow," which I had the honor of attending on behalf of Tuljaram Chaturchand College in Tashkent, Uzbekistan, on the 16th and 17th of May 2024. This conference was jointly organized by Tuljaram Chaturchand College, Baramati, Microbiology Society of India, Institute of Fundamental and Applied Research, Tashkent, Uzbekistan, Amity University, Noida, and the American Microbiological Society, in collaboration with the Institute of Fundamental and Applied Research, Tashkent, Uzbekistan.

The honorable Jawahar shah Waghlikar, President and respected Milind Shah Waghlikar Secretary, and Principal Prof. Dr. Avinash Jagtap Sir provided guidance for the conference. In the opening ceremony of this conference, the Vice Principal of the college Prof. Dr. Ashok Kalange gave information about various programs in Tuljaram Chaturchand College. At the same time, Vice Principal and Convener Prof. Dr. Yogini Mule opined that

biotechnology will be the solution to the problems in the food and agriculture sectors in the future. On the occasion of the inauguration of the conference, Professor Salohidino, International Cooperation National Research University, Tashkent, Uzbekistan, Dr. Dilfuja Ingambarde, Head of Ecobiome Research and Development, TIIFAR, National Research University, Tashkent and Dr. Natalia Oboturova, Dean, of the Faculty and Food Engineering, Russia shared their views on the importance of biotechnology in human welfare. 70 researchers from Uzbekistan, Russia, Dubai, Kazakhstan, Turkey, Iran, Italy, Russia, Belarus and India participated in the conference. Two professors of Tuljaram Chaturchand College namely Prof. Dr. Yogini Mulay and Dr. Madhuri Patil presented their research papers in said conference. 25 professors and research students of our college participated in the conference in online mode. Tuljaram Chaturchand College has done MoU with two research institutes namely Institute of Fundamental and Applied Research University TIAME, Tashkent, Uzbekistan and Faculty of Engineering and Biotechnology, University Russian Federation, Russia. The said MoU will increase the number of research opportunities at international level.

In the said international conference Prof. Dr. Madhuri Patil received the Best Oral Presentation Award (off line mode) and Kajal Gaikwad and Jadhav Sayli received the Best Oral Presentation Award (online mode). The registrar of the college Mr. Abhinandan Shah was presided over for the closing ceremony of the conference. Dr. Arvind Deshmukh, President, Microbiology Society of India and Dr. S. B. Dahikar has given valuable guidance for successful completion of conference.

Tuljaram Chaturchand College has signed the MoU with two research institutes:

- 1) Institute of Fundamental and Applied Research University TIAME, Tashkent, Uzbekistan,
- 2) Faculty of Engineering and Biotechnology, University Russian Federation, Russia.

I would like to express my gratitude to you and the College administration for giving me opportunity and supporting my participation in this prestigious event.

Yours Sincerely,

A handwritten signature in blue ink, appearing to be 'Yogini Mulay', with a stylized flourish at the end.

Prof. Dr. Yogini Mulay
Convenor, BTBT 2024,

A group of four people, three women and one man, are standing behind a dark wooden table. They are all holding white documents. From left to right: a woman in a dark blazer over a blue and white striped shirt; a woman in a dark blazer over a blue shirt holding a document with a pink header; a woman in a white blazer over a black top holding a document; and a man in a white button-down shirt holding a document. On the table in front of them are two small flags: the Indian national flag and the Telangana state flag. The background features brown curtains and a decorative white lattice partition.

Release of Abstract BOOK for Biotechnology for better tomorrow International Conference



Dr. Madhuri Patil received Best oral Presentation Award by auspicious hands of Dr. Dilphuja and Dr. Deshmukh



Validictory Session: Group Photo

MAY 16-17, 2024

International Conference

“Biotechnology for Better Tomorrow”

BTBT-2024

**National Research University (TIAME),
Uzbekistan**

PROGRAM



Conference Programme Schedule	
16 May 2024 (Thursday)	
9:00 – 9:30	Registration
9:30 - 10:15	Opening and Welcoming Remarks <ul style="list-style-type: none"> • Prof. Salohiddinov. A. Vice-Rector for International Cooperation, Uzbekistan • Dr. Difuza Egamberdieva, Head of Ecobiome R&D, National Research University (TIIAME), Uzbekistan • Dr. Natalia Oboturova. Dean of the Faculty of Food Engineering and Biotechnology, NCFU (Russia) • Prof. Ashok Kalange, Vice Principal, TCC, Baramati, India • Dr. Yogini Mulay, Convener, BTBT/2024 • Dr. A. M. Deshmukh, President, Microbiologists Society, India • Chief Organizing Secretary: Dr. S. B. Dahikar <i>Release of the Abstract Book of the Conference</i>
10:15 – 11:00	Keynote Presentations
	Dr. Difuza Egamberdieva : Plant microbiome: benefits for sustainable agriculture (Uzbekistan) Prof. Saverio Mannino : Nanotechnology in food systems. (Italy)
11:00 – 11:15	Coffee Break
Session I: Agricultural biotechnology	
11:15 - 13:00	Format: the session starts with 5 minutes opening remarks by moderator and follows by 15 minutes presentations. Moderator: Dr. Difuza Egamberdieva. Head of Ecobiome R&D, National Research University (TIIAME), Uzbekistan
	<ul style="list-style-type: none"> • Dr. Chandrakant Khilare: Exploring the potential of AMF on phytochemical profiling and health-promoting parameters of <i>Acmella calva</i> (DC.) R. K. Jansen (India) • Annamalai Panneerselvam: Edible mushroom cultivation technology and women's self help programme (India) • Farhod Eshboyev: Biological activities of the secondary metabolites of endophytic fungi isolated from <i>Hyssopus officinalis</i> (Uzbekistan) • Munawwar Ali Khan: Biochar combined with plant growth-promoting bacteria promotes tomato seedling growth under a reduced dose of synthetic fertilizer (India)
13:00-14:00 Lunch	
Session II: Medical and Pharmaceutical Microbiology	
14:00-15:30	Format: the session starts with 5 minutes opening remarks by moderator and follows by 15 minutes presentations

	<p>Moderator: Farhod Eshboyev. Institute of the chemistry of plant substances</p> <ul style="list-style-type: none"> • Dr. Anil Fokmare: Handling of temperature excursions and the role of stability data in pharmaceutical industries (India) • Subban Murugesan: Biogenic synthesis of CuO/ZnFe₂O₄ NCs using ulva lactuca l. extract for photocatalytic degradation of congo red and in vitro biomedical applications (India) • Patil Madhuri Pravinkumar: A panoramic study in <i>Artemisia</i> pallets for its bioactive compounds and medicinal assets (India) • Muzaffar Muminov: “Immune profile of dimer rbd-based anti-coronavirus recombinant protein vaccine” (Uzbekistan)
15:30-15:45 Coffee break	
Session III. Microbial Biotechnology	
15:45-17:15	<p>Format: the session starts with 5 minutes opening remarks by moderator and follows by 15 minutes keynote presentations.</p> <p>Moderator: Dr. Sagarika Devi, Guru Nanak Centre for Research Guru Nanak College, Velachery, India</p> <ul style="list-style-type: none"> • Dr. S B Dahikar: Biotechnological practices in producing biologically active compounds and innovative foods (India) • Dr. Gaurav Shah: Purification and characterization of microbial pigments: applications beyond belief (India) • Prof. Dr. Mulay Yogini Ramkrishna: Development of nano biocatalytic model by immobilization of amylase on silver nanoparticles & its application in detergent (India) • Murugaiyan Kalaiselvam: Marine microbiology: status, challenges and opportunities (India) • Arya Fokmare: Microbial load from birds Feces (India)
17:15 – 17:30	Closing remarks: Dr. Dahikar S. B.
17 May 2024 (Friday)	
10:00-10:05	Welcome speech from Dr. Natalia Oboturova
Session IV: - Modern trends in food and industrial biotechnology	
10:05-11:15	<p>Format: the session starts with 5 minutes opening remarks by moderator and follows by 15 minutes keynote presentations.</p> <p>Moderator: Prof. Alexei Lodygin – Dr. Sci., Head of Applied Biotechnology Department, NCFU (Russia)</p> <ul style="list-style-type: none"> • Prof. Natasa Poklar Ulrich: Micro- and nano-encapsulation of bioactive compounds for agrifood applications (Russia) • Prof. Alexei Lodygin: Implementation of functional food ingredients in fermented dairy products technology (Russia)

	<ul style="list-style-type: none"> • Prof. Vladimir Kurchenko: Chitosan and its derivatives regulate lactic acid synthesis during milk fermentation (Belarus) • Dr. Ludmila Alieva. Dr. Maria Shramko: Application of cationic polysaccharide chitosan in value-added dairy products (Online) (Russia)
11:15-11:30 Coffee break	
Session IV: Modern trends in food and industrial biotechnology	
11:30-13:00	<ul style="list-style-type: none"> • Prof. Seid Mahdi Jafari: Adsorption of phenolic compounds from olive mill wastewater by surface-modified montmorillonite; a novel valorization strategy (Online) (Iran) • Mohammad Ali Shariati: Utilizing plant extraction to prolong the shelf life of animal-origin products (Online) (Kazakhstan) • Prof. Fahrettin Gogus: The valorization of valuable components from food waste by novel technologies (Online) (Turkiye) • Prof. Muhtor Nasyrov: Biotechnological methods for obtaining a new products of small ruminant farming in the drylands of Uzbekistan (Uzbekistan) • Dr. Andrei Nagdalian: Harnessing the power of metal oxide nanoparticles for pea seeds growth stimulation (Online) (Russia) • Dr. Natalia Oboturova: Modern trends and perspectives of food and industrial biotechnology developed at the faculty (Russia)
13:00-14:00 Lunch	
Session V: Environmental biotechnology	
14:00-15:00	<p>Format: the session starts with 5 minutes opening remarks by moderator and follows by 15 minutes presentations.</p> <p>Moderator: Dr. Hema Shiral: Hogade Department of Microbiology Terna Medical College, Navi Mumbai (India)</p>
	<ul style="list-style-type: none"> • Dr. Tanu Jindal: Extremophiles and biotechnological application (Online) (India) • Dr Sarita Bhutada: Investigating anticancer potential: a comparison of synthetic and enzymatically derived gallic acid from <i>Aspergillus niger</i> (Online) (India) • Dr. Biswajit Rath: Microalgal biotechnology-hypes and hopes (Online) (India)
Closing ceremony	
15:15-15:30	<ul style="list-style-type: none"> • Dr. Dilduza Egamberdieva, Head of Ecobiome R&D, National Research University (TIAME), Uzbekistan • Dr. A. M. Deshmukh, President, Microbiologists Society, India