



PROGRAM

**INTERNATIONAL CONFERENCE  
ON BENEFICIAL MICROBES  
(ICOBM-2021)**

June 01-06, 2021

Don State Technical University  
Rostov-on-Don, Russia  
2021

**INTERNATIONAL CONFERENCE ON BENEFICIAL MICROBES  
«ICOBM-2021»**

**SCIENTIFIC PROGRAM  
June 02-03, 2021**

**Day 1. June 02, 2021**

Registration: 7:30-8:20

Location: Congress Hall of DSTU, 1st floor

Online registration: 7:00-8:20

**1. Plenary Session**

Conference Chair: Dr. Min-Tze Liong

Location: Hall of the Academic Council, 6th floor, Congress Hall of DSTU

**Michael Chikindas**

Professor, Rutgers State University, USA;

Head, Center for Agrobiotechnology Don State Technical University, Russia

*Greeting*

8:30-8:40

**Min-Tze Liong**

Professor, University Sains Malaysia, Malaysia

**Opening remark**

8:40-8:50 (MYT: 13:40-13:50)

**Besarion Meskhi**

Rector, Don State Technical University, Russia

*Greeting*

8:50-9:00

**Irina Donnik**

Vice President, Russian Academy of Sciences, Russia

*Greeting*

9:00-9:10

DEMONSTRATION OF A FILM ABOUT DON STATE TECHNICAL UNIVERSITY

9:10-9:15

**Irina Ryabchik**

Deputy General Director for Research and Development, Lallemand, Russia

*Greeting*

9:15-9:25

**Min-Tze Liong**

Professor, University Sains Malaysia, Malaysia

*Probiotic: A next generation agent for healthier gut & brain*

9:25-9:55 (MYT: 14:25-14:55)

**Vyacheslav Ilyin**

Head of Department, Federal State Scientific Center of the Russian Federation,  
Institute of Biomedical Problems of the Russian Academy of Sciences, Russia  
*Autoprotobiotics as a promising mean for colonization resistance strengthening in  
interplanetary flights*  
9:55-10:25

**Alexander Suvorov**

Professor, Institute of Experimental Medicine, Russia  
*Autoprotobiotics from the concept to the clinical evidence*  
10:25-10:55

**Koen Venema**

Professor, Maastricht University – campus Venlo, The Netherlands  
*Towards personalized prebiotics: opportunities and challenges*  
10:55-11:25 (CEST: 9:55-10:25)

**Wilhelm Heinrich Holzapfel**

Professor, Handong Global University, South Korea  
*Prospecting for beneficial (lactic acid) bacteria with focus on fermented foods*  
11:25-11:55 (KST: 17:25-17:55)

**George Laptev**

Director, Biotroph Ltd, Russia  
Professor, St. Petersburg State Agrarian University, Russia  
*Metabolic pathways and expression of microbiome genes in the scar of dairy cows*  
11:55-12:25

**Dzung B Diep**

Professor, Norwegian University of Life Sciences, Norway  
*Bacteriocins, an important source of antimicrobials to deal with antimicrobial resistance*  
12:25-12:55 (CEST: 11:25-11:55)

**LUNCH: 12:55-13:55**

**Auditorium Amazonen-Werke 1-165**

## 2. Human Probiotics

Session Chairs: Dr. V. Ilyin and Dr. A. Suvorov

Location: Auditorium Agrotechnological Holding «Bizon» 1-161

Online registration: 13:00-13:50

**Santosh Kumar Tiwari**

Associate Professor, Maharshi Dayanand University, India  
*Health benefits of bacteriocin-producing lactic acid bacteria isolated from indigenous  
fermented foods*  
14:00-14:20 (IST: 17:00-17:20)

**Roman Yunes**

Researcher, N.I. Vavilov institute of General Genetics Russian Academy of Sciences,  
Russia  
*Role of PFNA operon of bifidobacteria in species-specific adaptation to host's immune  
system*  
14:20-14:40



**Igor Bychkov**

Assistant Professor, Rostov State Medical University, Russia

*Low carb diet and microbiome*

14:40-15:00

**Konstantin Ermolenko**

Researcher, Institute of Experimental Medicine, Russia

*Reduction of conditionally pathogenic bacteria in gut microbiota in children with functional digestive disorders after treatment with autoprobiotic and industrial Enterococcus strain*

15:00-15:20

**Sae Hun Kim**

Professor, Korea University, Korea

*Health benefits of probiotics and postbiotics on gastrointestinal health*

15:20-15:40 (KST: 21:20-21:40)

**Alexander Suvorov**

Professor, Institute of Experimental Medicine, Russia

*Probiotic as a food additive can affect the weight gain of poultry chickens*

15:40-16:00

**COFFEE BREAK 16:00-16:20**

**Auditorium Amazonen-Werke 1-165**

**Anna Tsapieva**

Researcher, Institute of Experimental Medicine, Russia

*Effects of Enterococcus faecium probiotic intake in patients with type 2 diabetes*

16:20-16:40

**Alexey Kovtun**

Researcher, N.I. Vavilov Institute of General Genetics Russian Academy of Sciences, Russia

*Genes-bacteria metagenomic signature of human's gut microbiota as a biomarker of depressive condition*

16:40-17:00

**Vitaly Morozov**

Professor, Institute of Chemical Biology and Fundamental Medicine Siberian Branch of the Russian Academy of Sciences, Russia

*Changes in the intestinal microbiota of patients with inflammatory intestinal diseases after healthy intestinal microbiota transfer*

17:00-17:20

**Aleksey Vatlin**

Senior Researcher, N.I. Vavilov Institute of General Genetics Russian Academy of Sciences, Russia

*Immunomodulatory activity of Limosilactobacillus fermentum U-21 - genes and proteins that potentially determine it.*

17:20-17:40

**Tatyana Khodykina**

Associate Professor, I.M. Sechenov First Moscow State Medical University, Russia

*Probiotics and human hygiene*

17:40-18:00

**Hiroshi Ohno**

Team Leader of the Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Japan

Professor at the Graduate School of Medical Life Science, Yokohama City University, Japan

Professor at the Graduate School of Medicine, Chiba University, Japan

*The role of small intestinal microbes for central nervous system inflammation*

18:00-18:20 (JST: 00:00 – 00:20)

**Alexander Haslberger**

Professor, University of Vienna, Austria

*Fasting and fasting mimetics address Sirtuin pathways and microbiota structure*

18:20-18:40 (CEST: 17:20-17:40)

**DINNER 19:00****Day 2. June 03, 2021****3. Animal Probiotics**

Session Chair: Dr. M. Chikindas

Location: Auditorium Agrotechnological Holding «Bizon» 1-161

Online registration: 08:00-09:00

**Revaz Lapachi**

PhD Student, Agricultural University of Georgia (Kakha Bendukidze University Campus), Georgia

*Impact of Bacillus subtilis probiotic cultivated on local agro-industrial waste on broiler productivity*

9:00-9:20 (GET: 10:00-10:20)

**Jin-Seng Lin**

Director, Culture Collection & Research Institute of SYN BIO TECH INC, Taiwan

*Lactobacillus plantarum TWK10 attenuated age-related muscle weakness, bone loss, and cognitive function decline via modulation of gut microbiota in mice*

9:20-9:40 (CST: 14:20-14:40)

**Maria Mazanko**

Senior Researcher, Don State Technical University, Russia;

Senior Researcher, Southern Federal University, Russia

*A new systematic approach to the creation of probiotic preparations based on innovative engineering solutions*

9:40-10:00

**Evgeniya Prazdnova**

Senior Researcher, Southern Federal University, Russia;

Senior Researcher, Don State Technical University, Russia

*Systemic effects of probiotics*

10:00-10:20

**Olga Isaeva**

Assistant Professor, Federal State Budgetary Educational Institution of Higher Education Kamchatsk State Technical University, Russia

*The use of natural aquatic organisms as flavor attractants in salmon aquaculture*

10:20-10:40

**Nina Ushakova**

Chief Researcher, Institute of Ecology and Evolution of the Russian Academy of Sciences, Russia

*Complex bioactive supplements for aquaculture*

10:40-11:00

**Alena Abaimova**

Junior Researcher, FBUN State Research Center for Applied Microbiology & Biotechnology, Russia

*Examples of the use of Mundticin E28 (KS) for decontamination of Listeria from poultry products*

11:00-11:20

**COFFEE BREAK 11:20-11:40**

**Auditorium Amazonen-Werke 1-165**

**4. Probiotics Biotechnology**

Session Chairs: Dr. G. Laptev and Dr. S. Todorov

Location: Auditorium Agrotechnological Holding «Bizon» 1-161

Online registration: 11:20-11:40

**Svetoslav Todorov**

Research Professor, Handong Global University, Korea

*Angels and demons in our GIT: The dark side of LAB*

11:40-12:00 (KST: 17:40-18:00)

**Gwénaél Jan**

Research Director, French National Institute for Agricultural Research (INRAE), France

*The key role of surface layer protein SlpB in the probiotic properties of Propionibacterium freudenreichii*

12:00-12:20 (CEST: 11:00-11:20)

**Jorge Enrique Vazquez Bucheli**

Student, Handong Global University, Korea

*FISH-FLOW: A non PCR-based technique for detection of vancomycin resistant enterococci*

12:20-12:40 (KST: 18:20-18:40)

**Andrey Gorovtsov**

Associate Professor, Southern Federal University, Russia

*The role of bacteria in the plant rhizosphere and the perspectives of PGPR application as plant probiotics*

12:40-13:00

**Tatiana Minkina**

Professor, Federal Rostov Agricultural Research Center, Russia

*The microbial communities of highly polluted soils as a source of plant probiotics*

13:00-13:20

**LUNCH: 13:20-14:00**

**Auditorium Amazonen-Werke 1-165**



**Anuj Ranjan**

Post-Doctoral Fellow Academy of Biology and Biotechnology, Southern Federal University, Russia

*Prospects for the use of probiotic drugs to improve the condition of soils and plants*

14:00-14:20

**Varlam Keshelava**

Design Engineer, Institute for Biological Instrumentation Russian Academy of Sciences, Russia

*MICROB XXI: a modern miniature fermenter for scientific research, technological testing and educational practice*

14:20-14:40

**Robert Khramov**

Leading Researcher, Federal State Budget Institution of Science Institute of Theoretical and Experimental Biophysics Russian Academy of Sciences, Russia

*Towards the development of exogenous photobiomodulation of human gut microbiota*

14:40-15:00

**Luís Nero**

Professor, Federal University of Viçosa (UFV), Brazil

*Weissella: an emerging beneficial bacterium with promising health benefits*

15:00-15:20 (BRT: 9:00-9:20)

**Marat Teymurazov**

Senior Researcher, Molecular Microbiology department, State Research Center for Applied Microbiology & Biotechnology, Russia

*Enterococci bacteriocins: genetic diversity and phenotypic expression*

15:20-15:40

**Yulia Markova**

Senior Researcher, Federal Research Center of Nutrition and Biotechnology, Russia

*Development of a method for the determination of probiotic microorganisms in multi-strain probiotics*

15:40-16:00

**Andrey Dubrovin**

Young Scientist, Biotechnologist, Biotroph Ltd, Russia

*Expression of immunity genes in broiler chickens under Salmonella Enteritidis infection*

16:00-16:20

**Yury Ivanov**

Academician of the Russian Academy of Sciences,

Head of Scientific Direction "Livestock breeding technology", Russia;

Federal Scientific Agroengineering Center VIM, Russia

*Conference closing remark*

16:20-16:40

**Michael Chikindas**

Professor, Rutgers State University, USA;

Head, Center for Agrobiotechnology Don State Technical University, Russia

*Conference closing remark*

16:40-17:00

**DINNER 17:30**



**tel.:** +7(989)7039643  
**website:** [icobm.org](http://icobm.org)  
**e-mail:** [icobm@sci.donstu.ru](mailto:icobm@sci.donstu.ru)  
344003, Russia, Rostov-on-Don, Gagarina sq. 1