



**Academy of Sciences of Moldova
Institute of Microbiology and Biotechnology
Society for Microbiology of Moldova**



International Scientific Conference on Microbial Biotechnology (3rd edition)

**dedicated to the 70th anniversary of foundation of first research institutions and
the 55th anniversary of the inauguration of the Academy of Sciences of Moldova.**

**October 12-13, 2016
Chisinau, MOLDOVA**

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PROGRAMME

Hotel "Vila Verde", str. Grenoble 110, mun.Chisinau, Republica Moldova

12 OCTOBER, WEDNESDAY	
12.30-13.30	<i>Registration</i>
13.30 – 14.00	<i>Opening (Event Hall)</i>
14.00 – 15.30	<i>Plenary session (Event Hall)</i>
15.30 – 16.00	<i>Coffee break, Conference family photo</i>
16.00 – 17.30	<i>Plenary session (Event Hall)</i>
17.30 – 20.00	<i>Cultural program and diner</i>
13 OCTOBER, TUESDAY	
9.00 – 10.30	<i>Thematic session 1: ● Red Biotechnology (Health, Medical, Diagnostics) - Event Hall</i> <i>Thematic session 2: ● Yellow Biotechnology (Food Biotechnology, Nutrition Science) - Event Hall</i>
10.30 – 11.00	<i>coffee break</i>
11.00 – 12.30	<i>Thematic sessions 3,4: ● ● Blue and Green Biotechnology (Marine, Agricultural and Environmental Biotechnology) – Event Hall</i>
12.30 – 13.30	<i>Networking Lunch ("Vila Verde" Hotel Restaurant)</i>
13.30 – 15.30	<i>Thematic sessions 5,6: ○ ● White and Gold Biotechnology (Gene-based Bioindustries, Bioinformatics, Nanobiotechnology) - Event Hall</i> <i>Thematic session 7: ● Grey Biotechnology (Classical fermentation and Bioprocess Technology) - Event Hall</i>
15.30 – 16.30	<i>Poster session (Event Hall)</i>
16.30 – 17.00	<i>Closing remarks, suggestions (Event Hall)</i>

12 OCTOBER, WEDNESDAY

Venue: Hotel "Vila Verde" str. Grenoble 110, mun. Chisinau, Republica Moldova

12.30 –13.30	Registration
13.30-14.00 Event Hall	<u>Opening</u> The session will be dedicated to the opening ceremony, welcome speeches and welcoming words from invited and participating institutions. Honoric president , acad. GHEORGHE DUCA, President of Academy of Sciences of Moldova Executive President of the Conference , acad. VALERIU RUDIC, Director of Institute of Microbiology and Biotechnology, President of Society for Microbiology of Moldova Organizing Committee Member , dr. SVETLANA CODREANU, Institute of Microbiology and Biotechnology ASM, FEMS Delegate
14.00 –15.30 Event Hall	<u>Plenary session</u> HALOPHILIC ARCHAEA FROM ROMANIAN SALINE ENVIRONMENTS AND THEIR BIOTECHNOLOGICAL POTENTIAL , <u>MADALIN ENACHE</u> , SIMONA NEAGU, ROXANA COJOC, Institute of Biology Bucharest of the Romanian Academy of Sciences INCIDENCE AND ANTIBIOTIC SUSCEPTIBILITY OF BACTERIAL STRAINS ISOLATES FROM WOUND INFECTIONS , GRETA BALAN, State University of Medicine and Pharmacy „Nicolae Testemitanu”, Republic of Moldova MICROBIAL BIOTECHNOLOGY IN ORGANIC FARMING , LEONID VOLOSCIUC, Institute of Genetics, Physiology and Plant Protection, Academy of Sciences of Moldova CONSIDERATION ON THE ROLE OF IMMUNE MODULATING TREATMENT IN GRUG-RESISTANT TUBERCULOSIS , EUGENIA CULA, <u>EVELINA LESNIC</u> , SERGHEI GHINDA, ELENA PRIVALOV, State University of Medicine and Pharmacy „Nicolae Testemitanu”, Republic of Moldova ANTIOXIDANT ACTIVITY IN <i>ARTHROSPIRA PLATENSIS</i> CELLS DURING THE VITAL CYCLE IN SDANDARD AND STRESS CONDITIONS , LILIANA CEPOI, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova
15.30 –16.00	Coffee break, Conference photo
16.00 –17.30 Event Hall	<u>Plenary session</u> HEALTH BENEFITS OF CHICKEN BAKED MEAT PRODUCTS ENRICHED WITH BIOACTIVE COMPOUNDS FROM VEGETAL SOURCE , <u>QANA-VIORELA NISTOR</u> , DOINA GEORGETA ANDRONOIU, GABRIEL-DĂNUȚ MOCANU, IOANA OTILIA GHINEA, ELISABETA BOTEZ, „Dunarea de Jos” University of Galati, Romania THE IMPACT OF MAGNETITE NANOPARTICLES ON THE SOIL MICROBIAL BIOMASS , <u>SERGIU CORCIMARU</u> , ANA TANASE, VASILE COZMA, TATIANA GUTUL, Institute of Microbiology and Biotechnology, Institute of Electronic Engineering and Nanotechnologies 'D. Ghitu', Academy of Sciences of Moldova NEW BIOLOGICAL SYSTEM FOR THE ISOLATION OF HUMAN AND ANIMAL VIRUSES , ZINAYIDA KLESTOVA, <u>IRYNA SAVINOVA</u> , State Scientific Control Institute of Biotechnology and Strains of Microorganisms, Kyiv, Ukraine

	<p>CHARACTERISTICS OF TH1 AND TH2 IMMUNE RESPONSE IN DIFFERENT FORMS OF DRUG RESISTANCE IN PATIENTS WITH PULMONARY TUBERCULOSIS, SERGHEI GHINDA, <u>NATALIA ZINCENCO</u>, ANGELA GUILA, ELENA PRIVALOV, Institute of Phthisiopneulology “Chiril Draganiuc, Republic of Moldova</p> <p>PECULIARITIES OF NANOPARTICLES ACTION ON <i>SACCHAROMYCES</i> AND <i>RHODOTORULA</i> YEASTS, USATÎI AGAFIA, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p> <p>HISTORY OF THE STUDY AND PRACTICAL USE OF ENTOMOPATHOGENIC MICROORGANISMS (TO THE MEMORY OF ACADEMICIAN E. G. AFRIKIAN), NATALIA KOLOTILOVA, Lomonosov Moscow State University, Russia</p>
<p>17.30– 20.00</p>	<p><u>Cultural program and diner:</u> Visit to the one of the famous Moldovan wine cellar.</p>
<p>13 OCTOBER, TUESDAY</p> <p><i>Venue: Hotel “Vila Verde” str. Grenoble 110, mun.Chisinau, Republica Moldova</i></p>	
<p>9.00 – 10.30</p> <p><u>Event Hall</u></p>	<p><u>Thematic session 1:</u></p> <p>● Red Biotechnology (Health, Medical, Diagnostics)</p> <p>STREPTOCOCCUS PNEUMONIAE – EPIDEMIOLOGY, RISK FACTORS AND EVOLUTION OF ANTIMICROBIAL RESISTANCE, <u>Balan G.</u>, Pușcaș N., Burduniuc A., Spînu C., Burduniuc O., Bortă V., Rudic V., State University of Medicine and Pharmacy „Nicolae Testemitanu”, Republic of Moldova, National Center of Public Health, Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p> <p>ANTIMICROBIAL AND ANTIFUNGAL EFFECT OF SOME BIOMETAL COORDINATION COMPOUNDS OF 5-NITRO-2-FURALDEHYDE 4-(METHOXYPHENYL) THIOSEMICARBAZONES, Gulea A., Zariciuc E., <u>Mitkevich N.</u>, <u>Tsapkov V.</u>, Cotovaia A., Rudic V., State University of Moldova, State University of Medicine and Pharmacy "Nicolae Testemitanu", Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p> <p>THE PARAMETERS OF THE IMMUNE SYSTEM IN PATIENTS WITH PULMONARY TUBERCULOSIS IN ASSOCIATION WITH TOXOCARIASIS UNDER THE INFLUENCE OF VARIOUS SCHEMES OF TREATMENT, Guila Angela, Ghinda Serghei, <u>Zincenco Natalia</u>, Chiroșca V., Institute of Phthisiopneulology “Chiril Draganiuc, Republic of Moldova</p> <p>APC-LIKE ACTIVITY OF <i>PURPUREOCILLUM LILACINUM</i> K1 EXTRACELLULAR PROTEASES, <u>Bobrovskaia A.</u>, Osmolovskiy A., Kurakov A., Lomonosov Moscow State University, Russian Federation</p>

	<p><u>Thematic session 2:</u></p> <p>● Yellow Biotechnology (Food Biotechnology, Nutrition Science)</p> <p>EFFECT OF DRYING CONDITIONS ON THE PHYSICAL PROPERTIES OF RED BEETROOT SAMPLES, <u>Liliana Ceclu</u> , Ana Berbec (Cîrchelan) , Oana-Viorela Nistor , Ludmila Rudi, Cahul State University "B.P.Hasdeu", „Dunarea de Jos" University of Galati, Romania, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p> <p>REQUIRED CHARACTERISTICS FOR YEAST STRAINS FOR THE PRODUCTION OF NATURAL WHITE TABLE WINES AND SPARKLING WINES WITH HIGH HYGIENIC PROPERTIES, <u>Soldatenko Olga</u>, Vasiucovici Svetlana, Morari Boris, Barsova Oxana, Scientific and Practical Institute of Horticulture and Food Technologies, Republic of Moldova</p> <p>THE TOTAL PHENOLS CONTENT AND THE ANTIOXIDANT CAPACITY OF DIFFERENT VARIETIES OF APPLES CULTIVATED IN THE TRANSYLVANIA AREA, <u>Anca Becze</u>, Dorina Simedru, Marius Roman, Lucian Dordai, INCDO-INOE2000, Research Institute for Analytical Instrumentation, ICIA Cluj-Napoca, Romania</p> <p>NEW <i>STREPTOCOCCUS THERMOPHILUS</i> STRAIN AS POTENTIAL AGENT FOR INCREASING BIO-SAFETY OF DAIRY PRODUCTS, <u>Cartasev Anatoli</u>, Rudic Valeriu, Practical Scientific Institute of Horticulture and Food Technology, Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p> <p>THE ANTIOXIDANT ACTIVITY OF THE MANNOPROTEIC PREPARATION OBTAINED FROM SACCHAROMYCES CEREVISIAE CNMN- Y-18 YEAST STRAIN, <u>Bejenaru Ludmila</u>, Rudi Ludmila, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p> <p>GOAT MILK AS A POTENTIAL SOURCE OF NEW PROSPECTIVE STRAINS OF LACTIC ACID BACTERIA, Rudic Valeriu, <u>Bogdan Nina</u>, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova, Practical Scientific Institute of Horticulture and Food Technology</p>
<p>10.30 –11.00</p>	<p><i>Coffee break</i></p>
<p>11.00 –12.30 <u>Event Hall</u></p>	<p><u>Thematic sessions 3, 4:</u></p> <p>● ● Blue and Green Biotechnology (Marine, Agricultural and Environmental Biotechnology)</p> <p>POSSIBILITIES OF BIOINSECTICIDES APPLICATION FOR BIOLOGICAL CONTROL OF LEPIDOPTERA IN AGRICULTURE AND FORESTRY, Aurelia Stingaci, Institute of Genetics, Physiology and Plant Protection, Academy of Sciences of Moldova</p> <p>CYANOBACTERIUM <i>CALOTHRIX ELENKINII</i> KOSSINSK. – A PROMISING SOURCE OF BIOACTIVE COMPOUNDS, <u>Trofim Alina</u>, Șalaru Victor, Zosim Liliana, Dobrojan Sergiu, Donțu Natalia, Stratulat Irina, Semeniuc Eugen Moldova State University</p>

	<p>INFLUENCE OF SOIL MOISTURE ON BIOLOGICAL NITROGEN FIXATION BY BLUE-GREEN ALGAE OF GENUS NOSTOC, <u>Dobrojan Sergiu</u>, Salaru Victor, Stratulat Irina, Dobrojan Galina, Moldova State University</p> <p>THE STUDY OF BIOLOGICAL NITROGEN FIXATION BY COMBINED CULTURES OF NOSTOC SPECIES, <u>Dobrojan Sergiu</u>, Salaru Victor, Stratulat Irina, Dobrojan Galina, Moldova State University</p> <p>THE USE OF DIGITAL IMAGING IN QUANTITATIVE MICROBIAL COUNTS, <u>Nikolaev A. N.</u>, Maksimova I. A., Nikolaeva S. I., Institute of Genetics, Physiology and Plant Protection, Academy of Sciences of Moldova</p> <p>ANTAGONISM OF <i>STREPTOMYCES FRADIAE</i> IN RELATION TO PHYTOPATHOGENIC MICROORGANISMS, Yulia Bereziuk, Svetlana Burtseva, Natalia Kolotilova , Maxim Byrsa, Institute of Microbiology and Biotechnology Academy Science of Moldova, Lomonosov Moscow State University</p> <p>ROLE OF SEED TREATMENT WITH ALGAL SUSPENSION ON DEVELOPMENT OF CUCUMBER PLANTS, <u>Donțu Natalia</u>, Șalaru Victor, Trofim Alina, Stratulat Irina, Moldova State University</p> <p>Fe (III) RECUPERATION FROM WASTE WATERS USING THE CYANOBACTERIUM <i>SPIRULINA PLATENSIS</i>, Rudic V., <u>Chiriac T.</u>, Cepoi L., Djur S., Loseva L., Anufric S., Nartea E., Zinicovscaia I., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova, State University of Grodno "Yanka Kupala" Belarus, Joint Institute for Nuclear Research, Dubna, Russia</p>
<p>12.30 –13.30</p>	<p>Networking Lunch (Hotel restaurant)</p>
<p>13.30 –15.30 <u>Event Hall</u></p>	<p><u>Thematic sessions 5,6:</u></p> <p>○ ● White and Gold Biotechnology (Gene-based Bioindustries, Bioinformatics, Nanobiotechnology)</p> <p>ROLE OF SIZE OF MAGNETITE NANOPARTICLES FOR TRIFLURALIN DETOXICATION IN WATER AND SOIL, <u>Inna Rastimesina</u>, Olga Postolachi, Valentina Vorona, Nina Streapan, Vera Mamaliga, Tatiana Gutul, Ion Dragalin, Institute of Microbiology and Biotechnology, Institute of Electronic Engineering and Nanotechnologies ”D.Ghitu”, Institute of Chemistry, Academy of Sciences of Moldova</p> <p>INFLUENCE OF ZnO NANOPARTICLES ON THE BIOMASS PRODUCTION AND CATALASE ACTIVITY OF THE YEAST <i>SACCHAROMYCES CEREVISIAE</i> CNMN-Y-20, Chiselița Natalia, Institute of Microbiology and Biotechnology of Academy of Sciences of Moldova</p> <p>ACTION OF N Fe₃O₄ NANOPARTICLES ON MICROMYCETES IN THE PRESENCE OF TRIFLURALIN, <u>Sirbu T.</u>, Moldovan C., Zop A., Gutsul T., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova, Institute of Electronic Engineering and Nanotechnologies, Academy of Sciences of Moldova</p>

	<p>PRODUCTIVITY AND CHEMICAL COMPOSITION OF YEAST <i>RHODOTORULA GRACILIS</i> CNMN-Y-30 CULTIVATED IN THE PRESENCE OF Fe₃O₄ NANOPARTICLES, <u>Beșliu Alina</u>, Usatîi Agafia, Chirița Elena, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p> <p>THE EFFECT OF DIMENSIONS OF ZINC OXIDE NANOPARTICLES ON BIOSYNTHESIS OF PROTEOLYTIC COMPLEX OF MICROMYCETE STRAIN <i>TRICHODERMA KONINGII</i> OUDEMANS CNMN FD 15, <u>Ciloci Alexandra</u>, Tiurina Jana, Labliuc Svetlana, Dvornina Elena, Clapco Steliana, Bivol Cezara, Gutul Tatiana, Nicorici Alexandr, Institute of Microbiology and Biotechnology, Institute of Electronic Engineering and Nanotechnology, Academy of Sciences of Moldova</p> <p>ESTIMATION OF SENSITIVITY OF FUNGAL AND STREPTOMYCETES STRAINS TO TRIFLURALIN AND Fe₃O₄ NANOPARTICLES, <u>Olga Postolachi</u>, Inna Rastimesina, Valentina Vorona, Vera Mamaliga, Nina Streapan, Tatiana Gutul, ¹Institute of Microbiology and Biotechnology, Institute of Electronic Engineering and Nanotechnologies “D.Ghitu”, Academy of Sciences of Moldova</p> <p>INFLUENCE OF NANOPARTICLES AND PERSISTENT ORGANIC POLLUTANTS ON BACTERIA GROWTH, Slanina Valerina, <u>Batir Ludmila</u>, Chiselita Oleg, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p> <p><i>Thematic session 7</i></p> <ul style="list-style-type: none"> ● Grey Biotechnology (Classical fermentation and Bioprocess Technology) <p>LIOPROTECTIVE POTENTIAL OF CYANOBACTERIAL EXTRACTS, <u>Chiselita Oleg</u>, Byrsa Maxim, Vasiliuc Anastasia, Burtseva Svetlana, Institute of Microbiology and Biotechnology, Academy of Science of Moldova</p> <p>BIOTECHNOLOGICAL IMPORTANCE OF SOME STRAINS OF GENUS <i>STREPTOMYCES</i>, Burtseva Svetlana, <u>Byrsa Maxim</u>, Nicola Sasanelli, Fabio Catalano, Institute of Microbiology and Biotechnology, Academy of Science of Moldova, Institute of Sustainable Plant Protection of National Research Council, Italy</p> <p>COMPOSITION OF THE POPULATION AND SURVIVAL OF STREPTOMYCETES AFTER LYOPHILIZATION AT DIFFERENT TEMPERATURE REGIMES, <u>Byrsa Maxim</u>, Vasiliuc Anastasia, Institute of Microbiology and Biotechnology, Academy of Science of Moldova</p> <p>β-CAROTENE INVOLVING IN FREE RADICALS ANNIHILATION IN SPIRULINA BIOMASS CULTIVATED UNDER THE OXIDATIVE STRESS CONDITIONS, Rudic V., <u>Rudi L.</u>, Chiriac T., Cepoi L., Miscu V., Codreanu S., Djur S., Valuța A., Iatsco Iu., Chelmenciuc V., Doni V., Rotaru M., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova</p>
<p>15.30 –16.30 <u>Event Hall</u></p>	<p><i>Poster session</i></p>
<p>16.30 –17.00 <u>Event Hall</u></p>	<p><i>Closing remarks, suggestions</i></p>

Poster presentations :

● Red Biotechnology (Health, Medical, Diagnostics)

AOPP CHANGES IN *IN VITRO* TESTING OF LOCAL REMEDIES IN PHYSIOLOGICAL CONDITION AND ASSOCIATED ASTHMA, Andronache Lilia, Tagadiuc Olga, Sardari Veronica , Mihalciuc Olga, Cepoi Liliana, „Nicolae Testemitanu” State University of Medicine and Pharmacy, Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

THE CONTEMPORARY METHODS OF ASCARIASIS AND ENTEROBIASIS DIAGNOSIS, Dreglea Filip, Lungu Vera, Florea Natalia, „Nicolae Testemitanu” State University of Medicine and Pharmacy, Republic of Moldova, National Center of Public Health, Republic of Moldova

NEWS IN THE TREATMENT OF INFECTIONS WITH LEPTOTRICHIA BUCCALIS – OPORTUNISTIC PATHOGEN OF INFLAMMATORY PROCESSES IN THE PERIODONTAL TISSUE, Florea Natalia, Draz Firas, „Nicolae Testemitanu” State University of Medicine and Pharmacy, Republic of Moldova

CAMPILOBACTER JEJUNI INFECTION REMAINS ONE OF THE MOST COMMON IDENTIFIED CAUSES OF ACUTE GASTROENTERITIS WORLDWIDE, Florea Natalia, Masoud Mohammad, „Nicolae Testemitanu” State University of Medicine and Pharmacy, Republic of Moldova

PARAMETERS OF HUMORAL IMMUNITY IN PATIENTS WITH TOXOCARIASIS, Ghinda S., Smeshnoi Valentina, Procopișin Larisa, Brumaru Albina, Rotaru Natalia, Institute of Phthisiopneumology „Chiril Draganiuc”, Republic of Moldova

IMMUNOLOGICAL REACTIVITY OF PATIENTS WITH PATHOLOGY OF THE RESPIRATORY SYSTEM IN COMBINATION WITH TOXOCARIASIS DEPENDING ON DURATION OF THE DISEASE AND THE AGE OF PATIENTS, Ghinda S., Smeshnoi Valentina., Zincenco Natalia, Rotaru-Lungu Carolina, Institute of Phthisiopneumology „Chiril Draganiuc”, Republic of Moldova

MORBIDITY ASSESSMENT THROUGH INFLUENZA AND FLU VACCINATION IN THE REPUBLIC OF MOLDOVA DURING THE PERIOD 2007-2015, Grumeza Maria, Druc Alina, National College of Medicine and Pharmacy”Raisa Pacalo”, Republic of Moldova

CORRELATION BETWEEN IL-5, EOSINOPHILIA AND AGE OF PATIENTS WITH PULMONARY TUBERCULOSIS IN COMBINATION WITH TOXOCARIASIS, Guila A., Ghinda S., Institute of Phthisiopneumology „Chiril Draganiuc”, Republic of Moldova

BACTERIOSTATIC AND BACTERICIDAL ACTIVITIES OF COBALT, NICKEL, AND COPPER COORDINATION COMPOUNDS OF SALICYLIDENE-4-(METHOXYPHENYL)THIOSEMICARBAZIDES, Gulea A., Zariciuc E., Mitkevich N., Damian I., Tsapkov V., Cotovaia A., Pahontu E., Rudic V., State University of Moldova, State University of Medicine and Pharmacy "Nicolae Testemitanu", University of Medicine and Pharmacy “Carol Davila”, Bucharest, Romania

THE STUDY OF ANTIMICROBIAL AND ANTITUMOR ACTIVITY OF BIOMETAL COORDINATION COMPOUNDS OF SUBSTITUTED SALICYLALDEHYDE 4-

ALLYLTHIOSEMICARBAZONES. Gulea A., Zariciuc E., Graur V., Tsapkov V., Rudic V., State University of Moldova, State University of Medicine and Pharmacy "Nicolae Testemitanu", Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

ANTIMICROBIAL AND ANTIFUNGAL ACTIVITIES OF SOME 3D METAL COORDINATION COMPOUNDS OF SALICYLALDEHYDE 4-ALLYL-S-ALKYLISOTHIOSEMICARBAZONE AND ITS DERIVATIVES, Gulea A., Zariciuc E., Usataia I., Graur V., Vasyuca M., Cernobai A., Tsapkov V., Rudic V., State University of Moldova, State University of Medicine and Pharmacy "Nicolae Testemitanu", Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

BIOLOGICAL, SOCIAL, EPIDEMIOLOGICAL CLINICAL AND RADIOLOGICAL RISK FACTORS ASSOCIATED WITH DRUG-RESISTANT TUBERCULOSIS TREATMENT FAILURE, Lesnic E., Chiruta A., Girleanu C., State University of Medicine and Pharmacy „Nicolae Testemitanu”, Republic of Moldova

INFLUENCE OF SULFATED POLYSACCHARIDES ON INTERLEUKIN-6 IN PHYSIOLOGICAL CONDITION AND ASSOCIATED ASTHMA, Mihalciuc Olga, Tagadiuc Olga, Valentin Gudumac, Valeriu Rudic, Tatiana Chiriac, „Nicolae Testemitanu” State University of Medicine and Pharmacy Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

MICROBIOLOGICAL, CLINICAL AND RADIOLOGICAL CHARACTERISTICS OF PATIENTS WITH POLI-RESISTANT PULMONARY TUBERCULOSIS, Niguleanu A., Lesnic E., Miron M., State University of Medicine and Pharmacy „Nicolae Testemitanu”, Republic of Moldova

POSSIBILITY OF PROTEINASES USAGE OF MICROSCOPIC FUNGUS *ASPERGILLUS OCHRACEUS* L-1 AS ESTIMATION OF FUNCTIONAL STATUS OF PROTEIN C AND FACTOR X, Orekhova A.V., Osmolovskiy A.A., Kreyer V.G., Lomonosov Moscow State University, Russian Federation

ANTIFUNGAL EXTRACTS FROM SPIRULINA BIOMASS. Oltu Iulian, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

INFLUENCE OF LOCAL BIOLOGICALLY ACTIVE COMPOUNDS ON PROTEIN METABOLISM IN EXPERIMENTAL HEPATOPATHY, Popa Veaceslav, Pantea Valeriana, Garbuz Olga, Şveţ Inna, „Nicolae Testemitanu” State University of Medicine and Pharmacy, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova, State University of Moldova

ANTIBACTERIAN AND ANTIFUNGAL PROPERTIES OF ALGAE PRODUCT BioR, Rudic Valeriu, Balan Greta, Cojocari Daniela, Lozan-Tirsu Carolina, Zariciuc Elena, State University of Medicine and Pharmacy „Nicolae Testemitanu”, Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova, National Center of Public Health, Republic of Moldova

LDH CHANGES IN *IN VITRO* TESTING OF THE LOCAL REMEDIES IN PHYSIOLOGICAL CONDITIONS AND ASSOCIATED ASTHMA, Sardari Veronica, Tagadiuc Olga, Popa Veaceslav, Cepoi Liliana, „Nicolae Testemitanu” State University of Medicine and Pharmacy, Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

INFLUENCE OF LOCAL BIOACTIVE COMPOUNDS ON CARBOHYDRATE METABOLISM IN CYCLOPHOPHAN INDUCED HEPATOPATHY, Tagadiuc Olga, Sardari Veronica, Pantea Valeriana, Chiriac Tatiana, „Nicolae Testemitanu” State University of Medicine and Pharmacy, Republic of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

CHARACTERISTICS OF CYTOKINE RESPONSE IN PATIENTS WITH PULMONARY TUBERCULOSIS UNDER THE INFLUENCE OF IMMUNE CORRECTIVE THERAPY, Zincenco Natalia, Ghinda S., Institute of Phthisiopneumology „Chiril Draganiuc”, Republic of Moldova

● **Yellow Biotechnology (Food Biotechnology, Nutrition Science)**

CRANBERRIES (*VACCINUM VITIS IDAEA*) POTENTIAL TO DEVELOP NEW FUNCTIONAL DAIRY DESSERTS, Doina Georgeta Andronoiu, Oana-Viorela Nistor, Gabriel-Dănuț Mocanu, Florentina Mihaela Ursache (Strîmbei), Viviana Monica Matei (Bujeniță), Elisabeta Botez, „Dunarea de Jos” University of Galati, Romania, „Elena Doamna” Food Industry College, Galati, Romania

DETERMINATION OF ADHESION ACTIVITY OF LACTIC ACID BACTERIA BY WESTERN - BLOT ANALYSIS, Bekenova E., Moldagulova A., Shaikhina S., Abilkhadirov A., Shaikhin S., Abzhalelov A., Republican Collection of Microorganisms, Astana, Kazakhstan

THE EFFECT OF SOME COORDINATION COMPOUNDS OF GERMANIUM AND COPPER ON GLYCEROL ACCUMULATION IN BIOMASS OF GREEN MICROALGA *DUNALIELLA SALINA*, Bivol C., Zosim L., Elenciuc D., Batîr L., Djur S., Institute of Microbiology and Biotechnology of ASM, Moldova State University, University of the Academy of Sciences of Moldova

STREPTOCOCCI SPECIFIC TO THE DIGESTIVE TRACT AND OPPORTUNITIES FOR THEIR INCLUSION IN PROBIOTICS, Bogdan Victoria, Timoșco Maria, Codreanu Svetlana, Institute of Physiology and Sanocreatology, Academy of Sciences of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova.

BIOELEMENT CONTROL OF FOOD AND MEDICINAL PLANTS BY THE METHOD OF AN X-RAY FLUORESCENCE ANALYSIS, Tatyana Krupskaya, Yanka Kupala State University of Grodno, Republic of Belarus

BIFIDOBACTERIA WITH B-GALACTOSIDASE ACTIVITY AS THE BASIS FOR THE PROPBIOTIC PREPARATION, Morozova Antonina, Golovnyova Natalya, Ryabaya Natalya, Institute of Microbiology, National Academy of Sciences, Belarus, Minsk

NEW TECHNOLOGICAL AND NUTRITIONAL IMPROVING OF PORK BAKED PRODUCTS REFORMULATED WITH PROTEIN EMULSIONS BASED ON DRIED TOMATOES, Oana-Viorela Nistor, Doina Georgeta Andronoiu, Gabriel-Dănuț Mocanu, Elisabeta Botez, „Dunarea de Jos” University of Galati, Romania

THE EFFECT OF CRANBERRIES (*VACCINUM VITIS IDAEA*) SUPPLEMENTATION ON PHYSICOCHEMICAL, TEXTURAL AND SENSORIAL PROPERTIES OF ICE CREAM, Oana-Viorela Nistor, Doina Georgeta Andronoiu, Gabriel-Dănuț Mocanu, Florentina Mihaela Ursache (Strîmbei), Maria Stoica-Chirica (Pletea), Elisabeta Botez, „Dunarea de Jos” University of Galati, Romania, „Elena Doamna” Food Industry College, Galati, Romania

CASEINOLYTIC ACTIVITY OF NEW STRAINS OF LACTIC ACID BACTERIA ISOLATED FROM NATURAL SOURCES, Ryabaya Natalya, Golovnyova Natalya, Samartsev Andrew, Institute of Microbiology, National Academy of Sciences, Belarus

PROPERTIES OF *LACTOCOCCUS LACTIS* STRAINS ISOLATED FROM SELF-FERMENTED DAIRY PRODUCTS IN BELARUS, Safonova M., Naidenko I., Institute of Microbiology, National Academy of Sciences, Minsk, Belarus

PHYSIOLOGICAL AND BIOCHEMICAL PROPERTIES OF NEW STRAINS OF LACTIC ACID BACTERIA ISOLATED FROM COW MILK, Shchatko Vitaly, Golovnyova Natalya, Institute of Microbiology, National Academy of Science of Belarus, Minsk, Belarus

THE INFLUENCE OF FOOD ADDITIVES ON THE NUMBER OF INDIVIDUAL REPRESENTATIVES OF INTESTINAL MICROFLORA, Timoshko M., Strutinsky T., Strokova V., Institute of Physiology and Sanocreatology, Academy of Sciences of Moldova

THE COMPARISON OF SEPARATE GENERA OF INTESTINAL BACTERIAS OF CHILDRENS IN DEPENDENCE OF HEALTH STATUS, Velciu Aliona, Timoșco Maria, Institute of Physiology and Sanocreatology of ASM

THE ELECTROPHYSICAL PROCESSING FOR OBTAINING SAFE AND HEALTHY PRODUCTS, Vrabie Elvira, Stepurina Tatiana, Vrabie Valeria, Sprâncean Cătălina, Paladii Irina, Institute of Applied Physics, Academy of Sciences of Moldova, Moldova State University, Institute of Physiology and Sanocreatology, , Academy of Sciences of Moldova.

●● Blue and Green Biotechnology (Marine, Agricultural and Environmental Biotechnology)

ENVIRONMENTAL HEALTH AND MICROBIAL BIOTECHNOLOGY, Ion Agapi, Botanical Garden (Institute), Academy of Sciences of Moldova

SPECIES SPECIFICITY OF THE FARM ANIMALS GAMETE IN THE PROCESS OF CRYOPRESERVATION, Balan Ion, Boronciuc Gheorghe, Rosca Nicolae, Cozari Sergiu, Buzan Vladimir, Mereuta Ion, Cazacov Iulia, Bucarciuc Melania, Didilica Ina, Institute of Physiology and Sanocreatology, Academy of Sciences of Moldova

OPPORTUNITIES OF IMPROVING THE EFFICIENCY OF CRYOPRESERVATION OF ROOSTER GENOME, Balan Ion, Boronciuc Gheorghe, Rosca Nicolae, Buzan Vladimir, Mereuta Ion, Cazacov Iulia, Bucarciuc Melania, Zaicenco Nadejda, Institute of Physiology and Sanocreatology of the Academy of Sciences of Moldova

LIPID COMPOSITION OF BIOLOGICAL MEMBRANES DURING THE CRYOPRESERVATION OF GAMETES, Balan Ion, Boronciuc Gheorghe, Rosca Nicolae, Buzan Vladimir, Mereuta Ion, Cazacov Iulia, Bucarciuc Melania, Varmari Grigore, Institute of Physiology and Sanocreatology of the Academy of Sciences of Moldova

POLYPEPTIDE SPECTRUM FROM THE SUMMARY PROTEINS FRACTION EXTRACTED FROM SPIRULINA BIOMASS CULTIVATED IN THE PRESENCE OF

THE COORDINATION COMPOUNDS OF CU(II), Batir Ludmila, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

INFLUENCE OF THE MEDIUM OF CULTIVATION ON ANTIMICROBIAL CHARACTERISTICS OF STRAIN STREPTOMYCES FRADIAE , Yulia Bereziuk, Institute of Microbiology and Biotechnology Academy Science of Moldova

THE ANALYSIS OF NUMBER OF ECOLOGICAL-TROPHIC GROUPS OF MICROORGANISMS IN GROUNDWATER FROM THE AREA OF PETRO-DEVELOPMENT, Buzmakov S.A., Egorova D.O., Perm State University, Russia, Institute of Ecology and Genetics of Microorganisms, Ural Branch of the RAS, Perm, Russia

MICROORGANISMS DYNAMICS IN THE PROCESS OF BIO HUMUS FORMATION, Mariana Caraman, Roman Moscalic, Scientific and Practical Institute of Biotechnologies in Animal Husbandry and Veterinary Medicine, Republic of Moldova

ABILITY OF MODERATELY HALOPHILIC MICROORGANISMS TO GROW ON MURAL PAINTINGS IN SOME HISTORICAL MONUMENT CHURCH, Roxana Cojoc, Simona Neagu, Ioana Gomoiu, Mădălin Enache, Doina Codreanu – Bălcescu, Institute of Biology Bucharest of the Romanian Academy, Bucharest, Romania

CHARACTERISTICS OF BIOCOMPOST OBTAINED BY USING EFFICIENT MICROORGANISMS, Cremeneac L., Boclaci T., Scientific and Practical Institute of Biotechnology in Animal Husbandry and Veterinary Medicine, Republic of Moldova

THE ASSESSMENT OF THE ROLE OF EFFICIENT MICROORGANISMS IN THE BIOCONVERSION PROCESS OF UNFERMENTED CATTLE MANURE, Cremeneac L., Boclaci T., Scientific and Practical Institute of Biotechnology in Animal Husbandry and Veterinary Medicine

DEGRADATION OF DDT BY THE AEROBIC BACTERIAL COMMUNITIES IN THE EXPERIMENT WITH WASHED CELLS, Egorova D.O., Institute of Ecology and Genetics of Microorganisms, Ural Branch of the RAS, Perm, Russia

BIOTECHNOLOGICAL WAYS FOR INCREASING THE MICROALGAE EFFICIENCY AS SOURCES FOR LIPID SOLUBLE SUBSTANCES AND BIOFUEL OBTAINING, Andrii Gryganskyi, Liliana Cepoi, Duke University, Durham, NC, USA, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

MICROBIAL BIODEGRADATION OF PHENOL COMPOUNDS AND PETROLEUM PRODUCTS IN THE DNIESTER RIVER AND DUBOSSARY RESERVOIR, Olga Jurminskaia, Maria Negru, Institute of Zoology, Academy of Sciences of Moldova

APPLICATION OF PLANT GROW-PROMOTING RHIZOBACTERIA FOR “NO-TILL” AGRICULTURAL STRATEGY, Lemanova N.B., Stratulat T., Institut of Genetics, Physiology and Plant Protection, Academy of Sciences of Moldova

THE IMPACT OF A LOCAL PRODUCT ON THE FUNCTIONAL STATE OF LIVER OF PREGNANT AND LACTATING RABBITS, Macari Vasile, Mațencu Dumitru, Didoruc Sergiu, Rotaru Ana, State Agrarian University of Moldova

THE IMPACT OF THE BioR REMEDY ON THE SERUM LEVEL OF CARNOSINE IN

DIFFERENT PHYSIOLOGICAL STATES IN DOE RABBITS, Macari Vasile, Mațencu Dumitru, Rotaru Ana, Putin Victor, Didoruc Sergiu, State Agrarian University of Moldova

THE IMPACT OF THE REMEDY BIOR ADMINISTERED IN DIFFERENT REGIMES ON PROTEIN METABOLISM AND PRODUCTIVITY IN RECONDITIONED QUAILS, Macari Vasile, Pavlicenco Natalia, Rotaru Ana, Putin Victor, State Agrarian University of Moldova

ASPECTS OF THE FUNCTIONAL STATUS OF LIVER IN QUAILS TREATED WITH BIOR IN DIFFERENT REGIMES, Macari Vasile, Pavlicenco Natalia, Rotaru Ana, Putin Victor, Efimenco Varvara, State Agrarian University of Moldova

SYMBIOTIC PROPERTIES OF BACTERIA ISOLATED FROM ROOT NODULES OF BLACK LOCUST, Melnykova N., Ferus P., Bosiakova D., Kots S., Institute of Plant Physiology and Genetics, National Academy of Sciences of Ukraine, Institute of Forest Ecology, Slovak Academy of Sciences, University of Constantine the Philosopher, Slovak Republic

EFFECTIVENESS OF PENICILLIUM EXOMETABOLITES AGAINST PATHOGENS, Moldovan C., Sirbu T., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

THE STRAIN OF FILAMENTOUS FUNGUS *TRICHODERMA VIRIDE* PRODUCING A COMPLEX OF FEED CARBOHYDRASES, Moroz I.V., Lobanok A.G., Institute of Microbiology, NAS Belarus

ASSOCIATION OF LINDANE DESTRUCTOR MICROORGANISMS ISOLATED FROM SOIL, LONG-TERM CONTAMINATED BY ORGANOCHLORINE PESTICIDES, Nazarova E.A., Egorova D.O., Institute of Ecology and Genetics of Microorganisms, Ural Branch of the RAS, Perm, Russia

THE IMPACT OF Fe_3O_4 NANOPARTICLES AND RHIZOBACTERIA ON PLANT GROWTH IN SOIL TREATED WITH TRIFLURALIN, Onofras L., Rastimesina I., Prisacari S., Todiras V., Lungu A., Corcimaru S., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

SORPTION OF ZINC TRACE AMOUNTS FROM WASTE WATERS USING THE SPIRULINA BIOMASS, Rudic V., Chiriac T., Cepoi L., Djur S., Dumbrăveanu V., Doni V., Loseva L., Anufric S., Nartea E., Zinicovscaia I., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova, State University of Grodno "Yanka Kupala" Belarus, Joint Institute for Nuclear Research, Dubna, Russia

COMPARATIVE CHARACTERIZATION OF EXOHYDROLASES FROM *BACILLUS AMYLOLIQUEFACIENS* SUBSP. *AMYLOLIQUEFACIENS* AS POTENTIAL FEED ADDITIVES, Sapunova L.I., Kulish S.A., Tamkovich I.O., Lobanok A.G., Institute of Microbiology, Belarus National Academy of Sciences

INFLUENCE OF THE SEED PRE-TREATMENT WITH BIOPREPARATION GLIOCLADIN-SC ON THE CABBAGE SEEDLINGS DEVELOPMENT, Scerbacova T. I., Lungu A.A., Institute of Genetics, Physiology and Plant Protection, Academy of Sciences of Moldova

COMPARATIVE EVOLUTION OF GROWTH OF THE BACTERIAL STRAINS *BACILLUS SUBTILIS* S2 AND S4 ON DIFFERENT NUTRIENT MEDIA, Victoria Shubina, Svetlana Boortseva, Leonid Volosciuc, Institute of Genetics, Physiology and Plant Protection, Academy of Science of Moldova, Institute of Microbiology and Biotechnology, Academy of Science of Moldova

MINERAL COMPOSITION OF NOSTOC FLAGELLIFORME BIOMASS ON CULTIVATION IN SOIL EXTRACT MEDIUM, Stratulat I., Șalaru V., Dobrojan S., Dobrojan G., Donțu N., Trofim A., Moldova State University

CYANOBACTERIA - NEW MATERIALS FOR WASTEWATER TREATMENT, Inga Zinicovscaia, Joint Institute for Nuclear Research, Dubna, Russia, “Horia Hulubei” National Institute for R&D in Physics and Nuclear Engineering, Bucharest, Romania

○ ● **White and Gold Biotechnology**

(Gene-based Bioindustries, Bioinformatics, Nanobiotechnology)

THE INFLUENCE OF TiO₂ NANOPARTICLES ON CELL PROLIFERATION AND PRODUCTIVITY OF YEAST *RHODOTORULA GRACILIS* CNMN-Y-30, Beșliu Alina, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

THE EFFECT OF DIMENSIONS OF IRON OXIDE NANOPARTICLES ON BIOSYNTHESIS OF EXOCYLLULAR PROTEASE OF MICROMYCETE STRAIN *FUSARIUM GIBBOSUM* CNMN FD 12, Ciloci Alexandra, Tiurina Jana, Clapco Steliana, Bivol Cezara, Labliuc Svetlana, Dvornina Elena, Gutul Tatiana, Rusu Emil, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova, Institute of Electronic Engineering and Nanotechnology, Academy of Sciences of Moldova

THE ANTIBACTERIAL EFFICACY OF TITANIUM DIOXIDE NANOPARTICLES AGAINST HALOPHILIC BACTERIA ISOLATED FROM MURAL PAINTINGS, Simona Neagu, Roxana Cojoc, Mădălin Enache, Ioan Ardelean, Ioana Gomoiu, Institute of Biology Bucharest of the Romanian Academy, Bucharest, Romania

EFFECT OF NANOPARTICLES ON THE VIABILITY OF FUNGUS *PENICILLIUM FUNICULOSUM* - PRODUCER OF CATALASE, Sirbu T., Maslobrod S.N., Mirgorod Yu.A., Borodina V.G., Borsch N.A., Ageeva L.S., Institute of Microbiology and Biotechnology, Institute of Genetics, Physiology and Plant Protection, Academy of Sciences of Moldova, Southwest State University, Kursk, Russia

● **Grey Biotechnology**

(Classical fermentation and Bioprocess Technology)

ANTIOXIDATIVE ACTIVITY AND B-CAROTENE SYNTHESIS IN BIOMASS OF GREEN ALGAE *DUNALEILLA SALINA*, Cepoi L., Rudi L., Chiriac T., Cioban M., Miscu V., Iațco Iu., Sadovnic D., Dumbrăveanu V., Chelmenciuc V., Doni V., Rotaru M., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

CHLOROPHYLL/CAROTENE PIGMENTS AMOUNT RATIO IN *DUNALIELLA SALINA* BIOMASS DURING THE LIFE CYCLE, Cepoi L., Rudi L., Chiriac T., Cioban M., Miscu V., Iațco Iu., Sadovnic D., Dumbrăveanu V., Chelmenciuc V., Doni V., Rotaru M., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

PRODUCTION OF L-LACTIC ACID BY ACID-RESISTANT STRAIN *ENTEROCOCCUS FAECALIS* UNDER CONTROLLED CONDITIONS, Golovnyova Natalya, Schatko Vitaly, Samartsev Andrey, Buko Andrey, Institute of Microbiology, National Academy of Sciences, Belarus, Minsk

THE STUDY OF ANTIOXIDANT ACTIVITY OF POLYOXOMETALATES CONTAINING CROWN ETHERS, T. Gutul, L.Rudi, L.Cepoi, A.Mirzac, P.Petrenko, M. Revenco, Institute of Electronic Engineering and Nanotechnologies 'D.Ghitu', Academy of Sciences of Moldova, Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova, Institute of Applied Physics, Academy of Sciences of Moldova

β -CAROTENE SYNTHESIS IN SPIRULINA BIOMASS DURING THE CULTIVATION AT ILLUMINATION STRESS CONDITIONS, Rudic V., Rudi L., Chiriac T., Cepoi L., Miscu V., Codreanu S., Iatsco Iu., Sadovnic D., Ghelbet V., Valuta A., Doni V., Cioban M., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

SULFATED POLYSACCHARIDES AS AGENTS FOR FREE RADICALS ANNIHILATION IN SPIRULINA BIOMASS CULTIVATED UNDER THE INDUCED ILLUMINATION STRESS CONDITIONS, Rudic V., Rudi L., Chiriac T., Cepoi L., Miscu V., Codreanu S., Djur S., Valuța A., Sadovnic D., Ghelbet V., Dumbrăveanu V., Chelmenciuc V., Doni V., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

β -CAROTENE SYNTHESIS IN *SPIRULINA PLATENSIS* CULTIVATED UNDER THE INDUCED THERMAL STRESS CONDITIONS, Rudic V., Rudi L., Chiriac T., Cepoi L., Miscu V., Codreanu S., Djur S., Valuța A., Sadovnic D., Ghelbet V., Chelmenciuc V., Doni V., Băț C., Institute of Microbiology and Biotechnology, Academy of Sciences of Moldova

DEVELOPMENT OF COMBINED BIOLOGICAL PRODUCTS BASED ON LACTIC ACID BACTERIA AND PLANT EXTRACTS, Sarmurzina Z.S., Bissenova G.N., Zakarya K.D., Dospaeva R.T., Golovnyova N.A., Abjalelov A.B., Republican Collection of Microorganisms, Astana, Kazakhstan, Institute of Microbiology, Minsk, Belarus

THE INFLUENCE OF VARIOUS YEAST SPECIES ON PHYSICAL-CHEMICAL CHARACTERISTICS AND ON STABILITY TO DIFFERENT CASSES IN WHITE DRY WINES, Nicolae Taran, Eugenia Soldatenco, Olga Soldatenco, Svetlana Vasiucovich, Oxana Hristeva, PI "Scientific and Practical Institute of Horticulture and Food Technologies", Republic of Moldova