

Международная конференция

**МИКРОБНОЕ РАЗНООБРАЗИЕ:
состояние, стратегия сохранения,
экологические проблемы**

ТЕЗИСЫ ДОКЛАДОВ

8 - 11 октября 1996 г.
Пермь, Россия

ICOMID' 96

International Conference

**MICROBIAL DIVERSITY:
current situation, conservation strategy,
and ecological aspects**

ABSTRACTS

8 - 11 October, 1996
Perm, Russia

*Уральское отделение Российской академии наук
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Региональная профилированная коллекция алканотрофных
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Напиер университета*

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*Ural Branch of the Russian Academy of Sciences
Institute of Ecology and Genetics of Microorganisms
Regional Specialised Collection of Alkanotrophic
Microorganisms
Perm Regional Environmental Protection Committee
Environmental Pollution Research Group, Department
of Biological Sciences, Napier University*

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Microbial diversity: current situation, conservation strategy, and ecological aspects. Proceedings of the Int. Conf., 8-11 Oct., 1996, Perm/ Institute of Ecology and Genetics of Microorganisms, Ural Branch, Russian Academy of Sciences — Perm, 1996 — 276 pp.

A book of current scientific and practical papers on the problems of origin, estimation, changes and conservation of microbial diversity of ecosystems of natural and technogenic areas.

Methodological aspects and procedures for *ex situ* and *in situ* identification of microorganisms, direct methods of molecular-biological analysis of microbial communities and their components are considered. New data on physiological-biochemical mechanisms of bacterial adaptation, on changes in the specific, genetic and physiological diversity as a response to stress and ecological disturbances are discussed. Papers that consider communities of extremophiles evolving in the unusual habitats, purposeful introduction of novel (not only genetically modified) microorganisms into the environment, and plasmid transfer under natural conditions are included in the book. A number of reports deals with bioresources and databases maintained in the Russian and some foreign microbiological collections of different scale and specialization. The need of developing the diagnostics strategy and therapy of disbalance in the microbial diversity in the clinical experience is stressed.

Proceeding are of interest for experts in the spheres of prokaryotology, biogeocenology, and biotechnology.

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Contents

STATE MICROBIAL DEPOSITORY CENTRE OF ARMENIA Afrikian, E.G.	147
ESTIMATION OF THE ABILITY OF MICROORGANISMS FOR MINERALIZATION OF ORGANIC POLLUTANTS ON THE BASIS OF SIMILARITIES BETWEEN THE STRUCTURES OF POLLUTANTS AND SECONDARY METABOLITES. HYPOTHESIS Akimenko, V.K.	147
CATALOGING OF SOIL BACTERIA EX SITU AND IN SITU Akimov, V.N., Hattori, T.	148
THE EFFICIENCY OF CHITINOLYTIC BACTERIA OF THE GENUS BACILLUS TO PROTECT PHYTOPHTORA INFECTION ON POTATO Aktuganov, G.E., Isaev, R.F., Melentjev, A.I., Yamaleev, A.M.	148
USE OF RHODOCOCCUS RUBER TO PROMOTE DEGRADATION OF DIALLYLISOPHTHALATE Aleshchenkova, Z.M., Syomochkina, N.F., Shcherbina, A.N., Samsonova, A.S.	149
BIOREMEDIATION OF OIL SPILLS Atlas, R.M.	150
MEASUREMENT OF MICROBIAL COMMUNITY DIVERSITY: GENETIC AND SPECIES DIVERSITY RESPONSES TO ECOLOGICAL DISTURBANCES Atlas, R.M.	150
EXPERIMENTAL SIMULATION OF PROCESSES CONCERNING OIL COMPOUNDS BIOGEOCHEMICAL TRANSFORMATION Bachurin, B.A., Odintzova, T.A.	151
IDENTIFICATION OF BACTERIA OF THE GENUS RHODOCOCCUS BY SPECIFIC DNA AMPLIFICATION Bell, K.S., Kuyukina, M.S., Christoff, N., Ivshina, I.B., Philp, J.C., Aw, D.W.J.	151
TWO-PHASE MECHANISM OF SULFUR OXIDATION BY THIOBACILLI Belyi, A.V., Gurevich, Y.L., Pustoshilov, P.P.	152
RECOMBINANT MER OPERON AS A RESULT OF ENVIRONMENTAL HORIZONTAL GENE TRANSFER Bogdanova, E.S., Bass, I.A., Minakhin, L.S., Volodin, A.A., Petrova, M.A., Tiedje, J.M., Nikiforov, V.G.	153

METABOLITES AND THE DYNAMICS OF METHAPHOS BIODEGRADATION BY SOIL MICROFLORA	153
Bogushevsky, A.N., Grouzman, N.V., Plyasunova, L.V.	
EVALUATION OF GEM INTRODUCTION RISK IN THE ENVIRONMENT USING LABORATORY MICROCOSMS	154
Brilkov, A.V., Baranova, E.A., Ganusov, V.V., Fishov, V.V., Popova, L.Y., Kargatova, T.V., Maksimova, E.E., Pechurkin, N.S.	
THE USE OF NUCLEOTIDE AND AMINO ACID SEQUENCE ANALYSIS OF SOME GENES AND PROTEINS ENCODED BY THESE GENES TO DETERMINE THE EVOLUTIONARY DISTANCE BETWEEN MICROORGANISM'S SPECIES OF THE GENUS BACILLUS	155
Chemeris, A.V., Bikbulatova, S.M., Usanov, N.G., Vakhitov, V.A.	
CONSEQUENCES OF THE LOSS OF MICROBIAL DIVERSITY IN THE HUMAN ORGANISM	156
Chereshnev, V.A., Morova, A.A., Chereshneva, M.V., Ikonnikova, G.V.	
TO PRESERVATION OF THE MICROBIAL BIODIVERSITY OF A HUMAN ORGANISM	156
Chereshnev, V.A., Morova, A.A., Chereshneva, M.V., Ikonnikova, G.V.	
PHOSPHATE-ACCUMULATING MICROORGANISMS IN TECHNOGENOUS ECOSYSTEMS AND NATURAL WATERS	157
Chikin, S.M.	
STUDYING THE LINKS BETWEEN THE AGROBACTERIAL ATTACHMENT AND T-DNA TRANSFERRING PROCESSES	158
Chumakov, M.I., Solovova, G.K., Kurbanova, I.V., Kalaptur, K.B., Velikov, V.A., Panasenko, V.I.	
PECULIARITIES OF DIETZIA MARIS CELL DIVISION	159
Churilova, N.S., Berdichevskaya, M.V., Soifer, J.G.	
SULFATE-REDUCING BACTERIA — NEW BIOLOGICAL CATALYSTS	159
Davydova, M.N., Mukhitova, F.G., Tarasova, N.B., Mityashina, S.Yu.	
CULTURE COLLECTIONS AND THE MICROBIAL BIODIVERSITY CHALLENGE	160
De Brabandere, J.	
ENDOGENIC AND EXOGENIC DETERMINATION OF STAPHYLOCOCCAL DIVERSITY BY THE SPECTRA OF THEIR ABILITIES TO INACTIVATE A NUMBER OF FACTORS OF NATURAL ANTIINFECTIONOUS RESISTANCE (FNR)	161
Deryabin, D.G.	

ULTRASTRUCTURAL AND IMMUNOCYTOCHEMICAL INVESTIGATION ON LISTERIA MONOCYTOGENES WITH DIFFERENT LEVELS OF PHOSPHATIDYL-INOSITOL SPECIFIC PHOSPHOLIPASE C SYNTHESIS	162
Didenko, L.V., Konstantinova, N.D., Varfolomeeva, N.A., Ermolaeva, S.A., Tartakovskii, I.S.	
BIOSURFACTANT-PRODUCING STRAIN	162
Dmitrieva, T.V., Turkovskaya, O.V.	
TAXONOMIC DIVERSITY OF CORYNEFORM BACTERIA ISOLATED FROM CEREAL PLANTS	163
Dorofeeva, L.V., Lysanskaya, V.Y., Adanin, V.M., Zelenkova, N.F., Dobrovolskaya, T.G., Subbotin, S.A., Evtushenko, L.I.	
MODERN SYSTEMATICS OF ACTINOMYCETES AND RELATED BACTERIA	164
Evtushenko, L.I.	
CITRINOSPORA PLICATA, A NEW GENUS AND SPECIES OF ACTINOMYCETES	165
Evtushenko, L.I., Taran, V.V., Streshinskaya, G.M., Kozlova Yu.I., Konovalova, S.M., Adanin, V.M., Zelenkova, N.F.	
MICROBIAL METABOLISM OF CUMENE HYDROPEROXIDE	165
Fjedorov, A.Y., Volchenko, E.V., Romanova, T.A., Singirtsev, I.N.	
TO THE POSSIBILITY OF BIOGENOUS FORMATION OF A HEMATITE	166
Filina, N.Y., Verkhovtseva, N.V.	
LOWERING OF FOAM FORMATION IN AEROBIC PURIFICATION OF WASTES OF A PIG-BREEDING COMPLEX	167
Florova, S.I., Ilarionov, S.A., Titova, A.V.	
BIOMARKERS OF ULTRA DEEP BOREHOLES	167
Frick, M.G., Belokon, T.V., Kalatchnikova, I.G., Ilarionov, S.A.	
THE ROLE OF A MICROBIAL FACTOR IN THE ACID MINE WATERS' GENESIS	168
Gorshkov, V.A.	
BIODEGRADATION OF POLYCHLORINE-BIPHENYLS BY A MICROBIAL COMMUNITY	168
Grigorjeva, N.V., Avakyan, Z.A., Karavaiko, G.I.	
METHAPHOS EFFECT ON VARIOUS GROUPS OF SOIL MICROORGANISMS	169
Grouzman, N.V., Bogushevsky, A.N.	
LECTINS AS MOLECULAR MARKERS OF PROTEIN-CARBOHYDRATE INTERACTION EVOLUTION: FROM MICROORGANISMS TO MAMMALIAN	170
Gruden, M.A., Shumova, E.A., Sherstnev, V.V.	

PLURALITY IN WATER TREATMENT PROCESSES	170
Gurevich, Y.L., Ladygina, V.P., Teremova, M.I.	
MICROBIOLOGICAL INVESTIGATION OF CORE SAMPLES FROM RUSSIAN SUPER DEEP BOREHOLES	171
Ilarionov, S.A., Oborin, A.A., Pevzner, L.A., Belokon, T.V., Bachta, K.G., Seleznyov, I.A., Khmurchik, V.T., Rubinstein, L.M.	
EVALUATION OF SOIL SAMPLE MUTAGENICITY IN MONITORING OF ENVIRONMENT	172
Ilinskaya, O.N., Ivanchenko, O.B., Cherepneva, I.E., Karamova, N.C., Kostjuevich, I.I.	
ALKANOTROPHIC RHODOCOCCHI: DIVERSITY, DETECTION, AND IDENTIFICATION	172
Ivshina, I.B.	
REGIONAL SPECIALISED COLLECTION OF ALKANOTROPHIC MICROORGANISMS	173
Ivshina, I.B., Kamenskikh, T.N., Kuyukina, M.S., Lyapunov, Y.E.	
INFORMATION RESOURCES OF MICROBIAL CULTURE COLLECTIONS	174
Kalakoutskii, L.V., Mazanov, A.L.	
CULTURE MEDIUM EFFECT ON THE GROWTH OF BIFIDOBACTERIUM POPULATION	175
Kalinina, T.E., Ternovskaya, L.N., Shepcev, A.P.	
CONSERVATION AND GUARANTEED PRESERVATION OF THE GENUS RHODOCOCCUS COLLECTION CULTURES	176
Kamenskikh, T.N., Ivshina, I.B.	
ACTINOMYCETES AND CORYNEFORM BACTERIA FROM ANCIENT PERMAFROST SOILS	177
Karasev, S.G., Shershunov, I.N., Gurina, L.V., Lysanskaya, V.Y., Gilichinsky, D.A., Evtushenko, L.I.	
ON THE FLOW OF FLUID SPREADING IN THE STRUCTURAL ENVIRONMENT AND ON POSSIBLE MECHANISM OF MICROORGANISMS' MIGRATION OVER THE SURFACE LAYER OF WATER RESERVOIRS	177
Kazanski, A.B., Anisimova, E.P., Petrenko, N.V., Speranskaya, A.A.	
COMPREHENSIVE METHOD OF IRON REMOVAL FROM CERAMIC RAW MATERIAL USING MICROORGANISMS	178
Khaliullova, R.A., Platov, Y.T., Avakyan, Z.A., Turova, E.S., Karavaiko, G.I., Maslennikova, G.N.	

ANALYSIS OF METAL IONS-INDUCED POLYPEPTIDE SYNTHESIS IN THE PHOTOTROPHIC BACTERIUM SYNECHOCYSTIS AQUATILIS	178
Khasanova, L.A., Khasanova, Z.M., Guimalov, F.R., Allagulova, C.A., Chemeris, A.V., Vakhitov, V.A., Collery, P., Choisy, C., Etienne, J.C.	
SEASONAL BACTERIAL ACTIVITY AND BACTERIA OF A NITROGEN CYCLE IN THE PALEOZOIC AQUIFERS	179
Khmurchik, V.T., Ilarionov, S.A.	
BIOLOGICAL CONTROL OF FUNGAL DISEASES AND PESTS USING BACTERIA OF THE GENUS PSEUDOMONAS	180
Ki prianova, E.A., Garagulya, A.D., Dodatko, T.A., Coral, V.M., Lappa, N.V., Smirnov, V.V.	
THE MATERIAL FOR STORAGE OF VIABILITY OF FUNGI CULTURES IN LABORATORY CONDITIONS	181
Kochetkov, V.V.	
THERMOPHILIC MICROORGANISMS OF THE UNDERGROUND HYDROBIOSPHERE	181
Kondakova G.V., Verkhovtseva, N.V.	
PRODUCTION OF AN ANTISTAPHYLOCOCCI PROTEIN BY GRAM-POSITIVE COCCI	182
Korobov, V.P., Lemkina, L.M.	
BIOSYNTHESIS OF TREHALOSE LIPIDS IN S- AND R-VARIANTS OF RHODOCOCCUS ERYTHROPOLIS	183
Koronelli, T.V., Komarova, T.I., Porshneva, O.V.	
MICROBIAL METHOD FOR REFINING OF OIL SHALE TREATMENT WASTES	184
Korzhenevich, V.I., Fjedorov, A.Y., Singirtsev, I.N., Shoob, G.M.	
LACTIC BACTERIA ECOTYPES, THEIR SYSTEMATIC POSITION AND PRACTICAL APPLICATION	184
Kovalenko, N.K.	
INVESTIGATION OF GENETIC FACTORS CONTROLLING THE SURFACTANT DEGRADATION OF ACINETOBACTER	185
Kovalevskaya, N.P.	
INDUSTRIAL SEWAGE PURIFICATION FROM SOME HEAVY METAL IONS BY THE METABOLITES OF IRON-OXIDIZING BACTERIA	185
Kozlova, G.A., Bannikova, O.M., Khodyashev, N.B.	
POLY(GLUCOSYLGLYCEROL PHOSPHATE) IN THE CELL WALL OF STREPTOMYCES FLAVOTRICINI VKM Ac-1277	186
Kozlova Yu.I., Streshinskaya, G.M., Shashkov, A.S., Naumova, I.B.	

METHOD FOR ACRYLAMIDE PRODUCTION	187
Kozulin, S.V., Sintin, A.A., Fyedchenko, N.N., Voronin, S.P.	
MICROBIAL PRODUCTION OF ACRYLIC ACID	187
Kozulina, T.N., Litvinov, O.V., Sevryugina, I.N.	
CHANGEABILITY OF FATTY ACID CONTENT OF THE BACTERIA INFLUENCED BY SURFACE-ACTIVE SUBSTANCES	188
Krivetz, I.A., Stavskaya, S.S.	
ANALYSIS OF AGROBACTERIUM RADIOBACTER 5D-1 INTRODUCED IN SOIL AND THE RHIZOSPHERE OF WHEAT AND THE INTRODUCTION EFFECT ON THE PLANT	189
Kurbanova, I.V., Solovova, G.K., Matora, L.Yu., Shchyogolev, S.Yu., Markelova, T.S., Ishin, A.G., Chumakov, M.I.	
ANTIBIOTIC SUSCEPTIBILITY TESTS — A RELIABLE COMPLEMENTARY METHOD IN RHODOCOCCUS SPECIES DIFFERENTIATION	189
Kuyukina, M.S., Ivshina, I.B., Lyapunov, Y.E., Bell, K.S., Philp, J.C., Christofi, N.	
OIL-EMULSIFYING ECOLOGICALLY PURE EMULSIFIER OBTAINED FROM ALKANOTROPHIC RHODOCOCCI	190
Kuyukina, M.S., Ivshina, I.B., Philp, J.C., Christofi, N.	
BACILLI FROM THE ANCIENT LAYERS OF THE SIBERIAN PERMAFROST SOILS	191
Kuzmin, N.P., Duda, V.I., Shershunov, I.N., Tomashevsky, A.Yu., Lysenko, A.M., Gilichinsky, D.A.	
UNKNOWN HEMOLYSIN PRODUCED BY ANCIENT BACILLI	192
Kuzmin, N.P., Tomashevsky, A.Yu., Shershunov, I.N., Duda, V.I., Gilichinsky, D.A.	
BIOTESTING OF SEWAGE USING LYOPHILIZED LUMINOUS BACTERIA	193
Kuznetsov, A.M., Rodicheva, E.K.	
FAMILY NEOCALLIMASTICACEAE: INTERACTIONS WITH ANIMAL HOST AND OTHER RUMEN MICROORGANISMS	193
Laptev, G.Y.	
STUDY OF PHOSPHORUS CONTENT IN THE COMPONENTS OF WATER BALANCE	194
Lapteva, A.K., Belousova, A.G., Ilarionov, S.A.	
DYNAMICS OF PHOSPHOPROTEIN SPECTRUM AND PHOSPHOPROTEIN PHOSPHATASE ACTIVITY OF ESCHERICHIA COLI UNDER THE CONDITION OF CONTINUOUS GROWTH	195
Lemkina, L.M., Korobov, V.P., Kalyuzhnaya, V.M., Trutko, S.M., Akimenko, V.K., Plyasunova, L.V.	

EXTREMELY HIGH CONCENTRATIONS OF HETEROPHASONON- CONSERVATIVE POLLUTANTS IN WATER OBJECTS	196
Lepikhin, A.P., Miroshnichenko, S.A.	
MICROBIAL CULTURE COLLECTION OF THE INSTITUTE OF MICROBIOLOGY, BYELARUS ACADEMY OF SCIENCES	198
Lobanok, A.G., Obratsova, N.V., Samsonova, A.S., Vazhinskaya, I.S.	
ACTIVE BIODESTRUCTORS OF THE ACRYLIC ACID NITRILE	198
Lyapunov, Y.E., Elovikova, E.A.	
CORYNEFORM BACTERIA AS A COMPONENT OF MICROBE BIOCENOSIS OF BILE DURING CHOLANGITIS	199
Maslov, Yu.N., Kotelnikova, K.P., Drjemin, D.I., Popov, A.V.	
OPTIMIZATION OF THE POLYMERASE CHAIN REACTION FOR THE TAXONOMIC ANALYSIS OF MICROORGANISMS	200
Maximov, A.Y., Demakov, V.A.	
GENOME AND COLONY STRUCTURE OF BACTERIA OF THE GENUS PHOTOBACTERIUM	201
Medvedeva, S.E., Mogilnaya, O.A., Puzyr, A.P.	
CREATION OF INFORMATION DATA BANK OF THE CULTURE COLLECTION OF LUMINOUS BACTERIA IBSO	201
Medvedeva, S.E., Vydryakova, G.A.	
POSSIBLE BIOLOGICAL PROTECTION OF SPRING WHEAT FROM TILLETIA CARIES (DC.) TUL. USING SEED INOCULATIONS WITH SOME SOIL BACILLI	202
Melentjev, A.I., Isaev, R.F.	
COLONIZATION OF WHEAT ROOT BY SOME AGENTS OF BIOCONTROL OF DISEASES BELONGING TO THE GENUS BACILLUS	203
Melentjev, A.I., Kuzmina, L.Y., Morozov, Y.M.	
EVALUATION OF THE SEARCH FOR BIOACTIVE METABOLITE PRODUCERS AMONG MARINE MICROORGANISMS	203
Mikhailov, V.V., Kuznetsova, T.A., Ivanova, E.P., Elyakov, G.B.	
A COLLECTION OF MERCURY-RESISTANT STRAINS OF ENVIRONMENTAL BACTERIA IN STUDIES OF GENES AND TRANSPOSONS ENCODING MERCURY RESISTANCE	204
Mindlin, S.Z., Bogdanova, E.S., Gorlenko, Z.M., Kalyaeva, E.S., Kholodii, G.Y., Kopteva, A.V., Minakhin, L.S., Minakhina, S.V., Petrova, M.A.	
STRUCTURAL FEATURES OF CELLS, GENOME AND COLONIES OF ALCALIGENES EUTROPHUS	205
Mogilnaya, O.A., Medvedeva, S.E., Puzyr, A.P.	

TEICHOIC ACIDS OF ACTINOMYCETES AS A SPECIES-SPECIFIC MARKER Naumova, I.B.	205
SULPHATE-REDUCING BACTERIA OF SPRING WATERS OF SOME AREAS OF PERM REGION Nazarov, A.V., Ilarionov, S.A.	206
TO THE QUESTION OF INCREASING EUBIOTICS' EFFICIENCY Nestchislyayev, V.A., Puchnin, V.S., Chugunova, N.N.	206
EFFECT OF THE HYPOOSMOTIC SHOCK ON PUTRESCINE AND POTASSIUM EXCHANGE BETWEEN A CELL AND THE ENVIRONMENT Nestserova, L.Y., Salakhetdinova, O.Y., Pshenichnov, M.R., Tkachenko, A.G.	207
CULTIVATION OF STRAINS-AGENTS OF COAL HEAP RECULTIVATION FOR THEIR BIOMASS ACCUMULATION Nikitina, N.M., Pshenichnov, R.A.	208
COLLECTION OF CORYNEFORM AND NOCARDIOFORM BACTERIA OF THE UKRAINIAN NATIONAL COLLECTION OF MICROORGANISMS: INFORMATION DATA BANK OF STRAINS, PRESERVATION AND REPLENISHMENT OF MICROBIAL FUND Nogina, T.M.	209
ACQUISITION AND EVALUATION OF MICROBIAL GERMLASM FOR LEGUMES OF THE TEMPERATE CLIMATIC ZONE WITH POTENTIAL AS NEW CROPS FOR AGRICULTURAL PRODUCTION Novikova, N.I.	209
APPLICATIONS OF RHODOCOCCI FOR THE DESULPHURISATION OF PETROCHEMICALS Oldfield, C.	210
BIOLOGICAL DETOXICATION OF DANGEROUS SUBSTANCES AT CHEMICAL WEAPON DESTRUCTION Olontsev, V.F.	210
METHODOLOGY AND MATHEMATICAL METHOD OF QUANTITATIVE INVESTIGATION OF SPECIES COMPOSITION OF MICROBIAL COMMUNITY WITH THE USE OF CHROMATO-MASS-SPECTROMETRY Osipov, G.A.	211
RAPID ANALYSIS OF UROGENITAL DISBIOSIS BY LIPID MARKERS Osipov, G.A., Demina, A.M., Krimtseva, T.A., Radjushina, T.V.	210
EXPRESS MONITORING OF ACTIVE SILT COMMUNITY USING LIPID MARKERS Osipov, G.A., El, J.F.	213
	271

STRUCTURAL ANALYSIS OF SOME MICROBIAL COMMUNITIES BY LIPID MARKERS AND CHROMATOGRAPHY AND CHROMATO-MASS-SPECTROMETRY METHODS	213
Osi pov, G.A., Turova, E.S., Demina, A.M.	
FUNGI COLLECTION OF PURE CULTURES: BIODIVERSITY, RESEARCH AND DEVELOPMENT	214
Osledkin, Y.S., Kochetkov, V.V.	
THE APPLICATION OF MICROBIOLOGICAL TEST-SYSTEMS FOR EVALUATION OF TOTAL MUTAGENIC ACTIVITY OF WATER	215
Ovechkina, G.V., Eryomina, A.A., Demakov, V.A., Lepikhin, A.P.	
ECOLOGICALLY SAFE METHOD FOR PRODUCTION OF RICKETTSIAE CORPUSCLE ANTIGENS	216
Pantukhina, A.N., Petrov, V.F.	
PROMISING DIRECTIONS IN THE DEVELOPMENT OF MICROBIOLOGICAL MONITORING	217
Petrov, V.F., Raikher, L.I., Yushkov, V.V.	
STUDY OF GENETIC DETERMINATION OF MINERAL OIL BIODEGRADATION CHARACTER	217
Pleshakova, E.V., Muratova, A.Y., Turkovskaya, O.V.	
EXPRESSION OF THE FCB ARTHROBACTER GLOBIFORMIS KZT-1 GENES CONTROLLING DEHALOGENATION OF 4-CHLORBENZOATE IN PSEUDOMONAS PUTIDA CELLS	218
Plotnikova, E.G.	
HYDROCARBON-OXIDIZING NOCARDIOFORM BACTERIA POTENTIALLY VALUABLE FOR PURIFICATION OF OIL POLLUTED ECOSYSTEM	219
Podgorsky, V.S., Nogina, T.M.	
SCREENING FOR ACRYLIC ACID-DEGRADING STRAINS	219
Poltavskaya, S.V., Kozulina, T.N.	
TWO TYPES OF UNSUBSTITUTED POLY(GLYCEROL PHOSPHATE) TEICHOIC ACIDS IN THE CELL WALL OF STREPTOMYCES SP. VKM Ac-1830	220
Potekhina, N.V., Shashkov, A.S., Taran, V.V., Naumova, I.B.	
DEPENDENCE OF ESCHERICHIA COLI DNA TOPOLOGY ON PUTRESCINE AND POTASSIUM CONCENTRATIONS UNDER STRESS CONDITIONS AND IN VITRO EXPERIMENTS	220
Pshenichnov, M.R., Tkachenko, A.G.	
INTRASPECIES DIVERSITY OF ESCHERICHIA COLI IS A BASIS FOR CREATION OF SPATIAL-TEMPORAL MONITORING OF THE SPECIES	221
Pshenichnov, R.A., Kolotov, V.M.	

PROBLEMS OF MICROBIAL VIABILITY ASSESSMENT	222
Puchkov, E.O.	
DESCRIPTION OF A NITRIFIER CONSORTIUM USING MICROSCOPIC METHODS	223
Puzyr, A.P., Mogilnaya, O.A., Babkina, E.A., Gurevich, Y.L.	
INFLUENCE OF SEROLOGICAL VARIATIONS ON THE CHARACTER OF THE CLINICAL INFECTION	223
Ratnikova, L.I., Kuzmina, N.Y., Eliseev, V.A.	
CULTURE COLLECTION OF LUMINOUS BACTERIA IBSO	224
Rodicheva, E.K., Vydryakova, G.A., Medvedeva, S.E., Chugaeva, Y.V., Kuznetsov, A.M.	
ACRYLONITRILE DETERMINATION BY RESPIRATORY ACTIVITY OF MICROBIAL CELLS	225
Rogatcheva, S.M., Ignatov, O.V.	
GEOCHEMICAL ACTIVITY OF METHANE-OXIDIZING BACTERIA IN THE REGION OF OIL-GAS SEARCH PROBING	226
Rubinstein, L.M.	
SOME ASPECTS OF MICROBIAL CORROSION MECHANISM IN ALUMINIUM ALLOYS	226
Ryzhikova, I.A., Verkhovtseva, N.V., Gazaryan, K.G.	
FORECASTING THE CONSEQUENCES OF FAILURES IN THE RIVERS AND RESERVOIRS	227
Sadokhina, E.L., Lepikhin, A.P.	
SELECTION OF THE MOST PROMISING BIFIDOBACTERIA STRAINS	228
Safronenko, L.V., Zhabanos, N.K.	
PUTRESCINE AND POTASSIUM EXCHANGE BETWEEN A CELL AND THE ENVIRONMENT AS A FACTOR OF ESCHERICHIA COLI ADAPTATION TO AMMONIUM STARVATION STRESS	229
Salakhedinova, O.Y., Tkachenko, A.G., Pshenichnov, M.R., Nesterova, L.Y.	
ECOLOGY OF MICROORGANISMS IN TECHNOGENIC AREAS	230
Samsonova, A.S.	
METHANOGENIC MICROORGANISMS IN SOME CORE SAMPLES FROM ULTRA DEEP BOREHOLES	230
Seleznyov, I.A., Rubinstein, L.M., Ilarionov, S.A., Oborin, A.A.	
USAGE OF BIFIDOBACTERIA FOR THE PRODUCTION OF DAIRY PRODUCTS	231
Semenikhina, V.F., Sundukova, M.V., Rozhkova, I.V.	

ANTIBIOTIC SENSITIVITY, BIOCHEMICAL PROPERTIES AND PHAGE VARIANT OF SALMONELLA ENTERITIDIS Sergevnnin, V.I., Koza, N.M., Pozdeeva, N.D., Gladkikh, L.A.	232
ISOLATION AND STUDY OF GELATIGENOUS BACTERIA OF THE UNDERGROUND BIOSPHERE Shekhovtseva, N.V., Rodionova, T.A.	232
AN EXPERIENCE IN INDICATING CHEMICAL TOXIC OUTBURSTS ACCORDING TO THE MICROBIOLOGICAL INVESTIGATION DATA ON THE SNOW COVER Shishkin, M.A., Elovikova, E.A., Ritchkova, M.I.	233
TREATMENT OF TANNERY SLUDGE SEDIMENTS Singirtsev, I.N., Volchenko, E.V., Romanova, T.A., Fjedorov, A.Y.	234
USE OF ALCALIGENES SP. IB-3 IN THE PRODUCTION OF HIGHLY ACTIVE BIOCATALYST ABLE TO CONVERT ACRYLONITRILE TO ACRYLIC ACID Singirtsev, I.N., Zabaznaja, E.V., Voronin, S.P.	234
UKRAINIAN NATIONAL COLLECTION OF MICROORGANISMS AND ITS BIOTECHNOLOGICAL RESOURCES Smirnov, V.V., Kiprianova, E.A.	235
INTERRELATION BETWEEN INTRACELLULAR LEVELS OF NONPROTEIN THIOLS AND CATALASE AND GLUTATHIONE REDUCTASE ACTIVITIES UNDER TREATMENT OF GROWING ESCHERICHIA COLI CELLS WITH HYDROGEN PEROXIDE Smirnova, G.V., Muzyca, N.G., Glukhovchenko, M.N.	236
TRANSFORMATION AND ACCUMULATION OF TELLURIUM OXYANIONS BY ACINETOBACTER CALCOACETICUS Solomennyi, A.P., Kozlova, G.A., Churilova, N.S., Saralov, A.I.	237
PRELIMINARY EVALUATION OF CLINICAL EFFICIENCY OF A NEW DRUG, HUMAN LEUKOCYTE INTERFERON (HLN) Solovjeva, M.N., Zvereva, S.Y., Parkhomenko, T.G.	237
SODIUM DODECYL SULFATE AS A STRESS FACTOR FOR BACTERIA-DESTRUCTORS Stavskaya, S.S., Krivetz, I.A.	238
AMYCOLATOPSIS FRUCTIFERI (EX KRASSILNIKOV 1941) SP. NOV., NOM. REV., COMB. NOV. Taran, V.V. Akimov, V.N., Terekhova, L.P., Berdnikova, T.F., Olkhovatova, O.L., Konovalova, S.M., Evtushenko, L.I.	239

ENERGY STATUS AND PUTRESCINE AND POTASSIUM EXCHANGE BETWEEN A CELL AND THE ENVIRONMENT AS FACTORS OF ESCHERICHIA COLI ADAPTATION TO HYPEROSMOTIC SHOCK	239
Tkachenko, A.G., Salakhedinova, O.Y., Pshenichnov, M.R., Nesterova, L.Y.	
TAGGING AND MONITORING BACTERIA WITH GREEN FLUORESCENT PROTEIN	240
Tombolini, R., Unge, A., Moller, A., Jansson, J.K.	
COMPOSITION OF THE CELL WALL TEICHOIC ACIDS AS A TAXONOMIC MARKER OF THE STREPTOMYCES HYGROSCOPICUS SPECIES	241
Tulskaya, E.M., Shashkov, A.S., Evtushenko, L.I., Bueva, O.V., Taran, V.V., Naumova, I.B.	
OCCURRENCE OF NONIONIC SURFACTANT-DEGRADING MICROORGANISMS IN THE ENVIRONMENT	242
Turkovskaya, O.V., Dubrovskaya, E.V.	
DYNAMICS OF MICROBIAL COMMUNITY DEVELOPMENT IN KAOLIN AND ITS ROLE IN TRANSFORMATION OF IRON-CONTAINING MINERALS IN KAOLIN	243
Turova, E.S., Avakyan, Z.A., Karavaiko, G.I.	
APPLICATION OF CHROMATOGRAPHY-MASS-SPECTROMETRY METHOD TO PROXIMATE-ANALYSIS OF THE STRUCTURE OF MICROBIAL COMMUNITY IN KAOLIN	243
Turova, E.S., Osipov, G.A.	
THE INCREASE IN FODDER VALUE OF ORGANIC WASTES USING PLEUROTUS OSTREATUS	244
Ufimtsev, A.E., Kolesnikova, S.A., Murasheva, E.Y.	
ECOLOGICAL-HYGIENIC EVALUATION OF HIGHER BASIDIAL FUNGI-DESTRUCTORS OF WOOD-PROCESSING WASTES	245
Ufimtsev, A.E., Tonkov, V.A., Kolesnikova, S.A., Murasheva, E.Y.	
GENUS ACINETOBACTER AS AN EXAMPLE OF PRACTICAL IMPLICATIONS OF BACTERIAL DIVERSITY	245
Ursing, J.B., Dijkshoorn, L.	
ACTINOMYCETES AS PRODUCERS OF CYCLODEXTRINGLUCANOTRANSFERASE: THE DEVELOPMENT OF SCREENING METHODS AND TAXONOMIC STUDY	246
Usanov, N.G., Prutsakova, E.A., Khalikova, E.F., Terekhova, E.Y.	

DETECTION OF ANTI-LIPID ANTIBODIES TO CHARACTERIZE INTERACTION BETWEEN MICRO- AND MACRO-ORGANISMS IN NORMAL CONDITIONS AND UNDER PATHOLOGY	247
Uvitzkii, A.Y., Raikher, L.I., Khasanova, R.B., Popova, E.D.	
ISOLATION AND CHARACTERIZATION OF LISTERIA MONOCYTOGENES MUTANT STRAINS HYPERPRODUCING VIRULENT FACTORS	248
Varfolomeeva, N.A., Ermolacva, S.A., Tartakovskii, I.S.	
A NEW THERMOTOLERANT SULPHUR-OXIDIZING BACTERIUM FROM SULFIDE ORES OF ARMENIA	248
Vartanian, N.S.	
PECULIARITIES OF INTERACTION OF SOIL MICROORGANISM GENOSIS WITH MAGNETITE MICROSPHERULES	249
Verkhovtseva, N.V., Volkova, I.N.	
IS THE STRESS A REAL STATE FOR MICROALGAL POPULATION?	250
Veselovsky, V.A., Pikovsky, J.I., Veselova, T.V.	
PATHWAYS FOR MICROBIAL DEGRADATION OF BENZALDEHYDE PRODUCTION WASTE WATER COMPONENTS	250
Volchenko, E.V., Fjedorov, A.Y., Shoob, G.M.	
STUDYING THE POSSIBILITY OF RESERVOIR PURIFICATION FROM OIL BY SORBENT AND MICROORGANISMS-OIL DESTRUCTORS	251
Volkova, M.A., Chikina, T.A., Zubkov, V.M.	
MICROBIAL TRANSFORMATION OF CYANIDES	251
Vorobyov, S.V., Kozulin, S.V., Sintin, A.A., Litvinov, O.V., Voronin, S.P.	
FULFILMENT OF THE CONVENTION ON BIOLOGICAL DIVERSITY IN THE PERM REGION	252
Voronov, G.A., Stenko, S.P.	
SPECIFIC STRUCTURE OF FREE-LIVING AND ASSOCIATED LUMINOUS BACTERIA OF NORTH-WESTERN PART OF THE INDIAN OCEAN	253
Vydryakova, G.A., Kuznetsov, A.M., Chugaeva, Y.V.	
CLINICAL-LABORATORY ANALYSIS OF THE DEPENDENCE OF IMMUNOPATHOLOGY ON THE CONDITION OF THE ORGANISM'S MICROFLORA	254
Yushkova, T.A., Yushkov, V.V.	
EVALUATION OF BIOHUMUS PRODUCED BY THE METHOD OF VERMICULTIVATION OF SOLID WASTES FROM PULP AND PAPER INDUSTRY	255
Zaitseva, T.A., Rudakova, L.V.	