

"COMPUTATIONAL PHYLOGENETICS AND MOLECULAR SYSTEMATICS"

16-19 November 2007, Moscow State University, Russia

Wednesday, November 16, 2007

Moscow State University MAIN BUILDING

08.00 - 20.00	Registration at the Cultural Center Lobby
10.00 - 13.10	PLENARY SESSION
13.10 - 14.30	Lunch
14.30 - 16.00	Tour over the University MAIN BUILDING and Geographic Museum
16.00 - 19.00	PLENARY SESSION
19.30 - 22.00	Welcome party

Cultural Center Hall

PLENARY SESSION

Each talk is followed by 5-10 mins of questions and discussion if timing allows

Affiliation is indicated for the speaker

Chair Vladimir P. Skulachev

10.00 - 10.15	WELCOME ADDRESS Vladimir P. Skulachev Faculty of Bioengineering and Bioinformatics, Moscow State University, Dean
10.15 - 10.50	AB OVO USQUE AD MALA Alexander S. Spirin Institute for Protein Research of the Russian Academy of Sciences (RAS), Faculty of Biology, Moscow State University
10.50 - 11.30	FROM BASE COMPOSITION TOWARD GENOME COMPARISON Konstantin G. Skryabin Center "Bioengineering", RAS
11.30 - 11.50	COFFE BREAK
11.50 - 12.30	MOLECULAR GENETIC SYSTEMS OF DEVELOPMENT: DYNAMICS OF FUNCTIONING AND MOLECULAR EVOLUTION Nikolay A. Kolchanov Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk
12.30 - 13.10	PHYLOINFORMATIC TOOLS FOR ASSEMBLING THE TREE OF LIFE William H. Piel Associate Director of Evolutionary Bioinformatics, Peabody Museum of Natural History, Yale University, USA
13.10 - 14.30	LUNCH
14.30 - 16.00	Tour over the University MAIN BUILDING and Geographic Museum

16.00 - 16.40 IMPROVING AMINO-ACID SUBSTITUTION MODELLING
Olivier Gascuel, Quang Le Si
Research Director, Dpt for Methods and algorithms in bioinformatics, Laboratory for Informatics, Robotics and Microelectronics of Montpellier (LIRMM). University of Montpellier & CNRS, France

16.40 - 17.20 METHODS FOR COMPARING ALIGNMENTS AND THE DISSOCIATION BETWEEN PRIMARY AND FUNCTIONAL PERFORMANCE OF ALIGNMENT ALGORITHMS IN PHYLOGENETICS AND BIOINFORMATICS
Michael S. Rosenberg
Assistant Professor, Center for Evolutionary Functional Genomics
The Biodesign Institute, School of Life Sciences, Arizona State University, USA

17.20 - 17.40 COFFE BREAK

17.40 - 18.20 EVOLUTION OF BACTERIAL REGULATORY SYSTEMS
Mikhail S. Gelfand
Institute for Information Transmission Problems (Kharkevich Institute), RAS

18.20 - 19.00 PARALLEL MORPHOLOGICAL AND MOLECULAR RESEARCH PROGRAMMES ARE ESSENTIAL FOR PHYLOGENY RECONSTRUCTION: THE EXAMPLE OF SEED-PLANT RELATIONSHIPS
Richard M. Bateman, Jason Hilton, Paula J. Rudall
Royal Botanic Gardens Kew, President of the Systematics Association
Vice-president of the Linnean Society of London, UK

19.30 - 22.00 WELCOME PARTY

Saturday, November 17, 2007

FACULTY OF BIOLOGY, MOSCOW STATE UNIVERSITY

09.00 - 17.00 Registration at the lobby of auditorium M1
10.00 - 11.30 POSTER SESSION (lobby of auditorium M1)
11.30 - 12.30 Lunch
12.30 - 16.00 Bus tour of the Moscow city

FREE TIME

Sunday, November 18, 2007

FACULTY OF BIOLOGY, MOSCOW STATE UNIVERSITY

	10.00 - 17.00	Registration at the lobby of auditorium M1
Aud. M1	10.00 - 13.00	Section EVOLUTION OF GENES AND GENETIC SYSTEMS
	13.00 - 14.30	LUNCH
Aud. M1	14.30 - 16.30	Section MODELLING EVOLUTION AND GENE REGULATION
Aud. M1	16.30 - 17.50	Section STRUCTURE AND EVOLUTION OF BIOMOLECULES
Aud. M2	10.00 - 11.20	Section MICROEVOLUTION
Aud. M2	11.40 - 15.50	Section MOLECULAR SYSTEMATICS OF ANIMALS (13.00 - 14.30 break for lunch)
Aud. M2	16.10 - 18.30	Section MOLECULAR SYSTEMATICS OF PLANTS
Aud. M1	18.40 - 20.30	Round table "PROMISES AND PERSPECTIVES OF MOLECULAR PHYLOGENETICS AND SYSTEMATICS"

Auditorium M1 Section EVOLUTION OF GENES AND GENETIC SYSTEMS

Each talk is followed by 3-5 mins of questions and discussion if timing allows

Affiliation is indicated for the speaker

Chair Nikolay A. Kolchanov

10.00 - 10.20 ON THE CORRELATION BETWEEN NEUTRALITY OF BASE
SUBSTITUTION IN mRNA AND RATES OF EVOLUTIONARY CHANGE
IN mRNA'S AND THEIR ENCODED PROTEINS
Barkovsky E.V., Butvilovsky A.V., Butvilovsky V.E.,
Kazulevich S.R.
Belorussian State University of Medicine, Minsk, Belarus

10.20 - 10.40 ROLE OF EVOLUTIONARY CONSERVED BINDING MOTIF
COMBINATIONS IN DEVELOPMENTAL GENE NETWORKS
Dmitri Papatsenko, Michael Levine
Center for Integrative Genomics, University of California Berkeley, USA

10.40 - 11.00 EVOLUTION OF GLYCERALDEHYDE-3-PHOSPHATE
DEHYDROGENASE ISOENZYMES IN VERTEBRATES
Kuravsky M.L., Muronetz V.I., Schmalhausen E.V.
Faculty of Bioengineering and Bioinformatics, Moscow State University

11.00 - 11.20 RAPID EVOLUTION OF PROMOTERS IN MAGNOLIOPHYT
CHLOROPLASTS
Seliverstov A.V., Lysenko E.A., Lyubetsky V.A.
Institute for Information Transmission Problems (Kharkevich Institute), RAS

11.20 - 11.40 COFFE BREAK

Chair Mikhail S. Gelfand

11.40 - 12.00 STRUCTURAL CHARACTERISTICS AND EVOLUTIONARY
DIVERGENCE OF RIBOSOMAL INTERNAL TRANSCRIBED SPACER 2
(ITS 2) IN REPTILES IN THE CONTEXT OF VERTEBRATE ITS2
EVOLUTION
Voronov A.S., Shibalev D.V., Kupriyanova N.S.
Institute of Gene Biology, RAS

12.00 - 12.20 FORMATION AND MOLECULAR EVOLUTION OF THE gypsy GROUP
RETROTRANSPOSONS IN *Drosophila*
Nefedova L.N., Kim A.I.
Faculty of Biology, Moscow State University

12.20 - 12.40 EVOLUTION OF GAP JUNCTION PROTEINS
Panchin Yuri V.
Institute for Information Transmission Problems (Kharkevich Institute), RAS,
Belozersky Institute for Physicochemical Biology, Moscow State University

12.40 - 13.00 HIGH INTRON ABUNDANCE IN THE VERTEBRATE GENOMES MAY BE
INHERITED FROM THE UNICELLULAR ANCESTORS
Nikitin M.A., Aleoshin V.V.
Faculty of Bioengineering and Bioinformatics, Moscow State University

13.00 - 14.30 LUNCH

Auditorium M1 Section MODELLING EVOLUTION AND GENE REGULATION

Each talk is followed by 3-5 mins of questions and discussion if timing allows

Affiliation is indicated for the speaker

Chair Olivier Gascuel

14.30 - 14.50 LIFE-HISTORY TRAITS DRIVE THE EVOLUTIONARY RATES OF MAMMALIAN CODING AND NON-CODING GENOMIC ELEMENTS
Nikolaev S.I., Juan I. Montoya-Burgos, Konstantin Popadin, Leila Parand, Elliott H. Margulies, Stylianos E. Antonarakis
Department of Genetic Medicine and Development, University of Geneva, Switzerland

14.50 - 15.10 ALGORITHMS TO MODEL GENE EVOLUTION EVENTS AND RECONSTRUCT MULTIGENE PHYLOGENIES OF SPECIES
Rusin L.Y., Lyubetsky V.A.
Institute for Information Transmission Problems (Kharkevich Institute), RAS

15.10 - 15.30 ANALYSIS OF EVOLUTION OF T-BOX REGULATORY ELEMENTS. PREDICTION OF AMINO ACID TRANSPORTERS AND OTHER AMINO ACID RELATED GENES
Vitreschak A.G., Lyubetsky V.A., Gelfand M.S.
Institute for Information Transmission Problems (Kharkevich Institute), RAS

15.30 - 15.50 MODELING EVOLUTION OF THE NUCLEOTIDE SEQUENCE WITH SECONDARY STRUCTURE
Gorbunov K.Y., Lyubetsky V.A.
Institute for Information Transmission Problems (Kharkevich Institute), RAS

15.50 - 16.10 COFFE BREAK

16.10 - 16.30 INTEGRATED PHYLOGENETIC ANALYSIS OF BACTERIA AND ARCHAEA: STRATEGY AND METHODS
Kuznetsov B.B., Tourova T.P., Skryabin K.G.
Center "Bioengineering", RAS

Auditorium M1 Section STRUCTURE AND EVOLUTION OF BIOMOLECULES

Each talk is followed by 3-5 mins of questions and discussion if timing allows

Affiliation is indicated for the speaker

Chair Vassily A. Lyubetsky

16.30 - 16.50 ORGANIZATION OF INFORMATION IN PROTEIN PRIMARY STRUCTURE
Nekrasov A.N., Zinchenko A.A.
Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, RAS

16.50 - 17.10 DISORDERED REGIONS IN GLOBULAR PROTEINS – FROM BACTERIA TO HUMAN
Galzitskaya O.V., Serduyk I.N.
Institute for Protein Research, RAS

17.10 - 17.30 TOWARDS A PROTEIN MOLECULAR EVOLUTION BENCHMARK DATABASE
Cory L. Strobe, Stephen D. Scott, Etsuko N. Moriyama
Department of Computer Science and Engineering, University of Nebraska, Lincoln, USA

17.30 - 17.50 A NEW CRITERION FOR CLASSIFICATION OF THE LIVING WORLD: APPLICATION TO ELONGATION FACTORS EF1A
Serduyk I.N., Galzitskaya O.V.
Institute for Protein Research, RAS
Joint Institute for Nuclear Research, Dubna, Moscow region

17.50 - 18.40 COFFE BREAK

Chair Andrey S. Antonov

Aud. M1 18.40 - 20.30 Round table "PROMISES AND PERSPECTIVES OF MOLECULAR PHYLOGENETICS AND SYSTEMATICS"

Auditorium M2 Section MICROEVOLUTION

*Each talk is followed by 3-5 mins of questions and discussion if timing allows
Affiliation is indicated for the speaker*

Chair Leonid Y. Rusin

10.00 - 10.20 GENETIC VARIABILITY AMONG BACTERIA *Xantomonas campestris*
Punina N.V., Ignatov A.N., Zotov V.S., Matveeva E.V., Schaad N.W.
Center "Bioengineering", RAS

10.20 - 10.40 GENETIC DIVERSITY OF RAINBOW TROUT *Parasalmo (o.) mykiss* FROM RIVER KOL', KAMCHATKA
Pavlov S.D., Semenova A.V., Melnikova M.N.
Faculty of Biology, Moscow State University

10.40 - 11.00 DOLLY VARDEN CHARR: PHYLOGEOGRAPHY, GENETIC DIFFERENTIATION AND ORIGIN BASED ON PCR-RFLP ANALYSIS OF MITOCHONDRIAL DNA
Oleinik A.G., Skurikhina L.A., Brykov V.A
Zhirmunskii Institute of Marine Biology, Far-Eastern Branch of the RAS, Vladivostok

11.00 - 11.20 STUDY OF GENETIC DIVERSITY OF THE KURIL ISLANDS DOLLY VARDEN
Shubina E.A., Nikitin M.A., Ponomareva E.V., Gritsenko O.F
Belozersky Institute for Physicochemical Biology, Moscow State University

11.20 - 11.40 COFFE BREAK

Auditorium M2 **Section MOLECULAR SYSTEMATICS OF ANIMALS**

Each talk is followed by 3-5 mins of questions and discussion if timing allows

Affiliation is indicated for the speaker

Chair Kenneth M. Halanych

11.40 - 12.00 RECONSTRUCTING DEMOSPONGE RELATIONSHIPS USING MITOCHONDRIAL GENOMIC DATA

Dennis V. Lavrov, Xiujuan Wang

Iowa State University, Ames, USA

12.00 - 12.20 PHYLOGENOMICS AND MOLECULAR COEVOLUTION IN HOST-PARASITE SYSTEMS: THE CASE STUDY OF DIGENEAN TREMATODES (TREMATODA)

Semyenova S.K., Lopatkin A.A., Vasilyev V.A., Korchagina E.V., Korsunen A.V., Chrisanfova G.G., Ryskov A.P.

Institute of Gene Biology, RAS

12.20 - 12.40 COMBINED 18 AND 28S rRNA SEQUENCES SUGGEST RELATION OF GASTROTRICHS AND DICYEMIDS TO FLAT WORMS, AND ORTHONECTIDS –TO ANNELIDS

Petrov N.B., Aleshin V.V., Vladychenskaya I.P., Manylov O.G., Slyusarev G.S., Pegova A.N., Rusin L.Yu., Ophitserov M.V.

Belozersky Institute for Physicochemical Biology, Moscow State University

12.40 - 13.00 MOLECULAR IDENTIFICATION AND MOLECULAR PHYLOGENY IN THE STUDIES OF ANIMAL PARASITIC NEMATODES

Spiridonov S.E.

Center for Parasitology, Severtsov Institute of Ecology and Evolution, RAS

13.00 - 14.30 LUNCH

Chair Dennis Lavrov

14.30 - 14.50 REVEALING PHYLOGENETIC SIGNAL OF MITOCHONDRIAL AND NUCLEAR DNA: CASE STUDY OF SUBFAMILY ARVICOLINAE (CRICETIDAE, RODENTIA)

Abramson N., Kostygov A.

Zoological Institute, RAS, St. Petersburg

14.50 - 15.10 CAN DNA NUCLEOTIDE SEQUENCE DATA HELP TO SOLVE SOME PROBLEMS IN SYSTEMATICS AND PHYLOGENY OF GRASSHOPPERS?

Vysotskaya L.V., Guliaeva O.N., Sergeev M.G.

Novosibirsk State University

15.10 - 15.30 TESTING SPECIATION MODELS BY USING MOLECULAR PHYLOGENETIC AND COMPARATIVE APPROACHES

Lukhtanov V.A.

Biological Institute of St. Petersburg State University

15.30 - 15.50 NUCLEAR MOLECULAR MARKERS IN INVESTIGATION OF GENETIC RELATIONSHIPS, PHYLOGEOGRAPHY AND SYSTEMATICS OF LIZARDS FROM GENERA *Darevskia* AND *Lacerta s. str.*

Grechko V.V., Kosushkin S.A., Bannikova A.A., Yakovlev I.A., Darevsky I.S.

Engelhardt Institute of Molecular Biology, RAS

15.50 - 16.10 COFFE BREAK

Auditorium M2 Section MOLECULAR SYSTEMATICS OF PLANTS

Each talk is followed by 3-5 mins of questions and discussion if timing allows

Affiliation is indicated for the speaker

Chair Alexey V. Troitsky

16.10 - 16.30 PHYLOGENY-BASED ANALYSIS OF NATURAL SELECTION DURING ISLAND ADAPTIVE RADIATION IN HAWAIIAN ENDEMICS

Dmitry A. Filatov, Maxim Kapralov

Department of Plant Sciences, University of Oxford, UK

16.30 - 16.50 ESTIMATION OF PHYLOGENETIC UTILITY OF CHLOROPLAST PROTEIN-CODING GENES: IN A SEARCH OF "LUCKY GENE" FOR FLOWERING PLANT PHYLOGENY

Logacheva M.D., Penin A.A., Vallejo-Roman C.M., Samigullin T.H., Antonov A.S.

Faculty of Bioengineering and Bioinformatics, Moscow State University

16.50 - 17.10

MOLECULAR PHYLOGENETIC ANALYSIS OF THE GENUS *Poa* L. S.L.

Nosov N.N., Kim E.S., Machs E.M., Punina E.O., Probatova N.S., Rodionov A.V.

Komarov Botanical Institute, RAS, St. Petersburg

17.10 - 17.30 HETEROGENEITY IN NORTHERN RUSSIAN ALDERS (*Alnus* MILL., BETULACEAE): A COMBINED APPROACH

Ilinsky V.V., Rebrikov D.V., Shipunov A.B.

Faculty of Biology, Moscow State University

17.30 - 17.50 COFFE BREAK

Chair Andrey S. Antonov

17.50 - 18.10 ON MOLECULAR PHYLOGENY OF GYMNOMITRIACEAE H. KLINGGR. (HEPATICAE)

Vilnet A.A., Konstantinova N.A., Troitsky A.V.

Murmansk Province, Kirovsk-6

18.10 - 18.30 MOLECULAR PHYLOGENETICS OF ANGIOSPERMS: A MORPHOLOGIST'S VIEW

Sokoloff D.D.

Faculty of Biology, Moscow State University

18.30 - 18.40 COFFE BREAK

Chair Andrey S. Antonov

Aud. M1 18.40 - 20.30 Round table "PROMISES AND PERSPECTIVES OF MOLECULAR PHYLOGENETICS AND SYSTEMATICS"

Monday, November 19, 2007

Moscow State University MAIN BUILDING

10.00 - 16.30 PLENARY SESSION
13.00 - 14.00 Lunch
16.30 - 21.00 BANQUET

Cultural Center Hall

PLENARY SESSION

Each talk is followed by 5-10 mins of questions and discussion if timing allows

Affiliation is indicated for the speaker

Chair Junhyong Kim

10.00 - 10.40 GEOMETRY OF PHYLOGENETIC ESTIMATION

Junhyong Kim

Co-Director of Penn Genomics Institute, Department of Biology and Penn Center for Bioinformatics, University of Pennsylvania, USA

10.40 - 11.20 MODELS OF GENE EXPRESSION REGULATION AND EVOLUTION OF REGULATORY ELEMENTS

Lyubetsky V.A., Gorbunov K.Y., Seliverstov A.V.

Institute for Information Transmission Problems (Kharkevich Institute), RAS

11.20 - 11.40 **COFFE BREAK**

11.40 - 12.20 ETHNOGENOMICS IN REVEALING HISTORY OF EUROPEAN COLONIZATION AND LOCAL POPULATION GENE POOL CHARACTERISTICS

Svetlana A. Limborska

Institute of Molecular Genetics, RAS

12.20 - 13.00 PHYLOGENETIC SYSTEMATICS OF MICROORGANISMS FROM THERMAL ENVIRONMENTS

Bonch-Osmolovskaya E.A., Lebedinsky A.V., Chernyh N.A.

Winogradsky Institute of Microbiology, RAS

13.00 - 14.00 **LUNCH**

Chair Andrey S. Antonov

14.00 - 14.40 REVISING THE RED ALGAE ENDOSYMBIOSIS PARADIGM AND RECONCILING THE SYSTEM OF UNICELLULAR RELATIVES OF MULTICELLULAR ANIMALS WITH GENOMIC DATA

Mikhailov K.V., Konstantinova A.V., Aleshin V.V.

Belozersky Institute for Physicochemical Biology, Moscow State University

14.40 - 15.20 ANIMAL PHYLOGENY: NEW INSIGHTS FROM MOLECULAR DATA

Kenneth M. Halanych

Associate Professor and Marine Biology Coordinator. Auburn University, USA

15.20 **Conference closing notes**

16.30 - 21.00 **BANQUET**

Saturday, November 17, 2007

10.00 - 11.30

POSTER SESSION (lobby of auditorium M1)

- 1 **Evgenia V. Kupriyanova**
GENE CONVERSION CONTRIBUTION IN THE MAINTENANCE OF *Arabidopsis* PEROXIDASE GENE ATPRX53 DIMORPHISM
Faculty of Biology, Moscow State University
- 2 **Osypov A.A., Beskaravainy P.M., Sorokin A.A., Kamzolova S.G.**
DEPPDB - DNA ELECTROSTATIC POTENTIAL DATABASE AND ITS USE IN FUNCTIONAL, COMPARATIVE AND EVOLUTIONARY GENOMICS
Institute of Cell Biophysics, RAS, Pushchino, Moscow region
- 3 **Tarlachkov S., Shevchuk T.**
THE PROGRAM FOR PRIMER DESIGN FOR THE SITE-SPECIFIC MUTAGENESIS BASED ON PCR
Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, RAS, Pushchino Branch
- 4 **Lebedinsky A.V., Bonch-Osmolovsky A.M., Chernyh N.A., Perevalova A.A., Sokolova T.G., Bonch-Osmolovskaya E.A.**
A SOFTWARE PACKAGE FOR PRIMER AND PROBE DESIGN AND ITS APPLICATION TO STUDIES OF THERMOPHILIC MICROBIAL COMMUNITIES
Winogradsky Institute of Microbiology, RAS
- 5 **Khrustalev V.V., Barkovsky E.V.**
LEVELS OF CpG AND GpC DINUCLEOTIDES IN CODING DISTRICTS OF ARCHEAL GENOMES
Belarussian State University of Medicine, Minsk, Belarus
- 6 **Voronina O.L., Subbotina M.E., Lunin V.G.**
A TARGET CHOICE FOR THE BIFIDOBACTERIA MOLECULAR TYPING
All-Russian Research Institute of Agricultural Biotechnology, RAAS, Moscow
- 7 **Lukhanina N.V., Goloenko I.M., Sinyavskaja M.G., Pomortsev A. A., Davydenko O.G.**
THE DIVERSITY OF CHLOROPLAST HAPLOTYPES ACROSS ANCIENT CULTIVATED *HORDEUM*
Institute of Genetics and Cytology, NAS of Belarus, Minsk
- 8 **Fedosov V.E., Ignatova E.A., Milyutina I.A.**
REVISION OF THE GENUS *Bryoerythrophyllum* CHEN IN RUSSIA USING MOLECULAR APPROACH
Faculty of Biology, Moscow State University
- 9 **Pavlov S.D., Semenova A.V., Melnikova M.N.**
NEW GENETIC MARKERS FOR RAINBOW TROUT POPULATIONS FROM KAMCHATKA (*Parasalmo (Oncorhynchus) mykiss*)
Faculty of Biology, Moscow State University
- 10 **Zagoskin M. V., Grishanin A. K., Mukha D. V.**
CHROMATIN DIMINUTION IN *Cyclops kolensis*: INTERSIMPLE SEQUENCE REPEATS STRUCTURE ANALYSIS
Vavilov Institute of General Genetics, RAS
- 11 **Ryabinina O.M.**
ELUCIDATION OF ASIAN GUARDIAN DOG BREEDS PHYLOGENY BY mtDNA AND SINEC INSERTION ANALYSIS
Vavilov Institute of General Genetics, RAS

- 12 **Dubovenko A.J., Dunaevsky Y.E., Belozersky M.A., Oppert Brenda, Lord Jeffrey C., Elpidina E.N.**
CORRELATION OF FUNGAL TRYPSIN GENES WITH PATHOGENICITY
Faculty of Bioengineering and Bioinformatics, Moscow State University
- 13 **Aksyonova E.A., Rosenzweig V.E., Goloenko D.V., Davydenko O.G.**
THE ANALYSIS OF BELARUSIAN SOYBEAN CULTIVARS DIVERSITY USING NUCLEAR AND CHLOROPLAST SSR MARKERS
Institute of Genetics and Cytology, NAS of Belarus, Minsk
- 14 **Savinov I.A.**
CURRENT PERSPECTIVES OF SYNTHESIS OF THE MOLECULAR AND MORPHOLOGICAL DATA IN TAXONOMY OF THE CELASTRALES
Moscow State University of Applied Biotechnology
- 15 **Milyutina I.A., Ignatova E.A., Goryunov D.V., Ignatov M.S., Hernández-Maqueda R., Troitsky A.V.**
NUCLEAR ITS DATA ALLOW DISCRIMINATING BETWEEN THE NARROW AND BROAD SPECIES CONCEPTS IN SCHISTIDIUM (GRIMMIACEAE, MUSCI)
Belozersky Institute for Physicochemical Biology, Moscow State University
- 16 **Logacheva M.D., Penin A.A., Samigullin T.H.**
COMPLETE NUCLEOTIDE SEQUENCE AND STRUCTURE OF COMMON BUCKWHEAT (*Fagopyrum esculentum*) CHLOROPLAST GENOME
Faculty of Bioengineering and Bioinformatics, Moscow State University
- 17 **Molofeeva L.A., Zinovieva N.A., Strekozov N.I.**
USING OF DNA MICROSATELLITES IN CHARACTERISTICS OF GENEALOGICAL STRUCTURE OF COW HERD OF BLACK AND WHITE BREED
All-Russian Research Institute of Animal Breeding of the Russian Academy of Agricultural Science, Dubrovitzy, Moscow region
- 18 **Tichomirova T.I., Larionova P.V., Zinovieva N.A.**
DEVELOPMENT OF THE SYSTEM FOR THE CONTROL OF THE PIG PARENTAGE USING DNA MICROSATELLITES
All-Russian Research Institute of Animal Breeding of the Russian Academy of Agricultural Science, Dubrovitzy, Moscow region
- 19 **Sabine Gollner, Ivanenko V.N., Pedro Martinez Arbizu**
PHYLOGENETIC RELATIONSHIPS IN TEGASTIDAE (CRUSTACEA: COPEPODA: HARPACTICOIDA)
Faculty of Biology, Moscow State University
- 20 **Neretina T.V., Zhadan A.E., Muge N.S.**
mtDNA DATA ANALYSIS OF REPRESENTATIVES OF GENUS *Scoloplos* (POLYCHAETA, ORBINIIDAE) CONFIRMS EXISTING TWO SIBLING SPECIES IN THE WHITE SEA
Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, RAS
- 21 **Yatsentyuk S.P., Obukhov I.L.**
PHYLOGENETIC RELATIONSHIPS OF CORVID *Chlamydophila psittaci* ISOLATES
All-Russian Institute of Control, Standardization, and Certification of Veterinary Preparations, Moscow
- 22 **Zotov V.S., Punina N.V., Ignatov A.N., Matveeva E.V., Schaad N.W.**
APPLICATION DISSYMETRIC OLIGONUCLEOTIDE FOR GENOME COMPARISONS AT PLANT-ASSOCIATED PROTEOBACTERIA *Xanthomonas*
Center "Bioengineering", RAS