

CHEMISTRY FACULTY OF M.V.LOMONOSOV MOSCOW STATE UNIVERSITY
RUSSIAN FOUNDATION FOR BASIC RESEARCH
N.M.EMANUEL INSTITUTE OF BIOCHEMICAL PHYSICS OF RUSSIAN ACADEMY OF SCIENCES
"MONOMAX CONGRESS SERVICE" COMPANY
GROUP OF COMPANIES "BIOPROCESS"
ASSOCIATION "ASPECT"
INNOVATIONS AND HIGH TECHNOLOGIES MSU LTD.

INTERNATIONAL CONFERENCE
BIOCATALYSIS-2007:
FUNDAMENTALS & APPLICATIONS

PROGRAMME

June, 17 - 22, 2007, Moscow - St.Petersburg
Russian Federation




BIOCATALYSIS
2007

CHEMISTRY FACULTY OF M.V.LOMONOSOV MOSCOW STATE UNIVERSITY
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INTERNATIONAL CONFERENCE
BIOCATALYSIS-2007:
FUNDAMENTALS & APPLICATIONS

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GENERAL SCHEDULE

Time	June 17, Sunday	June 18, Monday	June 19, Tuesday	June 20, Wednesday	June 21, Thursday	June 22, Friday
8.00	Arrival to Moscow	8.15 – 9.15 Breakfast	8.00 – 9.00 Breakfast	8.00 – 8.50 Breakfast	8.00 – 9.00 Breakfast	8.30 – 9.30 Breakfast
9.00		9.30 – 11.00 Two Plenary Lectures	9.15 – 10.00 Plenary Lecture	9.00 – 9.45 Plenary Lecture	9.15 – 10.00 Plenary Lecture	9.45 – 10.45 Session 2.2
10.00		11.00 – 11.30 Coffee break	10.00 – 12.00 Session 3.2	10.00 – 11.30 Sessions 1.3 and 1.4	10.00-11.00 Session 6.2	11.00 - 12.00 Closing Lecture of Prof. S.D.Varfolomeyev Closing of Conference
11.00				11.30 – 12.00 Coffee break		
12.00		11.30 - 13.00 Session 1.1	12.00-12.45 Lunch	12.00-13.40 Session 1.5, 6.1	12.00 - 17.30 Stop and Lunch on Open Air in Mandrogy	12.00 – 12.30 Coffee break
13.00		13.00 - 14.00 Lunch	13.00 - 16.00 Stop and Excursion in Goritsy			14.00 - 15.00 Lunch
14.00		14.10 - 14.50 Plenary Lecture		16.30 - 18.00 Sessions 1.2 and 4.1		15.10 - 17.30 Session 2.1
15.00		14.50-16.10 Session 3.1	18.00 - 18.30 Coffee break			
16.00		16.00 - 17.30 Landing and Registration on the Boat		19.00 – 20.00 Dinner		20.00 – 21.30 Poster Session I
17.00		17.30 Departure from Moscow and Registration	19.30 - 20.30 Dinner			
18.00	19.00 Opening Ceremony Lecture of Prof. G. M. Blackburn	21.00 - 22.00 Dinner		20.00 - 23.00 Conference Dinner		
19.00	20.30 Get Together Party					
20.00						
21.00						
22.00						
23.00						

SCIENTIFIC PROGRAMME

JUNE 17, Sunday

UPPER DECK MAIN LECTURE AUDITORIUM

19.00. I. OPENING CEREMONY

1. Welcome from Organizing Committee

- Chairman of Organizing Committee Prof. S.D.Varfolomeyev,

2. Opening Plenary lecture

19.30- Prof. George Michael Blackburn (UK)

20.15 *"Phosphate - The Eroding Cornerstone of Life"*

20.30. GET TOGETHER PARTY

JUNE 18, Monday

UPPER DECK MAIN LECTURE AUDITORIUM

Plenary Lectures

Chairpersons: Prof. George Blackburn and Prof. Sergey Varfolomeyev

9.30- Prof. Paul Wentworth (UK)

10.15 *"The Antibody-Catalyzed Water Oxidation Pathway"*

10.15- Prof. Dr. Knud H. Nierhaus (Germany)

11.00 *"LepA, one of the most conserved proteins known and present in all bacteria and mitochondria, is a ribosomal elongation factor with a new function"*

11.00-11.30 **Coffee Break**

UPPER DECK MAIN LECTURE AUDITORIUM

11.30-13.00. I. ENZYMOLOGY AND BIOCATALYSIS

Session 1.1. Chairpersons: Prof. William Charles Webster and Prof. Natalia Klyachko

11.30- Friboulet Alain (France)

12.00 *"Biomolecular mimicry: recognition, biocatalysis and regulation"*

12.00- Yakunin Alexander (Canada)

12.20 *"Genome-wide Analysis of Substrate Specificities of the Escherichia coli Haloacid dehalogenase-like Phosphatase Family"*

12.20- Faleev Nikolai (Russian Federation)

12.40 *"Acid-base properties of catalytic groups in hydrophobic active sites and enzymatic mechanisms"*

12.40- Vas Kazinczy Maria (Hungary)

13.00 *"Insight Into The Mechanism Of Domain Movements And Its Role In The Enzyme Function: Example Of 3-Phosphoglycerate Kinase"*

UPPER DECK MAIN LECTURE AUDITORIUM

14.10-16.30. III. Applied Biocatalysis

Session 3.1 Chairpersons: Prof. Vytas Švedas and Dr. Harold Moody

14.10- *Plenary lecture*

14.50 **Prof. Arkady P. Sinitsyn** (Russian Federation)

“Highly efficient enzymatic hydrolysis of lignocellulosic raw materials”

14.50- **Kerns Gerhard** (Germany)

15.10 *“Enzymatic modification of lignocellulosic substances for the production of materials from wood”*

15.10- **Zorov Ivan** (Russian Federation)

15.30 *“Rapid and High sensitive Analysis of Lignocellulosic Hydrolysates”*

15.30- **Kokol Vanja** (Slovenia)

15.50 *“Enzymatic (multi)functionalisation of fibre-forming polymers”*

15.50- **Skomarovsky Anton** (Russian Federation)

16.10 *“Hydrolytic potentials of cellulases from *Penicillium verruculosum*”*

16.30-18.00 Excursion in Uglich

20.00 – 22.00 Poster session I

June, 19, Tuesday

UPPER DECK MAIN LECTURE AUDITORIUM

9.15-11.55. III. APPLIED BIOCATALYSIS

Session 3.2 Chairpersons: Prof. Dr. Karlheinz Drauz and Prof. Vladimir Tishkov

9.15- *Plenary lecture*

10.00 **Prof. Dr. Karlheinz Drauz** (Germany)

“Use of oxidoreductases in industrial bioorganic synthesis”

10.00- **Moody Harold** (The Netherlands)

10.40 *“Green Route Design: Enzymatic Production of Cefaclor”*

10.40- **Sinitsyna Olga** (Russian Federation)

11.00 *“Application of the Recombinant Enzymes from *Penicillium canescens* in Biotechnological Processes”*

11.00- **Lloyd Richard** (UK)

11.20 *“Preparation of alpha-amino acids: Combining Bio- and Chemocatalysis”*

11.20- **Kralovec Jari** (Canada)

11.40 *“Enzymatic catalysis for production of omega-3 concentrates”*

11.40- **Lee Byong** (Canada)

12.00 *“Biochemical and molecular characterization of Bifidobacterial bile salt hydrolases and their applications”*

13.00-16.00 Excursion in Goritsy

UPPER DECK MAIN LECTURE AUDITORIUM

16.30-18.00. IV. ANALYTICAL APPLICATIONS OF BIOCATALYSIS

Session 4.1 Chairpersons: Prof. Dmitri Papkovsky and Prof. Sergei Zaitsev

- 16.30- **Ugarova Natalya** (Russian Federation)
17.00 *“Rapid Bioluminescent Methods of Analysis using Firefly Luciferase”*
- 17.00- **Eremin Sergei** (Russian Federation)
17.20 *“Strategy for bioanalytical detection of mycotoxins in food products”*
- 17.20- **Dyer David, Simonian Aleksandr** (USA)
17.40 *“Conformation-specific Positioning of Enzymes on the Solid Interface: Surface Plasmon Resonance Study”*
- 17.40- **Guranda Dorel** (Russian Federation)
18.00 *“Synthesis of novel functionalized thiols catalyzed by penicillin acylase in aqueous medium. Their application as effective SH-reagents for chiral HPLC analysis of primary amino compounds”*

18.00 - 18.30 – **Coffee Break**

18.30-19.00. IV. ANALYTICAL APPLICATIONS OF BIOCATALYSIS

Session 4.2 Chairpersons: Prof. Natalya Ugarova and Dr. David Dyer

- 18.30- **Papkovsky Dmitri** (Ireland)
18.50 *“High throughput analysis of enzyme activity and inhibition by quenched-fluorescence oxygen sensing”*
- 18.50- **H.H. Weetall** (USA)
19.10 *“A manganese oxide electrode for detection of 2,4-dichlorophenoxyacetic acid (2,4-D) and for the destruction of organophosphates”*
- 19.10- **Mykhailo Gonchar** (Ukraine)
19.30 *“Microbial biosensor for L-lactate assay based on the use of recombinant cells of the yeast Hansenula polymorpha over-producing flavocytochrome b₂”*

SMALL LECTURE AUDITORIUM N1

16.30-17.50 I. BIOCATALYSIS AND NUCLEIC ACIDS

Session 1.2. Chairpersons: Prof. Dr. Knud Nierhaus and Dr. Catherine Dargemont

- 16.30- **Dargemont Catherine** (France)
16.50 *“Role of Ubiquitine and Ubiquitin-binding domains in the coordination of molecular events: example of mRNA nuclear export”*
- 16.50- **Dokudovskaya Svetlana** (France)
17.10 *“Molecular architecture of the yeast nuclear pore complex”*
- 17.10- **Shpanchenko Olga** (Russian Federation)
17.30 *“Trans-translation as mRNA quality control: tmRNA mutagenesis study”*
- 17.30- **Zvereva Maria** (Russian Federation)
17.50 *“New properties of Saccharomyces cerevisiae telomerase subunit Est3p”*

20.30 – 22.00 Poster session I

JUNE 20, Wednesday

UPPER DECK MAIN LECTURE AUDITORIUM

Plenary Lecture devoted to 70th Anniversary of Discovery of Transamination Reaction

Chairpersons: Prof. Philipp Christen and Prof. Alexander Gabibov

9.00- **Dunn Michael F.** (USA)

9.45 *“The Tryptophan Synthase Nano Machine: Structure And Mechanism Of Catalysis And Substrate Channeling”*

UPPER DECK MAIN LECTURE AUDITORIUM

10.00-12.00. **I. TRANSAMINATION BIOCATALYSIS.**

Session 1.3. Chairpersons: Prof. Michael Dunn and Prof. Tatyana Demidkina

10.00- **Christen Philipp** (Switzerland)

10.30 *“Inhibitors of protein folding”*

10.30- **Demidkina Tatyana** (Russian Federation)

10.50 *“High resolution structures of *Citrobacter freundii* L-methionine γ -lyase.”*

10.50- **Giannattasio Sergio** (Italy)

11.10 *“The molecular evolution of B6 enzymes: ribonuclease A as a model pyridoxal- 5'-phosphate-dependent protoenzyme”*

11.10- **Hayashi Hideyuki** (Japan) *“Comparative study of the reactions of aspartate*

11.30 *aminotransferase with C4 and C5 substrates”*

11.30 - 12.00 – **Coffee Break**

12.00-13.40. **I. ENZYME CATALYTIC MECHANISM AND PROTEIN ENGINEERING.**

Session 1.5. Chairpersons: Prof. Patrick Masson and Prof. Elizaveta Gromova

12.00- **Masson Patrick** (France)

12.20 *“Design Of Cholinesterase Mutants Capable Of Hydrolysing Organophosphorus Esters”*

12.20- **Huang Zhong-Xian** (China)

12.40 *“Molecular Design of Converting an Electron Transfer Protein into a Biocatalyst”*

12.40- **Gromova Elizaveta** (Russian Federation)

13.00 *“CpG DNA methyltransferase MSsSI: a study of catalytic mechanism by use of the enzyme mutants and modified substrates”*

13.00- **Himanen Juha** (Finland)

13.20 *“Eph receptor tyrosine kinases: from structures to anti-cancer antagonist screens”*

13.20- **Khoronenkova Svetlana, Tishkov Vladimir** (Russian Federation)

13.40 *“D-amino acid oxidase: from cloning to protein engineering”*

SMALL LECTURE AUDITORIUM N1

10.30-12.00. I. STRUCTURAL ASPECTS OF BIOCATALYSIS

Session 1.4. Chairpersons: Prof. Alexander Dikiy and Dr. Jonathan Waltho

- 10.00- **Dikiy Alexander** (Norway)
10.30 *“Structural Analysis of Selenoprotein W and its Interaction with 14-3-3 Proteins”*
- 10.30- **Tikhonova T.V.** (Russian Federation)
10.50 *“A novel hexameric nitrite reductase containing 48 hemes c from the extremophile bacterium Thioalkalivibrio nitratireducens: a unique catalytic machinery with unknown function?”*
- 10.50- **Kumagai Hidehiko** (Japan)
11.10 *“Crystal structures of γ -glutamyltranspeptidase and its precursor from E.coli”*
- 11.10- **Waltho Jonathan Peter** (UK)
11.30 *“NMR investigations of phosphate transfer enzymes”*

11.30 - 12.00 – **Coffee Break**

12.00-13.40. VI. ENZYMES, RIBOZYMES AND PROTEINS AS DRUGS AND VACCINES.

Session 6.1. Chairpersons: Prof. Alain Friboulet and Prof. Alexander Maksimenko

- 12.00- **Polanovsky Oleg** (Russian Federation)
12.20 *“Signaling cascades from ERBB tyrosine kinase membrane receptors to cell proliferation”*
- 12.20- **Klyachko Natalia** (Russian Federation)
12.40 *“Bacteriolytic enzymes for therapy and prophylaxis”*
- 12.40- **Kozlov Maxim** (Russian Federation)
13.00 *“Hepatitis C virus suppression: antiviral activity of 2,4-dioxo-4-phenylbutanoic acids and arylhydroxamates”*
- 13.00- **Maksimenko Alexander** (Russian Federation)
13.20 *“Biocatalytic Technology For Medical Application Against Oxidative Stress In Vascular Events”*
- 13.20- **Kancheva Vessela** (Bulgaria)
13.40 *“Structure-antioxidant activity of some phenolic compounds of natural origin”*

UPPER DECK MAIN LECTURE AUDITORIUM

15.10-17.30. II. BIOCATALYSIS AND BIOINFORMATICS.

Session 2.1. Chairpersons: Prof. Raymond Cunin and Prof. Evgenii Nikolaev

- 15.10- **Cunin Raymond** (Belgium)
15.40 *“Arginine biosynthesis in Escherichia coli: exploring metabolic control through experimental perturbations and mathematical modeling of the system”*
- 15.40- **Nemukhin Alexander** (Russian Federation)
16.10 *“Quantum Chemistry In Studies Of Elementary Stages Of Enzymatic Catalysis”*
- 16.10- **Joosten Henk-Jan** (The Netherlands)
16.30 *“3DM: A tool for assigning function to amino acids”*
- 16.30- **Webster William Charles** (USA)
16.50 *“Theoretical study of the active site and mechanism of beta-phosphoglucomutase”*
- 16.50- **Artemiev Alexey** (Russian Federation)
17.10 *“Recent advances of Bruker BioSpin in NMR spectroscopy instrumentation”*

18.00 - 21.00 –Excursion on Island Kizhi

JUNE 21, Thursday

UPPER DECK MAIN LECTURE AUDITORIUM

9.15-11.00. VI. ENZYMES, RIBOZYMES AND PROTEINS AS DRUGS AND VACCINES.

Session 6.2 Chairpersons: Prof. Paul Wentworth and Prof. Alexander Gabibov

- 9.15- *Plenary lecture*
10.00 **Prof. Gabibov Alexander** (Russian Federation)
“Catalytic Antibodies: immunology, biochemistry and pathology”
- 10.00- **Zouali Moncef** (France)
10.30 *“Epigenetic factors disrupting self-tolerance in autoimmune diseases”*
- 10.30- **Zaitsev Sergei** (Russian Federation)
10.50 *“Supramolecular enzyme systems of the dog blood plasma”*
- 10.50- **Wild James** (USA)
11.10 *“Enzyme-based bioscavengers to counteract neurotoxic poisoning”*
- 11.10- **Vassetzky Yegor** (France)
11.30 *“Chromatin organization and transcriptional control in Fascio-Scapulo-Humeral Dystrophy”*

12.00 - 17.30 –Excursion in Mandroggi

UPPER DECK MAIN LECTURE AUDITORIUM

18.00 - 19.30. **V. BIOCATALYSIS IN ENVIRONMENTAL BIOTECHNOLOGY.**

Session 5.1 Chairpersons: Prof. Colja Laane and Prof. Vladimir Popov

18.00- **Colja Laane** (The Netherlands)

18.30 *“White Biotechnology: Novel Applications and Collaborations”*

18.30- **Pandey Gunjan** (Australia)

18.50 *“Enzymatic Bioremediation: New Dimension in Pesticide Decontamination”*

18.50- **Smit Martha Sophia** (South Africa)

19.10 *“Biotransformation of alkylbenzenes and their derivatives by wild-type and genetically engineered *Y. lipolytica* strains”*

19.10- **Naranjo Leopoldo** (Venezuela)

19.30 *“Isolation And Molecular Characterization Of Polychlorinated Biphenyls (PCBs)- Degrading Bacteria From Electrical Transformer Oil”*

20.00 – CONFERENCE DINNER

JUNE 22, Friday

UPPER DECK MAIN LECTURE AUDITORIUM

9.45-10.45. **II. BIOCATALYSIS AND BIOINFORMATICS.**

Session 2.2. Chairpersons: Prof. Mark Sullards and Prof. Alexander Nemukhin

9.45- **van Echten-Deckert Gerhild** (Germany)

10.05 *“Identification Of Target Molecules Of Sphingolipid-Phosphates Using Dualchip-Technology - Implications For Postsurgical Paralysis Of The Bowel”*

10.05- **Nikolaev Evgenii** (Russian Federation)

10.25 *“Mass-spectrometry: non-invasive analysis of biological liquids”*

10.25- **Sullards Mark Cameron** (USA)

10.45 *“Sphingolipidomics: High throughput Identification, Structure Determination, and Quantitation of Sphingolipids Using Liquid Chromatography and Tandem Mass Spectrometry (LC-MS/MS)”*

11.00-12.00 **CLOSING CEREMONY**

Closing Plenary Lecture

11.00- **Prof. Sergey D. Varfolomeyev** (Russian Federation) *“Molecular Polymorphism of*

11.45 *Human Enzymes”*

11.45-12.00. **CLOSING OF CONFERENCE**

12.00 - 12.20 – **Coffee Break**

14.00 Arrival to St.Petersburg

POSTERS SESSIONS

June 18, 20.00-22.00

Posters Session I.

- 1 **Abdullin T.I.**, Vinter V.G., Nikitina I.I., Bondar O.V. and Ishmukhametova D.G. (Russian Federation) “*Catalytic Activity of Covalently Bonded DNA-Peroxidase Complexes*”
- 2 **Alessenko A.V.** (Russian Federation) “*Expression of TNF- α and Sphingosine Accumulation in Cell Proliferation and Apoptosis*”
- 3 Ivanov M.A., Tunitskaya V.L., Ivanov A.V., Golubeva N.A., Shipitsyn A.V. and **Alexandrova L.A.** (Russian Federation) “*Novel Ribonucleoside Analogues and Their 5'-O-Triphosphates: Synthesis, Antiviral Activity and Substrate Properties Towards Hepatitis C Virus Rna Polymerase and RNA Helicase/Ntpase*”
- 4 **Antonov A.I.**, Ustinov B.B., Gusakov A.V. and Sinityn A.P. (Russian Federation) “*Properties of Glucoamylase from Fungus *Chrysosporium lucknowense**”
- 5 **Bacheva A. V.**, Isakov M.S., Lysogorskaya E.N. and Filippova I.Y. (Russian Federation) “*Thin-Layer Films of Biocomposite Obtained from Subtilisin Carlsberg and Chitosan*”
- 6 Maidina, **Belova A.B.**, Levashov A.V. and Klyachko N.L. (Russian Federation) “*Screening of Lipases and Optimization of Linoleic Acid Preparation from Safflower Oil*”
- 7 Allali-Hassani A., Pan P. W., Dombrovski L., Najmanovich R., Tempel W., Dong A., Loppnau P., Martin F., Thornton J., Edwards A. M., Plotnikov A., Vedadi M., Arrowsmith C. H. and **Botchkarev A.** (Canada) “*Structural and Chemical Profiling of the Human Cytosolic Sulfotransferases*”
- 8 **Chernetsova E.S.**, Naumov A.Yu. (Russian Federation) “*A New Preparation Technique for MALDI Tissue Imaging*”
- 9 **Darii M.**, Kirsanova O., Drutsa V., Kiss A. and Gromova E. (Russian Federation) “*Functional Analysis of Mutants of DNA Methyltransferase SssI*”
- 10 **Dudnik L.B.**, Tsupko A.N., Akhaladze G.G. and Alessenko A.V. (Russian Federation) “*Changes in Sphingomyelinase Activity, Tumor Necrosis Factor α Level, and Lipid Peroxidation Intensity in the Course of Development of Cholestatic Liver Injury*”
- 11 **Dunn M. F.**, Keidel D. J. and Bonaccio M. (USA) “*The Mechanism of Insulin Allosteric Behavior*”
- 12 **Evdokimova E.**, Nocek B., Kudritska M., Joachimiak A., Yakunin A. and Savchenko A. (Canada) “*Crystal Structure and Catalytic Mechanism of an Amide Bond Forming Enzyme: F420 gamma-Glutamyl Ligase from *Archaeoglobus fulgidus**”
- 13 Cherkashin E.A., Mironova A.V., Kliasova G.A., **Fedorchuk V.V.**, Sidorenko S.V., Tishkov V.I. (Russian Federation) “*First Detection of Vancomycin-Resistant Enterococci (VRE) in Russia*”
- 14 Rodríguez-Martínez J., Rios-González L.J. and **Garza-García Y.** (Mexico) “*Optimal Reaction Conditions for Methane Generation by Biofilms System Fixed on *Opuntia imbricate**”
- 15 Rodríguez-Martínez J., Martínez-Amador S. Y., **Garza-García Y.**, García- Hipólito M. and Guzmán- Mendoza J. (Mexico) “*Performance of Nitrate Reduction, Sulfate Reduction and Methanogenesis in a Biofilm System Developed on *Opuntia imbricata**”

- 16 Rodríguez-Martínez J., Rodríguez-de la Garza J. A., **Garza-García Y.**, Sosa-Santillan G. J., García- Hipólito M. and Guzmán-Mendoza J. (Mexico) “*Novel Approach for Aroclor Dehalogenation by Biofilms Developed on Opuntia imbricata*”
- 17 **Gayda G.**, Demkiv O., Parizhak S. and Gonchar M. (Ukraine) “*Formaldehyde Dehydrogenase from Genetically Modified Methylophilic Yeast Hansenula Polymorpha: Isolation and Characterization*”
- 18 **Girelli A.M.**, Mattei E., Messina A. and Sinibaldi M. (Italy) “*Tyrosinase Immobilized Reactor for Fast Screening of Tea Antioxidant Capacity*”
- 19 Gorbacheva M.A., **Morozova O.V.**, **Shumakovich G.P.**, **Yaropolov A.I.** and **Shleev S.V.** (Russian Federation) “*Comparative Studies of High and Low-Redox Potential Laccases in Homogeneous and Heterogeneous Biocatalytic Reactions*”
- 20 **Grigorenko B.L.** (Russian Federation) “*Modeling Enzymatic Hydrolysis of Nucleoside Triphosphates*”
- 21 **Grigorenko V.G.**, Koliashnikov O.V., Egorov A.M., Schmid R.D. and Lange S. (Russian Federation) “*Recombinant Production of Horseradish Peroxidase Conjugates with Fab Antibodies in Pichia Pastoris for Analytical Applications*”
- 22 **Gudkov D.A.**, Lyagin I.V., Verkhusha V. and Efremenko E.N. (Russian Federation) “*Obtaining and Investigation of Properties of Fusion Protein Containing Both Superecliptic-Ph-Sensitive Fluorine and Organophosphorus Hydrolase*”
- 23 **Igloi A.**, Vig A., Adanyi N., Csutoras C. and Kiss A. (Hungary) “*Development of a Sulfite Oxidase Based Amperometric Biosensor Used in FIA System for the Determination of Sulfite*”
- 24 Garza-Garcia Y., Cerda-Ramirez F., Casas-Reyes A.J., Balagurusamy N. and **Ilyina A.** (Mexico) “*Selective Detection of E.coli by Combining Growth Kinetics with Bioluminescent Assay*”
- 25 **Ilyina A.**, Huerta-Guel P. J., Becerra-Jimenez M.J.E., Martinez-Hernandez J. L. and Rodríguez-Martínez J. (Mexico) “*Bovine Prostaglandin H Synthase Immobilization on Opuntia imbricata (Coyonoxtle): Stability and Activity*”
- 26 Cerda-Ramirez F., Ibarra-Coronado D. and **Ilyina A.** (Mexico) “*Combinatorial Synthesis of Peptides with Catalytic Activity*”
- 27 **Katayama T.** (Japan) “*1,2- α -L-Fucosidase of Bifidobacterium bifidum –Structure and Function*”
- 28 Korovina A.N., **Khandazhinskaya A.L.**, Matyugina E.S., Ivanov A.V., Victorova L.S. and Kukhanova M.K. (Russian Federation) “*New Nucleotide-Based Analogues with Antiviral Activities Against Both HIV and HSV*”
- 29 **Kleymenova A.A.** and Kozlov M.V. (Russian Federation) “*Examination of Blockers of Hepatitis C Virus Replication in Cell Culture*”
- 30 **Kokol V.** (Slovenia) “*The Influence of Static Magnetic Field on Laccase Catalysis and Reactive Dyes Degradation*”
- 31 Theodosiou E., Loutrari H., Magkouta S., Roussos C., Stamatis H. and **Kolisis F.N.** (Greece) “*Acylation of Flavonoids by Dicarboxylic Acids. The Potential Anti-Tumor and Anti-Angiogenic Properties of the Novel Analogues*”
- 32 Medvedko A.V., **Kurzeev S.A.**, Vasadze S.Z. and Kazankov G.M. (Russian Federation) “*Biomimetical Catalysis of Hydrolysis of α -Amino Acid Esters Promoted by Chiral Palladacycles*”

June 19, 20.30-22.00

Posters Session II.

- 33 **Kuznetsova T.V.**, Shevelev B.I. and Shevelev A.B. (Russian Federation) “*New System for TNF-Alpha Quantification in Clinical Samples*”
- 34 **Levashov P.A.**, Popova V.M., Popov D.V., Zhilenkov E.L., Dyatlov I.A., Klyachko N.L. and Levashov A.V. (Russian Federation) “*Isolation And Properties of Antibacterial Lytic Enzymes from Salmonella Enteritidis Phage SP7*”
- 35 **Lyagin I.V.**, Efremenko E.N. and Varfolomeyev S.D. (Russian Federation) “*Enzymatic Hydrolysis of Organophosphorous Compounds in Flow-Through System*”
- 36 **Morozova E.A.**, Kulikova V.V., Bazhulina N.P. and Demidkina T.V. (Russian Federation) “*L-methionine γ -Lyase Citrobacter freundii: Kinetic and Spectral Properties*”
- 37 Koshelev A.V., Matys V.Y., Nemashkalov V.A., Skomorovsky A.A., Ustinov B.B., Zorov I.N., Morozova V. V., Korotkova O. G., **Okunev O. N.** and Sinitsyn A. P. (Russian Federation) “*Biodegradation of Paper Parchment by Mycelium Fungi Penicillium and Trichoderma and Possibility of Their Application for Production of Cellulose-Lytic Enzymes and Bioethanol*”
- 38 Sinitsyn A.P., **Okunev O.N.** and Tsurikova N.V. (Russian Federation) “*Highly Active Strain of Mycelium Fungus Aspergillus Awamori – Producer of Glucoamylase*”
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