



ARCUS



SupraChem

International Workshop

"Medical and Biological Aspects of Supramolecular Chemistry"

Katsivel (Ukraine), 21 - 24 Septembre 2009

Monday 21 September

16.00 - 19.00 *Registration*
19.00 **welcome party**

Tuesday 22 September (morning session)

09.00 – 09.30 *Registration*
09.30 – 09.40 *Opening ceremony (S. Andronati, A. Varnek)*
09.40 – 10.20 Eric Westhof (Univ. Strasbourg, France)
 "Elementary Modules of RNA Architecture".
10.20 – 10.50 Alexandr I. Konovalov (Arbuzov Inst. Phys. Org. Chem., Kazan, Russia)
 "Role and development supramolecular systems in their relation to biological systems"
10.50 – 11.10 *coffee*
11.10 – 11.40 Vitaly Kalchenko (Inst. Org. Chem., Kiev, Ukraine)
 "Calixarenes in Bio-Medical Researches"
11.40 – 12.10 Michel Rohmer (UdS, Strasbourg, France)
 "The methylerythritol phosphate pathway for the formation of isoprene units: a new
target for antimicrobial drugs".
12.10 – 12.40 Mykhaylo Tukalo (Inst. Mol. Biology and Genetics, Kiev, Ukraine)
 "The molecular basis for errors editing by aminoacyl-tRNA synthetases".

12.30-15.00 *Lunch*

Tuesday 22 September (afternoon session)

15.00- 17.00 Round Table on the opportunities of East-West scientific projects and students and researches exchange in the framework of European programs or bilateral (French-Ukrainian, French-Russian, etc) projects – **animated by Dr Vladimir Mayer, Director of the CNRS office for ex-USSR countries and Dr Guillaume Colin, scientific attaché at the French Embassy in Ukraine**

Wednesday 23 September (morning session)

Chairmen: E. Westhof, A. Konovalov

09.00 – 09.40 Sergey..A. Andronati, Viktor E. Kuzmin (Bogatski Phys Chem. Inst., Odessa, Ukraine)

“Ligands of serotonin receptors. Structure, ligand-receptor recognition, functions, properties, QSAR”

09.40 – 10.10 Mir Wais Hosseini (Univ. Strasbourg, France)

“Recent advances in molecular tectonics”

10.10 – 10.40 Janusz Lipkowski (Inst. Phys.Chem., Warsaw, Poland)

“The problem of non-stoichiometry in supramolecular chemistry”

10.40 – 11.00 *coffee*

11.00 – 11.30 Marat Yusupov_(Univ. Strasbourg, France)

“High resolution structure of the ribosome containing three transfer RNAs”.

11.30 – 12.00 Alexandre Varnek (Univ. Strasbourg, France)

“Recent advances in virtual screening and early ADME/Tox predictions””

12.00 – 12.30 Andriy Vovk (Inst. Bioorg. Chem. and Petrochem, Kiev, Ukraine)

“Functionalized macrocycles as enzyme inhibitors and antioxidants in biological systems”

12.30-15.00 *Lunch*

Wednesday 23 September (afternoon)

15.00 **cultural program**

Thursday 24 September (morning session)

Chairmen: M.W. Hosseini, V. Kalchenko

09.00 – 09.40 Igor S. Antipin (Univ. Kazan, Russia)

“Functionalized (thia)calix[4]arenes for medical and sensor applications”.

09.40 – 10.10 Alain Krol (Univ. Strasbourg, France)

“A complex molecular machinery to incorporate selenium into proteins important for health and disease”

10.10 – 10.40 Yuri A. Simonov, Sergei A. Andronati (Inst. Chem., Kishinev, Moldova; Bogatski Phys Chem. Inst., Odessa, Ukraine)

“Intermolecular interaction in the structure of the 1,2-dihydro-3h-benzodiazepines”

10.40 – 11.00 *coffee*

11.00 – 11.30 Dmytro Hovorun, Alla Ponomaryova, Roman Zhurakivckiy, Yevgen Yurenko (Institute of Molecular Biology and Genetics, Kiev, Ukraine)

"What is the profit of quantum chemistry for understanding mechanisms of biological effects of modified nucleosides?"

11.30 – 12.00 Yuriy Korovin (Bogatski Phys Chem. Inst., Odessa, Ukraine)

"Luminescence of lanthanides in supramolecular chemistry: from investigations to bio-medical practice".

12.00 – 12.30 Oleg V. Shishkin (Institute for Single Crystals, Kharkov, Ukraine)

"Supramolecular functional materials for biological applications"

12.30 – 15.00 *Lunch*

Thursday 24 September (afternoon session)

Chairmen: M. Rohmer, I. Antipin

15.00 – 15.30 Mykola Kartel (Chuyko Institute of Surface Chemistry, Kiev, Ukraine)

"Biomedical aspects of carbon nanotubes"

15.30– 16.00 Victor Schwartau (Inst. Plant Physiol. Genetics, Kiev, Ukraine)

"Prospects of the use of supramolecular compounds in plant nutrition"

16.00 – 16.20 *coffee*

16.20– 17.10 V.Chirva, A.Zemlyakov, V.Tsikalova.(Vernadsky Taurida National Univ.
Crimea, Ukraine)

“Synthesis and biological activities of lipophylic glycosides of muramyldipeptide”

17.10-17.40 Igor Baskin (Lomonossov University of Moscow)

"Molecular simulation of receptors of physiologically active compounds for purposes of medical chemistry"

17.40 Volodymyr Novikov “Research activities in Lvov Polytechnic University”

17.55 *Closing*

19.30-.... *Conference dinner*