RECOOP HST ASSOCIATION

8th RECOOP Annual Project Review Meeting

Hotel International Zagreb

Croatia

October 19 – 21, 2017

Agenda of the 8th RECOOP Annual Project Review Meeting

Venue: Annual Project Review Meeting on October 20 - 21, 2017 in Hotel International, Zagreb.

Arrival on October 19 (Thursday) until 6 pm and
Departure on October 22 (Sunday).

October 19, 2017 (Thursday)

Arrival until 6 pm! RECOOP arranged and will cover the expenses for the grand transportation from the airport and the bus station with Zagreb Taxi Tel: +385 91 213 3103, E-mail: taxi@post.htnet.hr, Skype: zagrebtaxi1, www.zagrebtaxi.com

Visit the imaging facility GlowLab small animal MRI and preclinical optical imaging at School of Medicine, University of Zagreb.

Your tour guide is Srecko Gajovic will wait for you in the Hotel Lobby at **2:30 pm**. The transportation will be by RECOOP with the assistance of Zagreb Taxi. If you are interested please contact to Veronika Puska. Zagreb Taxi

Registration desk at Conference Corridor 6 pm-8 pm

8:00 pm Buffet Dinner – Restaurant

October 20, 2017 (Friday)

8:30 – 10:30 am Plenary Session - Grand Saloon

8:30 – 8:35 am **Welcome**
Edward Prunchunas

8:35 – 8:45 am **RECOOP Project Review**
Sandor G. Vari

8:45 – 09:15 am **Keynote scientific messages**
K1. **Patient stratification that transcends genomics: The story of 50,000 glycomes**
Gordan Lauc
University of Zagreb, Faculty of Pharmacy and Biochemistry & Genos Glycoscience Research Laboratory, Zagreb, Croatia

09:15 – 11:00 am Plenary Session – Preselection CMJ RECOOP 2018 Special Issue
7 manuscripts each for 12 minutes, panel discussion for 15 minutes.

Chairpersons:
Rudolf Poledne
Eva Szoko

Tibor Ertl

Cardiovascular Diseases
O1. Effects of carbohydrate and fat rich food and antidiabetic treatment on vasorelaxation in aortas of obese pre-diabetic elderly rats
Ines Drenjancevic, Department of Physiology and Immunology, University J. J. Strossmayer Osijek

O2. Clinical and immunological peculiarities in patients with drug-induced vasculitis on the background of active herpesvirus infection type 4, 5 and 6
Khrystyna Lishchuk-Yakymovych, Department of Clinical Immunology and Allergology Danylo Halytsky Lviv National Medical University

Reproductive Health
O3. Examination of the vascularization of fetal kidney with three-dimensional power Doppler technique in pregnancies complicated by increased maternal blood pressure
Andrea Gaspar Suranyi, Department of Obstetrics & Gynecology, Faculty of Medicine, University of Szeged, Hungary

O4. RhoA inhibitor and Rho-kinase inhibitors modulate the cervical resistance: RhoA/ Rho-kinase signal pathway may play a role in the cervical remodeling and smooth muscle contractility
Dora Domokos, Department of Pharmacodynamics and Biopharmacy, Faculty of Pharmacy University of Szeged, Hungary

O5. Effects of pregestational body mass index on perinatal outcomes of pregnant women with pregestational and gestational diabetes mellitus
Andras Molnar, Department of Obstetrics & Gynecology, Faculty of Medicine, University of Szeged, Hungary

O6. Evaluation of placental vascularization indices in monochorionic diamniotic and dichorionic diamniotic twin pregnancies
Abel Altorjay, Department of Obstetrics & Gynecology, Faculty of Medicine, University of Szeged, Hungary

Drug Development
O7. Effective treatment of NK/Ly lymphoma in BALB/C mice with synthetic 4-thiazolidinone derivatives does not demonstrate negative side effects characteristic for doxorubicin
Lesya Kobylinska, Department of Biochemistry, Danylo Halytsky Lviv National Medical University, Lviv, Ukraine

11:00 - 11:25 am Coffee Break - Conference Corridor

11:25 – 12:45 pm Plenary Session RECOOP Research Cross-section - Grand Saloon
5 presentation each for 12 minutes, panel discussion for 15 minutes.

Chairpersons:
Ines Drenjancevic

Tamas Tabi
Marija Heffer

Cardiovascular Diseases
O8. Inflammation of adipose tissue and atherosclerosis
Rudolf Poledne, Institute for Clinical and Experimental Medicine (IKEM), Prague, Czech Republic

Neurodegenerative Disorders
O9. Chronic stress and aging decreases cognition in premenopausal rats
Marta Balog, Josip Juraj Strossmayer University of Osijek, Croatia

O10. The grade of inflammation in liver and fat tissue of obese elderly Sprague-Dawley rats treated with metformin and liraglutide
Vedrana Ivic, Josip Juraj Strossmayer University of Osijek, Croatia

O11. RANKL/RANK/OPG Axis Is Deregulated in Cerebrospinal Fluid of Multiple Sclerosis Patients at Clinical Onset
Anton Glasnovic, University of Zagreb School of Medicine, Croatia

O12. In vivo imaging to evaluate consequences of hypoxia in the mouse brain
Srećko Gajović, University of Zagreb School of Medicine, Croatia

12:45 – 13:30 Plenary Poster Session - Grand Saloon
8 interactive poster presentation 5-minute ppt summary

Chairpersons:
Srecko Gajovic
Tatiana Borisova
Rostyslav Bilyy

Cardiovascular Diseases
P1. The expression of connexin 37 gene is modified by insulin resistance and by the arterial segment in experimental model of rat
Rudolf Poledne, Institute for Clinical and Experimental Medicine (IKEM), Prague, Czech Republic

Neurodegenerative Diseases
P2. Development of a novel transgenic mouse with bioluminescent neurons for in vivo imaging
Magdalena Valenta, University of Zagreb School of Medicine, Croatia

P3. MRI and bioluminescence in an animal model of ischemic brain stroke
Dunja Gorup, University of Zagreb School of Medicine, Croatia

P4. TLR2 expression in the mouse brain is upregulated after intermittent hypoxia
Dora Polsek, University of Zagreb School of Medicine, Croatia

P5. Galectin-3 levels correlate with left ventricular global longitudinal strain in systemic sclerosis patients
Vivien Vertes, University of Pécs, Hungary

P6. Assessment of sexual function in women with multiple sclerosis
Oksana Nehrych, Danylo Halytsky Lviv National Medical University, Ukraine

Oncology
P7. Soluble type III TGFβ receptor as a potential novel biomarker for breast cancer
Lovorka Grgurevic
University of Zagreb School of Medicine, Croatia

P8. Effects of pituitary adenylate-cyclase activating polypeptide and radiation on breast
Reka Anna Vass
University of Pécs, Hungary

01:30 – 02:00 pm Discussion at the Poster - Mediteran Room
Poster size 90cmW – 120cmH.

02:00 – 03:00 pm Buffet Lunch

03:30 – 04:30 pm CMJ workshop Mediteran Room

03:00 – 05:00 pm RECOOP 9th General Assembly Meeting - Grand Salon
Election of Presidency and Supervisory Board

October 21, 2017 (Saturday)

8:30 – 09:00 am Plenary Session - Grand Saloon
RECOOP Review - RECOOP 9th General Assembly Meeting
Sandor G. Vari

09:00 – 10:15 Plenary Poster Session - Grand Saloon
12 interactive poster presentation 5-minute ppt summary
Chairpersons:
Marija Heffer
Rostyslav Stoika
Robert Gaspar
Eva Szoko
Daniel Horak

Metabolic Disorders
P9. Inhibition of BMP1-3 reduces liver fibrosis in rats
Lovorka Grgurevic, University of Zagreb School of Medicine, Croatia

P10. In vivo noninvasive quantification of Brown Adipose Tissue in GC-C KO mice using chemical-shift water-fat MRI
Marina Dobrivojevic Radmilovic, University of Zagreb School of Medicine, Croatia

P11. Early Transient Hyperglycaemia and Oxygen Induced Retinopathy
Dorottya Balika, University of Pécs, Hungary

P12. Renal effects of acute postnatal hyperglycaemia in rats – preliminary study
Dorottya Balika, University of Pécs, Hungary

P13. Impact of inactivity on functional gastrointestinal diseases of lifestyle
Oksana Zayachkivska, Danylo Halytsky Lviv National Medical University, Ukraine

P14. Effects of high fat/sugar diet on haemostasis of pregnant rats
Volodymyr Chernyshenko, Palladin Institute of Biochemistry National Academy of Sciences Ukraine, Kiev, Ukraine

P15. Effects of high fat/sugar diet on lipid composition of blood plasma of pregnant rats
Iehor Hudz, Palladin Institute of Biochemistry National Academy of Sciences Ukraine, Kiev, Ukraine

Nanomedicine
P16. Effects of iron oxide nanoparticles on chondrocyte viability and differentiation
Maja Pusic, University of Zagreb School of Medicine, Croatia

P17. Effect of synthesis and different surface coatings on biological behavior of magnetic nanoparticles as a platform for colon cancer cell hyperthermia
Maksym Moskvin, Institute of Macromolecular Chemistry AS CR (IMCAS), Prague, Czech Republic

P18. Surface modification of different shapes Cd- and Pb- based core-shell nanoparticles by thiol contain compounds
Anna Lesiak, Department of Experimental Physics, Wroclaw University of Science and Technology, Poland

P19. Near infrared nanoprobes based on colloidal quantum dots and upconverting nanoparticles as an alternative to the organic dyes in biological optical imaging
Ewelina Fiedorczyk, Department of Experimental Physics, Wroclaw University of Science and Technology, Poland

P20. Comparison of the effects of detonation and static nanodiamonds on the platelet secretory granules acidification
Max Galkin, Palladin Institute of Biochemistry NAS of Ukraine, Kiev, Ukraine

10:15 – 11:00 am Discussion at the Poster - Mediteran Room
Poster size 90cmW – 120cmH.

11:00 - 11:25 am Coffee Break - Conference Corridor

11:25 – 01:15 pm Plenary Session Preselection - CMJ RECOOP 2018 Special Issue
7 manuscripts each for 12 minutes, panel discussion for 15 minutes.

Chairpersons:
Livia Simon Sarkadi
Tetyana Nehrych
Eva Szoko

Infections and Immunology
O13. Testing the applicability of modified swab collection method for enteroviral molecular diagnostics
Maria Borsanyiova, Enterovirus Laboratory, Institute of Microbiology, Faculty of Medicine Slovak Medical University, Bratislava, Slovak Republic

O14. Glycosylation of random IgG in distinct antibody-dependent and antibody-independent inflammatory diseases
Rostyslav Bilyy, Department of Cytology, Histology & Embryology, Danylo Halytsky Lviv National Medical University, Lviv, Ukraine

Metabolic Disorders
O15. Sex differences of oxidative stress and antioxidant status markers in the urine, plasma and saliva of healthy mice
Marianna Gyuraszova, Institute of Molecular Biomedicine, Faculty of Medicine, Comenius University, Bratislava, Slovak Republic

O16. Reference values of creatinine and urea in plasma and saliva of healthy mice
Alexandra Kovalcíkova, Institute of Molecular Biomedicine, Faculty of Medicine, Comenius University, Bratislava, Slovak Republic

O17. Prevalence of metabolic syndrome in young patients in Lviv during 2016 year.
Dariya Kutsyk, 1st Department of therapy and medical diagnostics FPGE,

Danylo Halytsky Lviv National Medical University, Lviv, Ukraine

O18. An epidemiological analysis of the incidence of food allergy in children in Lviv region (Ukraine)
Oksana Matsyura, 2nd Department of Pediatrics, Lviv City Children's Clinical Hospital Danylo Halytsky Lviv National Medical University, Lviv, Ukraine

Nanomedicine
O19. Monodisperse magnetic poly(glycidyl methacrylate) microspheres for detection of auto-antibodies in blood serum of patients with autoimmune diseases
Beata Zasonska, Department of Polymer Particles, Institute of Macromolecular Chemistry of Academy of Sciences of the Czech Republic, Prague, Czech Republic

01:15 – 02:15 pm Buffet Lunch

02:15 – 04:00 pm Plenary Session RECOOP Research Cross-section - Grand Saloon
6 presentations each for 12 minutes, panel discussion for 20 minutes.

Activities of Members and Partners
O19. Research activity for RECOOP-HST Association networking at the Institute of Cell Biology, NAS of Ukraine, in 2016-2017: main directions and perspectives
Rostyslav Stoika, Institute of Cell Biology, National Academy of Sciences of Ukraine, Lviv, Ukraine

O20. Medical students' participation in advancement of life sciences in a student dormitory with special requirements and environment
Tamas Daniel Csury, Medical Student, Faculty of Medicine, Semmelweis University, Budapest, Hungary

Metabolic Disorders
O21. Influence of Different Diets on Fatty Acid Composition of Adipose Tissues
Geza Muranszky, Szent István University, Budapest, Hungary

O22. The Role of H2S in stress: new insight on animal models and translational aspects
Oksana Zayachkivska, Danylo Halytsky Lviv National Medical University, Ukraine

Reproductive Health
O23. Modification of IgG-glycosylation and plasma N-glycome related to obesity during pregnancy
Boglarka Donczo, Research Centre for Molecular Medicine, Horvath Laboratory of Bioseparation Sciences, Faculty of Medicine, University of Debrecen, Hungary

O24. The impact of obesity on pregnant rat uterine contractility: crosstalk of adipokines and Wnt proteins
Judit Hajagos-Toth, Department of Pharmacodynamics and Biopharmacy, Faculty of Pharmacy University of Szeged, Hungary

04:00 - 04:30 pm Coffee Break - Conference Corridor

04:30 – 05:15 pm Plenary Session RECOOP Research Cross-section - Grand Saloon
3 presentations each for 12 minutes, panel discussion for 10 minutes.

Chairpersons:
Artur Podhorodecki
Rostyslav Panchuk
Daniel Horak

Drug Development
O25. Structure-based drug design: 4-thiazolidinones application
Danylo Kaminskyy, Danylo Halytsky Lviv National Medical University, Ukraine

Nanomedicine
O26. Surface engineering of fluorides nanocrystals and quantum dots with use of modified polymeric and silica shells
Artur Podhorodecki, Department of Experimental Physics, Wroclaw University of Science and Technology, Poland

O27. The physiological protein/nanoparticle complex ferritin as a relevant native prototype of engineering nanoparticles enclosed by biocorona
Kostiantyn Paliienko, Palladin Institute of Biochemistry NAS of Ukraine, Kiev, Ukraine

05:15 – 06:30 pm Plenary Poster Session
15 interactive poster presentation 5-minute ppt summary

Chairpersons:
Lesya Kobylinska
Andrijana Muller
Andrea Suranyi
Tibor Ertl
Danylo Kaminskyy
Sandor G. Vari

Reproductive Health
P21. Pregnancy in women diagnosed with hereditary thrombophilia: review of the clinical practice
Dina Sisljagic, Josip Juraj Strossmayer University of Osijek, Croatia

P22. GABA signaling pathway key molecules are expressed in mouse and human cervical tissue
Marija Curlin, University of Zagreb School of Medicine, Croatia

P23. Mast cells in the human foetal testis
Viviana Kozina, University of Zagreb School of Medicine, Croatia

P24. Sexual Dimorphism of the Extraorbital Lacrimal Glands in Sf-1 Knockout Mice
Kristina Semanjski, University of Zagreb School of Medicine, Croatia

Drug Development Plenary Poster Session

P25. Summarizing recent advances in the search for new antitrypanosomals among the thiazolidine-based compounds
Anna Kryshchyshyn, Danylo Halytsky Lviv National Medical University, Ukraine

P26. Antineoplastcic activity of pyrazoline-thiazolidinone derivatives Les-4522-4527 depends on halogenization of their indoline and phenyl side groups
Rostyslav Panchuk, Institute of Cell Biology, National Academy of Sciences of Ukraine, Lviv, Ukraine

BMYS Research Grants Final Report 2016 -2017

P27. Correlation between placental vascularization indices and sFlt-1/PlGF ratio in preeclampsia screening
Abel Tamas Altorjay, Department of Obstetrics and Gynecology, University of Szeged, Hungary

P28. The role of insulin resistance and altered structure of lipid rafts in neurodegenerative disorders
Fruzsina Bagamery, Department of Pharmacodynamics, Semmelweis University, Budapest, Hungary

P29. The role of oxidative stress in development of impaired vascular response in obese pre-diabetic elderly rats of both sexes treated with metformin or liraglutide
Zrinka Mihaljevic, Department of Physiology and Immunology, Faculty of Medicine, University Josip Juraj Strossmayer Osijek, Croatia

BMYS Research Grants Interim Report 2017 - 2018

P30. Superparamagnetic iron oxide nanoparticles as bio-imaging agent and carrier of anticancer drugs
Andrii Lozynskyi, Department of Pharmaceutical & Organic and Bioorganic Chemistry, Danylo Halytsky Lviv National Medical University, Ukraine

BMYS Research Grants New Applications 2017 - 2018

P31. Polymorphic variants of interleukin-13 R130Q and interleukin-4 T589C in children with and without cow's milk allergy
Oksana Matsyura, Department of Pediatrics №2 in Danylo Halytsky Lviv National, Lviv City Children’s Clinical Hospital, Ukraine

P32. Enterovirus diagnosis: Upgrading to a higher level
Martin Sojka, Enterovirus laboratory, Department of Microbiology, Medical Faculty Slovak Medical University, Bratislava, Slovak Republic

Recommended for resubmission just for review no presentation
Correlation between placental vascularization indices, sFlt-1/PlGF ratio and haemostatic factors in pregnancy hypertension.
Applicant young scientist: Abel Tamas Altorjay
Applicant organization: Obstetrics and Gynecology, University of Szeged, Hungary
Comments: The application is in the scope of the RECOOP Research Strategy – Common Mechanism of Diseases. The partnership should be reorganized and shell collect more preliminary data to prove concept. The applicant just completing the previous ground, therefore recommended to resubmit for the April 2018 competition.

Development of novel potent antitrypanosomals based on 4-thiazolidinone core
Project period: 24 months
Applicant young scientist: Anna Kryshchyshyn
Applicant organization: Department of Pharmaceutical & Organic and Bioorganic Chemistry Danylo Halytsky Lviv National Medical University, Lviv, Ukraine
Comments: The application is partially in the scope of the RECOOP Research Strategy – Common Mechanism of Diseases. The applicant extended the grant project lifetime for two years without consulting with the President of RECOOP has the authority to consent the extension of the project beyond one year. The applicant also included travel cost should be paid by RECOOP to visit third party collaborator has no active role in RECOOP, therefore after necessary correction recommended to resubmit for the April 2018 competition.

Protein biocorona formation at the nanoparticle surface and consequent changes in their properties during medical application
Project period: 24 months
Applicant young scientist: Arsenii Borysov
Applicant organization: Palladin Institute of Biochemistry, National Academy of Sciences of Ukraine
Comments: The application is in the scope of the RECOOP Research Strategy – Common Mechanism of Diseases, however it is more basic science than translational research. The applicant extended the grant project lifetime for two years without consulting with the President of RECOOP has the authority to consent the extension of the project beyond one year. After necessary correction recommended to resubmit for the April 2018 competition.

06:30 – 07:30 Discussion at the Poster - Mediteran Room
Poster size 90cmW – 120cmH.

07:30 – 08:00 Closing remarks

8:00 pm Buffet Dinner – Restaurant

October 21, 2017 (Sunday)

Departure

RECOOP 13th Bridges in Life Science Annual Conference on April 12 – 15, 2018, Hotel International Zagreb, Miramarska 24, Zagreb 10000, Croatia
http://www.hotel-international.hr