

4th Molecular Cell and Immune Biology Winter School



organized by UD Genomed (Debrecen, Hungary)

Galyatető January 11-14, 2011

17:55-18:10

Kitti Pázmándi:

Human plasmacytoid dendritic cells exposed to oxidative stress promote Th2 polarization

18:10-18:25

Zsolt Czimmerer

Identification of new human alternative macrophage activation markers

18:25-20:00pm Dinner

20:00-22:05pm

Section 2:

Chair: Zsolt Bacsó

Intorductory lecture

20:00-20:15

István Balog:

Molecular analysis of severe inherited diseases affecting cholesterol metabolism

20:15-20:30

Gábor Szabó:

ABC, lest we die? Regulation of ABC transporters by ATP.

Regular Talks

20:30-20:45

Orsolya Bársony:

Relationships between UIC2 mAb binding and the catalytic cycle of P-glycoprotein revisited

20:45-21:00

Péter Brázda:

The diffusion profiles of RAR and RXR: a comparison based on correlation spectroscopy measurements

21:00-21:15

Balázs Bravics:

Investigation the interaction between nuclear receptors by fluorescence cross correlation spectroscopy (FCCS) and fluorescence resonance energy transfer (FRET)

21:15-21:30

Krisztina Matúz:

Studies on the inhibition of gammaretrovirus XMRV protease.

21:30-21:45

Péter Lábiscsák:

Protein characterization and bacterial identification using top-down proteomics approaches.

21:45-22:05

Éva Csósz:

Proteomics solutions in solving complex problems. 2010 in the Proteomics Core Facility - annual report.

January 12

7:00am Breakfast

8:00-10:30am

Section 3

Chair: István Balogh

Introductory lectures

8.00-8.20

Goran Petrovski:

The vascular endothelial growth factor (Lasker Clinical Medical Research Award, 2010)

8.20-8:40

Endre Barta:

What can we learn from the bioinformatic analysis of ChIP-seq data?

Regular talks

8.40-8.55

Gergely Nagy:

Model systems for studying the promoter evolution

8:55-9:10

János Mótján:

In vitro and in silico studies on α -amylase enzymes

9:10-9:25
Bertalan Meskó:
Peripheral blood gene expression in autoimmune diseases

9:25-9:40
Szilárd Póliska:
Genetic analysis of chronic inflammatory diseases

9:40-9:55
Alíz Varga:
Nod-like receptors (NLRs) in epithelial cells

9:55-10:10
György Fenyőfalvi:
Come on and twist again! Superhelicity revisited

10:10-10:30
Bálint L. Bálint:
An update about the Clinical Genomics Center: Next Generation Sequencing has arrived to Debrecen!

10:30am-16:30pm Skiing, swimming, and excursion

16:30-18:30pm **Section 4:** **Chair: Attila Bácsi**

Intorductory lecture

16:30-16:50
Zsolt Bacsó:
Endocytosis of rafts

Regular talks

16:50-17:05
Zsuzsa Gutayiné Tóth:
Trafficking with Pgp

17:05-17:20
Zsolt Sarang:
Retinoids enhance the phagocytic activity of macrophages engulfing apoptotic cells

17:20-17:35

Krisztina Köröskényi:

Involvement of adenosine A2A receptors in engulfment-dependent apoptotic cell suppression of inflammation

17:35-17:50

Edina Keresztes:

Involvement of adenosine A3 receptors in the regulation of engulfment-dependent apoptotic cell suppression of inflammation

17:50-18:05

Gizem Ayna:

Clearance of dying autophagic cells induces the inflammasome pathway in primed mouse macrophages

18:05-18.20

Zoltán Doró:

Proinflammatory cytokine (IL-6,IL-1 β) studies after phagocytosis of differently dying cells by murine macrophages

18:20-18:30

Endre Kristóf:

Role of ICAM3 in the phagocytosis of apoptotic neutrophils by human macrophages

18:30- 20:00pm Dinner

20:00-21:50pm

Section 5:

Chair: Szilvia Benkő

Intorductory lectures

20:00-20.20

László Fésüs:

The leptin story (Lasker Basic Medical Research Award, 2010)

20:20-20.50

István Szatmári:

The Stem Cell Laboratory. Recent development in stem cell discoveries.

Regular talks

20:50-21:05

Boglárka Tóth:

Adhesion and proliferation studies on coeliac-risk HUVECs

21:05-21:20

Anitta Sárvári:

Studying in vitro human adipocytes' apoptosis

21.20-21:35

Zoltán Simándi:

Retinoid signaling in embryonic stem cell differentiation

21:35-21:50

Réka Albert:

Cultivation of limbal stem-cells derived corneal epithelium on different biologic materials for clinical transplantation.

January 13

7:00am Breakfast

8:00-10:30am

Section 6:

Chair: Bálint L. Bálint

Intorductory lectures

8:00-8:20

Zsuzsa Szondy:

Potential signals regulating apoptosis and phagocytosis of apoptotic thymocytes in the thymus

8:20- 8.40

Ralph Rühl:

Retinoids, carotenoids and PUFAs: Novel bioactive metabolites and effects on atopic diseases

Regular talks

8:40-8:55

Yasamin Kasiri:

Lycopene: Pro-vitamin A activity and nuclear receptor activation

8:55-9:10

Bea Kiss:

Retinoids induce a Nur77-dependent apoptosis in mouse thymocytes

9:10-9:25

Katalin Tóth:

Retinoids promote glucocorticoid-induced apoptosis of thymocytes by enhancing the transcriptional activity of the glucocorticoid receptor

9:25-9:40

Éva Garabuczi:

Retinoids might contribute to the upregulation of transglutaminase 2 in apoptotic thymocytes

9:40-9:55

Janine Gericke:

Retinoid signalling in the skin: Relevance for atopic dermatitis

9:55-10:10

Attila Pap:

Phenotypic characterization of a full body PPARgamma KO mouse

10:10-10:30

Ralph Rühl:

The Lipidomics Core Facility

10:30am-16:30pm Skiing, swimming, and excursion

16:30-18:00pm

Section 7:

Chair: Árpád Lányi

Intorductory lectures

16.30-17:00

Sándor Bíró: Genetics of polymorphism

Regular talks

17:30-17:45

Gergely Buglyó:

Clinical association of mutations and expression abnormalities of the gene WT1

17:45-18.00

Róbert Király:

Investigation of transglutaminase 2 SNP variants

18:00-18:30pm

Section 8:

Poster viewing

Zsófia Agod:

Characterization of CD84 splice variants in immunocompetent cells

Erika Berényi (iGEM Team):

Developing and testing of apoptosis inducing Tet-on eucaryotic expression system relevance to iGEM FRC25 standard

Bence Dániel:

Characterization of the putative direct physical interaction between PPAR γ and STAT6 by GST pulldown experiments

Mária Golda:

Functional study of the retrotransposon-derived protein PEG10

Gergely Joós:

Retinoids enhance the phagocytotic capacity of macrophages engulfing apoptotic cells

Melinda Paholcsek:

Novel methods in Aspergillus diagnosis

Katalin Sándor (iGEM Team):

Investigation of activity of *Caenorhabditis elegans* nuclear receptors to complex environmental samples

Krisztina Szabó:

Inhomogeneous static magnetic field affects pollen-induced allergic airway inflammation in mice

Gábor Szalóki:

Interactions of retinoids with P-glycoprotein

Szabolcs Tarapcsák:

Interactions of retinoids with ABCG2

18:30-20:00pm Dinner

20:00-21:45pm

Section 9:

Chair: István Szatmári

Intorductory lectures

20:00-20.20

Attila Bácsi:

The possible role of 8-oxoguanine in the development of inflammation

20:20-20.40
Tamás Varga:
Macrophage PPAR γ and muscle regeneration

Regular talks

20:40-20.55
Emöke Bartók:
Metabolism and bioactivation of lycopene

20:55-21:10
Johanna Mihály:
PUFAs, PUFA-metabolites and eicosanoids in human atopic dermatitis

21:10-21:25
Ferenc Tóth:
"In vitro" experiments with the capsid mutants of HIV-1.

21:25-21:45
Attila Pap:
Laboratory Animal Core Facility 2010

January 14

7:00am Breakfast

8:00-10:30am

Section 9:

Chair: Katalin Goda

Intorductory lectures

8:00-8:20
Lóránt Székvölgyi:
Epigenetic regulation of homologous recombination in the yeast
Saccharomyces cerevisiae

8:20-8.40
Bálint L. Bálint:
Carl Wieman about a scientific approach to science education

Regular talks

8:40-8:55

István Német:

Studying proinflammatory cytokine production of tissue transglutaminase deficient neutrophil granulocytes

8:55-9:10

Melinda Oros:

Ethanol increases phosphate-mediated mineralization and osteoblastic transformation of vascular smooth muscle cells

9.10-10.10

Bálint L. Bálint and the iGEM Team Debrecen-Hungary:

Modular tools and team work: results of the Debrecen-Hungary team at the MIT in Boston

General discussion

10:30pm

Concluding remarks:

Éva Rajnavölgyi

József Tőzsér

Gábor Szabó

László Fésüs