



14th International Symposium on Cells of the Hepatic Sinusoid

Aug. 31 - Sept. 4, 2008
Tromsø, Norway

PROGRAM

SUNDAY August 31, 2008

15:00 Registration at Rica Ishavs Hotel

19:30 Welcoming remarks: Tromsø City Hall

19:45 Welcome reception in the Tromsø City Hall

MONDAY September 1, 2008

08:30 *Bård Smedsrød* Welcome

08:45 *Eddie Wisse*: Differences in sinusoids and sinusoidal cells in rat, mouse, rabbit, pig and human liver (key note)

Session I Liver sinusoidal endothelial cells: Endocytosis

Chair Eddie Wisse and Bård Smedsrød

09:30 *Peter McCourt* Liver sinusoidal endothelial cells - mega-endocytes (tutorial)

10:00 *Sergij Goerdts* Molecular biology of hepatic sinusoidal endothelium (tutorial)

10:30 *Coffee break*

Session II Liver sinusoidal endothelial cells: Endocytosis and comparative biology

Chair Masaya Oda and Clark Anderson

11:00 *Clark Anderson* FcγRIIb2 expression in endothelium of liver and placenta (tutorial)

11:30 *Trond Berg* Endocytosis and recycling of immune complexes mediated by the FcγRIIb2 in rat liver sinusoidal endothelial cells

11:50 *Clive Crossley* Invertebrate analogues of hepatic sinusoidal scavenger systems (tutorial)

12:20 *Montserrat Martin-Armas* Uptake of oligonucleotides by scavenger endothelial cells in the Atlantic cod (*Gadus morhua*, L.)

12:40 *Vijay K. Kalra* Hypoxia inducible factor (HIF-1α) and related miRNAs in the regulation of ethanol induced inflammatory genes in liver sinusoidal endothelial cells

13:00 *Iñigo Martinez* The influence of oxygen tension on the structure and function of isolated liver sinusoidal endothelial cells

13:15 *Jaione Simon-Santamaria* Age-related changes in scavenger-receptor mediated endocytosis in rat liver sinusoidal endothelial cells. #10

13:30 *Lunch at Rica Ishavs Hotel*

Session III Liver sinusoidal endothelial cells: Cytoskeleton

Chair Robert McCuskey and David LeCouteur

14:30 *David LeCouteur* Old age and the hepatic sinusoid (tutorial)

15:00 *Robert McCuskey* Age-related dysfunction in the hepatic microcirculation

15:20 *Robin Fraser* Atherosclerosis, lipoproteins and the liver sieve

15:40 *Masaya Oda* Different expressions of Aquaporin-1 in normal and cirrhotic human liver – Demonstrating the capillarization of hepatic sinusoids

16:00 *Coffee break*

Session IV Liver sinusoidal endothelial cells: Cytoskeleton continued

16:30 *Frederic Saltel* Implication of cortactin, a regulator of actin cytoskeleton assembly, in the control of fenestration in liver sinusoidal endothelial cells

16:50 *Katsuhiko Enomoto* Involvement of signaling of VEGF and TGF-β in differentiation of sinusoidal endothelial cells during culture of fetal rat liver cells

17:10 *Beatriz Arteta* Integrin LFA-1 enables colon carcinoma cells to upregulate sinusoidal

endothelial cell mannose receptor via interleukin-1 dependent mechanism: implications on anti-tumor immunity inhibition during hepatic metastasis

Free evening

TUESDAY September 2, 2008

Session V Kupffer cells

Chair Hartmut Jaeschke and Laura Nagy

09:00 *Laura Nagy* Innate immune responses and alcoholic liver disease: Role of Kupffer cells (tutorial)

09:30 *Takashi Yamamoto* Kinetics and replacement of Kupffer cells after bone marrow transplantation in mice and rats

09:50 *Nicolas Lanthier* High fat feeding induces hepatic insulin resistance and preferential distribution of Kupffer cells around lipid loaded hepatocytes

10:10 *Joan Clària* Arachinodate 5-lipoxygenase modulates hepatocyte fatty acid uptake and microsomal triglyceride transfer protein activity

10:30 Coffee break

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Session V Kupffer cells continued

11:00 *Daniela Gärtner* Cross talk between PGE2- and IL-6-mediated signaling pathways in cultured rat Kupffer cells

11:20 *Hartmut Jaeschke* The inflammatory response during drug-induced liver injury: Toxicity versus regeneration

11:40 *Maria K. Dahle* Cecal ligation and puncture sepsis is associated with a shift in adenylyl cyclase expression in sinusoidal liver cells

12:00 – 13:00 Business meeting

13:00 – 14:00 Lunch at Rica Ishavs Hotel

18:00-23:30: Excursion: Boat to Sommarøya, and dinner there

WEDNESDAY September 3, 2008

Session VI Stellate cells: Signaling and gene regulation

Chair Kenjiro Wake and Jelena Mann

09:00 *Norifumi Kawada* Splanchnic vitamin A-storing cell system and organ fibrogenesis (tutorial)

09:30 *Erica Novo* Modulation of human hepatic stellate cells chemotaxis by intracellular ROS generation and c-Jun N-terminal kinase activation

09:50 *Gunter Maubach* Cysteine cathepsins in hepatic stellate cells

10:10 *Hidekazu Tsukamoto* Canonical Wnt signaling and hepatic stellate cells

10:30 *Ilse Bockx* Proliferation of hepatic stellate cells in rats with acute hepatitis is independent on vagal innervation via muscarinic acetylcholine receptor subtype 2

10:50 Coffee break

Session VII Stellate cells: Signaling and gene regulation continued

Chair Haruki Senoo and Hidekazu Tsukamoto

11:20 *Jelena Mann* Epigenetic regulation of hepatic stellate cells (tutorial)

11:50 *Yoshihiro Mezaki* Rat hepatic stellate cells acquire retinoid responsiveness after activation in vitro

12:10 *Kiwamu Yoshikawa* Involvement of ADRP and TIP47 in lipid droplets formation of hepatic stellate cells

12:30 *Richard George Ruddell* Hepatic stellate cells express Tim-2: A possible mediator of ferritin-induced NfκB activation and proinflammatory gene expression

12:50 *Keisuke Nagatsuma* Cellular distribution of lecithin: retinol acyltransferase (LRAT) and cellular retinol binding protein-1 (CRBP-1) in human normal and pathological livers

13:30 – 14:30 Lunch at Rica Ishavs Hotel

14:30 – 15:30 Poster session

Session VIII Stellate cells: Modulators of liver fibrosis

Chair Trond Berg and Kenichi Ikejima

15:30 *Michele Pritchard* Expression of the transcription factor, early growth response (Egr)-1, is

a critical regulator of carbontetrachloride-induced fibrosis in mice

15:50 *Noriko Yamaguchi* Vitamin E suppressed the proliferation and induced apoptosis of "activated" hepatic stellate cells

16:10 *Peter Witters* Blood platelets in cholestatic liver disease

16:30 *Tomohiro Ogawa* Study on a rabbit model of steatohepatitis that develops liver cirrhosis

16:50 *Kenichi Ikejima* C-reactive protein minimizes experimental hepatic fibrosis by inhibiting transactivation of hepatic stellate cells

17:10 *Soichi Kojima* Detection and prevention of hepatic fibrosis targeting TGF- β activation reaction

20:00 Conference dinner at Rica Ishavs Hotel

THURSDAY September 4, 2008

Session IX Stellate cells: comparative morphology and methods

Chair Norifumi Kawada and Soichi Kojima

09:00 *Haruki Senoo* Extracellular matrix in sinusoidal wall of frozen mammoths

09:20 *Mitsutaka Miura* A study of morphological changes in lamprey liver during the course of metamorphosis with special reference to hepatic stellate cells

09:40 *Anna Nakamura* Cryopreservation for long-term storage of human primary cultured hepatic stellate cells

10:00 Coffee break

Session X Immunology/Tumor Biology

Chair Makoto Naito and Fernando Vidal-Vanaclocha

10:30 *Percy Knolle* Immunobiology of liver sinusoidal endothelial cells (tutorial)

11:00 *Fernando Vidal-Vanaclocha* The prometastatic environment of the liver (tutorial)

11:30 *Aritz Lopategi* Nerve growth factor expression by hepatic parenchymal and nonparenchymal cells during metastatic colorectal development in human and murine liver

11:50 *Tatyana Korolenko* Tumor-associated macrophages in experimental murine tumors

12:10 Closing remarks by Bård Smedsrød