

Hyaluronan 2003

MEETING SCHEDULE

Saturday, October 11, 2003

3:00 p.m. – 6:30 p.m.

Registration and Check-in
Assemble Posters (3rd Floor Foyer)
Tribute to Torvard C. Laurent by John Scott:
“Torvard C. Laurent – A Touch of Elegance”
followed by Welcome Reception

6:30 p.m.

Sunday, October 12, 2003

7:30 a.m. – 8:00 a.m.

Continental Breakfast

8:00 a.m. – 12:00 noon

Session 1. STRUCTURE AND SOLUTION
PROPERTIES

12:00 noon. – 1:00 p.m.

LUNCH

1:00 p.m. – 5:00 p.m.

Session 2. BIOSYNTHESIS

7:30 p.m. – 10:00 p.m.

Poster Session

Monday, October 13, 2003

7:30 a.m. – 8:00 a.m.

Continental Breakfast

8:00 a.m. – 12:00 noon

Session 3. BIODEGRADATION

12:00 noon – 1:00 p.m.

LUNCH

1:00 p.m. – 5:00 p.m.

Session 4. TUMOR BIOLOGY

7:30 p.m. – 10:30 p.m.

Session 5. THERAPEUTIC USE OF MODIFIED
HYALURONANS

Tuesday, October 14, 2003

7:30 a.m. – 8:00 a.m.

Continental Breakfast

8:00 a.m. – 12:00 noon

Session 6. MUSCOLOSKELETAL SYSTEM

12:00 noon – 1:00 p.m.

LUNCH

1:00 p.m. – 5:00 p.m.

Session 7. EPITHELIAL AND ENDOTHELIAL
TISSUES AND SKIN

6:30 p.m.

The Cleveland Museum of Art Featuring “Apollo’s
Fire” Concert

Wednesday, October 15, 2003

7:30 a.m. – 8:00 a.m.

Continental Breakfast

8:00 a.m. – 12:00 p.m.

Session 8. REPRODUCTIVE SYSTEMS,
DEVELOPMENT AND AGING

12:00 noon – 1:00 p.m.

LUNCH

4:00 p.m. – 6:00 p.m.

Poster Session

7:00 p.m.

Banquet

Thursday, October 16, 2003

7:30 a.m. – 8:00 a.m.

Continental Breakfast

8:00 a.m. – 12:00 noon

Session 9. NEURAL TISSUES AND KIDNEY

12:00 noon – 1:00 p.m.

LUNCH

1:00 p.m. – 5:00 p.m.

Session 10. INFLAMMATION, GRANULATION
AND TISSUE REGENERATION

PROGRAM

Session 1

Chairs: Cowman, M.K. and Hardingham, T.

- 8:00 – 8:05** **Introduction by Timothy Hardingham**
- 8:05 – 8:30** **Influence of environment on hyaluronan shape**
Cowman M.K., Matsuoka, S. and Balazs, E.A.
- 8:35 – 8:55** **The molecular basis of the solution properties of hyaluronan**
Hardingham, T.
- 9:00 – 9:25** **Hyaluronan: A paradox of polymeric order and chaos**
Sheehan, J. and Almond, A.
- 9:30 – 9:40** **Dynamic conformational predictions for hyaluronan oligosaccharides:**
Poster # 1 **using NMR to confirm aqueous simulations**
Almond, A., Colebrooke, S.A., DeAngelis, P.L., Mahoney, D.J., Day, A.J. and Blundell, C.D.
- 9:45 – 10:15** **Coffee Break**
- 10:15 – 10:40** **HA tertiary structure and its enzymatic degradation, the effect of chemical modification**
Scott, J.E.
- 10:45 – 11:10** **Viral stimuli induce novel hyaluronan cable structures on colon smooth muscle cells that bind leukocytes externally and nuclei internally**
de la Motte, C.A., Drazba, J., Bandyopadhyay, S., Majors, A., Hascall, V.C. and Strong, S.A.
- 11:15 – 11:25** **Hyaluronan mediated adhesion: visualizing pericellular hyaluronan and studying its role in cell-matrix adhesion**
Poster # 2
Cohen, M., Klein, E., Addadi, L. and Geiger, B.
- 11:30 – 11:40** **Central role of hyaluronan in regulating the functions of multiligand binding human hyaluronan binding protein (HABP1)**
Poster # 3
Jha, B.K., Dinakar, Salunke, M. and Datta, K.
- 11:45 – 11:55** **Isolation and partial characterization of human lung hyaluronan (HA)**
Poster # 4
Mascarenhas, M., Garg, H.G., Hales, C.A. and Quinn, D.A.

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 2

Chairs: Kimata, K. and Weigel, P.

- 1:00 – 1:10**
Poster # 18 **Understanding the molecular and cellular functions of hyaluronan synthases – questions, challenges, the translocation paradox and the pendulum hypothesis**
Weigel, P.
- 1:15 – 1:40** **Mechanism of hyaluronan biosynthesis by the class I streptococcal hyaluronan synthases**
Tlapak-Simmons, V.L., Baron, C.A., Gotschall, R., Haque, D., Canfield, W.M. and Weigel, P.H.
- 1:45 – 2:10** **Vertebrate hyaluronan synthases: functional unit mass, UDP-sugar precursor structural requirements, and product size control**
Pummill, P.E. and DeAngelis, P.L.
- 2:15 – 2:25**
Poster # 19 **Hyaluronic acid production by streptococcus equi subsp zooepidemicus**
Nielsen, L.K., Blank, L.M. Fong Chong, B., McLaughlin, R. and O'Neil, B.
- 2:30 – 2:40**
Poster # 20 **Use of GPC-MALLS to analyze the hyaluronan size distributions made by chemical membrane-bound hyaluronan synthases**
Baggenstoss, B.A. and Weigel, P.H.
- 2:45 – 3:15** **Coffee Break**
- 3:15 – 3:40** **A novel mechanism for inhibition of hyaluronan biosynthesis by 4-methylumbelliferone**
Itano, N., Kakizaki, I., Mita, S., Endo, M., Takagaki, K. and Kimata, K.
- 3:45 – 3:55**
Poster # 21 **Production of defined monodisperse hyaluronan polymers with the pasteurella hyaluronan synthase; new tools for investigating HA biology**
Jing, W., O'Bar, A., Oatman, L.C., DeAngelis, P.L.
- 4:00 – 4:10**
Poster # 22 **Molecular cloning, genomic organization and developmental expression of the xenopus laevis hyaluronan synthase 3**
Vigetti, D., Viola, M., Cereda, E., Gornati, R., Karousou, E., Ori, M., Nardi, I., Bernardini, G., Passi, A. and DeLuca, G.
- 4:15 – 4:25**
Poster # 23 **A natural antisense mRNA to HAS2 down regulates HAS2 mRNA, hyaluronan biosynthesis and inhibits cell proliferation**
Chao, H. and Spicer, A.P.
- 4:30 – 4:40**
Poster # 24 **Overexpression of hyaluronan synthases alters vascular smooth muscle cell phenotype**
Wilkinson, T.S., Bressler, S.L., Evanko, S.P., Braun, K.R., Tsoi, C. and Wight, T.N.
- 4:45 – 4:55**
Poster # 25 **Synthesis of hyaluronan during growth and differentiation of 3T3-L1 adipocytes**
Allingham, P.G., Brownlee, G., Udabage, L., Harper, G.S. and Brown, T.J.

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 3

Chairs: Phillips, G. and Stern, R.

- 8:00 – 8:10** **Biodegradation of hyaluronan systems by free radicals**
Phillips, G.O.
- 8:15 – 8:40** **The chain scission of hyaluronan by free radicals and other reactive oxidative species**
Parsons, B.J.
- 8:45 – 8:55** **A pathway for HA catabolism in somatic tissues**
Stern, R.
- 9:00 – 9:20** **Control of hyaluronan homeostasis**
Lepperdinger, G.
- 9:25 – 9:35** **Cellular regulation of CD44-mediated catabolism of hyaluronan**
Poster # 29 Knudson, W., Peterson, R.S., Embry, J.J., Wang, W. and Chow, G.
- 9:40 – 9:50** **Hyaluronan degradation in epidermis**
Poster # 30 Tammi, R.H., Pasonen-Seppänen, S., Kultti, A., Hyttinen, J.M.T., MacCallum, D.K., Hascall, V.C. and Tammi, M.I.
- 9:55 – 10:05** **Hyaluronan internalization and processing: potential relationship to antiproliferative effects of hyaluronan oligosaccharides in smooth muscle cells**
Poster # 31 Evanko, S.P., Daum, G., Barg, A.R., Chang, M.Y. and Wight, T.N.
- 10:10 – 10:40** **Coffee Break**
- 10:40 – 10:50** **The hyaluronidase HYAL2 associates with lipid rafts**
Poster # 32 Van Moer, K., Mertens-Strijthagen, J., Duterme, C., Dombret, C., Jadot, M. and Flamion, B.
- 10:55 – 11:05** **Hyaluronidases: toward unraveling the function of the individual gene family members**
Poster # 33 Triggs-Raine, B., Hemming, R., Martin, D., Patel, N., Salo, T., Dyck, T., Slominski, E., Natowicz, M. and Pind, S.
- 11:10 – 11:20** **Characterization of human hyaluronidase 1**
Poster # 34 Byers, S., Lee, J., Fietz, M. and Thomas, B.J.
- 11:25 – 11:35** **SPAM1 (PH-20) expression along the mammalian male reproductive tract, the accessory organs, and the kidney: evidence for multiple roles in the extratesticular pathway**
Poster # 35 Matrin-DeLeon, P.A., Zhang, H., Evans, E.A., Jones, R., Morales, C.R. and Grigorieva, A.
- 11:40 – 11:55** **Degradation of hyaluronan: structure and mechanism of polysaccharide-degrading enzymes**
Poster # 36 Jedrzejak, M.J.

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 4

Chairs: Toole, B.P. and Turley, E.A.

- 1:00 – 1:05** **Introduction by Eva Turley**
- 1:05 – 1:25** **Signaling through RHAMM regulates tumorigenicity of desmoid tumors**
Turley, E.A. and Alman, B.A.
- 1:30 – 1:50** **Hyaluronan-CD44 interaction with signaling activators promotes oncogenesis, matrix degradation & cytoskeleton-mediated tumor progression**
Bourguignon, L.Y.W., Singleton, P.A., Gilad, E. and Diedrich, F.
- 1:55 – 2:05** **The interaction of hyaluronan and n-butyrate with colon adenocarcinoma cells CaCo2 and HT29**
Poster # 43
Nickova, K. and Kubala, L.
- 2:10 – 2:20** **The role of hyaluronic acid in normal and perturbed hemopoietic stem cell biology**
Poster # 44
Nilsson, S.K., Shaw, S.E., Haylock, D.N., Johnston, H.M., Fletcher, K.A., Brown, T.J. Lock, R., Camenisch, T. and Simmons, P.J.
- 2:25 – 2:45** **Hyaluronan synthases and RHAMM in human cancer**
Pilarski, L.M., Adamia, S., Maxwell, C.A., Reiman, T. and Belch, A.R.
- 2:50 – 3:20** **Coffee Break**
- 3:20 – 3:45** **Hyaluronan regulates epithelial-mesenchymal transformation, cell survival and multidrug resistance in cancer cells**
Toole, B.P.
- 3:50 – 4:00** **Hyaluronan oligosaccharides induce CD44 cleavage and promote cell migration in CD44-expressing tumor cells**
Poster # 45
Sugahara, K.N., Murai, T. and Miyasaka, M.
- 4:05 – 4:15** **Characterization of HAS2 inhibition on the tumorigenicity of a highly metastatic human breast cell line**
Poster # 46
Udabage, L., Brownlee, G.R., Nilsson, S.K., Heldin, P. and Brown, T.J.
- 4:20 – 4:30** **The involvement of CD44 *in vivo* angiogenesis**
Poster # 47
Cao, G., Fehrenbach, M., Lyons, C.D., Savani, R.C., DeLisser, H.M.
- 4:35 – 4:45** **Hyaluronan biosynthesis in prostate carcinoma growth and metastasis**
Poster # 48
McCarthy, J.B., Wilson, C., Bullard, K. and Simpson, M.A.

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 5

Chairs: Burns, J. and Prestwich, G.

- 7:00 – 7:05** Introduction by James Burns
- 7:05 – 7:20** *In situ* crosslinkable synthetic extracellular matrices for tissue repair and prevention of surgical adhesions
Prestwich, G.D., Shu, X.Z., Liu, Y., Kirker, K.R., Li, H., Shelby, J., Morris, S.B. and Gray, S.D.
- 7:25 – 7:35** **The development of hyaluronan (HA) chemosensitizing transport technology in the treatment of human cancer**
Poster # 58
Brown, T.J., Falzon, J.L., Pho, M. H., Hatherell, E.M., Vaghela, K., MacLeod, A.S., Wilson, J.C., Fox, R.M., Fraser, J.R.E. and Brownlee, G.R.
- 7:40 – 7:50** **Hyaluronan-based scaffolds for articular cartilage tissue engineering**
Poster # 59
Solchaga, L.A., Gao, J., Goldberg, V.M. and Caplan, A.I.
- 7:55 – 8:05** **Hyaluronan - versus poly-ester-based scaffolds in the repair of osteochondral defects**
Poster # 60
Solchaga, L.A., Jizong, Gao J., Temenoff, J.S., Mikos, A.G., Caplan, A.I. and Goldberg, V.M.
- 8:10 – 8:25** **Hyaluronan-based hydrogel for biological applications**
Barbucci, R., Giardino, R. and Leone, G.
- 8:30 – 8:40** **Hyaluronan in tissue engineered medical products: the ASTM guide for the characterization and testing of hyaluronan**
Poster # 61
Dornish, M. and Kaplan, D.S.
- 8:45 – 9:00** **Coffee Break**
- 9:00 – 9:15** **Hydrosoluble, metabolically fragile bioconjugate by coupling tetrabutylammonium hyaluronate with 2'-paclitaxel-4- bromobutyrate: synthesis and antitumor properties**
Capodilupo, A-L., Crescenzi, V., Francescangeli, A., Joudioux, R., Leonelli F., Marini Bettolo, R., Migneco, L.M., Quagliariello, M., Bellato, P., DeLuca, G., Galbiati, E., Renier, D. and Rosato, A.
- 9:20 – 9:30** **Therapeutic utility of chemically modified hyaluronan**
Poster # 62
Ruiz-Perez, B., Cisneros, R.L., Matsumoto, T., Miller, R.J., Vasios, G., Calias, P., Onderdonk, A.B., Tzianabos, A.O., Gershkovich, J., Johnson, J., Burns, J.W. and Staveski, M.
- 9:35 – 9:45** **Modulation of gene transfer by crosslinked hyaluronan**
Poster # 63
Yun, Y.H., Kim, A., Frame, M., Lin, X., Checkla, D., Wen, D., Dehazya, P. and Chen, W.
- 9:50 – 10:00** **Modified HA as an adhesion barrier: consideration and clinical experience**
Poster # 64
Holmdahl, L.

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 6

Chairs: Ghosh, P., Knudson, C. and Weiss, C.

- 8:00 – 8:25** **Hyaluronan in synovial joints: molecular sieving, concentration polarization and secretory regulation *in vivo***
Levick, J.R., Mason, R.M., Momberger, T., Sabaratnam, S. and Coleman, P.C.
- 8:30 – 8:55** **Hyaluronan receptor-mediated leukocyte trafficking in arthritis**
Mikecz, K., Gal, I. And Glant, T.T.
- 9:00 – 9:10** **Hyaluronan-dependent pericellular matrix formation by embryonic articular surface cells is modulated by extracellular regulated kinase (ERK) activation status**
Poster # 86
Barstow, E.R., Lamb, K.J., Lewthwaite, J.C., Wheeler-Jones, C.P.D. and Pitsillides, A.A.
- 9:15 – 9:25** **Mechanosensitive regulation of hyaluronan secretion rate into joint fluid**
Poster # 87
Coleman, P.J., Angel, C.K., Momberger, T., Mason, R.M., and Levick, J.R.
- 9:30 – 10:00** **Coffee Break**
- 10:00 – 10:25** **Preclinical studies on the pharmacology of hyaluronan in relation to its application as an intra-articular therapy for the treatment of osteoarthritis**
Ghosh, P., Smith, M.M., Burkhardt, D., Kipic, B., Cake, M. and Read, R.
- 10:30 – 10:55** **Biological basis for the long term clinical benefits of viscosupplementation therapy: experiments, hypothesis and clinical correlations**
Band, P.A., Weiss, C., and Balazs, E.A.
- 11:00 – 11:15** **Elimination of hyaluronan from healthy human knee joint**
Lindqvist, U., Tolmachev, V., Kairemo, K., Åström, G., Jonsson, E. and Lundqvist, H.
- 11:20 – 11:30** **Effects of hyaluronan hexasaccharide treatment on cartilage catabolism**
Poster # 88
Ohno, S., Knudson, C.B. and Knudson, W.
- 11:35 – 11:45** **Effect of hyaluronans on cytokine-induced metalloproteinase activity secreted by synovial lining cells from patients with osteoarthritis**
Poster # 89
Dunn, S., Waddell, D., Kolomytkin, O.V. and Marino, A.A.
- 11:50 – 12:00** **General Discussion**

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 7

Chairs: Tammi, R. and Wight, T.

- 1:00 – 1:25** **Hyaluronan in the cardiovascular system: role in modulating endothelium, smooth muscle and monocyte/macrophage phenotype**
Wight, T.
- 1:30 – 1:55** **Role and regulation of the hyaluronan receptor, CD44, in cell migration and signaling**
Isacke, C.M. and Yarwood, H.
- 2:00 – 2:10**
Poster # 103 **Structure of the CD44 hyaluronan-binding domain and insight into its regulation by N-glycosylation**
Banjeri, S., Teriete, P., Noble, M., Pcikford, A.R., Lowe, E., Blundell, C.D., Wright, A.J., Kahman, J., Mahoney, D.J., Tammi, M.I. Campbell, I.D., Day, A.J. and Jackson, D.G.
- 2:15 – 2:25**
Poster # 104 **Regulation of the surface expression of endothelial RHAMM and CD44**
DeLisser, H.M., Cao, G., Zaman, A. and Savani, R.C.
- 2:30 – 2:40**
Poster # 105 **The liver sinusoidal endothelial cell hyaluronan receptor and its homologue, stabilin-1 – their roles (known and unknown) in endocytosis**
McCourt, P.A.G., Hansen, B., Svistunov, D., Johansson, S., Longati, P., Schledzewski, K., Kzhyshkowska, J., Goerdts, S., Johansson, S. and Smedsrød, B.
- 2:45 – 3:15** **Coffee Break**
- 3:15 – 3:40** **Hyaluronan and CD44 in the epidermis**
Tammi, M., Törrönen, K., Pasonen-Seppänen, S., Karvinen, S., Rilla, K., Pienimäki, J.P. and Tammi, R.
- 3:45 – 3:55**
Poster # 106 **Wounding-induced upregulation of HAS2/HAS3 expression and hyaluronan synthesis in adult mouse epidermis correlates with keratinocyte migration and proliferation**
Pasonen-Seppänen, S., Hyttinen, J.M.T., Kolemäinen, E., Tammi, M.I. and Tammi, R.H.
- 4:00 – 4:10**
Poster # 107 **Upregulation of hyaluronan in the epidermis during cutaneous wound healing *in vivo* and *in vitro***
Maytin, E.V., Mack, J.A., Sato, N. Anand, S. and Chung, H.H.
- 4:15 – 4:25**
Poster # 108 **Variation of hyaluronan synthesis and migration of human peritoneal mesothelial cells following mechanical wounding and cytokine stimulation**
Bowen, T., Davies, M. and Williams, J.D.
- 4:30 – 4:40**
Poster # 109 **Endoplasmic reticulum stress induces hyaluronan-mediated leukocyte adhesion**
Majors, A.K., Austin, R.C., de la Motte, C.A., Pyeritz, R.E., Zhou, J., Hascall, V.C., Kessler, S.P., Sen, G. and Strong, S.A.
- 4:45 – 4:55**
Poster # 110 **Promoter analysis and upstream sequencing of hyaluronan binding protein 1 (HABP1) reveals its importance in host pathogen interaction**
Majumdar, M., Biswas, A.K. and Datta, K.

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 8

Chairs: McDonald, J. and Salustri, A.

- 8:00 – 8:05** Introduction by Antonietta Salustri
- 8:05 – 8:30** The catalytic/structural role of tumor necrosis factor-induced protein-6 in the assembly of the cumulus extracellular matrix
Fülöp, C.
- 8:35 – 9:00** HA-binding proteins in ovulation
Day, A.J.
- 9:05 – 9:30** Role of SHAP in the construction of cumulus matrix and oocyte maturation
Zhou, L., Salustri, A., Kawano, M., Wu, J., Shen, L., Ogura, A., Yasue, H., Hascall, V.C. and Kimata, K.
- 9:35 – 9:55** Role of PTX3 in female fertility
Salustri, A., Garlanda, C., Hirsch, E., DeAcetis, M., Maccagno, A., Bottazzi, B., Mahoney, D.J., Day, A.J., Siracusa, G. and Mantovani, A.
- 10:00 – 10:10** Hyaluronan, versican and inter- α trypsin inhibitor contribute to the osmotic potential of mammalian ovarian follicular fluid
Clarke, H.G., Hope, S.A., Byers, S. and Rodgers, R.J.
- 10:10 – 10:15** Poster # 127
- 10:15 – 10:45** Coffee Break
- 10:45 – 10:55** Investigation of hyaluronan function in neural crest and craniofacial development
Joo, A.M. and Spicer, A.P.
- 10:55 – 11:00** Poster # 128
- 11:00 – 11:10** *In vivo* investigation of hyaluronan and hyaluronan synthase-2 during cartilage and joint development
Tien, J.Y.L., Rountree, R.B., Kingsley, D.M. and Spicer, A.P.
- 11:10 – 11:15** Poster # 129
- 11:15 – 11:40** Role of hyaluronan during atrioventricular canal morphogenesis: a genetic and biochemical analysis
McDonald, J.A., Camenisch, T.D. and Klewer, S.
- 11:45 – 11:55** Regulated expression of HAS2 during cervical ripening
Lopez, S., Hascall, V.C. and Mahendroo, M.
- 11:55 – 12:00** Poster # 130

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 9

Chairs: Hollyfield, J. and Yamaguchi, Y.

- 8:00 – 8:05** Introduction by Joe Hollyfield
- 8:05 – 8:30** Assembly and function of hyaluronan-dependent extracellular matrices in vertebrates
Spicer, A.P.
- 8:35 – 9:00** Brain link proteins: new insights for hyaluronan-binding proteoglycans in the brain
Oshashi, T. and Ninomiya, Y.
- 9:05 – 9:15** Spacrecan binding to hyaluronan and other glycosaminoglycans:
Poster # 136 molecular and biochemical studies
Chen, Q., Cai, S., Shadrach, K.G., Prestwich, G.D. and Hollyfield, J.G.
- 9:20 – 9:50** Coffee Break
- 9:50 – 10:00** Renal hyaluronan accumulation and hyaluronan synthase expression
Poster # 137 after ischemia-reperfusion injury in the rat
Hansell, P., Johnsson, C., Jacobson, A., Heldin, P., Hällgren, R. and Göransson, V.
- 10:05 – 10:15** Hyaluronan and proximal tubular epithelial cell migration
Poster # 138 Ito, T., Williams, J.D., Al-Assaf, S., Phillips, G.O. and Phillips, A.O.
- 10:20 – 10:30** BMP-7 Modulates HA mediated proximal tubular cell-monocyte
Poster # 139 interaction
Rashid, W., Hascall, V., de la Motte, C. and Phillips, A.
- 10:35 – 10:45** The human hyaluronan synthase genes: putative mediators or renal
Poster # 140 fibrosis
Monslow, J., Williams, J.D., Spicer, A.P., Davies, M. and Bowen, T.
- 10:50 – 11:00** Hyaluronan structures promote monocyte adhesion and activation in
Poster # 141 diabetic nephropathy
Wang, A., and Hascall, V.C.
- 11:05 – 11:20** The role of hyaluronan, CD44 and osteopontin in calcium oxalate crystal
Poster # 142 - 143 binding to human tubular cells in primary culture and to tubular cells in kidneys of rats treated with crystal-inducing diet
Asselman, M., DeBroe, M.E., Helbert, M.F., Persyl, V.P., Schepers, M.S.J., Verhulst, A.I. and Verkoelen, C.F.

After each lecture there is a 5 minute discussion period.

PROGRAM

Session 10

Chairs: Prehm, P. and Savani, R.C.

- 1:00 – 1:05** **Introduction by Peter Prehm**
- 1:05 – 1:30** **Cell surface regulation of growth factor signaling by hyaluronan receptors**
Savani, R.C.
- 1:35 – 1:45** **Skin from adult HOXB13 KO mice exhibits high levels of hyaluronan**
Poster # 153 **and enhanced wound healing**
Mack, J.A., Abramson, S.R., Coffin, J.C., Rothrock, J.K., Largman, C., Hascall, V.C.
and Maytin, E.V.
- 1:50 – 2:00** **Repair of excisional wounds is delayed in RHAMM -/- mice due to**
Poster # 154 **defects in contraction and cell migration**
Tolg, C., and Turley, E.
- 2:05 – 2:15** **Hyaluronan export by ABC transporters**
Poster # 155 Ouskova, G., Spellerberg, B. and Prehm, P.
- 2:20 – 2:50** **Coffee Break**
- 2:50 – 2:55** **Introduction by Rashmin Savani**
- 2:55 – 3:20** **Hyaluronan and CD44 regulation of tissue injury and repair**
Liang, C., Teder, P., Jiang, D., Hodge, J., Fan, J., Skibo, S. and Noble, P.
- 3:25 – 3:35** **CD44 expression in immune cells is dysregulated in thrombospondin-1**
Poster # 156 **null but not in thrombospondin-2 null mice**
Kutznetsova, S.A., Sharrow, S.O., Lawler, J. and Roberts, D.D.
- 3:40 – 3:50** **Hyaluronic acid regulates hematopoiesis via activation of cytokine**
Poster # 157 **production by bone marrow macrophages**
Matrosova, V.Y., Orlovskaya, I.A., Serobyann, N., McClelland, M. and Khaldoyanidi,
S.K.
- 3:55 – 4:05** **RHAMM, a receptor for hyaluronan-mediated motility, compensates**
Poster # 158 **for CD44 in inflamed CD44-knockout mice: evidence for molecular redundancy**
Naor, D., Gonen, E., Assayag, N., Reich, R., Williams, R.O., Neudecker, B.A., Stern,
R., Wang, F.S., Turley, E.A. and Nedvetzki, S.
- 4:10 – 4:20** **Induction of hyaluronic acid synthase-2 (HAS2) in human vascular**
Poster # 159 **smooth muscle cells by IP- and EP-2 receptor agonists**
Sussman, M., Sarbia, M., Meyer-Kirchrath, J., Schör, K. and Fischer, J.W.,
- 4:25 – 4:35** **Low density lipoprotein receptor-deficient cells accumulate hyaluronan**
Poster # 160 Sakr, S.W., Ricks, J., Lara, S., Rosenfeld, M. and Wight, T.
- 4:40 – 4:50** **Influence of hyaluronan on experimental osteoporosis**
Poster # 161 Stancikova, M., Svik, K., Istok, R. and Velebny, V.

After each lecture there is a 5 minute discussion period.