

**2017 DSMB Annual Meeting**  
**Glycosylation in the Extracellular Matrix**

**Tuesday 18<sup>th</sup> April @ Seminar room, 2<sup>nd</sup> Floor BRIC**

2 Floor seminar room, the Copenhagen Biocenter (BRIC), Ole Maaløes Vej 5, 2200 Copenhagen N

15.00 – 15.05 Welcome

15.05 – 16.00 John Couchman (BRIC, University of Copenhagen)  
**"Syndecans – gatekeepers of the cell adhesion phenotype"**

16.00 – 16.25 Michael Davies (BMI, University of Copenhagen)  
**"Modification of the extracellular matrix of the artery wall in cardiovascular disease"**

16.25 – 16.45 Coffee break

16.45 – 17.10 Anders Aspberg (Lund University, Sweden)  
**"Aggrecan disease-linked mutations"**

17.10 – 17.35 René Brüggerbusch Svensson (ISMC, Bispebjerg Hospital)  
**"Mechanics of connective tissue at the nano scale - Advanced glycation and cross-linking"**

17.35 – 17.50 Tian Xia (BRIC, University of Copenhagen)  
**"Nidogen-1 regulation of breast cancer metastasis"**

17.50 – 18.05 Wing Ying Chow (Leibniz-Institut für Molekulare Pharmakologie, Germany)  
**"In-situ detection of hydroxylysines within the extracellular matrix using DNP-enhanced solid-state NMR"**

18.05 Poster session and networking over cheese & wine

*18.05 Annual General Meeting*

**Membership**

We encourage everyone to support DSMB by paying an annual membership fee of 100 dkr before 1<sup>st</sup> May. This includes the DSMB newsletters, workshops, events of other international matrix research meetings and eligibility of future travel grants. You can pay by:

1) Transferring via MobilePay to +4528556602 (Katja Heinemeier) and WRITE "DSMB, NAME AND EMAIL ADDRESS".

OR

2) Transferring to the DSMB bank account: Reg: 1551 Account: 1227130 (Danske bank). Please indicate "DSMB membership" on your bank transfer and write an email to our treasurer Katja Heinemeier (kh@sund.ku.dk) to let her know that you have paid the membership fee.

## Posters

### **P1. Mechanism of damage to arterial extracellular derived fibronectin by myeloperoxidase-derived oxidants during chronic inflammation**

Siriluck Vanichkitrungruang<sup>1,2,3</sup>, Christine Y. Chuang<sup>1,3</sup>, Georg Degendorfer<sup>1,2</sup>, Astrid Hammer<sup>4</sup>, Ernst Malle<sup>5</sup>, and Michael J. Davies<sup>1,2,3</sup>

<sup>1</sup>Free Radical Group, The Heart Research Institute, Sydney, Australia; <sup>2</sup>Faculty of Medicine, University of Sydney, Sydney, Australia; <sup>3</sup>Dept. of Biomedical Science, Panum institute, University of Copenhagen, Denmark; <sup>4</sup>Institute of Cell Biology, Histology and Embryology, Centre of Molecular Medicine, Medical university of Graz, Austria; <sup>5</sup>Institute of Molecular Biology and Biochemistry, Centre of Molecular Medicine, University of Graz, Austria

### **P2. Identifying Nitration Sites in the Extracellular Matrix Protein Laminin**

Lasse Lorentzen, Michael Davies

Department of Biomedical Science, Panum institute, University of Copenhagen, Denmark

### **P3. The secreted extracellular matrix protein netrin-4 modulates physico-mechanic properties of basement membranes**

Raphael Reuten<sup>1</sup>, Denise Nikodemus<sup>2,3</sup>, Carina Prein<sup>4</sup>, Matthew McDougall<sup>5</sup>, Ernst Pöschl<sup>6</sup>, Martin Ehrbar<sup>7</sup>, Hauke Clausen-Schaumann<sup>4</sup>, Peter Yurchenco<sup>8</sup>, Jörg Stetefeld<sup>5</sup>, Manuel Koch<sup>2,3</sup>, Janine Terra Erler<sup>1</sup>

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### **P4. Targeting integrin adhesome networks to disrupt cancer cell invasion and metastasis**

Edward R. Horton and Janine T. Erler

Biotech Research and Innovation Centre (BRIC), University of Copenhagen, 2200 Copenhagen, Denmark

### **P5. Effects of the extracellular matrix on cancer immunotherapy**

Dorota E. Kuczek<sup>1</sup> and Daniel H. Madsen<sup>1,2</sup>

<sup>1</sup>Center for Cancer Immune Therapy (CCIT) Herlev Hospital, 81-05-PV9, DK-2730 Herlev;

<sup>2</sup>Finsen Laboratory/BRIC, University of Copenhagen, 2200 København N

**P6. Legumain Regulates Differentiation Fate of Human Bone Marrow Stromal Cells and Is Altered in Postmenopausal Osteoporosis**

Abbas Jafari<sup>1,2</sup>, Diyako Qanie<sup>2</sup>, Thomas L. Andersen<sup>3</sup>, Yuxi Zhang<sup>4</sup>, Li Chen<sup>2</sup>, Benno Postert<sup>4</sup>, Stuart Parsons<sup>4</sup>, Nicholas Ditzel<sup>2</sup>, Sundeep Khosla<sup>5</sup>, Harald Thidemann Johansen<sup>6</sup>, Per Kjærsgaard-Andersen<sup>7</sup>, Jean-Marie Delaisse<sup>3</sup>, Basem M. Abdallah<sup>2,8</sup>, Daniel Hesselton<sup>4,9</sup>, Rigmor Solberg<sup>6</sup>, Moustapha Kassem<sup>1,2</sup>

<sup>1</sup>Department of Cellular and Molecular Medicine, Danish Stem Cell Center (DanStem), University of Copenhagen, DK-2200, Copenhagen, Denmark; <sup>2</sup>Molecular Endocrinology & Stem Cell Research Unit (KMEB), Department of Endocrinology and Metabolism, Odense University Hospital & University of Southern Denmark, DK-5000, Odense, Denmark;

<sup>3</sup>Department of Clinical Cell Biology, Vejle/ Lillebaelt Hospital, Institute of Regional Health Research, University of Southern Denmark, DK-7100, Vejle, Denmark; <sup>4</sup>Diabetes and Metabolism Division, Garvan Institute of Medical Research, 2010, Sydney, Australia;

<sup>5</sup>Endocrine Research Unit, Mayo Clinic College of Medicine, Rochester, MN, 55905, USA;

<sup>6</sup>Department of Pharmaceutical Biosciences, School of Pharmacy, University of Oslo, 0363, Oslo, Norway; <sup>7</sup>Department of Orthopaedic Surgery, Vejle/Lillebaelt Hospital, DK-7100, Vejle, Denmark; <sup>8</sup>Department of Biological Sciences, College of Science, King Faisal University, Hofuf, 6996, Saudi Arabia; <sup>9</sup>St Vincent's Clinical School, UNSW Australia, 2010, Sydney, Australia.

**P7. A tiny fish to beat cancer: Using a cancer invasion model in embryonic zebrafish to screen for metastasis promoting factors and novel anti-cancer therapies<sup>2</sup>**

Sebastien Gnosa<sup>1</sup>, Pia Rengtved Lundegaard<sup>2,3</sup> and Marie Kveiborg<sup>1</sup>

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