



International Research Training Group GRK 1874/1 "DIAMICOM"

Programme Autumn School 2014

Tuesday, October 28, 2014

Moderation: Divija Deshpande & Robin Jonas

- 15.00 - 15.20** The role of insulin resistance in diabetic retinopathy: genetic and molecular aspects, **Patrick Järge**
- 15.20 - 15.40** Hyperglycemia-induced microvascular damage: focus on the cerebral circulation, **Youhai Li**
- 15.40 - 16.00** Effect of hyperglycemia on STAT signaling in M1 and M2 macrophages and on macrophage plasticity, **Sarah Riemann**
- 16.00 - 16.20** Detoxifying enzymes in diabetic target tissues – mitochondrial dependent and independent effects of methylglyoxal, **Nadine Volk**
- 16.20 - 16.40** Dysfunction of compartmentalized cyclic AMP signaling in the diabetic vasculature, **Jaspal Garg**

16.40 – 17.20 **Coffee break**

Moderation: Shiqi Zhang & Tanja Wiedenmann

- 17.20 - 17.40** Gasotransmitter metabolites in patients with diabetic nephropathy, **Joost van den Born**
- 17.40 - 18.00** Prostaglandin E2 promotes MYCN non-amplified neuroblastoma cell survival via β -catenin stabilization, **Sepp Jansen**
- 18.00 - 18.20** The role of CBS in diabetic retinopathy, **Tamara Smit**
- 18.20 - 18.40** Analysis of the effect of high glucose on TLR receptor expression and inflammatory pathways in M1 and M2 macrophages, **Michael Balduff**
- 18.40 - 19.00** The influence of diabetic conditions on tumor induced angiogenesis and tumor progression, **Jana Braun**

19.15 - 20.30 **Dinner**

Moderation: Thomas Albrecht & Nadine Volk

- 9.00 - 9.20** Hyperglycemia-induced monocyte-macrophage differentiation, **Kondaiah Moganti**
- 9.20 - 9.40** Kv channels in myogenic and perivascular fat-dependent autoregulation and small artery diabetic dysfunction, **Bettina Müller**
- 9.40 - 10.00** Hyperglycemic memory –mechanisms relevant to the diabetic retina, **Patrick Friedrichs**
- 10.00 - 10.20** ADSC: up a Notch to support retinal capillaries, **Vincenzo Terlizzi**
- 10.20 - 10.40** MicroRNA-induced microangiopathy in diabetes, **Julian Friedrich**
- 10.40 - 11.00** The function of the Rac1 regulator ELMO1 in the vasculature and in renal development under high glucose in zebrafish and in human diabetic nephropathy, **Krishna R. Sharma**

11.00 - 11.20 **Coffee break**

Moderation: Sarah Riemann & Michael Balduff

- 11.20 - 11.40** Oxidative protein modification in diabetic nephropathy – friend or foe? **Tanja Wiedenmann**
- 11.40 - 12.00** Carnosinase in hyperglycemia: Influence on CN-1 secretion and relevance for damage to glomerular endothelial cells, **Shiqi Zhang**
- 12.00 - 12.20** Diabetic nephropathy in the BTBR Ob/Ob mouse as a pre-clinical model for therapeutic interventions, **Thomas Albrecht**
- 12.20 - 12.40** Altered cell-cell interaction in experimental diabetic neuropathy – contributing to pain?, **Divija Deshpande**
- 12.40 - 13.00** Diabetic thin fiber neuropathy - objective assessment and mechanism, **Robin Jonas**
- 13.00 - 13.20** Identification of tissue specific changes within the nociceptive system in diabetic peripheral neuropathy – contribution of TRP channels, **Bastian Schlickerrieder**

13.30 - 14.30 **Lunch & Farewell**

Organizing committee

Prof. Dr. H.-P. Hammes, V. Med. Klinik, Universitätsmedizin Mannheim

Prof. Dr. H. Moshage, Director of Graduate School GUIDE, Medical Dept., UMCG

Prof. Dr. J.-L. Hillebrands, Dept. of Pathology & Medical Biology - Pathology, UMCG

Dr. G. Krenning, Dept. of Pathology & Laboratory Medicine, UMCG

Prof. Dr. J. Kroll, Dept. of Vascular Biology & Tumorigenesis, Universitätsmedizin Mannheim

Prof. Dr. B. Yard, V. Med. Klinik, Universitätsmedizin Mannheim

S. Englert, Dekanat, Medizinische Fakultät Mannheim

Venue

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