Universität Münster

Collaboration Talks on Glycobiology and Cancer

15.03.2024, online via Zoom

Link: https://wwu.zoom-x.de/meeting/register/u5Yvd-2srT8oHNYcSn8I9670c6I_0mHiFqnq

Zoom Meeting ID: 622 0443 4262

Passcode: 497977

Organizers: Prof. Dr. Martin Götte & Dr. Jessica Onyeisi
Supported by the Brazil Centre of the University of Münster

10:00 - 10:05 **Introduction (Prof. Dr. Martin Götte - Münster University/Germany)**

10:05 - 10:15 **Anja Grecko Lorenz** (Managing Director of the Brazil Centre)

The Brazil Centre & Funding Possibilities

10:20 - 10:35 **Prof. Dr. Martin Götte (Münster University/Germany)**

Role of the heparan sulfate proteoglycan syndecan-1 in breast cancer progression

10:40 - 10:55 **Prof. Dr. Roger Chammas (University of São Paulo - USP/Brazil)**

"Roles of galectin-3 in shaping a protumoral tumor microenvironment

11:00 - 11:15 **Prof. Dr. Adriane Regina Todeschini (Federal University of Rio de Janeiro - UFRJ/Brazil)**

Is glycosylation the link between diabetes and cancer?

11:20 - 11:25 **Break**

11:30 - 11:45 **Prof. Dr. Laura Alaniz (CONICET-UNNOBA, Universidad Nacional del Noroeste de la Prov. de Bs As/Argentina)**

New perspectives for the repositioning of chemotherapy drugs and modulators of glycosaminoglycans in breast cancer treatment

11:50 - 12:05 **Dr. Jessica Onyeisi (Münster University/Germany)**

Role of syndecan-4 in breast cancer pathophysiology

12:05-12:10 **Concluding remarks (Dr. Jessica Onyeisi & Prof. Dr. Martin Götte)**

12:15 **End of the Collaboration Talks**

BRAZIL CENTRE University of Münster

Alexander von HUMBOLDT STIFTUNG

HEPINIB Heparanase inhibition as a multifunctional targeting approach in cancer

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The participants

The Brazil Centre

For more than 50 years, the University of Münster (UM) has maintained intensive contact with scientists and universities in Brazil. Since 2010, these collaborations have been bundled by the Brazil Centre as an interdisciplinary association of researchers at the UM with activities in Brazil. Whether research, research transfer, teaching or studying, the Brazil Centre offers comprehensive support and advice to members of the University of Münster. Moreover, a contact point is offered to students and researchers in Brazil with the Brazil Centre's liaison office in São Paulo. The main goal of the Brazil Centre is to strengthen and further develop the cooperation between the UM and Brazil and to initiate new collaborations. More recently, the Brazil Centre has initiated collaborations in other Latin American countries.

Prof. Dr. Martin Götte

Prof. Dr. Martin Götte is a Professor at the Department of Gynecology and Obstetrics of Münster University Hospital, Münster, Germany. He is the spokesman of the University in the Federal State network for stem cell research and chairman of the board for the reproduction section of the German Society for Endocrinology. The Götte laboratory has long-standing experience in the field of extracellular matrix/proteoglycan pathobiology, in particular in breast cancer and inflammatory diseases.

Prof. Dr. Roger Chammas (USP/Brazil)

Prof. Dr. Roger Chammas is a Full Professor of Oncology at Universidade de São Paulo (USP) and Director of the Center for Translational Research in Oncology at Instituto do Câncer do Estado de São Paulo, Faculdade de Medicina da Universidade de São Paulo. He is also an honorary adjunct professor in the Dept. of Chemistry at the University of North Carolina at Charlotte. He is a member of the Brazilian Academy of Sciences and of the American Association of Cancer Research, where he serves in the Latin-American subcommittee for International Affairs. His lab focuses on emerging mechanisms for tumor resistance to different forms of treatment, including aspects of tumor physiology, such as vasculature tone and function.

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Prof. Dr. Adriane Regina Todeschini (UFRJ/Brazil)

Prof. Dr. Adriane Regina Todeschini is currently an associate professor at the Federal University of Rio de Janeiro (UFRJ). She heads the Structural and Functional Glycobiology laboratory and coordinates the Graduate Program in Biological Sciences and Biophysics. Her work is dedicated to studying the molecular mechanisms of carbohydrate-mediated cellular recognition. She believes that glycoconjugates act as sensors of environmentally induced metabolic changes and participate in cell plasticity and studies cellular glycophenotype changes induced by metabolic diseases such as cancer and diabetes with a focus on hexosamine biosynthesis.

Prof. Dr. Laura Alaniz (CONICET-UNNOBA/Argentina)

Prof. Dr. Laura Alaniz is head of the tumoral microenvironment laboratory in the CIBA (Centro de Investigaciones Básicas y Aplicadas) belonging to UNNOBA (Universidad Nacional del Noroeste de la Prov. de Bs As). She is CEO- Cofundadora of the MesencHyal-T, a startup that is researching and developing allogeneic cell therapies to treat bone injuries in complex contexts. The laboratory has a special interest in the interaction between the tumoral stroma, hyaluronic acid (HA) and cancer and associated cells.

Dr. Jessica Onyeisi

Dr. Jessica Onyeisi is currently a postdoctoral fellow at the University of Münster, Germany and recipient of the prestigious Alexander-von-Humboldt fellowship. She was a visiting researcher at the Politecnico di Milano, where she helped to develop nanoparticles for the delivery of heparanase inhibitors as a novel anticancer therapy. Currently, Dr. Onyeisi is studying the role of syndecan-4 in the tumor microenvironment, using siRNA and CRISPR/Cas-approaches in a panel of human breast cancer cell lines in complex 3D co-culture systems with endothelial cells and cancer-associated leukocyte populations.