

Cardiology Science Lunch Berlin

a weekly exchange of insights and ideas in cardiovascular medicine

Functional GPCR-recognizing antibodies in cardiovascular medicine

Prof. Dr. med. Duska Dragun

Department of Nephrology and Intensive Care Medicine

Charité-Campus Virchow Klinikum

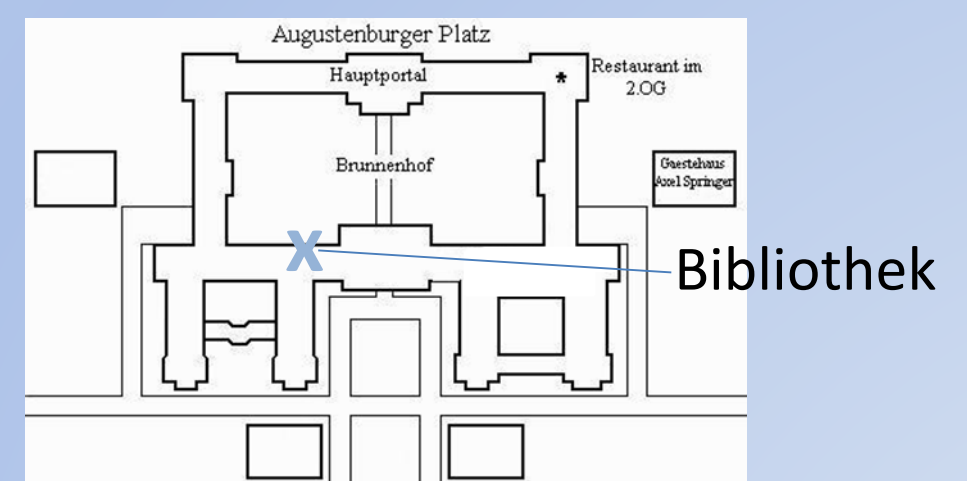
Beside well known peptide agonists like catecholamines, Angiotensin II or Endothelin-1, autoimmune activation of G-protein-coupled receptors (GPCRs) via agonistic autoantibodies induces fast progressing severe pathologies ranging from dilative cardiomyopathy to pulmonary arterial hypertension and systemic fibrovascular disease. The molecular mechanism underlying signaling mechanism has been linked to the existence of different active receptor conformations and more generally to the high structural flexibility of GPCRs. Our developments of diagnostic platforms detecting these antibodies sparked numerous clinical studies showing that patients harboring these antibodies can be considered as "fast disease progressors" uncovering specific difficult to treat populations.

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12:00 – 13:00h

Bibliothek at DHZB

Augustenburger Platz 1, Berlin



Prof. Dr. Dr. med. Frank R. Heinzel
Priv. Doz Dr. med. Florian Blaschke
Klinik für Innere Medizin
m.S. Kardiologie
Charité Universitätsmedizin Berlin
Campus Virchow Klinik

Prof. Dr. med. Philipp Stawowy
Klinik für Innere Medizin
und Kardiologie
Deutsches Herzzentrum Berlin

Prof. Dr. med. Burkert Pieske
Klinik für Innere Medizin
m.S. Kardiologie
Charité Universitätsmedizin Berlin
– Campus Virchow Klinik
und Deutsches Herzzentrum Berlin
Klinik für Innere Medizin –
Kardiologie

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Correspondence for **Cardiology Science Lunch Berlin** to: frank.heinzel@charite.de

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