Klinikum rechts der Isar

Technische Universität München

Proteases in (patho-)physiology

Minisymposium, Clinical Research Unit, Frauenklinik der TUM

TranslaTUM, Klinikum rechts der Isar - July 12, 2022

Johanns B. Ortner Forum - kleines Auditorium

Organizers: Tobias Dreyer and Viktor Magdolen

SESSION 1

Chairs:

Rupert Ecker
TissueGnostics GmbH, Vienna, Austria

Viktor Magdolen
Clinical Research Unit, Department of Obstetrics and Gynecology, Technical University of Munich

12:30
Welcome address

12:40 - 13:05
Walter Stöcker
Institute of Molecular Physiology, Cell and Matrix Biology, Johannes Gutenberg University Mainz
Acrosin, ovastacin, fetuin B - proteolysis and antiproteolysis in mammalian fertilization

13:05 - 13:30
Jyotsna Batra
Australian Prostate Cancer Centre-Queensland, Translational Research Institute, Queensland University of Technology, Woolloongabba, Australia
Effects of genetic variation on functionality of KLK3 (PSA) in prostate cancer

Klinikum rechts der Isar

Technische Universität München

13:30 - 13:55
Peter Goettig
Structural Biology Group, Department of Biosciences, Universität Salzburg, Austria
Expression of prostatic KLKs with non-natural amino acids for complex formation by click reactions

13:55 - 14:15
Tobias Dreyer
Clinical Research Unit, Department of Obstetrics and Gynecology, Technical University of Munich
KLK4 and chemokines: an immune-escape mechanism in ovarian cancer?

14:15 - 14:35
Claire Stark
Clinical Research Unit, Department of Obstetrics and Gynecology, Technical University of Munich
KLK7 is involved in immune escape and resistance to PARP-directed therapy in ovarian cancer

14:35 - 15:10
COFFEE BREAK

SESSION 2

Chairs:
Ute Reuning
Clinical Research Unit, Department of Obstetrics and Gynecology, Technical University of Munich
Tobias Dreyer
Clinical Research Unit, Department of Obstetrics and Gynecology, Technical University of Munich

15:10 - 15:35
Torsten Steinmetzer
Department of Pharmacy, Institute of Pharmaceutical Chemistry, Philipps-Universität Marburg
Structure-based design, optimization and characterization of macrocyclic Zika virus protease inhibitors.

Klinikum rechts der Isar

Technische Universität München

15:35 - 15:55
Marlene Aßfalg
German Center for Neurodegenerative Diseases (DZNE) and Technical University of Munich (TUM)

Fn14 as a naturally short substrate of γ-secretase

15:55 - 16:20
Chahrazade El Amri
Biological Adaptation and Ageing, Faculty of Sciences and Engineering, Sorbonne Université Paris, France

Targeting KLKs as a regenerative strategy: KLK6 in demyelinating disease as a paradigm

16:20 - 16:40
Matthias Eberl
Center for Cognitive Disorders, Department of Psychiatry and Psychotherapy, Technical University of Munich

Associations between kallikrein-related peptidase 6 (KLK6) and other biomarkers of Alzheimer's disease

16:40 - 17:00
Elodie David / Rilès Boumali
Biological Adaptation and Ageing, Faculty of Sciences and Engineering, Sorbonne Université Paris, France

Identification and in-depth mechanistic study of the first organic inhibitors of kallikrein-related peptidase 8 (KLK8/neuropsin), an emerging therapeutic target in Alzheimer's disease and related dementias

17:00 - 17:20
Stephan Müller
German Center for Neurodegenerative Diseases (DZNE) and Technical University of Munich (TUM)

Proteomic analysis of cerebrospinal fluid after pharmacologic BACE inhibition