



Covid Regel: G2 + FFP2 Maske

Einladung

159. Treffen der Emeriti und im Ruhestand befindlichen UniversitätsprofessorInnen der Medizinischen Universität Innsbruck

Sehr geehrte Kolleginnen und Kollegen, wir dürfen

Herrn Univ. Prof. Dr. Hesso Farhan
Direktor des Instituts für Pathophysiologie MUI
zu einem Vortrag begrüßen:

“ER homeostasis in health and disease”

The secretory pathway handles about a third of the cellular proteome and is therefore of major importance to cellular homeostasis. The largest organelle of the secretory pathway is the endoplasmic reticulum (ER). Over the past decade, accumulating evidence suggested that the ER is regulated by biochemical stimuli from within the cell as well as from the environment. Nevertheless, two questions remained unanswered:

- (i) can the ER regulate its own function using autochthonous signaling molecules that are resident to this organelle?
- (ii) Is the ER regulated by physical/mechanical stimuli?

In my talk, I will highlight the results from two projects that provide answers to the two aforementioned questions. I will show that stretching cells (i.e. mechanical strain) results in the upregulation of secretion from the ER. Thus, we establish the first link between mechanobiology and the secretory pathway.

In addition, I will present results that document the identification of a receptor tyrosine kinase that is resident to the ER and that regulates secretion. This kinase represents the first druggable target for the regulation of ER-export. I will show how this kinase can be exploited for the treatment of multiple myeloma using cell culture models, patient-derived cells, and in vivo models.

Zeit: Donnerstag, **3. März 2022 17 Uhr s.t.**
Ort: CCB-Centrum für Chemie und Biomedizin, Innrain 80-82,
1. Stock, Seminarraum M.01.423

Nach dem Haupteingang rechts durch die Halle auf die Ostseite zur Stiege 3; im 1. Stock nach rechts: Eingang „Administration, Biozentrum Innsbruck“ - Seminarraum gleich auf der linken Seite.

Mit kollegialen Grüßen

H. Huber

W. Vogel