

# DBMR Research Conference

Date **December 7, 2020, 5 pm – 6 pm**

Title **Neither fat, nor flesh - how brown adipocytes control metabolic health**

Speaker **Prof. Dr. Alexander Bartelt**  
**Klinikum der Institute for Cardiovascular Prevention,**  
**Ludwig-Maximilians-University, Munich, DE**

**Bio:** Alexander Bartelt is the Professor of Cardiovascular Metabolism at the Institute for Cardiovascular Prevention, Ludwig-Maximilians-University Munich. He received his Diploma in Biochemistry in 2007 and his PhD in 2010 from University of Hamburg, Germany with honors. After his postdoctoral training at Harvard University, USA he started as a principal investigator in Munich in 2018. The Bartelt lab is dedicated to understanding the basic principles of metabolic adaptation as well as the molecular pathology of cardiometabolic diseases and focusses on the interplay of proteostasis, inflammation and cellular stress resistance. His research is currently supported by ERC, DZHK, and DFG. Over the years, Dr. Bartelt's contributions have been recognized by national and international awards, fellowships and honors.

**Abstract:** Obesity and associated disorders are major threats to public health and new ways are needed to foster healthy life styles and develop new therapeutics. Both concepts are realized in brown adipose tissue, which is only found in mammals with the primary purpose of keeping the body warm upon cold exposure. Brown adipocytes are mitochondria-rich fat cells that display fascinating and unique biology. In my lecture I am going to introduce the fundamental physiology of thermogenesis in mice and men, update on the latest insight into molecular mechanisms of brown fat function, and highlight how brown adipocytes fuel their exceptional metabolism during thermogenesis with nutrients like fatty acids and glucose. The oxidative powers of brown fat are vast and its biology remains largely enigmatic which makes it an attractive study subject for learning more about the basic principles of system metabolism and finding new ways for combatting obesity and associated disorders in humans.

**Prof. Dr. Alexander Bartelt has been invited by Prof. Dr. Yvonne Döring**

**The DBMR Research Conference will take place as a webinar via Zoom.**

For those wishing to attend, please use this link

<https://unibe-ch.zoom.us/j/6582326032>

Meeting-ID: 658 232 6032

or scan the QR code for the details



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Next DBMR Research Conference

**February 1, 2021**

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