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## External Seminar Speaker

**Rushita Bagchi, Ph.D.**

University of Colorado Denver  
School of Medicine  
Division of Cardiology



**Place: Analysezentrum 3, 2. OG, Room 02.332**

**Date: Monday, July 2<sup>nd</sup>**

**Time: 12 am**

### **Epigenetic Regulators: Turning Up the Heat on Metabolic Disease**

Obesity is coupled to the development of many chronic diseases, including type 2 diabetes (T2D). There is interest in developing pharmacotherapy for obesity based on increasing energy expenditure via activation of brown adipose tissue (BAT), or 'beiging' of white adipose tissue (WAT). In contrast to WAT, which functions mainly to store energy in the form of triglycerides in unilocular white adipocytes, brown and beige adipocytes harbor small, multilocular lipid droplets and an abundance of mitochondria, which produce heat through non-shivering thermogenesis. Our findings define a novel epigenetic pathway for the regulation of energy homeostasis, and suggest potential for HDAC-selective inhibitors for the treatment of obesity and diabetes.

**Host: Prof. Dr. med. Johannes Backs**

Director of the Department Molecular Cardiology and Epigenetics  
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