

# Liesel Beckmann Symposium 2015

## Early programming and prevention of cardiometabolic disease

This 8<sup>th</sup> Liesel Beckmann Symposium focuses on the topic of development and prevention of the global epidemic of cardiometabolic diseases (obesity, diabetes type 2, atherosclerosis and its consequences: myocardial infarction and stroke).

The origin of these conditions may start very early in fetal life or even before. The underlying mechanisms resulting in lifelong effects of the intrauterine milieu on the offspring are not well understood and summarized as „fetal programming“. Therefore, prevention programs have to integrate very early aspects, i.e. life style changing efforts during pregnancy or even before conception.

This symposium gives an insight in early programming and prevention of cardiometabolic disease within four keynote lectures. The lunch break is combined with a poster walk, where young investigators present their scientific findings. The following two parallel sessions deal separately with metabolic and cardiovascular aspects of fetal programming and prevention programs.

## Liesel Beckmann (1914-1965)

Liesel Beckmann was the first female professor at Technische Hochschule München (now TUM).

She received her degree in Economics in 1937 at the University of Bonn, where she also finished her doctoral degree in Business Administration one year later. She followed her teacher, Prof. Rössle, to Technische Hochschule München in 1938 and became his assistant, which also gave her the possibility to teach. She was awarded her postdoctoral degree for a thesis on “The Position of Skilled Trades in Economics“, and became an Associate Professor of Business Economics in 1946.



Photograph: Historic Archives, TUM

## Information and Registration

### Target Group

Students, researchers, and practitioners from organizations.

### Registration

Please register via our website

[www.tum-ias.de/lbs2015](http://www.tum-ias.de/lbs2015)

Participation is free of charge

### Parallel Sessions

Each participant can only take part in one of the sessions. Please let us know about your preference when registering. Registrations are assigned on a “first come, first served” basis.

### Registration deadline

Please send in your registration by Friday, November 18, 2015

### Contact

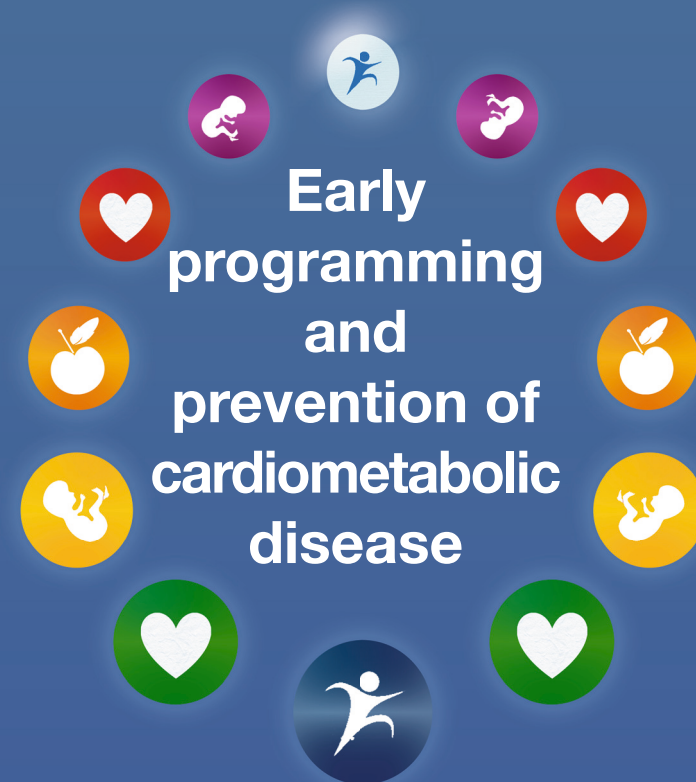
TUM Institute for Advanced Study  
Annette Sturm (Event Management)  
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### Location

German Heart Centre  
Lazarettstrasse 36  
80636 München



Technische Universität München



Friday: November 27, 2015  
Technische Universität München  
German Heart Centre

## Program

- 8:30-9:00** **Registration**
- 9:05** **Welcome**  
Renate Oberhoffer, Regina Ensenaer  
**Chair:** Renate Oberhoffer,  
Regina Ensenaer
- 9:15** **Introduction**  
**Fetal programming of cardiometabolic diseases**  
Sjurdur F. Olsen  
Statens Serum Institut Denmark
- 10:00** **Keynote**  
**Fetal programming: insights from animal models**  
Andreu Palou  
University of the Balearic Islands
- 10:45-11:15** **Coffee Break**
- 11:15** **Keynote**  
**Epigenetic effects in gestational diabetes**  
Thomas Haaf  
Julius-Maximilians-Universität Würzburg
- 12:00** **Keynote**  
**Prenatal environment and later human cardiovascular disease**  
Helena Gardiner  
University of Texas
- 12:45** **Lunch Meeting - Poster Viewing**
- 14:00** **Keynote**  
**Epidemiology of cardiometabolic diseases and the importance of prevention**  
Wolfgang Koenig  
Ulm University
- 14:45** **Poster Award**
- 15:00-17:30** **Parallel Sessions**
- 16:00-16:30** **Coffee Break**
- 17:30** **Reception**

## Parallel Sessions

### Session 1 **Nutritional programming and aspects of prevention**

Chair: Rüdiger von Kries  
LMU München

- 1. Undernutrition in pregnancy and consequences for offspring health**  
Jörg Dötsch  
University of Cologne
- 2. Overnutrition in pregnancy and consequences for offspring health**  
Regina Ensenaer  
Heinrich-Heine-Universität Düsseldorf  
Ludwig-Maximilians-Universität München

### **16:00-16:30** **Coffee Break**

- 3. Excessive weight gain in pregnancy: the need for prevention strategies**  
Hans Hauner  
Technische Universität München
- 4. Postnatal mother-child interaction and its association with child's food acceptance**  
Petra Warschburger  
University of Potsdam

### Session 2 **Cardiovascular programming and aspects of physical activity in early prevention**

Chair: Helena Gardiner

- 1. Intrauterine cardiovascular remodelling in maternal disease**  
Erich Cosmi  
Università degli studi di Padova
- 2. Physical activity and early impact on cardiovascular health**  
Renate Oberhoffer  
Technische Universität München

### **16:00-16:30** **Coffee Break**

- 3. Effectiveness and cost of early physical activity programs**  
Olga Pollatos  
Ulm University
- 4. Methods of behavior change in pregnancy**  
Lou Atkinson  
Coventry University

## Organizers

The TUM Institute for Advanced Study (TUM-IAS) offers internationally renowned scientists a working environment far away from everyday administrative charges. With its Fellowship program, the TUM-IAS brings scientists together on three levels: early-career and experienced researchers, scientists from international research institutions and from TUM, and academic and industrial researchers. The Fellows jointly define, develop, and establish new research fields fit for the future.

The Institute of Preventive Pediatrics, Faculty of Sport and Health Sciences at TUM, researches in the field of cardiovascular health regarding physical fitness/activity in healthy and diseased children and applies preventive measures for obese and chronically diseased youth. Affiliated with the German Heart Center and the Mother-Child-Center at the Hospital Rechts der Isar at TUM, the institute studies cardiovascular parameters of mothers with gestational diabetes and their babies before and after birth.

The symposium is organized by the institute (Prof. Renate Oberhoffer) and the Anna Boyksen Fellow 2015 awarded by the TUM-IAS (Prof. Regina Ensenaer, Experimental Pediatrics & Metabolism, University of Düsseldorf & LMU München), who has a research focus on early risk factors of obesity/metabolic disease and nutritionally induced prenatal programming, aiming at developing obesity-protective strategies.