



### **Symposium Speakers:**

## Keynote: C. Ronald Kahn, Joslin Diabetes Center, Harvard Medical School

Anja Bosy-Westphal Stephan Herzig Søren Nielsen Philipp Scherer Matthias Tschöp

Andreas Birkenfeld Tamas Horvath Assaf Rudich Iris Shai Siegfried Ussar

Tobias Fromme Peter Kühnen Mikael Ryden Arya Sharma Christian Wolfrum

Julia Goedecke Manfred Müller Camilla Scheele Raffaele Teperino

#### **Scientific Sessions:**

- 1. Obesity mechanisms
- 2. Brain Periphery crosstalk
- 3. Targeting obesity mechanisms
- 4. Adipokines signals from adipose tissue
- 5. Consequences of obesity
- 6. Genetics and epigenetics of obesity
- 7. Obesity research future directions
- 8. Adipose tissue dysfunction

www.sfb1052.de







Contact: Ewa Koper

Phone: +49341 / 97-22146

E-mail: <a href="mailto:ewa.koper@medizin.uni-leipzig.de">ewa.koper@medizin.uni-leipzig.de</a>



Medizinische Fakultät

### **PROGRAM**

	Monday, 2	2 <sup>nd</sup> September	Tuesday, 3 <sup>rd</sup> September	Wednesday, 4 <sup>th</sup> September
9:00	Arrival and Reg 10:00-11:30	istration	Session 3 Targeting obesity mechanisms 9:00-10:30	Session 7 Obesity research future directions 9:00-10:45
			Coffee Break 10:30-11:00	<b>Coffee Break</b> 10:45-11:15
11:00	Lunch Time Snack 11:30-13:00		Session 4 Adipokines – signals from adipose tissue 11:00-12:30	Session 8 Adipose tissue dysfunction 11:15-13:15
			Poster Award Ceremony 12:30-13:00	<b>Lunch &amp; Farewell</b> 13:15-14:15
13:00	Welcome Session 1 Obesity Mechan	nisms	Lunch 13:00-14:00	
14:00	13:30-15:30		Keynote Lecture 14:00-14:45	
15:00			Session 5 Consequences of obesity 14:45-16:15	
	<b>Coffee Break</b> 15:30-16:00			
16:00	Session 2 Brain – Periphe 16:00-18:00	ry Crosstalk	Coffee break 16:15-16:45 Session 6	
17:00			Genetics and epigenetics of obesity 16:45-18:15	
18:00	Poster Session & Snacks (Room P801)			
19:00			CRC Event Dinner Moritzbastei	
		Speakers Dinner 19:30 (Invited Guests) Auerbachs Keller		









**PROGRAM** 

### Monday, September 2<sup>nd</sup>, 2024

wonday, September 2 <sup>nd</sup> , 2024		
10:00–11:30	Arrival and Registration	
11:30–13:00	Lunch Time Snack	
13:00–13:30	Welcome: Prof. Jens-Karl Eilers, Prorector of Leipzig University Prof. Ingo Bechmann, Dean of Medical Faculty Prof. Matthias Blüher, Spokesperson of the CRC 1052	
13:30–15:30	Session 1: Obesity mechanisms Chairs: Michael Stumvoll & Matthias Blüher	
13:30–14:10	Prof. Christian Wolfrum, Department of Health Sciences and Technology, ETH Zürich, Switzerland Substrate mediated regulation of adipose tissue and liver lipid metabolism	
14:10–14:50	Prof. Annette Beck-Sickinger, Institute of Biochemistry, Faculty of Life Sciences, Leipzig University, Germany Peptides in Obesity- From Structure to Application	
14:50–15:30	Prof. Manfred Müller, Institute of Human Nutrition and Food Science, Christian- Albrechts-Universität zu Kiel, Germany Changes in body composition and homeostatic control of resting energy expenditure during dietary weight loss	
15:30–16:00	Coffee Break	
16:00–18:00	Session 2: Brain – Periphery Crosstalk Chairs: Siegfried Ussar & Iris Shai	
16:00–16:40	<b>Prof. Tamas Horvath,</b> Department of Comparative Medicine, Yale University School of Medicine, USA <b>Hunger Drives Life</b>	
16:40–17:20	PD Dr. Veronica Witte, Cognitive Neurology, University Leipzig Medical Center & Max Planck Institute for Human Cognitive and Brain Science, Leipzig, Germany Targeting the gut microbiome to improve brain functions	



18:00-...

**Poster Session & Snacks** 







### **PROGRAM**

# Tuesday, September 3<sup>rd</sup>, 2024

,	ocptomber o	
9:00–10:30	Session 3: Targe Chairs: Peter Kovad	eting obesity mechanisms cs & Antje Körner
9:00-9:30		Prof. Iris Shai, Ben Gurion University, Israel; Harvard University, USA and Leipzig University, Germany Can We Identify Signs of Anti-Aging Through Lifestyle Interventions?
9:30–10:00	:	Prof. Mikael Ryden, Karolinska Institutet and the Karolinska University Hospital, Stockholm, Sweden The central role of adipocytes in governing adipose tissue function and metabolic health
10:00–10:30		Prof. Arya Sharma, Professor Emeritus, Department of Medicine, University Alberta, Edmonton, Canada What can Obesity Medicine Learn From Diabetes?
10:30-11:00	Coffee Break	
11:00–12:30		okines – signals from adipose tissue dgraf & John Heiker
11:00–11:30		<b>Prof. Julia Goedecke,</b> Biomedical Research and Innovation Platform, South African Medical Research Council, Cape Town, South Africa  Obesity mechanisms: perspectives from Africa
11:30–12:00		<b>Prof. Andreas Birkenfeld,</b> Klinik für Diabetologie, Endokrinologie und Nephrologie, Universitätsklinikum Tübingen, Germany <b>Prediabetes Remission, Weight Loss and Visceral Adipose Tissue</b>
12:00–12:30		PD Dr. Tobias Fromme, Molecular Nutritional Medicine, Technical University of Munich, Germany Paracrine fibroblast growth factors shape preadipocyte subpopulation and fate
12:30–13:00	Poster Award Co	eremony
13:00–14:00	Lunch	
14:00–14:45	Keynote Lecture Chairs: Matthias Bli	
		Prof. C. Ronald Kahn, Joslin Diabetes Center, Harvard Medical School, USA Insulin Action, Insulin Resistance and Adipose Tissue Secreted





**Exosomal miRNAs** 





Medizinische Fakultät

PROGRAM

14:45–16:15	Session 5: Consequences of obesity Chairs: Veronica Witte & Kerstin Krause	
14:45–15:15	<b>Dr. Siegfried Ussar,</b> Research Unit Adipocytes & Metabolism (ADM), Helmholtz Diabetes Center, Helmholtz Munich, Germany Insulin and IGF2 action in context of adipose (dys-)function	
15:15–15:45	<b>Prof. Stephan Herzig,</b> Helmholtz Diabetes Center and Institute for Diabetes and Cancer, Munich, Germany <b>Liver and Metabolic Complications</b>	
15:45–16:15	Prof. Anja Bosy-Westphal, Faculty of Agricultural and Nutritional Sciences of Kiel University, Christian-Albrechts-Universität zu Kiel, Germany Impact of a high protein ultra-processed food on energy balance and energy partitioning	
16:15–16:45	Coffee Break	
	Session 6: Genetics and epigenetics of obesity Chairs: Diana LeDuc & Torsten Schöneberg	
16:45–18:15		
16:45–18:15 16:45–17:15		
	Chairs: Diana LeDuc & Torsten Schöneberg  Prof. Camilla Scheele, NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark	
16:45–17:15	Chairs: Diana LeDuc & Torsten Schöneberg  Prof. Camilla Scheele, NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark Clinical Phenotypes and Molecular Patterns of Brown Adipose Tissue  Dr. Raffaele Teperino, Environmental Epigenetics, Institute of Experimental Genetics, Helmholtz Munich, Germany and German Center for Diabetes Research	









**PROGRAM** 

# Wednesday, September 4th, 2024

9:00–10:45		ty research future directions mvoll & Assaf Rudich
9:00–9:35	N	Prof. Matthias Tschöp, Helmholtz Munich and Technical University of Munich, Germany Dvercoming Obesity—The Discovery of Multi Receptor Drugs
9:35–10:10	S U	Prof. Philipp Scherer, Touchstone Diabetes Center, University of Texas Southwestern Medical Center, Dallas, USA Jinderstanding the Physiology of Adipose Tissue: More Important than Ever Before
10:10–10:45	U	<b>Prof. Antje Körner,</b> Department of Pediatrics, Faculty of Medicine, Leipzig Jniversity, Germany & HI-MAG Munich, Germany Adipogenic Hits on Kids
10:45–11:15	Coffee Break	
11:15–13:15	Session 8: Adipos Chairs: Anke Tönjes	se tissue dysfunction & & Matthias Blüher
11:15–13:15 11:15–11:55	Chairs: Anke Tönjes  D  U	
	Chairs: Anke Tönjes  D  U  U  P	Dr. Søren Nielsen, Centre for Physical Activity Research, Copenhagen, Denmark Uncovering Novel Transcripts in Human Brown Adipose Tissue
11:15–11:55	Chairs: Anke Tönjes	Or. Søren Nielsen, Centre for Physical Activity Research, Copenhagen, Denmark Uncovering Novel Transcripts in Human Brown Adipose Tissue using Long-Read RNA Sequencing technology Prof. Assaf Rudich, Department of Clinical Biochemistry and Pharmacology, Ben-Gurion University of the Negev, Beer-Sheva, Israel Age, and the adipo-neuro inflammatory response to weight loss and





