### Sunday Program

**12:30–14:40** **Registration | Room: Sunset Foyer**

**14:40–16:25** **Session 1: Metabolic Precision Therapies**  
*Session Chair: Ruth Loos, Icahn School of Medicine at Mount Sinai, USA; Jerry Olefsky, UCSD, USA*

- **14:40–14:50** Opening remarks: Matthias Tschöp, Helmholtz Zentrum München; Nikla Emambokus, Editor-in-Chief, Cell Metabolism; Robert Kruger, Deputy Editor, Cell

- **14:50–15:30** R. Di Marchi, *Indiana University, USA*  
  Chemical evolution of metabolic hormones [*INV01*]

- **15:30–16:10** S. Stenson, *Howard Hughes Medical Institute, USA*  
  Locally complete, molecularly defined neuroscience of need states such as hunger [*INV02*]

- **16:10–16:25** [ST01] Metabolic action of bispecific anti-FGFR1/βKlotho antibody in obese mice and humans  

- **16:25–17:00** **Refreshment Break | Room: Sunset Pavilion**

- **17:00–18:50** **Session 1: Metabolic Precision Therapies (Cont’d.)**  
  *Session Chair: Ruth Loos, Icahn School of Medicine at Mount Sinai, USA; Jerry Olefsky, UCSD, USA*

- **17:00–17:40** B. Spiegelman, *Harvard University, USA*  
  TBC [*INV03*]

- **17:40–18:20** S. O’Rahilly, *University of Cambridge, UK*  
  Causes and consequences of obesity; lessons from human genetics [*INV04*]

- **18:20–18:35** [ST02] Monomethyl branched chain fatty acids link mitochondrial amino acid metabolism and adipose tissue lipogenesis to fatty acid diversity  
  M. Wallace,1,* C. Green,1 L. Roberts,1 M. Lee,3 J. Ayres,2 D. Nomura,2 R. Loomba,1 C. Metallo3;1 *UC San Diego, USA, 2UC Berkeley, USA, 3Salk Institute, USA*

- **18:35–18:50** [ST03] Therapeutic targeting of a thrifty microRNA in metabolic diseases  
  A.M. Naar,1,2;1 *Harvard Medical School, USA, 2Massachusetts General Hospital Cancer Center, USA*

- **18:50–21:00** **Welcome Drinks Reception & Poster Session 1 | Room: Sunset Pavilion**

### Monday Program

**08:00–08:30** **Morning Coffee | Room: Sunset Pavilion**

**08:30–10:05** **Session 2: Toward a Future without Diabetes**  
*Chair: Cindy Hong, Pfizer, USA; Matthias von Herrath, Liji, USA*

- **08:30–09:10** B. Kahn, *Harvard Medical School, USA*  
  TBC [*INV05*]

- **09:10–09:50** F. Rubino, *King’s College London, UK*  
  Type 2 diabetes: an operable (intestinal?) disease [*INV06*]

- **09:50–10:05** [ST04] Dietary fructose is cleared by the small intestine  
  C. Jang,1,* S. Hui,1 W. Lu,1 A.J. Cowan,1 G. Lee,1 W. Lu2 G.J. Tesz,2 M.J. Birnbaum,2 J.D. Rabinowitz1;1 *Princeton University, USA, 2Pfizer, USA, 3Weill Cornell, USA*

- **10:05–10:40** **Refreshment Break | Room: Sunset Pavilion**

- **10:40–12:30** **Session 2: Toward a Future without Diabetes (Cont’d.)**  
  *Chair: Cindy Hong, Pfizer, USA; Matthias von Herrath, Liji, USA*

- **10:40–11:20** R.M. Evans, *Salk Institute, USA*  
  FXR and FGF-1: resetting diabetes [*INV07*]

- **11:20–12:00** M. Tschöp, *Helmholtz Zentrum München, Germany*  
  Toward metabolic precision medicines for obesity and type 2 diabetes [*INV08*]

- **12:00–12:15** [ST05] FGF1 regulates adipose lipolysis to maintain glucose homeostasis  
  S. Liu,* G. Sancar, A.R. Atkins, R.T. Yu, M. Downes, R.M. Evans, *Salk Institute for Biological Studies, USA*
A. Chaix,* H. Le,* M.W. Chang,³ S. Panda;¹ Salk, USA,² UCSD, USA

12:30–14:40  Lunch & Poster Session 2  |  Room: Sunset Pavilion

14:40–16:00  Session 3: Obesity—Is it all in the mind?
Session Chair: Dr. Henriette Uhlenhout, Helmholtz Zentrum München GmbH, Germany; Ralph DiLeone, Yale University, USA

14:40–15:20  L. Heisler, University of Aberdeen, UK
Defining the neurocircuitry underpinning energy homeostasis [INV09]

15:20–16:00  S. Diano, Yale University, USA
Mitochondrial dynamics in metabolism regulation [INV10]

16:00–16:30  Refreshment Break  |  Room: Sunset Pavilion

16:30–17:25  Session 3: Obesity—Is it all in the mind? (Cont’d.)
Session Chair: Dr. Henriette Uhlenhout, Helmholtz Zentrum München GmbH, Germany; Ralph DiLeone, Yale University, USA

16:30–17:10  G. Stuber, The University of North Carolina, USA
Lateral hypothalamic circuits for feeding and reward [INV11]

A.S. Garfield,* I.S. Farooqi,² K. Clement,³ F. Friedorek,¹ H.S. Connors,¹ C. Folster,¹ S. Roy,¹ B. Henderson,¹ S. Sharma¹ Rhythm, USA,² Wellcome Trust-MRC Institute of Metabolic Sciences, UK,³ INSEMr Sorbonne University, France,² Université Pierre et Marie Curie, France,¹ Charité—Universitätsmedizin, Germany,⁶ University of Tennessee Health Sciences Center, USA

19:00–22:30  Meet the Speaker Dinner  |  Tom Hams Lighthouse (buses to depart at 18:30)

Tuesday, October 17, 2017

08:00–08:30  Morning Coffee  |  Room: Sunset Pavilion

09:00–10:50  Session 4: Translating Therapeutics for Metabolic Diseases
Session Chair: Alan Saltiel, UCSD, USA; Amandine Chaix, Salk, USA

09:00–09:40  D. Drucker, Lunenfeld-Tanenbaum Research Institute, Canada
Cardiovascular biology of gut-based therapies for metabolic disease [INV12]

09:40–10:20  C.B. Newgard, Duke University Medical Center, USA
Metabolomics unveils cardiometabolic disease mechanisms and therapeutic strategies [INV13]

A. Koh,* A. Molinero,¹ M. Ståhlman,¹ M.T. Khan,¹ C. Schmidt,¹ H. Wu,¹ V. Gerdes,¹ M. Nieuwdorp,¹³ G. Manbergström,¹³ F. Bäckhed¹³, University of Gothenburg and Sahlgrenska University Hospital, Sweden,² Sahlgrenska University Hospital, Sweden,³ Slotervaart Hospital, The Netherlands,⁶ University of Amsterdam, The Netherlands,⁶ University of Copenhagen, Denmark

10:35–10:50  [ST09] Role of VEGF-B signaling in diabetic complications
A. Falkevall,² A. Mehlem,³ S. Wittgren,¹ I. Palombo,¹ P. Scotney,² A. Nash,² U. Eriksson,*¹ Karolinska Institutet, Sweden,³ CSL Limited, Australia

10:50–11:20  Refreshment Break  |  Room: Sunset Pavilion

11:20–12:30  Session 4: Translating Therapeutics for Metabolic Diseases (Cont’d.)
Session Chair: Alan Saltiel, UCSD, USA; Amandine Chaix, Salk, USA

11:20–12:00  R. Loos, Mount Sinai Hospital, USA
The genetics of obesity—going beyond common variation and common phenotypes [INV14]

12:00–12:15  [ST10] Dietary fiber protects against diet-induced obesity by altering gut microbiota and functions of GPR41-expressing cells
T. Arora,* O. Rundeko,¹ K.L. Egerod,¹ P.K. Datchary,² R. Akrami,² T. Schwartz,¹ F. Bäckhed¹³;¹ Karolinska Institutet, Sweden,¹ University of Gothenburg, Sweden
12:15–12:30 [ST11] Rapid regulation of hepatic lipid metabolism by modulation of bile acid fluxes in humans
A. Al-Khaifi,* S. Straniero, M. Ghosh Laskar, M. Rudling, B. Angelin, Karolinska Institutet, Sweden

12:30–13:30 Lunch | Room: Sunset Pavilion

13:30–14:55 Session 5: Integrated Precision Care
Session Chair: Sabrina Diano, Yale University, USA; Alexei Kharitonenkov, Indiana University, USA

13:30–14:10 K. Schoonjans, Ecole Polytechnique Fédérale de Lausanne, Switzerland
TGRS signaling and control of metabolism [INV15]

14:10–14:40 D. Chan, California Institute of Technology, USA
Physiological functions of mitochondrial dynamics [INV16]

14:40–14:55 [ST12] CerS6-derived sphingolipids promote mitochondrial fragmentation and insulin resistance in obesity through mitochondrial fission factor
P. Hammerschmidt,1,2,* D. Ostkotte,3 H. Nolte,2 A. Jais,1,2 M.J. Gerl,3 S.M. Turpin-Nolan,1,2 T. Langer,2 M. Krüger,2 B. Brügger,3 J.C. Brüning1,2; 1Max Planck Institute for Metabolism Research, Germany, 2Excellence Cluster on Cellular Stress Responses in Aging Associated Diseases (CECAD) and Center for Molecular Medicine Col University of Cologne, Germany, 3Heidelberg University Biochemistry Center (BZH), Germany, 4National Center for Diabetes Research (DZD), Germany, 5Center for Endocrinology, Diabetes and Preventive Medicine (CEDP), Germany

14:55–15:30 Refreshment Break | Room: Sunset Pavilion

15:30–16:50 Session 5: Integrated Precision Care (Cont’d.)
Session Chair: Sabrina Diano, Yale University, USA; Alexei Kharitonenkov, Indiana University, USA

15:30–16:10 R. Knight, University of California, USA
Our dynamic microbiomes and gut health [INV17]

16:10–16:50 M. Karin, University of California, USA
Role of ER stress in the pathogenesis of non-alcoholic steatohepatitis (NASH) [INV18]

16:50–17:00 Closing remarks: Matthias Tschöp, Helmholtz Zentrum München; Nikla Emambokus, Editor-in-Chief, Cell Metabolism; Robert Kruger, Deputy Editor, Cell