

1st International Conference on Engineering Biomedical and Metabolic Breakthroughs

Participants and Preliminary Program



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Presentations will be focusing on interdisciplinary strategies and next generation technologies enabling breakthroughs toward novel precision medicines. Discussions will take place in an interactive setting at a spectacularly inspiring location. No more than 100 innovators and opinion leaders have been selected to participate, representing priority areas of the Helmholtz Pioneer Campus, including next generation bio-engineering, computational biomedicine, stem cell and metabolism research. This by-invitation-only conference will also introduce the newly founded Helmholtz Pioneer Campus.

We are looking forward to an exciting conference and hope to welcome you to San Servolo!

Matthias Tschöp, Vasilis Ntziachristos, Thomas Schwarz-Romond
(on behalf of HPC)

Martin Hrabě de Angelis, Hans-Ulrich Häring, Michael Roden
(on behalf of DZD)



HELMHOLTZ PIONEER CAMPUS



DZD
German Center for
Diabetes Research

HelmholtzZentrum münchen
German Research Center for Environmental Health

HDC Helmholtz Diabetes Center

Engineering metabolic and biomedical breakthroughs Program • July 3-4, 2018

16:00	Arrival and registration
17:15 - 18:00	Welcome addresses and opening remarks
	1 Setting the stage: new frontiers in biomedicine and engineering
18:00 - 18:20	Vasilis Ntziachristos, Munich
18:20 - 18:40	Martin Hrabě de Angelis, Munich
18:40 - 19:00	Matthias Tschöp, Munich
19:00 - 20:00	Opening keynote: Amanda Fisher, London
20:00	Welcome reception
July 4, 2018	2 Neurobiology frontiers in the control of metabolism, behavior and (neuro-)development
8:30 - 9:00	Keynote: Scott Sternson, Ashburn
9:00 - 9:15	Cristina García Cáceres, Munich
9:15 - 9:30	Jens Brüning, Cologne
9:30 - 9:45	Paul Pfluger, Munich
9:45 - 10:00	Martin Heni, Tübingen
10:00 - 10:30	Coffee break

July 3-6, 2018, San Servolo, Venice, Italy

Program • July 4, 2018

10:30 - 10:45	Mikhail Shapiro, Pasadena
10:45 - 11:00	Sandrine Lefort, Munich
11:00 - 11:15	Ryan Remedios, Pasadena
11:15 - 11:30	Kristin Baldwin, La Jolla
11:30 - 11:45	Jovica Nincovic, Munich
11:45 - 12:00	Boyan Bonev, Montpellier
12:00 - 12:15	Gil Westmeyer, Munich
12:15 - 14:00	<i>Lunch break and meet the editors opportunities</i>
	3 Computational and (single) cellular approaches to rationalize metabolic organ function
14:00 - 14:15	Fabian Theis, Munich
14:15 - 14:30	Petra Schwalie, Lausanne
14:30 - 14:45	Tim Schulz, Potsdam
14:45 - 15:00	Henriette Uhlenhaut, Munich
15:00 - 15:15	Antonio Scialdone, Munich
15:15 - 15:30	Celia Martinez-Jimenez, Cambridge
15:30 - 15:45	Andreas Moor, Rehovot
15:45 - 16:00	Rahul Satija, New York
16:00 - 16:30	<i>Coffee break</i>
	4 New clinical concepts and emerging technologies for precision medicine
16:30 - 16:45	Hans-Ulrich Häring, Tübingen
16:45 - 17:00	Michael Roden, Düsseldorf
17:00 - 17:15	Annette Schürmann, Potsdam
17:15 - 17:30	Stephan Herzig, Munich
17:30 - 17:45	Susanna Hofmann, Munich
17:45 - 18:00	Jian Cui, Zürich
18:00 - 18:15	Axel Scherer, Pasadena
18:15 - 18:40	<i>Refreshments</i>
18:40 - 19:50	Panel discussion: „Turning new technologies into future therapies - where do we stand?“ Chair: Brady Huggett (Nature Biotech)
20:15	<i>Conference dinner at venue</i>

Program • July 5, 2018

8:30 - 9:00	Keynote: Aydogan Ozcan, Los Angeles
	5 Breakthroughs in beta-cell regeneration, biology and insulin signaling
9:00 - 9:15	Henrik Semb, Copenhagen
9:15 - 9:30	Heiko Lickert, Munich
9:30 - 9:45	Michele Solimena, Dresden
9:45 - 10:00	Anthony Gavalas, Dresden
10:00 - 10:15	Ünal Coskun, Dresden
10:15 - 10:45	<i>Coffee break</i>
	6 Emerging epigenetic concepts in the control of metabolism
10:45 - 11:00	Robert Schneider, Munich
11:00 - 11:15	Andrew Pospisilik, Freiburg
11:15 - 11:30	Raffaele Teperino, Munich
11:30 - 11:45	Kurt Schmoller, Munich
11:45 - 12:00	Maria Colomé-Tatché, Munich
12:00 - 12:15	Stefan Stricker, Munich
12:15 - 14:00	<i>Lunch break and meet the editors opportunities</i>
	7 T1D and immunometabolism meet enabling technologies
14:00 - 14:15	Anette-Gabriele Ziegler, Munich
14:15 - 14:30	Ezio Bonifacio, Dresden
14:30 - 14:45	Carolin Daniel, Munich
14:45 - 15:00	Oliver Plettenburg, Hannover
15:00 - 15:15	William Shih, Boston
15:15 - 15:45	<i>Coffee break</i>
	8 From organelle to systems level insights into metabolic regulation
15:45 - 16:15	Keynote: Matthias Mann, Munich
16:15 - 16:30	Marcia Haigis, Boston
16:30 - 16:45	Fabiana Perocchi, Munich
16:45 - 17:00	Timo Müller, Munich
17:00 - 17:15	Jantje Gerdes, Munich

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17:15 - 17:30	Bengt Belgardt, Düsseldorf
17:30 - 17:45	Natalie Krahmer, Munich
17:45 - 18:00	Alan Saghatelian, La Jolla
18:00	<i>Free evening in Venice</i>
	July 6, 2018
	9 Integrated organoid, microfluidics and imaging technologies: the future of biomedical discovery?
8:30 - 9:00	Keynote: Jim Wells, Cincinnati
9:00 - 9:15	Matthias Meier, Freiburg
9:15 - 9:30	Maximilian Reichert, Munich
9:30 - 9:45	Christina Scheel, Munich
9:45 - 10:00	Ali Ertürk, Munich
10:00 - 10:15	Theodore Alexandrov, Heidelberg
10:15 - 10:45	<i>Coffee break</i>
	10 Enabling concepts for discovery, disease modeling and therapy
10:45 - 11:00	Annette Peters, Munich
11:00 - 11:15	Wolfgang Wurst, Munich
11:15 - 11:30	Petra Hajkova, London
11:30 - 11:45	Eckhard Wolf, Munich
11:45 - 12:00	Lori Sussel, Denver
12:00 - 12:15	Siegfried Ussar, Munich
12:15 - 12:30	Michael Sattler, Munich
12:30 - 13:30	<i>Lunch break</i>
	11 Inter-organ signaling meets biosensing and chemical biology
13:30 - 13:45	Irene Miguel-Aliaga, London
13:45 - 14:00	Oliver Bruns, Munich
14:00 - 14:15	Anja Zeigerer, Munich
14:15 - 14:30	Amy Palmer, Boulder
14:30-14:45	Carsten Schultz, Oregon
14:45-15:10	<i>Coffee break</i>
15:10-16:00	Closing keynote: Stephen Quake, Stanford