1st Annual Meeting of the Helmholtz Alliance "ICEMED – Imaging and Curing Environmental Metabolic Diseases"

Hotel Feuriger Tatzlwurm, Oberaudorf
Berggasthof Rosengasse
Bavaria, Germany
July 1-3, 2013
**Agenda**

**Monday, July 1 (Day1)**

**Arrival of ICEMED Partners and members of Scientific Advisory Board (SAB) at Hotel Feuriger Tatzlwurm between 1-3pm**

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<th>Time</th>
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<tr>
<td>1pm – 3pm</td>
<td>Lunch/Snack at Hotel Tatzlwurm</td>
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<tr>
<td>3:15pm – 3:30pm</td>
<td>Welcome - Matthias Tschöp, Helmholtz Zentrum München &amp; Jon Shah, Forschungszentrum Jülich</td>
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| 3:30pm – 4:30pm | **Special lecture: Michael Schwartz**  
  Brain Mechanisms Governing Glucose Homeostasis: Implications for Diabetes Pathogenesis and Treatment. |
| 4:30pm – 4:45pm | Break                              |
| 4:45pm – 7pm  | **Session 1: Discovery and Validation of CNS Targets**  
  (Leader: Mathias Treier & Jon Shah; Chairs: Sabrina Diano, Heike Muenzberg, Nicola Sibson & David Dalessio)  
  18min Presentations by senior/junior scientists + 7min discussion |
| 4:45pm – 5:05pm | Giles Yeo, *University of Cambridge* (13min)  
  Molecular mechanisms underlying brain control of food intake |
| 5:05pm – 5:30pm | Thomas Willnow and Vanessa Schmidt, MDC Berlin  
  Functional characterisation of recently identified CNS targets relevant for the control of obesity and type 2 diabetes |
| 5:30pm – 5:50pm | Petra Wiedmer, *MDC Berlin* (13min)  
  (Opto)genetic deconstruction and functional characterization of hypothalamic BSX circuits controlling metabolism |
5:50pm – 6:15pm  
Johannes Beckers, *Helmholtz Zentrum München* & Tamas Horvath, *Yale University*  
Epigenetics of T2DM & Functional Neuroanatomy

6:15pm – 6:40pm  
Thoralf Niendorf and Andreas Graessl, *MDC Berlin*  
Development of 23Na Imaging methodology and applications

6:40pm – 7pm  
Heiko Krude, *Charite*, *(13min)*  
Players in weight maintenance and transition of comorbidities: The Berlin obesity intervention KFO-218-cohorts

7:30pm – 9pm  
Dinner

8:30pm – 10pm  
*Closed session: ICEMED Coordinators & Scientific Advisory Board (SAB)*  
Jon Shah, *Forschungszentrum Jülich*  
Matthias Tschöp, *Helmholtz Zentrum München*  
Matthias Blüher, *Universität Leipzig*  
Stephan Herzig, *German Cancer Research Center*  
Jens Brüning, *Max Planck Institute for Neurological Research Cologne*  
Harald Möller, *Max Planck Institute Leipzig*  
Scientific Advisory Board (all members)  
Juliane Kampe, *Helmholtz Zentrum München*
### Tuesday, July 2 (Day 2)

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<tr>
<th>Time</th>
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<tr>
<td>7am – 8am</td>
<td>Breakfast</td>
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<td>8am – 10.20am</td>
<td><strong>Session 2: Integrating central and peripheral processes</strong>  &lt;br&gt; (Leaders: Matthias Blüher &amp; Jon Shah; Chairs: Stephanie Fulton, Michael Cowley &amp; Wolfgang Langhans)  &lt;br&gt; 18min Presentations by senior/junior scientists + 7min discussion</td>
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<td>8am – 8:25am</td>
<td>Stephan Herzig, Mauricio Berriel Diaz and Milen Kirilov,  &lt;br&gt; <strong>German Cancer Research Center</strong>  &lt;br&gt; <strong>Communication between peripheral metabolism and the CNS</strong></td>
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<td>8:25am – 8:50am</td>
<td>Heiko Lickert and Alexandra Tregubova, <strong>Helmholtz Zentrum München</strong>  &lt;br&gt; <strong>Progenitor recruitment &amp; turnover in the beta cell and intestinal stem cell niche</strong></td>
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<td>8:50am – 9:10am</td>
<td>Matthias Blüher, <strong>University Leipzig (13min)</strong>  &lt;br&gt; <strong>Adipose tissue dysfunction in obesity</strong></td>
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<td>9:10am – 9:35am</td>
<td>Ingo Bechmann and Martin Gericke, <strong>University Leipzig</strong>  &lt;br&gt; <strong>Local Proliferation of Adipose Tissue Macrophages</strong></td>
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<tr>
<td>9:35am – 9:55am</td>
<td>Julia Szendrödi, <strong>University Düsseldorf (13min)</strong>  &lt;br&gt; <strong>Insulin-regulated energy metabolism – cross talk between brain and peripheral tissues</strong></td>
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<td>9:55am – 10.20am</td>
<td>Harald Möller and Henrik Marschner, <strong>MPI Leipzig</strong>  &lt;br&gt; <strong>Magnetic resonance mapping of myelin-associated water</strong></td>
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<td>10.20am – 10:40am</td>
<td>Break</td>
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<tr>
<td>10:40am – 12:40am</td>
<td><strong>Session 3: Impaired CNS control of metabolism and therapeutic intervention</strong>  &lt;br&gt; (Leader: Magdalena Götz, Matthias Tschöp &amp; Jon Shah; Chairs: Lori Zeltser, Peter Jezzard &amp; Mark Heiman)  &lt;br&gt; 18min Presentations by senior/junior scientists + 7min discussion</td>
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<tr>
<td>10:40am – 11am</td>
<td>Eva Tsaousidou, <strong>University Cologne (13min)</strong>  &lt;br&gt; <strong>Molecular imaging and targeting of hypothalamic inflammation in obesity</strong></td>
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</table>
11am – 11:25am  Paul Pfluger, Sonja Schriever and Dhiraj Kabra, Helmholtz Zentrum München
DUSP8 - a rheostat for hypothalamic Jnk signaling and systemic glucose intolerance & Hypothalamic HDAC5 links epigenetic chromatin remodeling with the pathogenesis of obesity

11:25am – 11:50am  Susanna Hofmann and Robby Tom, Helmholtz Zentrum München
Gender-specific effects of endurance training on diet-induced obesity

11:50am – 12:15pm  Manfred Hallschmid, University Tübingen/ Hendrik Lehnert and Volker Ott, Uniklinikum Schleswig Holstein
Effects of intranasal neuropeptides on the CNS control of metabolism

12:30pm – 2pm  Lunch

2pm – 4:25pm  Continued Session 3:
(Chairs: Dana Small & Joel Elmquist)

2pm – 2:25pm  Andreas Fritsche and Stephanie Kullmann, University Tübingen
Imaging of brain networks and their modulation by insulin

2:25pm – 2:50pm  Jon Shah and Deepu Pillai, Forschungszentrum Jülich
MR-PET an 31P Spectroscopy at 9.4T

2:50pm – 3:15pm  Andreas Androutsellis-Theotokis and Xenia Nikolakopoulou, Uniklinikum Dresden
Involvement of a newly discovered endogenous neural stem cell in the CNS control of metabolic diseases

3:15pm - 3:40pm  Gil Westmeyer and Anurag Mishra, Helmholtz Zentrum München
Semi-genetic cell labeling for multimodal imaging

3:40pm - 4:05pm  Michael Bock and Su-Chin Chiu, Uniklinik Freiburg
MR Technologies for Imaging of Adipose Tissue

4:05pm – 4:25pm  Armin Nagel, German Cancer Research Center, (13min)
Physiological MR-Iaging with X-Nuclei
4:30pm – 7:30pm  
*Time for individual discussions & networking*

7:30pm  
**Bayrischer Abend**  
Suckling pig in the chestnut garden in Dirndl and Lederhosen with Bavarian Music by Landy & die Landeier

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**Wednesday, July 3 (Day 3)**

8am – 9am  
Breakfast

9am – 11am  
**Concluding session: ICEMED - SAB Meeting**  
Comments and Recommendations from SAB to ICEMED leadership; Discussions with investigators  
Announcement of 2 best interdisciplinary-collaboration-approach presentations who will be awarded with a graduate-student-position  
11:30 Summary and Farewell by Coordinators Tschöp/Shah for all ICEMED participants

12pm  
Lunch snack

2pm  
**Departure by shuttle bus to Munich city/airport**
Members of the ICEMED Scientific Advisory Board:

Prof Michael Schwartz, University of Washington (Clinical), Chair  
Prof Michael Cowley, Monash University (Drug Discovery), Co-Chair  
Prof Peter Jezzard, FMRIB Centre (Imaging), Co-Chair  
Prof Dave D’Alessio, University of Cincinnati (Clinical)  
Prof Sabrina Diano, Yale University (Neuroendocrinology)  
Prof Joel Elmquist, UT Southwestern (Mouse Genetics)  
Prof Stephanie Fulton, University of Montreal (Addiction & Reward)  
Prof Mark Heiman, NumeHealth (Neuroendocrinology)  
Prof Wolfgang Langhans, ETH Zürich (Neuroendocrinology)  
Prof Heike Münzberg, Pennington Biomedical Research Centre (Neuroanatomy)  
Prof Dana Small, Pierce Laboratories (Imaging)  
Prof Lori Zeltser, Columbia University (Neurobiology)  
Prof Nicola Sibson, Oxford University (Imaging)

All ICEMED partners and SAB please note:  

PhD positions announcement: An integral part of the ICEMED Alliance is the promotion of young researchers. The alliance will fund two PhD positions to further enhance interdisciplinary networking between the ICEMED partners. The graduate students will be jointly supervised by Partners of the alliance providing the junior researchers with excellent networking conditions in the field of basic, clinical and imaging metabolic research. The 2 presenting teams of senior and junior researchers with the best interdisciplinary collaboration approach will be "awarded" with a graduate student position for their institution. The scientific advisory board will decide and announce the "award-winners" after the final session on Wednesday.
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<tr>
<th>Participant</th>
<th>Affiliation</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antretter, Martina</td>
<td>HMGU</td>
<td><a href="mailto:martina.antretter@helmholtz-muenchen.de">martina.antretter@helmholtz-muenchen.de</a></td>
</tr>
<tr>
<td>Bechmann, Ingo</td>
<td>Univ Leipzig</td>
<td><a href="mailto:Ingo.Bechmann@medizin.uni-leipzig.de">Ingo.Bechmann@medizin.uni-leipzig.de</a></td>
</tr>
<tr>
<td>Beckers, Johannes</td>
<td>HMGU</td>
<td><a href="mailto:beckers@helmholtz-muenchen.de">beckers@helmholtz-muenchen.de</a></td>
</tr>
<tr>
<td>Berriel Diaz, Mauricio</td>
<td>DKFZ</td>
<td><a href="mailto:m.berrieldiaz@dkfz-heidelberg.de">m.berrieldiaz@dkfz-heidelberg.de</a></td>
</tr>
<tr>
<td>Blüher, Matthias</td>
<td>Univ Leipzig</td>
<td><a href="mailto:Matthias.Blueher@medizin.uni-leipzig.de">Matthias.Blueher@medizin.uni-leipzig.de</a></td>
</tr>
<tr>
<td>Bock, Michael</td>
<td>Uniklinik Freiburg</td>
<td><a href="mailto:michael.bock@uniklinik-freiburg.de">michael.bock@uniklinik-freiburg.de</a></td>
</tr>
<tr>
<td>Chiu, Su-Chin</td>
<td>Uniklinik Freiburg</td>
<td><a href="mailto:su-chin.chiu@uniklinik-freiburg.de">su-chin.chiu@uniklinik-freiburg.de</a></td>
</tr>
<tr>
<td>Cowley, Michael</td>
<td>Monash Univ</td>
<td><a href="mailto:Michael.cowley@monash.edu">Michael.cowley@monash.edu</a></td>
</tr>
<tr>
<td>Dalessio, David</td>
<td>Cincinnatti</td>
<td><a href="mailto:DALESSD@UCMAIL.UC.EDU">DALESSD@UCMAIL.UC.EDU</a></td>
</tr>
<tr>
<td>Diano, Sabrina</td>
<td>Yale</td>
<td><a href="mailto:sabrina.diano@yale.edu">sabrina.diano@yale.edu</a></td>
</tr>
<tr>
<td>Ehses, Philipp</td>
<td>Univ Tübingen</td>
<td><a href="mailto:philipp.ehses@tuebingen.mpg.de">philipp.ehses@tuebingen.mpg.de</a></td>
</tr>
<tr>
<td>Elmquist, Joel</td>
<td>UT Southwestern</td>
<td><a href="mailto:Joel.Elmquist@UTSouthwestern.edu">Joel.Elmquist@UTSouthwestern.edu</a></td>
</tr>
<tr>
<td>Fritsche, Andreas</td>
<td>Univ Tübingen</td>
<td><a href="mailto:Andreas.fritsche@med.uni-tuebingen.de">Andreas.fritsche@med.uni-tuebingen.de</a></td>
</tr>
<tr>
<td>Fulton, Stephanie</td>
<td>Univ Montreal</td>
<td><a href="mailto:stephanie.fulton@umontreal.ca">stephanie.fulton@umontreal.ca</a></td>
</tr>
<tr>
<td>Gericke, Martin</td>
<td>Uni Leipzig</td>
<td><a href="mailto:Martin.Gericke@medizin.uni-leipzig.de">Martin.Gericke@medizin.uni-leipzig.de</a></td>
</tr>
<tr>
<td>Graessl, Andreas</td>
<td>MDC Berlin</td>
<td><a href="mailto:andreas.graessl@mdc-berlin.de">andreas.graessl@mdc-berlin.de</a></td>
</tr>
<tr>
<td>Hallschmid, Manfred</td>
<td>Uni Tübingen</td>
<td><a href="mailto:manfred.hallschmid@uni-tuebingen.de">manfred.hallschmid@uni-tuebingen.de</a></td>
</tr>
<tr>
<td>Heiman, Mark</td>
<td>Numehalth</td>
<td><a href="mailto:mheiman@numehalth.com">mheiman@numehalth.com</a></td>
</tr>
<tr>
<td>Herzig, Stephan</td>
<td>DKFZ</td>
<td><a href="mailto:S.Herzig@dkfz-heidelberg.de">S.Herzig@dkfz-heidelberg.de</a></td>
</tr>
<tr>
<td>Hofmann, Susanna</td>
<td>HMGU</td>
<td><a href="mailto:susanna.hofmann@helmholtz-muenchen.de">susanna.hofmann@helmholtz-muenchen.de</a></td>
</tr>
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<td>Horvath, Tamas</td>
<td>Yale</td>
<td><a href="mailto:tamas.horvath@yale.edu">tamas.horvath@yale.edu</a></td>
</tr>
<tr>
<td>Hrabe de Angelis, Martin</td>
<td>HMGU</td>
<td><a href="mailto:hrabe@helmholtz-muenchen.de">hrabe@helmholtz-muenchen.de</a></td>
</tr>
<tr>
<td>Huypens, Peter</td>
<td>HMGU</td>
<td><a href="mailto:peter.huypens@helmholtz-muenchen.de">peter.huypens@helmholtz-muenchen.de</a></td>
</tr>
<tr>
<td>Jezzard, Peter</td>
<td>Oxford</td>
<td><a href="mailto:peterj@fmrib.ox.ac.uk">peterj@fmrib.ox.ac.uk</a></td>
</tr>
<tr>
<td>Kampe, Juliane</td>
<td>HMGU</td>
<td><a href="mailto:juliane.kampe@helmholtz-muenchen.de">juliane.kampe@helmholtz-muenchen.de</a></td>
</tr>
<tr>
<td>Krude, Heiko</td>
<td>Charite</td>
<td><a href="mailto:Heiko.Krude@charite.de">Heiko.Krude@charite.de</a></td>
</tr>
<tr>
<td>Kullmann, Stephanie</td>
<td>Uni Tübingen</td>
<td><a href="mailto:stephanie.kullmann@med.uni-tuebingen.de">stephanie.kullmann@med.uni-tuebingen.de</a></td>
</tr>
<tr>
<td>Langhans, Wolfgang</td>
<td>ETHZ</td>
<td><a href="mailto:wolfgang-langhans@ethz.ch">wolfgang-langhans@ethz.ch</a></td>
</tr>
<tr>
<td>Larsen, Philip</td>
<td>Sanofi</td>
<td><a href="mailto:PhilipJust.Larsen@sanofi.com">PhilipJust.Larsen@sanofi.com</a></td>
</tr>
<tr>
<td>Lehnert, Hendrik</td>
<td>Schleswig Holst.</td>
<td><a href="mailto:Hendrik.Lehnert@uk-sh.de">Hendrik.Lehnert@uk-sh.de</a></td>
</tr>
<tr>
<td>Lickert, Heiko</td>
<td>HMGU</td>
<td><a href="mailto:heiko.lickert@helmholtz-muenchen.de">heiko.lickert@helmholtz-muenchen.de</a></td>
</tr>
<tr>
<td>Marschner, Henrik</td>
<td>Uni Leipzig</td>
<td><a href="mailto:marschner@cbs.mpg.de">marschner@cbs.mpg.de</a></td>
</tr>
<tr>
<td>Milen Kirilov</td>
<td>DKFZ</td>
<td><a href="mailto:m.kirilov@dkfz-heidelberg.de">m.kirilov@dkfz-heidelberg.de</a></td>
</tr>
<tr>
<td>Mishra, Anurag</td>
<td>HMGU</td>
<td><a href="mailto:Anurag.mishra@helmholtz-muenchen.de">Anurag.mishra@helmholtz-muenchen.de</a></td>
</tr>
<tr>
<td>Moeller, Harald</td>
<td>MPI Leipzig</td>
<td><a href="mailto:moeller@cbs.mpg.de">moeller@cbs.mpg.de</a></td>
</tr>
<tr>
<td>Morin, Silke</td>
<td>HMGU</td>
<td><a href="mailto:silke.morin@helmholtz-muenchen.de">silke.morin@helmholtz-muenchen.de</a></td>
</tr>
<tr>
<td>Muenzberg-Gruening, Heike</td>
<td>Pennington</td>
<td><a href="mailto:Heike.Munzberg@pbrc.edu">Heike.Munzberg@pbrc.edu</a></td>
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Müller, Günter  
Nagel, Armin  
Niendorf, Thoralf  
Nikolakopoulou, Xenia  
Ott, Volker  
Pfüger, Paul  
Pillai, D. R  
Preissl, Hubert  
Schmidt, Vanessa  
Schriever, Sonja  
Schwartz, Michael  
Schulze, Andreas  
Shah, Jon  
Sibson, Nicola  
Small, Dana  
Szendrödi, Julia  
Theotokis, Andreas  
Tom, Robby  
Tregubova, Alexandra  
Tsaousidou, Eva  
Tschöp, Matthias  
Vogt Weisenhorn, Daniela  
Westmeyer, Gil  
Wiedmer, Petra  
Willnow, Thomas  
Yeo, Giles  
Zeltser, Lori

HMGU  
DKFZ Heidelberg  
MDC Berlin  
Dresden  
Univ Lübeck  
HMGU  
FZJ  
Uni Tübingen  
MDC Berlin  
HMGU  
Univ Washington  
Helmholtz Assoc  
FZJ  
Oxford  
Yale  
Univ Düsseldorf  
Dresden  
HMGU  
HMGU  
Univ Köln  
HMGU  
MDC Berlin  
MDC Berlin  
Cambridge  
Columbia

guenter.mueller@helmholtz-muenchen.de  
a.nagel@Dkfz-Heidelberg.de  
thoralf.niendorf@mdc-berlin.de  
xenia.nk@gmail.com  
ott@kfg.uni-luebeck.de  
paul.pflu@helmholtz-muenchen.de  
d.pillai@fz-juelich.de  
hubert.preissl@uni-tuebingen.de  
Vanessa.Schmidt@mdc-berlin.de  
sonja.schriever@helmholtz-muenchen.de  
mschw@u.washington.edu  
andreas.schulze@helmholtz.de  
N.J.Sha@fz-juelich.de  
nicola.sibson@oncology.ox.ac.uk  
dana.small@yale.edu  
Julia.Szendoedi@DDZ.uni-duesseldorf.de  
Andreas.Theotokis@uniklinikum-dresden.de  
robby.tom@helmholtz-muenchen.de  
alexandra.tregubova@helmholtz-muenchen.de  
etsaous0@mail.uni-koeln.de  
tschoep@helmholtz-muenchen.de  
daniela.vogt@helmholtz-muenchen.de  
gil.westmeyer@helmholtz-muenchen.de  
Petra.Wiedmer@mdc-berlin.de  
willnow@mdc-berlin.de  
gshy2@cam.ac.uk  
lz146@columbia.edu

DKFZ, Deutsches Krebsforschungszentrum, German Cancer Research Center  
ETHZ, Eidgenössische Technische Hochschule Zürich, Swiss Federal Institute of Technology Zurich  
FZJ, Forschungszentrum Jülich  
MDC, Max Delbrück Centrum für Molekulare Medizin, Berlin  
MPI, Max-Planck-Institut  
HMGU, Helmholtz Zentrum München

*Basic Research, Clinical, Imaging  
ICEMED coordinators: Mathias Treier, Jon Shah, Matthias Tschöp  
coordinating center: Helmholtz Zentrum München HMGU  
Program Manager: Juliane Kampe, Juliane.kampe@helmholtz-muenchen.de
**Contact details:** (if calling from a US cell phone please dial 001149 followed by phonenumber)

**Juliane Kampe:** +49 151 43260590, email: juliane.kampe@helmholtz-muenchen.de

**Matthias Tschöp:** + 49 151 46 70 83 87 (work cell), +49 176 312 23 979 (private cell), email: tschoep@helmholtz-muenchen.de

**Martina Antretter:** + 49 151 62845632, email: martina.antretter@helmholtz-muenchen.de

**Silke Morin:** +49 171 5672557, email: silke.morin@helmholtz-muenchen.de

**Hotel Feuriger Tatzlwurm:** +49 8034 3008-0, Frau Kiesl-Langer

**Inntaxi:** +49 8034 7056366

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**Announcement:**

Next annual *ICEMED* meeting will be held in Berlin.  
July 1-2, 2014.