3rd Kloster Seeon Meeting on Secretases

June 8 to 10, 2020
in Kloster Seeon, Bavaria, Germany

Confirmed Speakers

Christoph Becker-Pauly, University Kiel, Germany
Stephen Blacklow, Harvard University, USA
Carl Blobel, HSS Research Institute, USA
Paolo Bovolenta, University Madrid, Spain
Lucía Chávez Gutiérrez, University of Leuven, Belgium
Matthew Freeman, University of Oxford, Great Britain
Christian Haass, DZNE & LMU, Germany
Jochen Herms, DZNE & LMU, Germany
Eric McDade, Washington University, St. Louis, USA
Stefan Rose-John, University of Kiel, Germany
Paul Saftig, University of Kiel, Germany
Harald Steiner, DZNE & LMU, Germany
Giuseppina Tesco, Tufts University, USA
Robert Vassar, Northwestern University, USA
Riqiang Yan, University of Connecticut, USA
Keqiang Ye, Emory University School of Medicine, USA
Rui Zhou, Tsinghua University, China

Organized by:

Stefan Lichtenthaler
MRI/ Technical University & DZNE
Munich

For information and registration, please go to
www.dzne.de/secretase-meeting

Keynote

Bart DeStrooper, University of Leuven, Belgium
Key dates of the program

Start of the meeting: Monday, June 8, 2020 at 2 pm
End of the meeting: Wednesday, June 10, 2020 at 2 pm

Preliminary Program
(Program may be subject to change – final program will be available later)

Monday, June 8, 2020

14.00 - 14.15 Welcome

Session 1: ADAM proteases

14.15 - 14.35 Paul Saftig, University of Kiel, Germany
   ADAM10: Regulation and (patho) physiological roles

14.40 - 15.00 Paola Bovolenta, University of Madrid, Spain
   Sfrp1 in neurodegeneration and neuroinflammation

15.05 - 15.25 Stephen Blacklow, Harvard University, USA
   Structure and function of the alpha secretases ADAM10 and ADAM17

15.30 - 16.10 Coffee break

16.10 - 16.25 short talk selected from abstracts

16.30 - 16.40 5 two minutes talks with two slides (selected from the poster abstracts)

Keynote lecture

16.45 - 17.15 Bart de Strooper, KU Leuven, Belgium
   Secretases: wrong targets or missed opportunities for Alzheimer medication?

17.15 – 17.30 Discussion

18.00 - 20.15 Reception & Dinner
Tuesday, June 9, 2020

Session 2: BACE proteases

09.00 - 09.20 Robert Vassar, Northwestern University Chicago, USA

Conditional knockout of BACE1 in the adult disrupts hippocampal mossy fibers.

09.25 - 09.45 Riqiang Yan, University of Connecticut, USA

Improve synaptic functions in relating to BACE1 inhibition

09.50 - 10.10 Stefan Lichtenthaler, DZNE & TUM, Germany

Substrates and functions of BACE1

10.15 – 10.55 Coffee break

11.00 - 11.20 Giuseppina Tesco, Tufts University Boston, USA

BACE1 and its substrates: implications for Alzheimer’s disease

11.25 - 11.45 Jochen Herms, DZNE & LMU, Germany

Bace inhibition and axonal damage in Alzheimer’s Disease

11.50 - 12.10 Eric McDade, Washington University, St. Louis, USA

What is the role of BACE and related Secretase inhibitors in AD Prevention Trials?

12.15 – 12.30 Discussion on priorities in BACE1 research

12.45 - 14.30 Lunch

Session 3: Secretases in Inflammation and Neurodegeneration

15.00 - 15.20 Christian Haass, DZNE & LMU, Germany

TBA

15.25 - 15.45 Stefan Rose-John, University of Kiel, Germany

Role of Proteolysis in IL-6 and EGF-R Signaling

15.50 – 16.10 short talk selected from abstracts

16.10 - 16.40 Coffee Break

Session 4: ADAMs / iRhoms

16.45 – 17.05 Carl Blobel, HSS Research Institute, USA

iRhoms/ADAM17: key regulators of TNFalpha and EGFR signaling

17.05 - 17.25 Matthew Freeman, University of Oxford, UK

Secretases of the rhomboid-like superfamily

17.30 - 17.45 short talk selected from abstracts

17.50 - 18.00 5 two minutes talks with two slides (selected from the poster abstracts)

18.30 – 20.15 Dinner

20.30 - 22.30 Poster session
**Wednesday, June 10, 2020**

**Session 5: Gamma-Secretase**

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<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Title</th>
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<tbody>
<tr>
<td>09.00</td>
<td>Rui Zhou</td>
<td>Tsinghua University, China</td>
<td>Molecular basis for ligand binding of human γ-secretase</td>
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<tr>
<td>09.25</td>
<td>Harald Steiner</td>
<td>DZNE und LMU, Germany</td>
<td>Mechanistic insights into intramembrane proteolysis by γ-secretase</td>
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<tr>
<td>09.50</td>
<td>Lucía Chávez-Gutiérrez</td>
<td>KU Leuven, Belgium</td>
<td>Mechanisms securing γ-Secretase-APP interactions and regulating Aβ length</td>
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10.15 - 11.00  Coffee break

**Session 6: Delta-Secretase and alternative β-Secretases**

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<th>Time</th>
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<th>Affiliation</th>
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<tr>
<td>11.00</td>
<td>Keqiang Ye</td>
<td>Emory University School of Medicine, Atlanta, USA</td>
<td>C/EBPβ/Delta-secretase Pathway Dictates Alzheimer’s Disease Pathogenesis</td>
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<tr>
<td>11.25</td>
<td>Christoph Becker-Pauly</td>
<td>University of Kiel, Germany</td>
<td>The alternative β-secretase meprin β in neurodegeneration and beyond</td>
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<td>11.50</td>
<td>N.N</td>
<td>Affiliation</td>
<td>TBA</td>
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12.15 - 12.30  Summary and conclusion

12.45 - 14.00  Lunch

**Departure**