RC2NB 4.0
TRANSFORMING RESEARCH IN MS AND NEUROIMMUNOLOGY

SYMPOSIUM
DECEMBER 15TH, 2023

BIOZENTRUM, MAURICE E. MÜLLER SAAL,
SPITALSTRASSE 41, 4056 BASEL
The Program

This symposium promises to be an exceptional opportunity for knowledge exchange on hot topics in MS and Neuroimmunology.

09:30 Welcome Coffee
10:00 Welcome by Ludwig Kappos and Cristina Granziera

10:10 – 10:40 Opening Lecture: Learning from Other Areas of Medicine

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:10</td>
<td>The patient’s digital twin</td>
<td>Tobias Heimann, Head of Artificial Intelligence, Erlangen, Germany</td>
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10:40 – 12:00 Session 1: Neuroimmunological Mechanisms in MS
Chair: Renaud du Pasquier (Lausanne, CH) and Reinhard Hohlfeld (Munich, DE)

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<th>Time</th>
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<tr>
<td>10:40</td>
<td>Innovative concepts in neuroimmunology</td>
<td>Amit Bar-Or, Philadelphia, PA, USA</td>
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<td>11:00</td>
<td>The B-cell perspective of MS</td>
<td>Tobias Derfuss, Basel, CH</td>
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<td>11:15</td>
<td>A role for IgA-producing cells in MS?</td>
<td>Anne-Katrin Pröbstel, Basel, CH</td>
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<td>11:30</td>
<td>The success story of B-cell directed therapy and new therapeutic targets</td>
<td>Stephen Hauser, San Francisco, CA, USA</td>
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12:00 – 13:00 Lunch Break & Poster Session
13:00 – 14:30 Session 2: Fluid and Imaging Biomarkers in MS
Chair: Tanuja Chitnis (Boston, US) and Frederik Piehl (Stockholm, SE)

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<tr>
<td>13:00</td>
<td>What can be said at all can be clearly quantified, and whereof one cannot quantify thereof one must be silent...</td>
<td>Daniel S. Reich, Bethesda, MD, USA</td>
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<td>13:30</td>
<td>Body fluid biomarkers in MS – finally on target?</td>
<td>Jens Kuhle, Basel, CH</td>
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<td>13:50</td>
<td>The role of complement in MS</td>
<td>Johanna Oechtering, Basel, CH</td>
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<td>14:00</td>
<td>Imaging axonal damage and repair in MS: the INsIDER experience</td>
<td>Cristina Granziiera, Basel, CH</td>
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<td>14:20</td>
<td>Mechanisms of clinical worsening independent of inflammatory activity in MS: an advanced MRI perspective</td>
<td>Alessandro Cagol, Basel, CH</td>
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14:30 – 15:00 Coffee Break & Poster Session
THE PROGRAM

This symposium promises to be an exceptional opportunity for knowledge exchange on hot topics in MS and Neuroimmunology.

15:00 – 16:30 SESSION 3: CLINICAL TRIALS, DISEASE MONITORING, COHORT STUDIES AND PRAGMATIC CLINICAL TRIALS IN MS

CHAIRS: MARIA PIA SORMANI (GENOVA, IT) AND URS FISCHER (BASEL, CH)

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<tr>
<td>15:00 – 15:30</td>
<td>Meta-epidemiology of clinical trials</td>
<td>John P.A. Ioannidis, Stanford, CA, USA</td>
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<td>15:30 – 15:40</td>
<td>The Swiss Multiple Sclerosis Cohort: a 10-year investment in quality</td>
<td>Giulio Disanto, Lugano, CH; Jens Kuhle, Basel, CH</td>
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<td>15:40 – 15:50</td>
<td>Neurostatus eEDSS</td>
<td>Marcus D’Souza, Basel, CH</td>
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<td>15:50 – 16:10</td>
<td>Digital Biomarkers for pwMS - the dreaMS project</td>
<td>Johannes Lorscheider, Tim Woelfle, Basel, CH</td>
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<td>16:10 – 16:30</td>
<td>Pragmatic trials in MS: a novel journey</td>
<td>Lars Hemkens, Basel, CH</td>
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16:30 – 17:00 COFFEE BREAK & POSTER SESSION

17:00 – 18:00 SESSION 4: TOWARDS DIGITAL TWINS IN NEUROIMMUNOLOGY?

CHAIRS: TORSTEN SCHWEDE (BASEL, CH) AND JAN HILLERT (STOCKHOLM, SE)

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<td>17:00 – 17:15</td>
<td>The Big MS data network</td>
<td>Jan Hillert, Stockholm, SE</td>
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<td>17:15 – 17:30</td>
<td>Big (great) data in immunobiology: is more always better?</td>
<td>Manfred Claassen, Tübingen, DE</td>
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<td>17:30 – 17:45</td>
<td>Federated Learning as an alternative to data transfer?</td>
<td>Björn Tackenberg, Basel, CH</td>
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<tr>
<td>17:45 – 18:00</td>
<td>Big (great) data from clinical trials: what can we learn</td>
<td>Amit Khanna, Basel, CH</td>
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18:00 CLOSING REMARKS – RCZNB 4.0: Τα πάντα ρει, μηδέποτε κατά τ’αυτό μένειν. LUDWIG KAPPOS (BASEL, CH)

18:15 APERO RICHE
LIST OF SPEAKERS AND CHAIRS

RC2NB is delighted to present the distinguished speakers and chairs who will illuminate and enrich your experience at the RC2NB Symposium 2023!

SPEAKERS

Prof. Amit Bar-Or
Director, Center for Neuroinflammation and Neurotherapeutics
Chief, Multiple Sclerosis Division
Philadelphia, PA, USA

Dr. Alessandro Cagol
Assistant / Postdoc - Translational Imaging in Neurology (ThInK)
Allschwil, Switzerland

Prof. Manfred Claassen
Professor of Clinical Bioinformatics at the Medical Faculty of the University of Tübingen
Tübingen, Deutschland

Dr. Giulo Disanto
Consultant Neurologist - University Hospital Lugano (EOC)
Lugano, Switzerland

Prof. Dr. Tobias Derfler
Vice Chair Neurology
Research group leader - Departement Biomedizin
University Hospital Basel, Basel, Switzerland

PD Dr. Marcus D’Souza
Senior Physician Neurology - University Hospital Basel
CEO Neurostatus-UHB AG
Basel, Switzerland

Prof. Dr. Cristina Granziera
Leading Consultant Neurologist - Co-Head of RC2NB
Head Translational Imaging in Neurology (ThInK) Basel
University Hospital Basel, Switzerland

Prof. Stephen Hauser
Director
UCSF Weill Institute for Neurosciences
San Francisco, CA, USA

Dr. Tobias Heimann
Head of Artificial Intelligence Germany, Siemens Healthineers
Erlangen, Deutschland

PD Dr. Lars Hemken
Senior Scientist at RC2NB and Department of Clinical Research
University Hospital Basel
Basel, Switzerland

Prof. Jan Hillert
Senior Physician and Professor
KB Department of Clinical Neuroscience
Stockholm, SE

Prof. J ohn P.A. Ioannidis
Physician-Scientist, Writer and Stanford University Professor
Med/Stanford Prevention Research Center
Stanford, CA, USA

Prof. Ludwig Kappos
Professor of Neurology - Head of RC2NB
Basel, Switzerland

Dr. Amit Khanna
VP, Global Program Head Parkinson’s & Neuroscience Digital programs
Novartis, Basel, Switzerland

Prof. Dr. Dr. Jens Kuhle
Leading Consultant Physician
Head Neuromuscularity Unit and Multiple Sclerosis Centre
University Hospital Basel, Basel, Switzerland

PD Dr. Johannes Lorscheider
Consultant Neurologist at RC2NB Basel - University Hospital Basel,
Basel, Switzerland

Dr. Johanna Oechtering
Consultant Neurologist - University Hospital Basel
Basel, Switzerland

Prof. Dr. Anne-Katrin Pröbstel
Senior Physician, Excellence Professor
Research group leader - Departement Biomedizin
University Hospital Basel, Basel, Switzerland

Prof. Daniel S. Reich
Neurologist and Neuroradiologist
Director of the Translational Neuroradiology Section in NINDS
Bethesda, MD, USA

Prof. Björn Tackenberg
Head Integrative Neuroscience & Medical Practice at Hoffmann La Roche
Professor of Neurology, University of Marburg
Basel, Switzerland

Dr. Tim Woelfle
PhD Candidate and Neurologist in training
RC2NB - University Hospital Basel
Basel, Switzerland

Prof. Tanuja Chitnis
Professor of Neurology - Harvard University
Director of the Mass General Brigham Pediatric MS Center at the Mass General Hospital

Prof. Renaud Du Pasquier
Head of Neurology, CHUV/UNIL Hospital
Lausanne, Switzerland

Prof. Urs Fischer
Professor of Neurology - University Hospital Basel
Chair Neurology
Basel, Switzerland

Prof. Reinhard Hohlfeld
Professor of Neurology - Munich University Hospital (LMU)
Munich, Germany

Prof. Fredrik Piehl
Professor of Neurology - KB Klinisk neurovetenskap
Stockholm, Sweden

Prof. Torsten Schwede
Bioinformatics Scientists and Professor at the Biozentrum of the University of Basel
Vice Rector for Research
Basel, Switzerland

Prof. Maria Pia Sormani
Professor of Biostatistics at the University Genova
Genova, Italy

CHAIRS

Prof. Tanuja Chitnis
Professor of Neurology - Harvard University
Director of the Mass General Brigham Pediatric MS Center at the Mass General Hospital

Prof. Renaud Du Pasquier
Head of Neurology, CHUV/UNIL Hospital
Lausanne, Switzerland

Prof. Urs Fischer
Professor of Neurology - University Hospital Basel
Chair Neurology
Basel, Switzerland

SPONSORS
LOCATION INSTRUCTIONS

Whether arriving by plane, train, car, or tram from your hotel, here are the detailed location instructions to access the Biozentrum:

From Basel Airport to Biozentrum Basel:
By Taxi:
- Taxis are available at the airport (or call +41 61 333 33 33).
- Provide the address: Maurice E. Müller Saal, Spitalstrasse 41, 4056 Basel.

By Public Transportation (20 minutes):
- Take the airport shuttle (#50) to the Kannenfeldplatz in Basel.
  - Walk 11 minutes
- Head northeast toward Kannenfeldpl.
- Turn right onto Kannenfeldpl.
- Slight left to stay on Kannenfeldpl.
- Continue onto Metzerstrasse
- Continue onto Pestalozzistrasse
- Turn right onto Spitalstrasse
- The destination will be on the right.

From SSB Train Station Basel to Biozentrum Basel:
By Taxi:
- Taxis are available at the airport (or call +41 61 333 33 33).
- Provide the address: Maurice E. Müller Saal, Spitalstrasse 41, 4056 Basel.

On Foot (30 minutes):
- Exit the train station and head southeast on Spiegelgasse toward Centralbahnstrasse.
- Turn right onto Centralbahnstrasse.
- Continue straight onto Spitalstrasse.
- Biozentrum Basel will be on your left at Spitalstrasse 41.

By Public Transportation (15 minutes):
- Take tram number 11 toward Basel, St-Louis Grenze.
  - Get off at Johanniterbrücke.
- Biozentrum Basel is a short walk from the tram stop (about 3 minutes).

From Badischer train station to Biozentrum Basel:
By Taxi:
- Taxis are available at the airport (or call +41 61 333 33 33).
- Provide the address: Maurice E. Müller Saal, Spitalstrasse 41, 4056 Basel.

On Foot (33 minutes):
- Start at Basel Badischer Bahnhof, Schwarzwaldallee 200, 4058 Basel, Switzerland.
- Head southeast on Schwarzwaldallee toward Schwarzwaldstrasse.
- Turn left onto Schwarzwaldstrasse.
- Continue straight to stay on Schwarzwaldstrasse.
- Turn right onto Elsässerstrasse.
- Continue straight on Elsässerstrasse.
- Turn left onto Klingentalstrasse.
- Continue straight on Klingentalstrasse.
- Turn right onto Spalenvortadt.
- Continue straight on Spalenvortadt.
- Turn left onto Leonhardsgraben.
- Continue straight on Leonhardsgraben.
- Turn right onto Petersgraben.
- Continue straight on Petersgraben.
- Turn left onto Spitalstrasse.
- Arrive at Biozentrum, University of Basel, Spitalstrasse 41, 4056 Basel, Switzerland.

By Public Transportation (11 minutes):
- Take bus number 30 from Basel Bad Bf toward Kinderspital UKBB
  - Get off at Kinderspital UKBB.
- Biozentrum Basel is a short walk from the tram stop (about 2 minutes).

From Hotel Teufelhof and SET Hotel to Biozentrum Basel:
- Open your phone Google or Apple map
- Add the address: Maurice E. Müller Saal, Spitalstrasse 41, 4056 Basel.