



# **RC2NB 4.0**

## **TRANSFORMING RESEARCH IN MS AND NEUROIMMUNOLOGY**

# **SYMPOSIUM**

DECEMBER 15TH, 2023

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

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# 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**

Time	Title	Speaker
10:10 – 10:40	The patient's digital twin	Tobias Heimann, Head of Artificial Intelligence, Erlangen, Germany

**10:40 – 12:00 SESSION 1: NEUROIMMUNOLOGICAL MECHANISMS IN MS**

**CHAIRS: RENAUD DU PASQUIER (LAUSANNE, CH) AND REINHARD HOHLFELD (MUNICH, DE)**

Time	Title	Speaker
10:40 – 11:00	Innovative concepts in neuroimmunology	Amit Bar-Or, Philadelphia, PA, USA
11:00 – 11:15	The B-cell perspective of MS	Tobias Derfuss, Basel, CH
11:15 – 11:30	A role for IgA-producing cells in MS?	Anne-Katrin Pröbstel, Basel, CH
11:30 – 12:00	The success story of B-cell directed therapy and new therapeutic targets	Stephen Hauser, San Francisco, CA, USA

**12:00 – 13:00 LUNCH BREAK & POSTER SESSION**

**13:00 – 14:30 SESSION 2: FLUID AND IMAGING BIOMARKERS IN MS**

**CHAIRS: TANUJA CHITNIS (BOSTON, US) AND FREDERIK PIEHL (STOCKHOLM, SE)**

Time	Title	Speaker
13:00 – 13:30	What can be said at all can be clearly quantified, and whereof one cannot quantify thereof one must be silent...	Daniel S. Reich, Bethesda, MD, USA
13:30 – 13:50	Body fluid biomarkers in MS – finally on target?	Jens Kuhle, Basel, CH
13:50 – 14:00	The role of complement in MS	Johanna Oechtering, Basel, CH
14:00 – 14:20	Imaging axonal damage and repair in MS: the INSIDER experience	Cristina Granziera, Basel, CH
14:20 – 14:30	Mechanisms of clinical worsening independent of inflammatory activity in MS: an advanced MRI perspective	Alessandro Cagol, Basel, CH

**14:30 – 15:00 COFFEE BREAK & POSTER SESSION**

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## **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).**

Time	Title	Speaker
15:00 – 15:30	Meta-epidemiology of clinical trials	John P.A. Ioannidis, Stanford, CA, USA
15:30 – 15:40	The Swiss Multiple Sclerosis Cohort: a 10-year investment in quality	Giulio Disanto, Lugano, CH Jens Kuhle, Basel, CH
15:40 – 15:50	Neurostatus eEDSS	Marcus D'Souza, Basel, CH
15:50 – 16:10	Digital Biomarkers for pwMS - the dreaMS project	Johannes Lorscheider, Tim Woelfle, Basel, CH
16:10 – 16:30	Pragmatic trials in MS: a novel journey	Lars Hemkens, Basel, CH

## **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).**

Time	Title	Speaker
17:00 – 17:15	The Big MS data network	Jan Hillert, Stockholm, SE
17:15 – 17:30	Big (great) data in immunobiology: is more always better?	Manfred Claassen, Tübingen, DE
17:30 – 17:45	Federated Learning as an alternative to data transfer?	Björn Tackenberg, Basel, CH
17:45 – 18:00	Big (great) data from clinical trials: what can we learn	Amit Khanna, Basel, CH

**18:00 CLOSING REMARKS – RC2NB 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. Giulio Disanto**

Consultant Neurologist - University Hospital Lugano (EOC)  
Lugano, Switzerland

### **Prof. Dr. Tobias Derfuss**

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 Hemkens**

Senior Scientist at RC2NB and Department of Clinical Research  
University Hospital Basel  
Basel, Switzerland

### **Prof. Jan Hillert**

Senior Physician and Professor  
K8 Department of Clinical Neuroscience  
Stockholm, SE

## 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

### **Prof. John 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 Neuroimmunology 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, Eccellenza 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. Reinhard Hohlfield**

Professor of Neurology - Munich University Hospital (LMU)  
Munich, Germany

### **Prof. Fredrik Piehl**

Professor of Neurology - K8 Klinisk neurovetenskap  
Stockholm, Sweden

### **Prof. Torsten Schwede**

Bioinformatics Scientist 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

## 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:

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

By Public Transportation (20 minutes):

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

## From SSB Train Station Basel to Biozentrum Basel:

By Taxi:

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

On Foot (30 minutes):

- o Exit the train station and head southeast on Spiegelgasse toward Centralbahnstrasse.
- o Turn right onto Centralbahnstrasse.
- o Continue straight onto Spitalstrasse.
- o Biozentrum Basel will be on your left at Spitalstrasse 41.

By Public Transportation (15 minutes):

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

## From Badischer train station to Biozentrum Basel:

By Taxi:

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

On Foot (33 minutes):

- o Start at Basel Badischer Bahnhof, Schwarzwaldallee 200, 4058 Basel, Switzerland.
- o Head southeast on Schwarzwaldallee toward Schwarzwaldstrasse.
- o Turn left onto Schwarzwaldstrasse.
- o Continue straight to stay on Schwarzwaldstrasse.
- o Turn right onto Elsässerstrasse.
- o Continue straight on Elsässerstrasse.
- o Turn left onto Klingentalstrasse.
- o Continue straight on Klingentalstrasse.
- o Turn right onto Spalenvorstadt.
- o Continue straight on Spalenvorstadt.
- o Turn left onto Leonhardsgraben.
- o Continue straight on Leonhardsgraben.
- o Turn right onto Petersgraben.
- o Continue straight on Petersgraben.
- o Turn left onto Spitalstrasse.
- o Arrive at Biozentrum, University of Basel, Spitalstrasse 41, 4056 Basel, Switzerland.

By Public Transportation (11 minutes):

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

## From Hotel Teufelhof and SET Hotel to Biozentrum Basel:

- o Open your phone Google or Apple map
- o Add the address: Maurice E. Müller Saal, Spitalstrasse 41, 4056 Basel.