

RC2NB 4.0: Transforming research in MS and Neuroimmunology

*Hosted by: Research Center for Clinical Neuroimmunology and
Neuroscience Basel (RC2NB)*

**15.12.2023 (10:30-18:30 CET)
Basel, Switzerland**

**Biozentrum, Maurice E. Müller Saal,
Spitalstrasse 41, 4056 Basel**

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	Referent
10:10 – 10:40	The patient's digital twin	Tobias Heimann, Head of Artificial Intelligence Germany, Siemens Healthineers

10:40 – 12:00 **Session 1: Neuroimmunological mechanisms in MS**

Chairs: Renaud Du Pasquier (Lausanne, CH) and Reinhard Hohlfeld (Munich, DE)

Time	Title	Referent
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: Massimo Filippi (Milano, IT) and Frederik Piehl (Stockholm, S)

Time	Title	Referent
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**

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	Referent
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	Claudio Gobbi, 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, S)

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

For speakers/chairs and other invited guests:

19:30 **Dinner**

Saturday 16.12.2023: Cultural program (details to follow)