WEDNESDAY 30 JUNE

09:00-09:15 Opening of the 3rd EBCNet Forum
Thierry Defrance & Hans-Martin Jäck

09:20-10:40 Session #1. B cell memory/B cell subsets
Talk participants
Chairs: Michel Cogné & Marc Seifert

09:20-09:40 Most isotype switched memory B cells reside in bone marrow or spleen
Marta Ferreira-Gomes (Deutsches Rheuma-Forschungszentrum (DRFZ), an Institute of the Leibniz Association, Berlin, Germany)

09:40-10:00 Human memory B cell dynamics in blood and spleen change with age
Artur Kibler (Institute of Cell Biology, University of Duisburg-Essen, Essen, Germany)

10:00-10:20 Diversity of memory B cells repertoire cope with SARS-CoV2 variants after mRNA vaccination in naïve and recovered individuals
Matthieu Mahévas (Institut Necker Enfants Malades (INEM), INSERM U1151/CNRS UMS 8253, Université de Paris, Paris, France)

10:20-10:40 Persistence of functional memory B cells recognizing SARS-CoV-2 variants despite loss of specific IgG
Stephan Winklmeier (Institute of Clinical Neuroimmunology, University Hospital, LMU Munich, Munich, Germany)

10:40-10:47 Sponsor - Miltenyi Biotec
SARS-CoV-2 specific B cells and antibodies Analysis by Miltenyi Biotec
Shahul Mouhamad - Miltenyi Biotec

10:47-11:00 Break

11:00-12:20 Session #1 (continued). B cell memory/B cell subsets
Talk participants
Chairs: Pierre Bruhns & Deborah Dunn-Walters

11:00-11:20 VAST: a novel and versatile vaccination platform that induces robust and durable antibody responses
Paraskevi Vlachou (D150, German Cancer Research Center (DKFZ), Heidelberg, Germany)

11:20-11:40 Single-Cell Transcriptomic Analyses Define Distinct Peripheral B Cell Subsets and Discrete Development Pathways
Alexander Stewart (School of Biosciences and Medicine, University of Surrey, Guildford, UK)

11:40-12:00 T-bet+ B cells infiltrating the human brain: from peripheral induction to local effector function
Marvin M. van Luijn (Department of Immunology, MS Center ErasMS, Erasmus MC, Rotterdam, The Netherlands)

12:00-12:20 Phenotypic and functional division of human Bregs in CD45\textsuperscript{lo} and CD45\textsuperscript{hi} B cells and their dependence on Btk and mTOR
Vassilios Lougaris (Pediatrics Clinic and Institute of Molecular Medicine A. Nocivelli, Department of Clinical and Experimental Sciences, University of Brescia and ASST - Spedali Civili of Brescia, Brescia, Italy)
Program Wednesday 30 June

12:20-12:27 Sponsor - Stemcell

• Tools for B cell Research
  Graeme Milton - Senior European Market Development Manager, Immunology

12:27-14:00 Lunch

14:00-15:40 Session #2. B cell development/B cell neoplasia

Talk participants

Chairs: Marta Rizzi & Thierry Defrance

14:00-14:20
• Transcription factor networks coordinate transcriptional priming and cellular expansion in early B-cell development
  Mikael Sigvardsson (Division of Molecular Hematology, Lund University, Lund, Sweden)

14:20-14:40
• IL-7R signalling activates widespread V and D gene usage to drive antibody diversity in bone marrow B cells
  Anne Corcoran (Lymphocyte Signalling and Development Programme, Babraham Institute, Cambridge, UK)

14:40-15:00
• Tracking neonatal B cell function in the adult gut
  Joan Yuan (Division for Molecular Hematology, Lund Stem Cell Center, Department of Laboratory Medicine, Faculty of Medicine, Lund University, Lund, Sweden)

15:00-15:20
• Siglec-G controls the severity of Chronic Lymphocytic B-cell Leukemia
  Lars Nitschke (Division of Genetics, Department of Biology, University of Erlangen, Erlangen, Germany)

15:20-15:40
• Continuous MYD88 activation is associated with expansion and then transformation of IgM differentiating plasma cells
  Christelle Vincent-Fabert (UMR CNRS 7276/INSERM U1262 CRIBL. University of Limoges, and hematology Laboratory of Dupuytren Hospital University Center (CHU) of Limoges, France)

15:40-15:47 Sponsor - Cytek Biosciences

• How spectral flow could be the solution for your lab
  Juliette Desfrançois - Cytek Biosciences

15:47-16:00 Break

16:00-16:45 Keynote lecture

• Memory B cells differentiation
  Dr Charlotte Viant (Laboratory of Molecular Immunology, The Rockefeller University, New York, USA)

16:45-17:15 EBCnet General assembly
09:00-10:20  Session #3. Plasma cells

**Talk participants**

*Chairs: Claude-Agnès Reynaud & Hans-Martin Jäck*

09:00-09:20  Dissecting antibody-secreting cells differentiation at single cell level
Niels J.M. Verstegen (Department of Immunopathology, Sanquin Research and Landsteiner Laboratory, Amsterdam UMC, University of Amsterdam, Amsterdam, The Netherlands)

09:20-09:40  The Sec22b SNARE is indispensable for plasma cell maintenance and antibody secretion
Marion Espéli (Université de Paris, Institut de Recherche Saint Louis, EMILy, Inserm U1160, Paris, France)

09:40-10:00  Single-cell analyses of autoreactive plasma cells from immune thrombocytopenia patients
Pierre Bruhns (Unit of Antibodies in Therapy and Pathology, Institut Pasteur, UMR 1222 INSERM, Paris, France)

10:00-10:20  TFG controls ER stress, autophagy and plasma cell function
Dirk Mielenz (Division of Molecular Immunology, Department of Internal Medicine 3, Nikolaus-Fiebiger-Zentrum, Friedrich-Alexander-Universität (FAU) Erlangen-Nürnberg, Erlangen, Germany)

10:20-10:27  Sponsor - Immudex

• dCODE® Klickmer - Exploring B-cell immunity at the single-cell level
Valérie Bodemeyer - Immudex

10:27-10:40  Break

10:40-12:20  Session #3 (continued). Plasma cells

**Talk participants**

*Chairs: René E.M. Toes & Idit Shachar*

10:40-11:00  Metabolic flux analysis of individual antibody-secreting cells – the impact of space, time, and immunization
Klaus Eyer (Laboratory for Functional Immune Repertoire Analysis, Institute for Pharmaceutical Sciences, D- CHAB, ETH Zürich, Switzerland)

11:00-11:20  Complementary but distinct protective roles of tumor-infiltrating IgG and IgA producing cells
Yasmine Lounici (Centre de Recherche en Cancérologie de Lyon, Inserm U1052, CNRS 5286, Lyon, France)

11:20-11:40  The BCR acts as a switch between the canonical and non-canonical functions of plasma cells
Thierry Defrance (Centre International de Recherche en Infectiologie/CIRI, INSERM U1111, Lyon, France)

11:40-12:00  The RNA m6A binding protein YTHDF2 promotes the B cell to plasma cell transition
Martin Turner (Immunology Programme, The Babraham Institute, Cambridge, CB223AT, UK)

12:00-12:20  IgA production decrease is associated with B cell differentiation and proliferation defects in multiple sclerosis
Jeremy Morille (Centre de Recherche en Transplantation et Immunologie, INSERM UMR1064, Nantes University, CHU de Nantes, Nantes, France)

12:20-12:27  Sponsor - Miltenyi Biotec

• SARS-CoV-2 specific B cells and antibodies Analysis by Miltenyi Biotec
Shahul Mouhamad - Miltenyi Biotec

12:27-14:00  Lunch
**Session #4. B cells in disease**

**Talk participants**

*Chairs: Marion Espéli & Kai-Michael Toellner*

14:00-14:20
- **MHCII haplotype determines IgG autoantibody Fc N-glycosylation and development of murine autoimmune skin disease**
  Rudolf Armin Manz *(Institute for Systemic Inflammation Research, University of Lübeck, Lübeck, Germany)*

14:20-14:40
- **N-linked glycosylation of the immunoglobulin variable domain affects antigen binding and autoreactive B-cell activation**
  Theresa Kissel *(Department of Rheumatology, Leiden University Medical Center, Leiden, The Netherlands)*

14:40-15:00
- **Autoantibodies deconvolution in Membranous Nephropathy**
  Sara Montagner *(Novartis Institutes for BioMedical Research, Basel, Switzerland)*

15:00-15:20
- **B cell defect in Prkcd G510S/G510S mice with autoimmunity and lymphoproliferation**
  Marion Moreews *(CIRI, Centre International de Recherche en Infectiologie, Univ. Lyon, Inserm, U1111, Université Claude Bernard, Lyon 1, CNRS, UMR5308, ENS de Lyon, Lyon, France)*

15:20-15:27
- **Tools for B cell Research**
  Graeme Milton - Senior European Market Development Manager, Immunology

**Break**

15:40-17:20
**Session #4 (continued). B cells in disease**

**Talk participants**

*Chairs: Yolanda R. Carrasco & Jean-Claude Weill*

15:40-16:00
- **Transcriptional dysregulation of CVID patients harboring the C104R TNFRSF13B mutation**
  Neftali Jose Ramirez *(Centre for Chronic Immunodeficiency (CCI), University Medical Centre Freiburg, University of Freiburg, Freiburg, Germany)*

16:00-16:20
- **Inverted direct allorecognition triggers early donor specific antibody response after transplantation**
  Xavier Charmetant *(CIRI, Centre International de Recherche en Infectiologie, Université de Lyon, INSERM U1111, Université Claude Bernard Lyon 1, CNRS, UMR5308, ENS de Lyon, Lyon, France)*

16:20-16:40
- **Post-transcriptional control of neuroinflammation by HuR**
  Dunja Capitan-Sobrino *(Toulouse Institute for Infectious and Inflammatory Diseases, INSERM (U1291), Toulouse, France)*

16:40-17:00
- **Decreased Levels of T Follicular Helper (CD4+CXCR5+) Cells and CD27+CD38+ and CD27+CD38- B Cells in Ankylosing Spondylitis Patients Correlate with Marker of Inflammation**
  Kristina Lejon *(Department of Clinical Microbiology, Umeå University, Umeå, Sweden)*

17:00-17:20
- **Follicular helper-like T cells in the lung highlight a novel role of B cells in sarcoidosis**
  Laura Bauer *(Institute of Immunology, University Hospital Schleswig-Holstein, Kiel, Germany)*

17:20-17:27
- **How spectral flow could be the solution for your lab**
  Juliette Desfrançois - Cytek Biosciences
FRIDAY 2 JULY

09:00-10:20 Session #5. Ag recognition/BCR signaling

Talk participants

Chairs: Rudolf Manz & Marieke Van Ham

09:00-09:20 • BCR functions from within the endoplasmic reticulum
Marieta Caganova (Max-Delbrück-Center for Molecular Medicine in the Helmholtz Association (MDC), Berlin, Germany)

09:20-09:40 • CD20 as a gatekeeper of the resting state of human B cells
Kathrin Kläsener (Biology III, faculty of biology, University Freiburg, Freiburg, Germany)

09:40-10:00 • Tetraspanins: molecular organisers of the B-cell surface
Annemiek van Spriel (Dept. of Tumor Immunology, Radboud Institute for Molecular Life Sciences, Radboud university medical center, Nijmegen, The Netherlands)

10:00-10:20 • Novel players in B cell antigen uptake and trafficking
Dessi Malinova (Wellcome-Wolfson Institute for Experimental Medicine, Queen’s University Belfast, Belfast, Ireland)

10:20-10:27 Sponsor - Immudex

• dCODE® Klickmer - Exploring B-cell immunity at the single-cell level
Valérie Bodemeyer - Immudex

10:27-10:40 Break

10:40-12:20 Session #6. Genetics of immunoglobulins

Talk participants

Chairs: Ulf Klein & Lars Nitschke

10:40-11:00 • Immunoglobulin enhancers increase RNA polymerase 2 (Pol2) stalling at somatic hypermutation (SHM) target sequences
Jukka Alinikula (Unit of Infections and Immunity, Institute of Biomedicine, University of Turku, Finland)

11:00-11:20 • Study of IgH Locus Suicide Recombination ‘LSR’ in human normal and pathological conditions
Israa Al Jamal (CBRS CRIBL UMR7276 CNRS INSERM1262, Limoges University, Limoges, France)

11:20-11:40 • IgTreeZ: A toolkit for immunoglobulin gene lineage tree analysis
Ramit Mehr (The Mina and Everard Goodman Faculty of Life Sciences, Bar Ilan University, Ramat Gan, Israel)

11:40-12:00 • A dual effect upon deletion of Special A-T Rich Binding Protein 1 in B cells
Morgane Thomas (Contrôle de la réponse immune B et des Lymphoproliférations, CNRS UMR 7276 Inserm 1062, Limoges, France)

12:00-12:20 • Inactivation of EXO1 nuclease activity on genome maintenance and tumor suppression in Exo1<sup>10073A</sup> mice in vivo
Richard Chahwan (Institute of Experimental Immunology, University of Zurich, Zurich, Switzerland)

Farewell/Closure of the 3rd EBCnet Forum