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<td>9.00-11.00 Guest Lectures</td>
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**13th ENII EFIS EJI Summer School on Advanced Immunology**

May 5-12, 2018, Porto Cervo, Sardinia
Saturday, May 5 – Arrival

Sunday, May 6

Lecture (09:00-10:00): **Wolfgang Kastenmüller** “Concepts of T cell biology from a spatiotemporal perspective”
Lecture (10:00-11:00): **Bernard Malissen** “Systems immunology of T cell-DC encounters”
Coffee Break (11:00-11:20)
Lecture (11:30-12:30): **Doreen Cantrell** “Environmental control of T lymphocytes”
Lunch (13:00-14:00)
Participant short presentations (16:00-17:30)
Coffee Break (17:30-17:50)
Tutorial Sessions (18:00-19:00)
Dinner (19:45-21:00)
Poster Session “A” (21:00-22:30)

Monday, May 7

Lecture (09:00-10:00): **James Di Santo** “Generating diverse human innate lymphoid cells ‘on demand’”
Lecture (10:00-11:00): **Steffen Jung** “Macrophages and organ homeostasis”
Coffee Break (11:00-11:20)
Lecture (11:30-12:30): **Jannie Borst** “Enticing T cells to attack cancer: the importance of CD4+ T-cell help”
Lunch (13:00-14:00)
Participant short presentations (16:00-17:30)
Coffee Break (17:30-17:50)
Tutorial Sessions (18:00-19:00)
Dinner (19:45-21:00)
Poster Session “B” (21:00-22:30)

Tuesday, May 8

Lecture (09:00-10:00): **Lucy Walker** “Keeping CD4 T cells in check”
Lecture (10:00-11:00): **Rick Maizels** “Parasites - friends or foes of a healthy immune system”
Coffee Break (11:00-11:20)
Lecture (11:30-12:30): **Annette Oxenius** “Adaptive immunity and viral infections”
Lunch (13:00-14:00)
Participant short presentations (16:00-17:30)
Coffee Break (17:30-17:50)
Tutorial Sessions (18:00-19:00)
Dinner (19:45-21:00)
Poster Session “C” (21:00-22:30)
**Wednesday, May 9**

Lecture (09:00-10:00): Henrique Veiga-Fernandes "Innate immunity and the second brain"
Lecture (10:00-11:00): Andreas Radbruch “The maintenance of immunological memory”
Coffee Break (11:00-11:20)
Lecture (11:30-12:30): Katja Simon “Autophagy in immunity”
Lunch (13:00-14:00)
Participant short presentations (16:00-17:30)
Coffee Break (17:30-17:50)
Tutorial Sessions (18:00-19:00)
Dinner (19:45-21:00)
Poster Session “D” (21:00-22:30)

**Thursday, May 10**

Lecture (08:30-09:30): Andrew J. Macpherson “Sovereignty and borders between mammals, their immune system and the microbiota”
Lecture (09:30-10:30): Massimiliano Pagani “Single cell omics in tumor immunology”
Coffee Break (10:30-10:50)
Publishing Talk (11:00-12:00): Lucy Robinson and Jessica Tamanini, Insight Editing London
“Publish or perish: effective science writing from the independent editor’s perspective”
Tutorial Sessions (12:00-13:00)
Lunch (13:00-14:00)
Participant short presentations (16:00-17:00)
Coffee Break (17:00-17:20)
“Terrific titles & amazing abstracts”
Dinner (19:45-21:00)
Poster Session “E” (21:00-22:30)

**Friday, May 11**

Networking event (09:30-17:00)
**Private Full Day Boat Excursion** to the “La Maddalena Archipelago National Park”, with its pristine islands Spargi, Budelli and Santa Maria.
 Stops planned at two beaches and the town of La Maddalena for sightseeing.
Light lunch on board.

Farewell Aperitivo and Awards (19:00)
Sardinian Dinner (20:00-22:00)
Social Evening with DJ

**Saturday, May 12 - Departure**
Sunday, May 6th, 2018

Morning Session

8.50 WELCOME & COURSE OVERVIEW

Guest Speaker Lectures:

9.00 Wolfgang Kastenmüller
   Concepts of T cell biology from a spatiotemporal perspective

10.00 Bernard Malissen
    Systems immunology of T cell-DC encounters

11.00-11.20 COFFEE BREAK

11.30 Doreen Cantrell
    Environmental control of T lymphocytes

Afternoon Session

16.00 Participant Presentations

Barnowski Cornelia, Molecular Virology, Düsseldorf, Germany
THE ROLE OF STING FOR THE INDUCTION OF POXVIRAL CYTOTOXIC T CELLS (Abstract 1)

Bassan David, Weizmann Institute of Science, Rehovot, Israel,
TCR AVIDITY MATURATION BY SOMATIC HYPERMUTATION (Abstract 2)

Bornemann Lea, Institute for Experimental Immunology and Imaging, Essen, Germany
EOSINOPHIL MIGRATION AS A PROGNOSTIC MARKER FOR CHECKPOINT BLOCKER (CB) THERAPY IN METASTATIC MELANOMA PATIENTS (Abstract 4)

Breedveld Annelot, VUmc, Amsterdam, Netherlands
UNDERSTANDING THE INTERACTION BETWEEN VAGINAL MICROBIOTA AND IMMUNITY; THE ROLE OF IMMUNOGLOBULIN A (Abstract 6)

Cardoso Ana Filipa, Champalimaud Centre for the Unknown, Lisboa, Portugal
ROLE OF NEUROREGULATORS IN ADIPOSE TISSUE ILC2S (Abstract 10)

Chuwonpad Ammarina, Sanquin Research and Landsteiner laboratory, Utrecht, Netherlands
TISSUE-RESIDENT MEMORY T-LYMPHOCYTES DISPLAY PROLIFERATIVE CAPACITY IN VITRO UNDER HYPOXIC CONDITIONS (Abstract 16)

Cordeiro Minute Luna, CIMA, Pamplona, Spain
ENHANCEMENT OF ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY OF CETUXIMAB BY A CHIMERIC PROTEIN ENCOMPASSING INTERLEUKIN-15 (Abstract 17)

17.30-17.50 COFFEE BREAK

18.00 Tutorial Sessions

Evening Session

21.00 POSTER SESSION A
Monday, May 7th, 2018

Guest Speaker Lectures:

9.00 James Di Santo
Generating diverse human innate lymphoid cells 'on demand'

10.00 Steffen Jung
Macrophages and organ homeostasis

11.00-11.20 COFFEE BREAK

11.30 Jannie Borst
Enticing T cells to attack cancer: the importance of CD4+ T-cell help

Afternoon Session

16.00 Participant Presentations

de Waard Antonius, Sanquin Research, Amsterdam, Netherlands
GLYCOLIPIDS DETERMINE IMMUNOGENICITY BY MODULATING THE ACCESSIBILITY OF IMMUNE MODULATING SURFACE PROTEINS (Abstract 22)

Erkelens Martje, VU University Medical Center, Amsterdam, Netherlands
OTHER ALDH ENZYMES CAN COMPENSATE FOR THE LOSS OF RALDH1 IN MAINTAINING INTESTINAL IMMUNE HOMEOSTASIS (Abstract 27)

Gomez Vazquez Maria Jose, Kennedy Institute of Rheumatology, Oxford, United Kingdom
INVESTIGATING THE ROLE OF IRF5 IN MACROPHAGE DIFFERENTIATION AND BEHAVIOUR DURING INTESTINAL INFLAMMATION USING SCRNA-SEQUENCING (Abstract 31)

Heuts Jeroen, Leiden University Medical Center, Leiden, Netherlands
DEVELOPMENT OF A UNIVERSAL DELIVERY SYSTEM FOR PERSONALIZED CANCER VACCINES (Abstract 34)

Hortová Kohoutková Marcela, FNUSA-ICRC, Brno, Czech Republic
MONOCYTE SIGNALING CASCADES INVOLVED IN PROGRESSION OF SEPSIS (Abstract 36)

Luttenberger Carina, Molecular Medicine, Frankfurt, Germany
THE ROLE OF BCL-3 IN B-CELL METABOLISM (Abstract 44)

17.30-17.50 COFFEE BREAK

18.00 Tutorial Sessions

Evening Session

21.00 POSTER SESSION B
Tuesday, May 8th, 2018

Morning Session

Guest Speaker Lectures:

9.00  Lucy Walker
      Keeping CD4 T cells in check

10.00 Rick Maizels
      Parasites - friends or foes of a healthy immune system

11.00-11.20 COFFEE BREAK

11.30 Annette Oxenius
      Adaptive immunity and viral infections

Afternoon Session

16.00 Participant Presentations

Markose Dyana, Queens Medical Research Institute, Edinburgh, United Kingdom
DIFFERENCES IN MACROPHAGE DYNAMICS FOLLOWING ACUTE LIVER INJURY (Abstract 46)

Martin Rebecca, University of Cambridge, Cambridge, United Kingdom
MHC CLASS I ALLELE DISTRIBUTION, DIVERSITY AND FUNCTION IN GLOBAL CHICKEN POPULATIONS
(Abstract 49)

Melchior Felix, Institute for Immunology, University Mainz, Mainz, Germany
FUNCTIONAL ANALYSIS OF DERMAL DC SUBPOPULATIONS (Abstract 51)

Merz Simon, Institute for Experimental Immunology and Imaging, Essen, Germany
SENTINEL LYMPH NODE STATUS DETERMINATION AND IMMUNE CELL INTERACTION IN MELANOMA USING
LIGHT SHEET MICROSCOPY (Abstract 52)

Moorlag Simone, Radboud University Medical Center, Nijmegen, Netherlands
THE FUNCTIONAL GENOMIC ARCHITECTURE OF TRAINED IMMUNITY AND INNATE IMMUNE TOLERANCE
(Abstract 54)

Ng Kevin, Francis Crick Institute, London, United Kingdom
GENETIC MECHANISMS OF RETROELEMENT-MEDIATED IMMUNE MODULATION (Abstract 56)

17.30-17.50 COFFEE BREAK

18.00 Tutorial Sessions

Evening Session

21.00 POSTER SESSION C
Wednesday, May 9th, 2018

Morning Session

Guest Speaker Lectures:

9.00  Henrique Veiga-Fernandes
      Innate lymphoid cells and the second brain

10.00 Andreas Radbruch
      The maintenance of immunological memory

11.00-11.20  COFFEE BREAK

11.30  Katja Simon
      Autophagy in immunity

Afternoon Session

16.00  Participant Presentations

Pærregaard Simone, Institute of Micro- and Nanotechnology, Kongens Lyngby, Denmark
CHARACTERIZATION OF MURINE INTESTINAL MESENCHYMAL STROMAL CELLS (Abstract 58)

Pane Antonino Alejandro, German Cancer Research Center, Heidelberg, Germany
COMPREHENSIVE SCREENING FOR MIRNAS THAT AFFECT SPECIFIC CD8+ T CELL MEDIATED KILLING OF MELANOMA CELLS (Abstract 59)

Papotto Rosa Pedro Henrique, Instituto de Medicina Molecular João Lobo Antunes, Lisboa, Portugal
γδ T CELLS SHAPE PULMONARY IMMUNE CELL COMPARTMENTS AT HOMEOSTASIS (Abstract 60)

Parga Vidal Loreto, Sanquin Research, Amsterdam, Netherlands
HOBIT EXPRESSION IDENTIFIES PRECURSORS OF RESIDENT MEMORY T CELLS WITHIN THE PERIPHERAL TISSUES (Abstract 61)

Postat Jérémy, Institut Pasteur, Paris, France
A METABOLISM-BASED QUORUM SENSING MECHANISM TO TERMINATE INFLAMMATORY RESPONSES (Abstract 63)

Tadayon Sina, Turku University, Turku, Finland
CLEVER-1 CONTROLS SITE-SPECIFIC HOMING OF LYMPHOCYTES TO THE SPLEEN (Abstract 68)

17.30-17.50  COFFEE BREAK

18.00  Tutorial Sessions

Evening Session

21.00  POSTER SESSION D
Thursday, May 10th, 2018

Morning Session

Guest Speaker Lectures:

8.30  Andrew J. Macpherson  
Sovereignty and borders between mammals, their immune system and the microbiota

9.30  Massimiliano Pagani  
Single cell omics in tumor immunology

10.30-10.50  COFFEE BREAK

11.00  Lucy Robinson and Jessica Tamanini, Insight Editing London  
Publish or perish: effective science writing from the independent editor’s perspective

12.00-13.00  Tutorial Sessions

Afternoon Session

16.00  Participant Presentations

Vahlas Zoï, IGMM, Montpellier, France  
MODULATING HIV-1 INFECTION OF CD4 T LYMPHOCYTES VIA ALTERATIONS IN GLUCOSE AND GLUTAMINE TRANSPORTERS (Abstract 74)

Vielle Nathalie Jane, Institute of Virology and Immunology, Bern, Switzerland  
ASPECTS OF CELLULAR TROPISM AND INNATE IMMUNE RESPONSES DURING ZIKA VIRUS INFECTION (Abstract 80)

Xiao Ling, Utrecht University, Utrecht, Netherlands  
HUMAN MILK OLIGOSACCHARIDES INDUCE HUMAN TOLEROGENIC DCS AND SUPPRESS LPS-INDUCED ACTIVATION VIA DC-SIGN AND TLR4 (Abstract 85)

Zandstra Judith, Sanquin Blood Supply, AMC, Utrecht, Netherlands  
IDENTIFICATION OF NEW BIOMARKERS TO DISTINGUISH BETWEEN A BACTERIAL OR VIRAL INFECTION IN CHILDREN (Abstract 86)

Zlateva Iva, The Francis Crick Institute and King’s College London, London, United Kingdom  
INVESTIGATING THE MECHANISM OF γδ T CELL SELECTION BY BUTYROPHILIN-LIKE PROTEINS (Abstract 87)

17.00-17.20  COFFEE BREAK

17.20-19.20  Writing Workshop by Insight Editing London, Lucy Robinson and Jessica Tamanini  
Terrific titles & amazing abstracts (advance registration required)

Evening Session

21.00  POSTER SESSION E
**Friday, May 11th, 2018**

Networking event (09:30-17:00, departure/return times to be confirmed on-site)  
**Full Day Boat Excursion** to La Maddalena Archipelago National Park, with its pristine islands Spargi, Budelli and Santa Maria. Stops planned at two beaches and the town of La Maddalena for sightseeing. Light lunch on board.

**Archipelago of La Maddalena - Where the Sky Merges with the Sea (Itinerary 1)**

The boat will take you for a 5-6 hour trip to explore the sea and islands in the La Maddalena Archipelago. **Arcipelago di La Maddalena National Park** is a geomarine national park on the coast of Sardinia which was established in 1994. In 2006 it was placed on the Tentative list for consideration as a World Heritage Site by UNESCO.

During the trip, you will pass close by the islands of Caprera and Santo Stefano to get to the island of La Maddalena where a stop is made with time for shopping in the typical local craft shops. In the historical centre of the island you can visit the Palazzo Comunale, the Naval Museum and the Diocesan Museum of Sacred Art.

The voyage continues towards the most beautiful islands of the Maddalena archipelago. A stopover is made on the islands of Spargi and Santa Maria for swimming in the beautiful crystal-clear waters. Then a panoramic tour of the Manto della Madonna follows, where the sea colour is unique in the world.

The voyage then passes close by the Budelli Island, famous for its pink beach where landing has been prohibited in the past few years since it became a protected area.

At lunchtime pasta will be served on board. During the stop on Spargi island, in Cala Corsara, the most enchanting bay of the island, you can view natural rocks sculptures: caused by wind and water erosion, the rocks have taken on particular forms: the head of a witch, a dog, boots, etc. On the way back you will pass by Punta Sardinia, Porto Raphael, Palau and Capo d’Orso where you can admire the famous Bear rock.

19:00  *Farewell Aperitivo and Awards*

20:00  *Sardinian Dinner*

*Social Evening with DJ*