

# 13th ENII EFIS EJI Summer School on Advanced Immunology

May 5-12, 2018, Porto Cervo, Sardinia

Saturday 5	Sunday 6	Monday 7	Tuesday 8	Wednesday 9	Thursday 10	Friday 11	Saturday 12
<b>Arrival and Check-in at Hotel Le Ginestre</b>  rooms available after 15.00	7.15-8.45 Breakfast	7.15-8.45 Breakfast	7.15-8.45 Breakfast	7.15-8.45 Breakfast	7.15-8.15 Breakfast	7.30-9.30 Breakfast	7.00-10.30 Breakfast
	8.50 Welcome	9.00-11.00 Guest Lectures	9.00-11.00 Guest Lectures	9.00-11.00 Guest Lectures	8.30-10:30 Guest Lectures	09.30 (TBC) departure	Check Out by 11:00
	9.00-11.00 Guest Lectures						
	11.00 -11.20 break	11.00 -11.20 break	11.00 -11.20 break	11.00 -11.20 break	10.30 -10.50 break		
	11.30-12.30 Guest Lecture	11.30-12.30 Guest Lecture	11.30-12.30 Guest Lecture	11.30-12.30 Guest Lecture	11.00-12.00 Publishing Talk		
12.00-13.00 Tutorial Sessions							
13.00 Lunch	13.00 Lunch	13.00 Lunch	13.00 Lunch	13.00 Lunch	13.00 Lunch	CULTURAL EXCURSION   17:00 (TBC) return	12.45 Lunch
18.30-20.00 Registration	free time	free time	free time	free time	free time		
	16.00-17.30 Participant Presentations	16.00-17.30 Participant Presentations	16.00-17.30 Participant Presentations	16.00-17.30 Participant Presentations	16.00-17.00 Participant Presentations		
	17.30 -17.50 break	17.30 -17.50 break	17.30 -17.50 break	17.30 -17.50 break	17.00 -17.20 break		
	18.00-19.00 Tutorial Sessions	18.00-19.00 Tutorial Sessions	18.00-19.00 Tutorial Sessions	18.00-19.00 Tutorial Sessions	17.20-19.20 Writing Workshop		
19.00-19.45 Farewell Aperitivo & Awards	20.00 Dinner	20.00 Dinner	20.00 Dinner	20.00 Dinner	20.00 Dinner	Social Evening	
21.00-23.00 Registration	21.00 Poster Session A	21.00 Poster Session B	21.00 Poster Session C	21.00 Poster Session D	21.00 Poster Session E		

## 13<sup>th</sup> ENII EFIS EJI Summer School on Advanced Immunology

May 5 -12, 2018

Porto Cervo, Costa Smeralda, 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)

Writing Workshop (17:20-19:20): **Lucy Robinson and Jessica Tamanini, Insight Editing London**

"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 6<sup>th</sup>, 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 7<sup>th</sup>, 2018**

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**Morning Session**

**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

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**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**

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**Evening Session**

**21.00 POSTER SESSION B**

**Tuesday, May 8<sup>th</sup>, 2018**

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**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

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**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**

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**Evening Session**

**21.00**           **POSTER SESSION C**

**Wednesday, May 9<sup>th</sup>, 2018**

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**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

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**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**  
 $\gamma\delta$  T CELLS SHAPE PULMONARY INNATE 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**

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**Evening Session**

**21.00**           **POSTER SESSION D**

**Thursday, May 10<sup>th</sup>, 2018**

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**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**

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**Afternoon Session**

**16.00 Participant Presentations**

**Vahlas Zoi, 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 TOLEROGENTIC 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)

**Zlatareva Iva, The Francis Crick Institute and King's College London, London, United Kingdom**

INVESTIGATING THE MECHANISM OF  $\gamma\delta$  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)

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**Evening Session**

**21.00 POSTER SESSION E**



**Friday, May 11<sup>th</sup>, 2018**

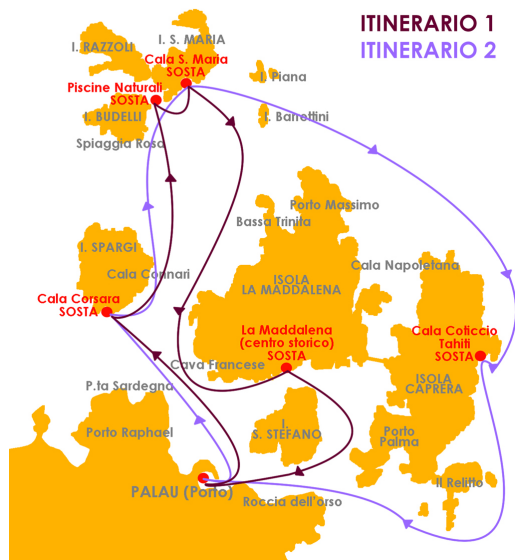
Networking event (09:30-17:00, departure/return times to be confirmed on-site)

**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.

**Archipelago 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**