



Schedule

Brief Program

Detailed Program

15th ENII EFIS EJI Summer School on Advanced Immunology

May 06-13, 2022, Alghero, Sardinia

Friday 06	Saturday 07	Sunday 08	Monday 09	Tuesday 10	Wednesday 11	Thursday 12	Friday 14
	7.00-8.45 Breakfast	7.00-8.45 Breakfast	7.00-8.45 Breakfast	7.00-8.45 Breakfast	7.00-8.45 Breakfast	7.00-8.45 Breakfast	7.00-10.00 Breakfast
	8.50 Welcome	9.00-11.00 Guest Lectures	9.00-11.00 Guest Lectures	9.00-11.00 Guest Lectures	9.00-11.00 Guest Lectures	08:30 Depart hotel 09:00 Boat Depart <i>Boat to Neptune's Grotto (optional)</i> 11:30 Boat Return 11:30 Boat Return	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	11.00 -11.20 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	11.30-12.30 Guest Lecture		
13.00 Lunch	13.00 Lunch	13.00 Lunch	13.00 Lunch	13.00 Lunch	13.00 Lunch	12:00 Lunch	12.45 Lunch
Arrival and Check-in from 15:00	free time	free time	free time	free time	free time	13:00 Bus departs from Hotel <i>Excursion by Bus La Pelosa Beach (optional)</i> 17:30 Bus departs beach 18:30 Return to Hotel	
	16.00-17.30 Participant Presentations	16.00-17.30 Participant Presentations	16.00-17.30 Participant Presentations	16.00-17.30 Participant Presentations	16.00-17.30 Participant Presentations		
	17.30 -17.50 break	17.30 -17.50 break	17.30 -17.50 break	17.30 -17.50 break	17.30 -17.50 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	18.00-19.00 Tutorial Sessions		
19:30-22:00 Dinner	19.45 Dinner	19.45 Dinner	19.45 Dinner	19.45 Dinner	19.45 Dinner	20.00 Dinner	
	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	Free Evening	

15th ENII EFIS EJI Summer School on Advanced Immunology

May 6 -13, 2022

Alghero, Sardinia

v. 06/05/22 v2

Friday, May 6 - Arrival

Saturday, May 7

Welcome Remarks(08:50)

Lecture (09:00-10:00): **René van Lier** An Inside Job: a between protection and immunopathology at our epithelial borders

Lecture (10:00-11:00): **Veni Papayannopoulos** Neutrophil: the good, the bad, the furious

Coffee Break (11:00-11:20)

Lecture (11:30-12:30): **Rick Maizels** Mimicry and Manipulation of the Immune System by Parasites

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)

Sunday, May 8

Lecture (09:00-10:00): **Lucie Peduto** Stromal regulation of tissue homeostasis and inflammation

Lecture (10:00-11:00): **Laura Surace** Metabolic regulation of lymphocytes in homeostasis and disease

Coffee Break (11:00-11:20)

Lecture (11:30-12:30): **Ben Rengstl** From bench to bedside: In vivo expansion of CAR-Ts with mRNA vaccines.

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)

Monday, May 9

Lecture (09:00-10:00): **James Di Santo** Innate lymphoid cells: development, differentiation and dynamics

Lecture (10:00-11:00): **Andrew Macpherson** Mucosal Immunity

Coffee Break (11:00-11:20)

Lecture (11:30-12:30): **Veit Hornung** Novel insights into pattern recognition by the innate immune system

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)

Tuesday, May 10

Lecture (09:00-10:00): **Philippe Bousso** Decoding immune responses to cancer and infection using intravital imaging

Lecture (10:00-11:00): **Jannie Borst** Cytotoxic T cell programming at the dendritic cell interface

Coffee Break (11:00-11:20)

Lecture (11:30-12:30): **Andreas Moor** Spatial biology in the intestinal epithelium

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)

Wednesday, May 11

Lecture (09:00-10:00): **Andreas Bergthaler** Systemic immunometabolism in viral infection

Lecture (10:00-11:00): **Bruno Silva Santos** Gamma-Delta T-cells: effector subsets and (patho) physiological functions

Coffee Break (11:00-11:20)

Lecture (11:30-12:30): **Bernard Malissen** Unveiling the molecular basis of T cell malfunctions and disorders using multi-omics approaches.

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 E (21:00-22:30)

Thursday, May 12

Cultural Excursions (optional) (Sign-up and times to be confirmed on-site)

Morning:

09:00-11:30

Boat Excursion from Alghero Marina to visit the [Neptune's Cave](#) under the Capo Caccia promontory.

12:00-13:00 Lunch in the Hotel

Afternoon:

13:00-18:30

Excursion by bus to the inimitable [La Pelosa beach](#) in the Stintino area, north-west point of Sardinia.

Farewell Dinner: 20:00

Friday, May 13 – Departure

Saturday, May 7th, 2022

Morning Session

8.50 **WELCOME & COURSE OVERVIEW**

Guest Speaker Lectures:

9.00 **René van Lier**
An Inside Job: a between protection and immunopathology at our epithelial borders

10.00 **Veni Papayannopoulos**
Neutrophil: the good, the bad, the furious

11.00-11.20 **COFFEE BREAK**

11.30 **Rick Maizels**
Mimicry and Manipulation of the Immune System by Parasites

Afternoon Session

16.00 **Participant Presentations**

Amaral-Silva Daniela, CEDOC, Lisbon, Portugal

TLR4+ TFH-LIKE CELLS DISPLAY A CYTOTOXIC PROFILE IN THE JOINTS OF RHEUMATOID ARTHRITIS PATIENTS (Abstract 1)

Baars Iris, Institute for Molecular and Clinical Immunology, Magdeburg, Germany

KILLING IN THE NAME OF LEISHMANIA MAJOR: LEISHMANIA MAJOR AND DEATH OF THE ORIGINAL HOST CELL (Abstract 5)

Boelaars Kelly, Amsterdam UMC, Amsterdam, The Netherlands

TUMOR DERIVED SIALIC ACID HAMPERS T CELL INFILTRATION IN THE TUMOR MICROENVIRONMENT OF PANCREATIC CANCER (Abstract 8)

Brochier Walther, de Duve Institute, Brussels, Belgium

CHARACTERIZATION OF T CELLS DURING BCG THERAPY FOR NON-MUSCLE INVASIVE BLADDER CANCER (Abstract 11)

Daradoumis Joana Aglaia, University of Copenhagen, Copenhagen, Denmark MELARV ENV VACCINE

WITH MUTATIONS IN THE IMMUNOSUPPRESSIVE DOMAIN ELICITS INCREASED IMMUNITY AND ELIMINATION OF ESTABLISHED TUMORS IN MICE (Abstract 17)

POSTER TEASER PRESENTATIONS (30 min)

17.30-17.50 **COFFEE BREAK**

18.00 **Tutorial Sessions**

Evening Session

21.00 **POSTER SESSION A**

Sunday, May 8th, 2022

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Morning Session

Guest Speaker Lectures:

- 9.00** **Lucie Peduto**
Stromal regulation of tissue homeostasis and inflammation
- 10.00** **Laura Surace**
Metabolic regulation of lymphocytes in homeostasis and disease
- 11.00-11.20** **COFFEE BREAK**
- 11.30** **Ben Rengstl**
From bench to bedside: In vivo expansion of CAR-Ts with mRNA vaccines.
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Afternoon Session

16.00 **Participant Presentations**

Di Trani Claudia Augusta, Centro de Investigación Médica Aplicada, Pamplona, Spain
INTRAPERITONEAL ADOPTIVE TRANSFER OF IL-12 MRNA-ARMORED TUMOR SPECIFIC CD8+ T CELLS ERADICATES PERITONEAL TUMORS IN MOUSE MODELS (Abstract 22)

Feraoun Yanis, CEA, Paris, France
HARNESSING INNATE IMMUNE MEMORY INDUCED BY A VIRAL VECTOR VACCINE: LONG-TERM IMPRINTING OF NEUTROPHILS, MONOCYTES AND DENDRITIC CELLS BY MVA (Abstract 24)

Filipović Maša, University of Zagreb School of Medicine, Zagreb, Croatia
NOTCH INHIBITION INCREASES OSTEOCLAST PROGENITOR ACTIVITY IN THE MOUSE MODEL OF RHEUMATOID ARTHRITIS (Abstract 25)

Gardet Margaux, IDMIT CEA, Fontenay-aux-Roses, France
PREDC SUBSETS CHARACTERIZATION AMONG THE CYNOMOLGUS MACAQUE MODEL AND STUDY OF THEIR DYNAMICS DURING A SIV / HIV INFECTION (Abstract 31)

Gout Dennis, Amsterdam UMC, Amsterdam, The Netherlands
FUSION OF TNF-A TO TRISOMAB POTENTIATES NEUTROPHIL-MEDIATED ANTI-TUMOR EFFECTS (Abstract 34)

POSTER TEASER PRESENTATIONS (30 min)

17.30-17.50 **COFFEE BREAK**

18.00 **Tutorial Sessions**

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Evening Session

21.00 **POSTER SESSION B**

Monday, May 9th, 2022

Morning Session

Guest Speaker Lectures:

- 9.00 James Di Santo**
Innate lymphoid cells: development, differentiation and dynamics
- 10.00 Andrew Macpherson**
Mucosal Immunity
- 11.00-11.20 COFFEE BREAK**
- 11.30 Veit Hornung**
Novel *insights* into pattern recognition by the innate immune system.
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Afternoon Session

16.00 Participant Presentations

Grujjs Mandy, Amsterdam UMC, location VUmc, Amsterdam, The Netherlands
ANTI-Fc α RI BISPECIFIC ANTIBODIES: OVERCOMING THE IMMUNOSUPPRESSIVE TUMOR MICROENVIRONMENT? (Abstract 35)

Huis in 't Veld Lisa, Radboudumc, Nijmegen, The Netherlands
SAPONIN-BASED ADJUVANT-INDUCED DENDRITIC CELL CROSS-PRESENTATION IS DEPENDENT ON PERK ACTIVATION (Abstract 44)

Jerak Josipa, Institute for Research in Biomedicine Bellinzona, Bellinzona, Switzerland
PAN-CORONAVIRUS NEUTRALIZING ANTIBODIES TARGET A CRYPTIC FUSION PEPTIDE EPI TOPE (Abstract 50)

Krapić Mia, Faculty of Medicine, University of Rijeka, Rijeka, Croatia
IFN- γ PRODUCED IN INFECTION DOWN-REGULATES PPAR- γ TO MODULATE ADIPOSE TISSUE BIOLOGY AND SYSTEMIC METABOLISM (Abstract 60)

Leunig Alexander, LMU University Hospital Munich, München, Germany
PROTECTIVE IMMUNE TRAJECTORIES IN EARLY VIRAL CONTAINMENT OF NON-PNEUMONIC SARS-COV-2 INFECTION (Abstract 67)

POSTER TEASER PRESENTATIONS (30 min)

17.30-17.50 COFFEE BREAK

18.00 Tutorial Sessions

Evening Session

21.00 POSTER SESSION C

Tuesday, May 10th, 2022

Morning Session

Guest Speaker Lectures:

9.00 Philippe Bousso
Decoding immune responses to cancer and infection using intravital imaging

10.00 Jannie Borst
Cytotoxic T cell programming at the dendritic cell interface

11.00-11.20 COFFEE BREAK

11.30 Andreas Moor
Spatial biology in the intestinal epithelium

Afternoon Session

16.00 Participant Presentations

Losenkova Karolina, Turku University, Turku, Finland
TUMOR CELLS MODULATE T CELL PHENOTYPE BY ALTERING THE PURINE METABOLISM (Abstract 70)

Martins Ana, Institut Pasteur, Paris, France IL-10
REPROGRAMS T CELLS IN VIVO AND INDUCES AGING FEATURES IN THE SKIN AND ADIPOSE TISSUE (Abstract 77)

Moreno Mascaraque Sara, Heinrich Heine University, Düsseldorf, Germany
TARGETING CHLAMYDIA TRACHOMATIS BY ELICITING CD4+ T CELL AND ANTIBODY RESPONSES THROUGH RECOMBINANT MVA EXPRESSING CTH522 (Abstract 84)

Perinetti Casoni Giovanna, Karolinska Institutet, Huddinge, Sweden
ABNORMAL NK CELL DIFFERENTIATION IN DEF6 DEFICIENT PATIENTS (Abstract 96)

Robbers Lisa, Utrecht University, Utrecht, The Netherlands
EVIDENCE FOR TRANSFER OF MATERNAL ANTIGEN SPECIFIC CELLULAR IMMUNITY AGAINST MYCOBACTERIUM AVIUM SSP. PARATUBERCULOSIS VIA COLOSTRUM IN A GOAT TWIN MODEL (Abstract 104)

POSTER TEASER PRESENTATIONS (30 min)

17.30-17.50 COFFEE BREAK

18.00 Tutorial Sessions

Evening Session

21.00 POSTER SESSION D

Wednesday, May 11th, 2022

Morning Session

Guest Speaker Lectures:

- 9.00** **Andreas Bergthaler**
Systemic immunometabolism in viral infection
- 10.00** **Bruno Silva Santos**
Gamma-Delta T-cells: effector subsets and (patho)physiological functions
- 11-10.30** **COFFEE BREAK**
- 11.30** **Bernard Malissen**
Unveiling the molecular basis of T cell malfunctions and disorders using multi-omics approaches.
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Afternoon Session

16.00 **Participant Presentations**

Vallet Nicolas, Research Institute Saint Louis Université De Paris, Paris, France
AZITHROMYCIN PROMOTES IMMUNE ESCAPE AFTER ALLOGENEIC HEMATOPOIETIC STEM CELL TRANSPLANTATION BY INHIBITING MAJOR T CELLS FUNCTIONS THROUGH CELL ENERGY METABOLISM CHANGES (Abstract 118)

Van Tilbeurgh Matthieu, Commissariat à l'Energie Atomique et aux énergies alternatives, Fontenay-aux-roses, France
INNATE CELL MARKERS THAT PREDICT ANTI-HIV NEUTRALIZING ANTIBODY TITERS IN VACCINATED MACAQUES (Abstract 122)

Xiao Yankai, Hannover Medical School, Hannover, Germany
DECIPHERING ANTIGEN SPECIFICITY OF PROTECTIVE REGULATORY T CELL CLONES IN PATIENTS AFTER ALLOGENEIC STEM CELL TRANSPLANTATION (Abstract 128)

Zandhuis Nordin, Sanquin, Bussum, The Netherlands
ZFP36L2 REGULATES CYTOKINE PRODUCTION IN CD8+ T CELLS IN A CONTEXT-DEPENDENT MANNER (Abstract 130)

POSTER TEASER PRESENTATIONS (30 min)

17.30-17.50 **COFFEE BREAK**

18.00 **Tutorial Sessions**

Evening Session

21.00 **POSTER SESSION E**

Thursday, May 12th, 2022

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Cultural excursions (optional)

Morning: (09.00-11:30, departure/return times to be confirmed on-site)

Boat excursion from Alghero Marina to Neptune's caves, under the capo caccia promontory.

Boat travel time 50 minutes each way. 10:00 guided tour of the caves (30 minute).

Return to Alghero Marina at 11:30

[Neptune's Caves \(Grotte di Nettuno\)](#)

Between the cliffs overlooking the sea on the northwestern tip of Sardinia, rooms 'embroidered' by nature open up, with stalactites and stalagmites and an underground lake.

This is a place you should visit at least once in your life: the only way to truly admire the beauty of this place and perceive its charm is in person.

Neptune's grotto is one of the largest marine caves in Italy and one of the most captivating gems of nature in the Mediterranean. The grotto was formed about two million years ago: inside, you will see rooms with astounding karst formations, a white sandy beach and a huge underground lake.

The Coves de Neptú (in Catalan language) was discovered by a fisherman in the 18th century and soon became a tourist attraction. It extends horizontally for about four kilometres on the same level as the surface of the sea.

Neptune's grotto is located 24 km from Alghero and is the pride and joy of the marine protected area of Capo Caccia-Isola Piana, inside the Porto Conte Park.



12:00-13:00 Lunch at Hotel

Afternoon: (13:00-18:30, depart/return times to be confirmed on-site)



Bus excursion from the hotel to [La Pelosa beach](#).

In the Gulf of Asinara, in the extreme northwestern part of Sardinia, there is a tropical beach, one of the most beautiful in Europe and a natural paradise. Fine, pure white sand, a transparent seabed, ankle-deep water for tens of metres, turquoise and blue colours of a sea that blends with the sky and a captivating landscape offered by the surrounding towers. The

beach of La Pelosa lies between the Capo Falcone sea stacks, the Isola Pianaisland and Asinara, which protect it from the force of the open sea: it is a tropical paradise that will make you feel like you are in a film.

Travel time: 55 minutes each way. There is no guided activity, you are free to enjoy the beach.

20.00 Farewell Dinner

Free Evening