

WEDNESDAY 12 NOVEMBER

08:00-09:30 Meeting registration

Foyer - Level S1

PLENARY SESSIONS

09:30-09:45

Welcome Introduction

Amphi. Gaston Berger - Level S2

- Daniel OLIVE - SFI President

09:45-10:30

Pierre Grabar* Keynote Lecture * Cofounder and 1st President of the SFI

Amphi. Gaston Berger - Level S2

Chair: Emmanuelle JOUANGUY (Paris, France)

- Jean-Laurent CASANOVA (Human Genetics of Infectious diseases, Rockefeller University, New York, USA, Imagine institute, Necker Hospital for Sick Children, Paris, France)
Human genetics of infectious diseases

10:30-11:30

SESSION 1 - Tolerance / Autoimmunity

Amphi. Gaston Berger - Level S2

Chairs: Marianne BURBAGE (Paris, France) & Anne ASTIER (Toulouse, France)

- Carola VINUESA (The Francis Crick Institute, London, UK)
Origin, kinetics and location of autoantibody-secreting B cells in systemic autoimmunity
- Magali IRLA (Immune tolerance and T cell differentiation, CIML, Marseille, France)
Thymic Central T Cell Tolerance: From Age-Related Involution to Immune Rejuvenation

Short oral presentations

- P1-01 - Meryem ALOULOU (INFINITY, INSERM UMR1291 – CNRS UMR5051 – University of Toulouse, Toulouse, France)
Follicular Regulatory T Cells: Unexpected Allies of Neuroinflammation
- P1-02 - Claire SOUDAIS (UMR1163, Institut Imagine, Paris, France)
Inhibition of the CTP synthase 1 prevents GVHD and delays skin graft rejection revealing distinct allo-T-cell responses
- P1-03 - Emeline PAPILLON (U932, Institut Curie, Paris, France)
How do transposable elements shape T cell thymic selection?

11:30-12:30

POSTER SESSION 1 - odd-numbered

Foyers - Levels S2-S3

11:30-12:30

E-POSTER SESSION 1 (see the list of e-posters)

Foyer - Level S2

Chair: Fabienne HASPOT (Nantes, France)

11:30-12:30

E-POSTER SESSION 2 (see the list of e-posters)

Foyer - Level S2

Chair: Rami BECHARA (Le Kremlin-Bicêtre, France)

12:30-14:00

Lunch - Coffee - Visit of exhibition & Posters

Foyers - Levels S1-S2-S3

JOURNÉE FÉDÉRATION D'IMMUNOLOGIE MÉDICALE

14:00-17:00

Thérapies cellulaires innovantes dans la prévention de la GVH après allogreffe de cellules souches hématopoïétiques



Salle Louis Armand Ouest - Level S3

Modérateurs : Stéphanie NGUYEN (Paris, France) & Jean-Hugues DALLE (Paris, France)

- Étienne DAGUINDAU (Besançon, France)
Physiopathologie de la GVH aigüe et prévention en pratique courante
- Mathieu LECLERC (Créteil, France)
T régulateurs en prévention de la GVH chez l'homme
- Federico SIMONETTA (Genève, Suisse)
Lymphocytes iNKT murins et modulation des effets GVH/GVL



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- **Marie-Thérèse RUBIO** (Nancy, France)
Lymphocytes iNKT humains et leur développement clinique dans l'allogreffe de CSH
- **Maud D'AVENI-PINEY** (Nancy, France)
Cellules myéloïdes suppressives (MDSC) dans la greffe de CSH
- **Cécile POCHON** (Nancy, France)
Cellules souches stromales mésenchymateuses (CSM) : comment optimiser leur utilisation pour prévenir la GVH ?
- **Table ronde**

PARALLEL SESSIONS

14:00-15:30

SP1 - Germinal Centers Club

Salle Louis Armand Est - Level S3

Chairs: Carole LE COZ (Toulouse, France) & Céline DELALOY (Rennes, France)

- **Pierre MILPIED** (Integrative B cell immunology, CIML, Marseille, France)
Pre-plasma cells proliferate and differentiate at the germinal center-medulla interface of antigen-draining lymph nodes
 - **Johanne JACOBSEN** (Rikshospitalet, University of Oslo, Norway)
In Vivo Interactome Mapping of Foxp3+ T cell subsets in the Germinal Center
- Short oral presentations*
- **SP1-01 - Yoann MISSOLO** (INSERM U1330, Institut Curie, Paris, France)
CD4+ T Cells Response to Tumor Invasion in Lymph Nodes
 - **SP1-02 - Emma VALDEVIT** (Toulouse institute for infectious and inflammatory diseases, Toulouse, France)
Human T follicular regulatory cells are composed by two layers of heterogeneity
 - **SP1-03 - Robert PHILIPPE** (Laboratoire Adhesion et Inflammation, INSERM-CNRS-Aix-Marseille Université, Marseille, France)
Mechanical force resistance rather than affinity as a selection factor driving antibody maturation in secondary lymphoid tissues

Short oral presentations

14:00-15:30

SP2 - Inborn errors of immunity Club

Amphi. Gaston Berger - Level S2

Chairs: Charline MIOT (Angers, France) & Tom LE VOYER (Paris, France)

- **Vivien BÉZIAT** (Human Genetics of Infectious diseases, Imagine institute, Paris, France)
Genetic Determinants of Severe Cutaneous Oncoviral Infections
- **Filomeen HAERYNCK** (University of Ghent, Belgium)
Unmasking TFIID deficiency: A novel IEL disrupting innate and adaptive immune response

Short oral presentations

- **SP2-04 - Jean Sebastien DIANA** (Department of Biotherapy, Necker Hospital (APHP), Paris, France)
Gene therapy for Artemis deficiency: the results of the French ARTEGENE 2 Phase I/II clinical trial
- **SP2-05 - Hailun LI** (HGID, Institut Imagine, Paris, France)
Syndromic severe combined immunodeficiency in children with a complete form of inherited JAK1 deficiency
- **SP2-06 - Nicolas AYAS** (U1151, Institut Necker Enfants Malades, Paris, France)
A neomorphicIRF4 variant disrupts human Treg biology in Primary Antibody deficiency-associated IBD

14:00-15:30

SP3 - Career development (Young) Club

Salle 2 - Level S3

Chairs: Marie-Astrid BOUTET (Nantes, France) & Joaquin PELLEGRINI (France)

- **Julie FLOCH** (Association Bernard Gregory (ABG) - Responsable Formation et Accompagnement) & **Shahul MOUHAMAD** (Miltenyi Biotec - Marketing manager)
A wide range of opportunities for PhDs
- **Paola GARDELLIN** (Présidente fondatrice de REVEALIS - Coach professionnel)
From researcher to entrepreneur: is Women Leadership different from Men's?
- **Renaud POURPRE** (Fondateur du collectif Exaltia - Science communicator)
Tips for becoming a part-time science communicator
- **Round-table discussion:** Julie FLOCH, Paola GARDELLIN, Renaud POURPRE & Shahul MOUHAMAD

PARALLEL SESSIONS

15:30-17:00

SP4 - Immunometabolism

Amphi. Gaston Berger - Level S2

Chairs: Mehdi BENAMAR (Boston, USA) & Romain RONCAGALLI (Marseille, France)

- **Stefanie WCULEK** (*Institute for Research in Biomedicine, Barcelona, Spain*)
How innate immune cells adapt to environment and function: diverse tales of mitochondria
- **Linda SINCLAIR** (*University of Dundee, UK*)
Fuelling T cells -> Proteostasis in T cells

Short oral presentations

- **SP4-07 - Axelle PENC** (*Institut Necker Enfants Malades, Paris, France*)
The innate immune system contributes to the development of Pompe disease and represents an efficient therapeutic target
- **SP4-08 - Bastien AZNAR** (*Institut Necker Enfants-Malades, Paris, France*)
The Histone Demethylase KDM6B Governs the LYVE1+ Perivascular Macrophage Phenotype to Control Adipose Tissue Expandability
- **SP4-09 - Margaux SARRET** (*Sorbonne Université, Inserm U1135, CIMI, Paris, France*)
Age-Dependent Immunometabolism: Energetic Profiles of Lymphocytes and Monocytes

15:30-17:00

SP5 - Aging/senescence

Salle Louis Armand Est - Level S3

Chairs: Bruno LUCAS (Paris, France) & Julie DÉCHANET-MERVILLE (Bordeaux, France)

- **Jörg GORONZY** (*University of Stanford, CA, USA*)
TCF1 and HELIOS – Goddesses of T-cell youth
- **María MITTELBRUNN** (*Centro de Biología Molecular - UAM, Madrid, Spain*)
Unlocking healthy aging through the immune system

Short oral presentations

- **SP5-10 - Romain TORRES** (*INFINITY, INSERM UMR1291, Toulouse, France*)
Aging predisposes naive CD4+ T cell to a pro-inflammatory Th1 fate
- **SP5-11 - Bruno MARTIN** (*Institut Cochin, INSERM U1016, CNRS UMR8104, Paris, France*)
IFN- α -driven down-regulation of Foxo1 induces functional remodeling of the peripheral $\gamma\delta$ T-cell compartment with Age
- **SP5-12 - Manon CHAUVIN** (*Sorbonne Université, Inserm U1135, CIMI-Paris, Paris, France*)
From Immune Activation to Immune Decline: Neopterin in the Aging Process

17:00-17:45

Coffee break - Visit of exhibition - Posters

Foyers - Levels S1-S2-S3

PARALLEL SESSIONS

17:45-19:15

SP6 - Neuroimmunology

Salle Louis Armand Est - Level S3

Chairs: Nicolas FAZILLEAU (Toulouse, France) & Anne ASTIER (Toulouse, France)

- **Marina RUBIO** (*Physiopathology and Imaging of Neurological Disorders, GIP Cyceron, Normandie University, Caen, France*)
BAMs take the lead: orchestrating neuroinflammation after ischemic stroke
- **Mikael SIMONS** (*Institute of Neuronal Cell Biology, Munich, Germany*)
Myelin pathology & neuroinflammation in the CNS

Short oral presentations

- **SP6-13 - Mehdi BENAMAR** (*Division of Immunology, Boston Children's Hospital, Boston, Massachusetts, USA*)
Notch3+ Regulatory T cells Drive Autoimmune Neuroinflammation in Multiple Sclerosis
- **SP6-14 - Irini EVNOUCHIDOU** (*Centre de Recherche sur l'Inflammation, INSERM U1149, Université Paris Cité, Paris, France*)
A new transcription factor regulating neuroinflammation
- **SP6-15 - Nicolas BLANCHARD** (*Inserm UMR1291 - CNRS UMR5051 - University of Toulouse, Toulouse Institute for Infectious and Inflammatory diseases - Infinity, Toulouse, France*)
Immune evasion by *Toxoplasma gondii* through epigenetic suppression of neuronal MHC I presentation

17:45-19:15

SP7 - TCR/BCR Signalisation

Amphi. Gaston Berger - Level S2

Chairs: Laurence BATAILLE (Paris, France) & Romain RONCAGALLI (Marseille, France)

- **Renaud LESOURNE** (*Integrative mapping of lymphocyte signaling and function, Toulouse Institute for Infectious and Inflammatory Diseases, Toulouse, France*)
Fine tuning T cell responses through checkpoint regulation and diversification
- **Pieta MATTILA** (*University of Turku, Finland*)
Septin7 regulates the formation of the B cell immune synapse and B cell responses

Short oral presentations

- **SP7-16 - Hermine FERRAN** (*U932, Institut Curie, Paris, France*)
The MARK2 kinase acts as a gatekeeper of CD28-dependent co-stimulation in T cells
- **SP7-17 - Audrey PAGE** (*Centre de Recherche en Cancérologie de Lyon (CRCL), Lyon, France*)
Disruption of Intracellular Immune Checkpoints Lowers the Activation Threshold of TCR-T Cells
- **SP7-18 - Manuel D. DIAZ-MUNOZ** (*Inserm U1291, Toulouse Institute for Infectious and Inflammatory Diseases (Infinity), Toulouse, France*)
Post-transcriptional regulation of the B-cell receptor is instrumental for innate B cell maintenance and regulatory function

THURSDAY 13 NOVEMBER

PARALLEL SESSIONS

08:45-10:15

SP8 - Tissue barrier

Salle Louis Armand Est - Level S3

Chairs: François LEGOUX (Rennes, France) & Kamel BENLAGHA (Paris, France)

- **Eduardo VILLABLANCA** (Karolinska Institute, Stockholm, Sweden)
Spatiotemporal Dynamics of Intestinal Inflammation and Healing
- **Antoine ROQUILLY** (Center for Research in Transplantation and Translational Immunology, Nantes, France)
Differences in spatiotemporal adaptation of ontogenically distinct alveolar macrophages regulate the response to interferon during respiratory sepsis

Short oral presentations

- **SP8-19 - Hugo SANTENAC** (Inserm-Infinity, Toulouse, France)
Neonatal regulatory T cells persist into adulthood across multiple tissues with high enrichment in the skin
- **SP8-20 - Marco RODARI** (Laboratory of Intestinal Immunity, Institut Imagine, Paris, France)
Importin 8-Dependent TGF-Beta signaling shapes gut homeostasis via control of regulatory T Cell differentiation
- **SP8-21 - Valentina VENZIN** (Meta-organisme Unit, Institut Pasteur, Paris, France)
CD4+ T cells license Kupffer cells to produce IL-27 and reverse the CD8+ T cell dysfunction induced by hepatocellular priming

08:45-10:15

SP9 - Myeloid cells

Amphi. Gaston Berger - Level S2

Chairs: Sandrine HENRI (Tours, France) & Nathalie CHAPUT (Villejuif, France)

- **Élodie SEGURA** (Immune response to cancer, INSERM, Curie Institute, Paris, France)
Mechanical stress promotes skin immune surveillance by myeloid cells and vaccine efficiency
- **Caetano REIS E SOUSA** (The Francis Crick Institute, London, UK)
Dendritic cells in immunity to cancer

Short oral presentations

- **SP9-22 - Aurélie SEMERVIL** (Institut Pasteur, Paris, France)
Immune checkpoint inhibition immunotherapy promotes dendritic cell development from early multipotent hematopoietic progenitors
- **SP9-23 - Pierre DUQUESNE** (U1163, Institut Imagine, Paris, France)
Kinesin-1 regulates dendritic cell migration by coordinating cytoskeletal crosstalk via the modulation of RhoA activity
- **SP9-24 - Tarek CHEKROUNE** (UMR 7355, CNRS, Orléans, France)
Autophagy in macrophages as a player of cell death in LPS-induced lethal shock

08:45-10:15

Session Médicale SP10 - Neuroimmunologie



Salle Louis Armand Ouest - Level S3

Modérateurs : Alexandre JENTZER (Montpellier, France),
Chloé BOST (Toulouse, France) & Delphine STERLIN (Paris, France)



- **Kumaran DEIVA** (Hôpital Bicêtre, Le Kremlin-Bicêtre, France)
Translating immunological mechanisms in pediatric MOG antibodies associated diseases to clinical practice
- **Jérôme DEVAUX** (Centre de Recherche en Neurobiologie et Neurophysiologie, Marseille, France)
Immunology and physiopathology of autoimmune nodopathy

Communications orales courtes

- **SP10-25 - Anne ASTIER** (INSERM U1291 Infinity, Toulouse, France)
A Sex Bias in Tr1 Differentiation in Multiple Sclerosis
- **SP10-26 - Raphaëlle LAUTRAITE** (Immunology, La Pitié-Salpêtrière Hospital, AP-HP, Sorbonne Université, Paris, France)
Lambda and Kappa Free Light Chains in CSF: An Alternative to OCB in Pediatric Neuroinflammatory Diseases
- **SP10-27 - Delphine STERLIN** (Département d'Immunologie, Hôpital La Pitié-Salpêtrière, APHP, Paris, France)
Distinct IgM N-Glycosylation Patterns Drive Pathogenicity in Anti-MAG Neuropathy

10:15-11:00

Coffee break - Visit of exhibition - Posters

Foyers - Levels S1-S2-S3

PLENARY SESSIONS

11:00-12:00

SESSION 2 - Cancer immunology

Amphi. Gaston Berger - Level S2

Chairs: Julien MARIE (Lyon, France) & Daniel OLIVE (Marseille, France)

- **Clotilde THERY** (*Immune response to cancer, Curie Institute, Paris, France*)
Tumor-immune system cross-talk: different roles of soluble secreted factors and extracellular vesicles
- **Daniela THOMMEN** (*Division of Molecular Oncology and Immunology, Oncode Institute, The Netherlands Cancer Institute, Amsterdam, The Netherlands*)
Spatiotemporal dynamics of immunotherapy responses in cancer tissues

Short oral presentations

- **P2-04 - Nataliya YEREMENKO** (*Center for Research in Transplantation and Translational Immunology, UMR1064, University of Nantes, Nantes, France*)
Targeting the BOB1-OCT2 Axis: A Novel Therapeutic Strategy for Mature B-Cell Malignancies
- **P2-05 - Théotime LAVERGNE** (*Inserm-Infinity, Toulouse, France*)
Stability of Foxp3+ regulatory T cells in tumors
- **P2-06 - Fabienne HASPOT** (*INSERM 1064, CR2TI, Nantes, France*)
An unexpected tumor escape mechanism mediated by HHLA2

12:00-12:30

Industry Symposia

Amphi. Gaston Berger - Level S2

Chairs: TBC

- **Euroimmun**
Benoît CANTARELLI (*Euroimmun*)
Anti-neuronal auto-antibodies : News in diagnostic testing with cell-based assays
- **CeGaT**
Lara EL BAZZAL (*CeGaT*)
CeGaT in precision immunology: lifting immune research with sequencing expertise and end-to-end workflows
- **BD Biosciences**
Régis BUCHAILLE (*BD Biosciences*)
Combining spectral and imaging technologies: Shortening time to insight for deep biology research
- **Agilent Technologies**
Hervé CHAULET (*Agilent Technologies*) & **Jérôme DARAKDJIAN** (*Agilent Technologies*)
Complementary technologies for your fundamental, applied and medical research in immunology
- **Pixelgen Technologies - Peter DJALI** (*Pixelgen*)
Using Pixelgen's Cell Surface Protein Interactomics Assay to Better Understand Immune Cell Behaviour and Clinical Response)

EUROIMMUN  CeGaT BD **Agilent**
Trusted Answers **PIXELGEN**
TECHNOLOGIES

12:30-13:30

Lunch - Coffee - Visit of exhibition & Posters

Foyers - Levels S1-S2-S3

13:30-14:30

POSTER SESSION 2 - even-numbered

Foyers - Levels S2-S3

13:30-14:30

E-POSTER SESSION 3 (see the list of e-posters)

Foyer - Level S2

Chair: Fabienne HASPOT (Nantes, France)

13:30-14:30

E-POSTER SESSION 4 (see the list of e-posters on)

Foyer - Level S2

Chair: Mathieu CHEVALIER (Paris, France)

PARALLEL SESSIONS

14:30-16:00

SP11 - Mastocytes and Basophils Club

Salle 2 - Level S3

Chairs: Gaël MÉNASCHÉ (Paris, France) & Nicolas CHARLES (Paris, France)

- **Tim LÄMMERMANN** (Center of Molecular Biology of Inflammation (ZMBE), University of Münster, Germany)
Mast cells – unique cells among immune cells
- **Martijn SCHUIJS** (Immunoregulation and Mucosal Immunology, Cancer Research Institute Ghent, Ghent, Belgium)
Basophils as Gatekeepers: Amplifying Asthma Through IL-33-Driven Th2 Infiltration

Short oral presentations

- **SP11-28 - Jasper KAMPHUIS** (INSERM UMR1291 INFINITy, Toulouse, France)
Dietary fermentable carbohydrates promote mucosal mast cell-dependent type 2 immune responses and intestinal pain
- **SP11-29 - Morgane THAMINY** (Centre de Recherche sur l'inflammation (CRI), INSERM UMR 1149 CNRS EMR 8252, Paris, France)
IL-4 expressing basophils influence the B cell extrafollicular pathway during lupus
- **SP11-30 - Charlotte HATEB** (Laurent Reber's team, Infinity (Inserm), Toulouse, France)
Development of mRNA-LNP encoding the major allergen Bet v 1 to treat birch pollen allergy

14:30-16:00

SP12 - Vaccinology Club

Amphi. Gaston Berger - Level S2

Chairs: Anne-Sophie BEIGNON (Paris, France) & Jean-Daniel LELIÈVRE (Paris, France)

- **Karin LORÉ** (Karolinska Institute, Stockholm, Sweden)
Understanding immunological mechanisms of mRNA vaccination compared to conventional platforms
- **Lisa CHAKRABARTI** (Virus and immunity, Pasteur Institute, Paris, France)
Development of lymphoid organ-on-chip models to evaluate vaccine immunogenicity

Short oral presentations

- **SP12-31 - Mathieu EPARDAUD** (UMR ISP Université-INRAE 1282/BioMAP, INRAE, Tours, France)
A Novel Intranasal Subunit Vaccine Platform Achieves Broad Protection and Transmission Blocking: Demonstrated Against SARS-CoV-2
- **SP12-32 - Manon BROUTIN** (Auto-Immune and Immune B cells, Institut Necker Enfants Malades, INSERM U1151/CNRS UMR 8253, Paris, France)
Beta spike vaccine quaternary structure reshapes the memory B-Cell repertoire by hiding cryptic epitopes
- **SP12-33 - Flora BATOUL** (UPSaclay, Inserm, CEA, IDMIT/IMVA-HB/UMRS1184, Fontenay-aux-Roses, France)
Trained immunity induction by a recombinant BCG expressing ESX-1 of Mycobacterium Marinum in non-human primates



14:30-16:00

SP13 - Immunopediatry Club

Salle Louis Armand Est - Level S3

Chairs: Rami BECHARA (Le Kremlin-Bicêtre, France) & Nabila SEDDIKI (Paris, France)

- **Alexandre BELOT** (Genetic anomalies in autoimmunity, National Center of Research in Infectiology, Lyon, France)
Unraveling Monogenic Lupus: From Immune Tolerance to Precision Therapy
- **Liza Konnikova** (Yale University, New Haven, United States)
Early life immunity, small but mighty

Short oral presentations

- **SP13-34 - Claire-Maëlle FOVET** (IMVA-HB/IDMIT, Université Paris-Saclay, Inserm, CEA, Fontenay-aux-Roses, France)
The benefit of maternal vaccination and immunity transfer in a neonatal macaque model of SARS-CoV-2 infection
- **SP13-35 - Thomas MOREAU** (Translational Immunology Unit, Institut Pasteur, Paris, France)
Dysregulation of the TLR3/MDA5 pathway and increased seropositivity in juvenile dermatomyositis patients implicates viral infection as a disease trigger
- **SP13-36 - Adrien CAFFIERS** (U1016, Institut Cochin, Paris, France)
Microbiota from type 1 diabetic children induces MAIT cell dysfunction and alters intestinal mucosa

14:30-16:00

Session Médicale SP14 - Anticorps bispécifiques

Salle Louis Armand Ouest - Level S3

Modérateurs : Jérôme MARTIN (Nantes, France) & **Hervé WATIER** (Tours, France)

- **Cyrille TOUZEAU** (CHU, Nantes, France)
Thérapies redirigeant les cellules T dans le myélome multiple
- **Éric VIVIER** (CIML, Marseille, France)
Depleting antibodies in cancer therapy

Communications orales courtes

- **SP14-37 - Nicolas DEREDEC** (Team normal and pathological hematopoiesis, Cochin Institute, Paris, France)
Early T cells changes predict the response to CD3xBCMA bispecific antibodies in blood cancer
- **SP14-38 - Julia ETERRADOSSI** (Cancer Immune Surveillance and Therapeutic Targeting Team - U1052, Centre de Recherche en Cancérologie de Lyon, Lyon, France)
Evaluation of CCR8 as an anchor for the development of therapies specific to T regulatory lymphocytes infiltrating the tumor microenvironment in solid cancers
- **SP14-39 - Théo LABOURET** (U1236 - MOBIDIC, Université de Rennes, INSERM, Rennes, France)
Chronically stimulated T cells exhibit a dysfunctional transcriptional program associated with a reduced effector function in response to bispecific antibodies



16:00-16:45

Coffee break - Visit of exhibition - Posters

Foyers - Levels S1-S2-S3

PARALLEL SESSIONS

16:45-18:15

SP15 - Signalisation / Inflammation

Amphi. Gaston Berger - Level S2

Chairs: Charline MIOT (Angers, France) & **Julien MARIE** (Lyon, France)

- **Bénédicte PY** (NLRP3 inflammasome and immune response to sepsis, National Center of Research in Infectiology, Lyon, France)
Functional analysis of NLRP3 natural variants for the diagnosis of autoinflammatory diseases, and the understanding of inflammasome regulation
- **Jean-Philippe GIRARD** (IPBS-CNRS, University of Toulouse, Toulouse, France)
From IL-33 to TL1A: role of alarmin cytokines in the initiation of allergic airway inflammation

Short oral presentations

- **SP15-40 - Dhouha MSALBI** (U1262 CRIBL, University of Limoges, INSERM, Limoges, France)
Soluble CD95L triggers Caspase-10-driven reactive oxygen species production in neutrophils and aggravates anti-neutrophil cytoplasmic antibody-vasculitis
- **SP15-41 - Oumaima BAAZIZ** (Leukomotion Lab, Institut Necker Enfants Malades, Paris, France)
Extracellular matrix density controls PD-1 organization and T cell migration in 3D
- **SP15-42 - Saniya KARI** (INSERM UMR1291 12 – CNRS UMR5051, Université de Toulouse, Toulouse Institute for Infectious and Inflammatory Diseases (Infinity), Toulouse, France)
The multiple sclerosis associated CD226 risk variant alters vitamin D-induced human type I regulatory T cell differentiation by impairing LFA-1 activation

16:45-18:15

SP16 - Host-pathogen interactions

Salle Louis Armand Est - Level S3

Chairs: Julie DÉCHANET-MERVILLE (Bordeaux, France) & **Alice KOENIG** (Lyon, France)

- **Victor APPAY** (Vulnerability and ageing of the immune system, ImmunoConcept, Bordeaux, France)
Rejuvenation of CD8+ T cell responses in long-term treated people with HIV
- **Sylvain LATOUR** (Lymphocyte activation and susceptibility to EBV, Imagine Institute, Necker Hospital for Sick Children, Paris, France)
Role of IL-27 in immunity to Epstein-Barr infection

Short oral presentations

- **SP16-43 - Hannah KAMINSKI** (Bordeaux University Hospital, Bordeaux, France)
Features of naive gamma delta T cells responding to CMV in human

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- **SP16-44 - Jérémie POSCHMANN** (*Université de Nantes, Nantes, France*)
PU.1 Shapes Host Epigenetic Responses to Mycobacterium tuberculosis and Represents a Target for Host Directed Therapy
- **SP16-45 - Joaquin PELLEGRINI** (*Centre d'Immunologie de Marseille-Luminy (CIML), Aix Marseille Université, CNRS, Inserm, Marseille, France*)
SLAM family receptors: emerging regulators of human plasmacytoid dendritic cell responses to intracellular bacteria

16:45-18:00

Session Médicale SP17 - Anticorps anti-cytokines

Salle Louis Armand Ouest - Level S3

Modérateur : Régis JOSIEN (Nantes, France)

- **Frédéric COUTANT** (*CHU Lyon-Sud, Pierre-Bénite, France*)
Facilitating autoantibodies to IL-17: unveiling a novel mechanism of cytokine modulation
- **Paul BASTARD** (*Paris, France*) - Ouroboros - immunity against immunity



18:00-18:15

CEnI General Assembly

PLENARY SESSION

18:15-19:45

SESSION 3 - Young investigators

Amphi. Gaston Berger - Level S2

Chairs: Mehdi BENAMAR (Boston, USA), Saniya KARI (Paris, France) & Alexandre PACCALET (Lyon, France)

- **Achille BROGGI** (*Innate immunity at mucosal sites, CIML, Marseille, France*)
Interfering with mucosal homeostasis, type III IFN induce pyroptosis in IECs and impair mucosal repair

Short oral presentations

- **P3-07 - Rodrigo de OLIVEIRA FORMIGA** (*Centre de Recherche Saint-Antoine, Sorbonne Université, Paris, France*)
Cadaverine, a gut-derived polyamine, regulates macrophage immunometabolism and impacts colon inflammation in a context-dependent manner
- **P3-08 - Ferial REBHI** (*Institut Necker Enfants Malades, Paris, France*)
The secretory leukocyte protease inhibitor controls the development of Sjögren's syndrome by regulating the function of neutrophils in the salivary glands
- **P3-09 - Nainisha SHAH** (*Pathophysiology and Immunotherapy of inflammatory diseases, INSERM-IRMB, Montpellier, France*)
The plasticity of human FOXP3+ Tregs in rheumatoid arthritis synovial fluid



20:00

Congress Dinner

Cabaret Sauvage

FRIDAY 14 NOVEMBER

PLENARY SESSIONS

08:30-09:30

SESSION 4 - Innate/intrinsic immunity

Amphi. Gaston Berger - Level S2

Chairs: Kamel BENLAGHA (Paris, France) & Tom LE VOYER (Paris, France)

- Étienne PATIN (*Human Evolutionary Genetics, Pasteur Institute, Paris, France*)
The environmental and evolutionary drivers of human immune variation
- Estibaliz LAZARO (*Origins and pathogenesis of autoimmune and inflammatory disorders, ImmunoConcEpT, Bordeaux, France*)
Is Chronic Histiocytic Intervillositis an Auto-Inflammatory Disease?

Short oral presentations

- P4-10 - Cian REID (*Human Evolutionary Genetics, Institut Pasteur, Paris, France*)
Deconvoluting the genetic basis of innate immune variation in a healthy European population
- P4-11 - Fanny ONODI (*U1342, Team ATIP Avenir, P. Tonnerre, IRSL, Paris, France*)
DC3 cells coordinate cytokine responses and virus-specific T cell activation in response to influenza
- P4-12 - Alexis BROQUET (*INSERM UMR1064 CR2TI, Nantes Université, Nantes, France*)
Sepsis-trained lung signature segregates IL-17+ resident Vg6 gdT cells in specialized adventitial cuffs regions.
Impact on anti-tumoral response in the lungs

09:30-10:00

Industry Symposia

Amphi. Gaston Berger - Level S2

Chair: Kamel BENLAGHA (Paris, France)

- Beckman Coulter - Alban GERVAIS (*Beckman Coulter Life Sciences*)
Introducing CytoFLEX mosaic. Spectral flow cytometry meets modularity
- Stemcell Technologies - Pegah SEDDIGH (*Stemcell Technologies*)
Streamline tissue processing using the new, automated STEMprep™ Tissue Dissociator
- Cytex Biosciences - Fabien PITOISET (*Cytex Biosciences*)
Evolutions of the Cytex® Full Spectrum Profiling™ (FSP®) Flow Cytometry Solutions



10:00-10:45

Coffee break - Visit of exhibition - Posters

Foyers - Levels S1-S2-S3

PARALLEL SESSIONS

10:45-12:15

SP18 - Microbiota in health and disease

Salle Louis Armand Ouest - Level S3

Chairs: Dalil HANNANI (Grenoble, France) & Delphine SCALBERT-STERLIN (Paris, France)

- Harry SOKOL (*Microbiota, intestine and inflammation, Research Center Saint-Antoine, Paris, France*)
Gut microbiota in IBD: from observation to therapeutic intervention
- David BIKARD (*Synthetic biology, Pasteur Institute, Paris, France*)
In situ genetic perturbation of bacteria in the mouse gut

Short oral presentations

- SP18-46 - Anna LLEBARIA FABRIAS (*Institut Cochin, Paris, France*)
IL411 induces gut and skin dysbiosis promoting melanoma development: modulating skin microbiota to restore anti-tumoral responses
- SP18-47 - Rémy VILLETTE (*Systems Ecology, Luxembourg Centre for Systems Biomedicine, Esch sur Alzette, Luxembourg*)
Integrated multi-omics of the gut microbiome in Parkinson's disease reveals a functional disruption of bacterial motility and cross-feeding
- SP18-48 - Elise DHILLY (*Inserm UMR-S1135 - Centre d'Immunologie et des maladies infectieuses (CIMI), Sorbonne Université, Paris, France*)
Humoral immunity to maternal and infant gut microbiota during pregnancy and early life

10:45-12:15

SP19 - Gene and Cell therapy

Salle Louis Armand Est - Level S3

Chairs: Jacques NUNÈS (Marseille, France) & Nathalie CHAPUT (Villejuif, France)

- **Anne GALY** (*Accelerator of Technological Research in Genomic Therapy, INSERM, Corbeil-Essonnes, France*)
Recent advances and remaining challenges in lentiviral transduction and gene editing of lymphocytes and hematopoietic stem cells
- **Jean-Luc PERFETTINI** (*Molecular radiotherapy and therapeutic innovations, Gustave Roussy Institute, Villejuif, France*)
Next-generation phagocytosis-guided myeloid cell immunotherapy for cancer treatment

Short oral presentations

- **SP19-49 - Janie ROBERT** (*i3 laboratory (Immunology-Immunopathology-Immunotherapy), Sorbonne University - UMR5959, Paris, France*)
Expression of an interleukin-2 partial agonist enhances regulatory T cell persistence and efficacy in mouse autoimmune models
- **SP19-50 - Mattia FUMAGALLI** (*Cancer immunotherapy and cell reprogramming, Equipe Bercovici-Blondel, Institut Cochin, Paris, France*)
An *in vivo* CRISPR screen unveils top target genes to improve CAR-T cell efficacy in a solid tumor model
- **SP19-51 - Manon LUCAS** (*TaRGeT UMR1089 -Nantes Université, Nantes, France*)
High systemic dosing of rAAV9 vectors: a relevant rat model to study the impact of immunoregulation in the liver

10:45-12:15

SP20 - Imaging the immune system

Amphi. Gaston Berger - Level S2

Chairs: Mathieu CHEVALIER (Paris, France) & Thibaut NANINCK (Paris, France)

- **Thibaut NANINCK** (*IDMIT - Center for Immunology of Viral, Auto-immune, Hematological and Bacterial diseases, CEA, Fontenay-aux-Roses*)
Whole-body *in vivo* imaging of pathogens and immune responses in NHP models of human infectious or auto-immune diseases
- **Alessandro FURLAN** (*CANTHER laboratory, Institut ONCOLille, University of Lille, France*)
Imaging tumors-on-chips as pre-clinical models mimicking the tumor microenvironment

Short oral presentations

- **SP20-52 - Eléonore BETTACCHIOLI** (*CHU de Brest, Brest, France*)
Spatial Immune Diversity in Lupus Nephritis Across Kidney Architecture and Histological Classes
- **SP20-53 - Grégoire MÉNARD** (*CR2TI, INSERM, Nantes, France*)
Spatial Immune Profiling Reveals Distinct Landscapes in TCMR and Mixed Rejection after Pediatric Kidney Transplantation
- **SP20-54 - Céline RAGUÉNÈS-NICOL** (*Irset - UMR_S 1085, Univ. Rennes, INSERM, EHESP, Rennes, France*)
Multiplex immunofluorescence imaging of the immune microenvironment of hepatocellular carcinoma associated with metabolic and alcohol related liver disease

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PLENARY SESSION

12:15-13:15

SFI General Assembly

Amphi. Gaston Berger - Level S2

13:15-14:15

Lunch - Coffee - Visit of exhibition & Posters

Foyers - Levels S1-S2-S3

PARALLEL SESSIONS

14:15-15:45

SP21 - Antibodies Club

Salle Louis Armand Ouest - Level S3

Chairs: Delphine SCALBERT-STERLIN (Paris, France) & Guy GOROCHOV (Paris, France)

- **Matthieu MAHEVAS** (*Autoimmune and B cells immune response, Necker Hospital for Sick Children, Paris, France*)
Autoimmune B cell response against type I interferons
- **Salomé PINHO** (*i3S, Porto, Portugal*)
Changes in the glycosylation of circulating IgG predict future Crohn's Disease onset: impact in disease immunopathogenesis

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Short oral presentations

- **SP21-55 - Edouard LEVEQUE** (*Asthme, Allergie et Immunothérapie, Institut Toulousain des Maladies Infectieuses et Inflammatoires, Toulouse, France*)
Development of a fully human anti-SARS-Cov2 broadly neutralizing mAb using tonsil organoids
- **SP21-56 - Martin JUNGBAUER-GROZNICA** (*Antiviral Activities of Antibodies Group, Institut Pasteur, Université Paris Cité, CNRS UMR3569, Paris, France*)
Complement Mitigates Neutralization Resistance of SARS-CoV-2 Variants
- **SP21-57 - Sarah MARCHAND** (*Center for Research in Transplantation and Translational Immunology, UMR 1064, Nantes Université, INSERM, Nantes, France*)
BKPvV B cell repertoire analysis and broadly neutralizing antibody identification in kidney transplant recipients

14:15-15:45

SP22 - Immunotherapy Club

Amphi. Gaston Berger - Level S2

Chairs: Makoto MIYARA (Paris, France) & Jacques NUNÈS (Marseille, France)

- **Ricardo GRIESHABER-BOUYER** (*University Hospital Erlangen, Germany*)
CAR T cell therapy and T cell engager therapy to reset the B cell compartment in autoimmune disease
- **Monica CASUCCI** (*San Raffaele Research Institute, Milan, Italy*)
Advancing CAR-T therapy in solid tumors: a novel product for CRC and glycosylation blockade to enhance efficacy

*Short oral presentations*

- **SP22-58 - Audrey MERIENNE** (*UMR 1302 Inserm, Immunology and New Concepts in ImmunoTherapy (INCIT), Nantes, France*)
Efficient killing of TAP1-deficient colorectal cancer cells by infiltrating tumor CD8 T lymphocytes: a promising immunotherapy target
- **SP22-59 - Grégoire STYM-POPPER** (*Eq. You / Mallone, INSERM U1016 - Institut Cochin, Paris, France*)
Therapeutic potential of anti-CD3 and Fc-fused preproinsulin as a combined intranasal immunotherapy for type I diabetes prevention in a pre-clinical mouse model
- **SP22-60 - Camille ROLIN** (*Infection and Immunity, Luxembourg Institute of Health, Esch-Sur-Alzette, Luxembourg*)
Strength in unity: a dual strategy to restore NK cell cytotoxicity against pancreatic ductal adenocarcinoma

14:15-15:45

SP23 - NK-ILCs Club

Salle Louis Armand Est - Level S3

Chairs: Emilie NARNI-MANCINELLI (Marseille, France) & Sébastien VIEL (Lyon)

- **Éric VIVIER** (*Innate lymphoid cells, CIML, Marseille, France*)
On NK cells and other ILCs
- **Camilla JANDUS** (*University of Geneva, Geneva, Switzerland*)
Regulation of human ILCs by micro- and microenvironments

Short oral presentations

- **SP23-61 - Rayan EL-KHOLDI** (*Sanofi Research and Development, Sanofi, Vitry-sur-Seine, France*)
Unraveling the spatial distribution and interactions of NK cell subsets in non-small cell lung cancer tumor using spatial transcriptomics
- **SP23-62 - Oscar HAIGH** (*IMVA-HB/IDMIT/UMR1184 - LIT, Univ. Paris-Saclay, INSERM, CEA, Fontenay-aux-Roses, France*)
Early acute NK-mediated immunity dictates ability of HSV-1 latent reservoirs to reactivate after early WT challenge
- **SP23-63 - Valeria BISIO** (*INSERM U1342, Institut de Recherche Saint-Louis, Paris, France*)
The Mesenchymal Stromal Cells: A hub for NK immune dysregulation in MDS context

PLENARY SESSIONS

15:45-16:30

Closing Keynote Lecture

Amphi. Gaston Berger - Level S2

Chair: Daniel OLIVE - SFI President

EFIS-IL Lecture Award

- **Fiona POWRIE** (*University of Oxford, UK*)
Translating Immunology into new Therapies for Inflammatory Bowel Disease



16:30-17:00

Prize awards & Conclusion