WEDNESDAY 4 NOVEMBER

08:00-09:15 **Meeting registration** *Foyer & Concorde 1&2 - Level -1*

PLENARY SESSIONS

09:15-09:30 **Welcome Introduction** *Audit. Saint-Exupéry - Level 2*

- **Emmanuelle JOUANGUY** - *SFI President*
- **Bruno SILVA-SANTOS** - *SPI President*

09:30-10:15 **Keynote Lecture** *Audit. Saint-Exupéry - Level 2*

Chairs: Roland LIBLAU (Toulouse, France) & **Luis GRACA** (Lisbon, Portugal)

- **Shimon SAKAGUCHI** *(WPI Immunology Frontier Research Center, The University of Osaka, Osaka, Japan)*
  Regulatory T cells and immune tolerance: therapeutic re-establishment of immune self-tolerance in autoimmune disease by targeting Treg cells

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10:15-11:45 **SESSION 1 - NeuroImmunology** *Audit. Saint-Exupéry - Level 2*

Chairs: Julie RIBOT (Lisbon, Portugal) & **Anne ASTIER** (Toulouse, France)

- **Nicolas GAUDENZIO** *(Infinity - Toulouse Institute for Infectious and Inflammatory Diseases, University of Toulouse, Inserm, CNRS, Toulouse, France)*
  A conserved program linking maternal stress to fetal neuroimmune reprogramming
- **Daniela LATORRE** *(Division of Neuroscience, IRCCS San Raffaele Hospital, Milan, Italy)*
  Autoreactive T Cells in inflammatory peripheral neuropathies

Short oral presentations

- **P1-01** - **Lena BOURHY** *(Development and Homeostasis of the Nervous System, The Francis Crick Institute, London, UK)*
  Neural pathways mediating the gut-lung axis CANCELED
- **P1-02 - Nouha SOUFI** *(IPMC, CNRS, Valbonne, Provence-Alpes-Cote d'Azur, France)*
  Splenic nerve stimulation protects against murine experimental autoimmune encephalomyelitis via B cell beta2-adrenergic licensing of Tregs
- **P1-03 - Julien NOVARINO** *(CIMI-PARIS, Paris, France)*
  Cancer-related pain is masked by enkephalins-producing regulatory T cells in mice

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11:45-12:00 **Industry Symposium** *Audit. Saint-Exupéry - Level 2*

Chairs: Marc VOCANSON (Lyon, France) & **Fatima-Ezzahra L'FAQIHI-OLIVE** (Toulouse, France)

- **BD Biosciences**
  Seeing Beyond the Spectrum: Exploring biological dimensions through spectral imaging cytometry
  Laurence DELBOS & **Juliette DESFRANÇOIS** *(Cytocell, Nantes, France)*

12:00-12:36 **Industry Talks** *Audit. Saint-Exupéry - Level 2*

Chairs: Marc VOCANSON (Lyon, France) & **Fatima-Ezzahra L'FAQIHI-OLIVE** (Toulouse, France)

- **Cytek Biosciences**
  A New Horizon: Welcome to the Borealis
  Fabien PITOISET *(PhD, Field Applications Specialist, Cytek Biosciences, Amsterdam, Netherlands)*
- **Meso Scale Discovery** (12-min presentation)
  Pushing the Boundaries of Biomarker Quantification: High Sensitivity, Multiplexing and Matrix Flexibility
  Renaud COLISSON *(Field Application Scientist, Meso Scale Discovery, Rockville, United States)*
- **Pixelgen Technologies**
  Immune Cell Surface Protein Architecture in Health and Disease - Publications and Use Case Update
  Peter DJALI *(Business Development Manager, Pixelgen Technologies, Stockholm, Sweden)*
- **StemCell Technologies**
  Automated Tissue Dissociation with STEMprep™
  Christine BARR *(STEMCELL Technologies, Saint-Egrève, France)*

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- **Alamar Biosciences**
  NULISA: An Ultrasensitive, Multiplex Immune Panel for Profiling Inflammatory and Autoimmune Disease Biomarkers
  Véronique BERCHET *(Alamar Biosciences, Segrate, Italy)*

12:36-14:15 **Lunch - Coffee - Visit of exhibition & Posters** *Foyer & Concorde 1&2 - Level -1*

PARALLEL SESSIONS

14:15-15:45 **PS1 - Macrophages and dendritic cells** *Audit. Saint-Exupéry - Level 2*

Chairs: Sandrine HENRI (Tours, France) & **Nathalie BENDRISS-VERMARE** (Lyon, France)

- **Florent GINHOUX** *(Institut Gustave-Roussy, Villejuif, France)*
- **Ana-Maria LENNON-DUMENIL** *(Institut Curie, PSL Research University, INSERM U932, Paris, France)*
  Crypt Engulfment as a Novel Antigen Sampling Mechanism in the Colon

Short oral presentations

- **PS1-01 - Clara TAFFONI** *(IRMB, INSERM U1183, Montpellier, France)*
  VSIG4 licenses resident synovial macrophages to restrain inflammatory arthritis
- **PS1-02 - Donia SAIB** *(CRCL, INSERM, Lyon, France)*
  Macrophage NOTCH1 signaling in pancreatic cancer: immune and stromal remodeling
- **PS1-03 - Sahar SEYED HASSAN TEHRANI** *(Immunoregulation Lab, Champalimaud Foundation, Champalimaud Centre for the Unknown, Lisbon, Portugal)*
  Infection-specific regulation of cDC2 poiesis shapes dendritic cell subset responses

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14:15-15:45 **PS2 - Inborn errors in immunity** *Ariane 1 - Level 1*

Chairs: Charline MIOT (Angers, France) & **Emmanuel MARTIN** (Paris, France)

- **Paula VIDEIRA** *(UCIBIO - NOVA School of Science and Technology, Universidade NOVA de Lisboa, Caparica, Portugal)*
  GlycoImmune pathways as determinants of immune variability and disease susceptibility
- **Sylvain LATOUR** *(Inserm - Institut Imagine, Paris, France)*
  Inborn errors of immunity predisposing to severe Epstein Barr infection diseases

Short oral presentations

- **PS2-01 - Dimitra BOZOGLOU** *(INFINITy-INSERM, Toulouse, France)*
  Architecture of actin networks at the T-cell synapse: impact of genetic variants in ACTB and ACTG1
- **PS2-02 - Nhat Duong HO** *(Immunogenetics of Pediatric Autoimmune Diseases, Institute Imagine, Paris, France)*
  Paradoxical Type I Interferon Activation in RELA Haploinsufficiency

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14:15-15:45 **PS3 - Vaccinology** *Guillaumet 1+2 - Level 2*

Chairs: Anne-Sophie BEIGNON (Paris, France) & **Jean-Daniel LELIEVRE** (Créteil, France)

- **Laurence ZITVOGEL** *(Institut Gustave-Roussy, Villejuif, France)*
- **Laurent REBER** *(Infinity -Toulouse Institute for Infectious and Inflammatory Diseases, University of Toulouse, Inserm, CNRS, Toulouse, France)*
  Development of therapeutic vaccines for the treatment of allergic diseases

Short oral presentations

- **PS3-01 - Fadel SAYES** *(Unité de Pathogénomique Mycobactérienne Intégrée, Département de Microbiologie, Institut Pasteur, Paris, France)*
  Improved Immune Responses and Tuberculosis Protection by Aerosol Vaccination with rBCG expressing ESX-1 from Mycobacterium marinum
- **PS3-02 - Charlotte HATEB** *(Université Toulouse, INFINITy, Inserm UMR1291, Toulouse, France)*
  Development of an mRNA vaccine encoding the major allergen Bet v 1 to treat birch pollen allergy
- **PS3-03 - Jean-Michel SALLENAVE** *(Immune signaling in cancer and infection, INSERM U1149, Centre for Inflammation Research, Paris, France)*
  A novel cystic fibrosis-mimetic Pseudomonas auxotrophic vaccine is protective *in vivo* and is associated with Th17 and IgA mucosal immunity

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14:15-15:45 **CPS4 - Immunometabolism and its implications for practical medicine** *Cassiopée - Level 1*

Clinical session

Chairs: Guislaine CARCELAIN (Paris, France) & **Olivier TOUTIRAIS** (Caen, France)

- **Antoine MARÇAIS** *(CIRI, Centre International de Recherche en Infectiologie, Université Claude Bernard Lyon 1, Inserm, CNRS, ENS de Lyon, Lyon, France)*
  Metabolic sensors in NK cells: can we move from basic discoveries to clinical applications?
- **Mireille LAFORGE** *(Université Paris Cité, NeuroDiderot, Inserm, Paris, France)*
  Immunometabolism, from diagnosis to treatment: Applications to long COVID and autism spectrum disorders

PARALLEL SESSIONS

15:45-17:15 **PS5 - ILC / NK** *Guillaumet 1+2 - Level 2*

Chairs: Emilie NARNI (Marseille, France) & **Sophie LAFFONT-PRADINES** (Toulouse, France)

- **Sébastien VIEL** *(Centre International de Recherche en Infectiologie, Lyon, France)*
  The TGF-β paradox in NK cells: from immune suppression to context-dependent functional reprogramming
- **Sonja TUGUES** *(Innate Lymphoid Cells and Cancer, Institute of Experimental Immunology, Univ. of Zurich, Zurich, Switzerland)*
  Resident lymphocytes preserve functional integrity of the lactating mammary niche

Short oral presentations

- **PS5-01 - Nathalie BENDRISS-VERMARE** *(CISTAR team, Cancer Research Center of Lyon, Lyon, France)*
  A Polyfunctional IL-33-Responsive ST2$^+$NK Cell State Promotes Antitumor Immunity and Response to Immunotherapy
- **PS5-02 - Juan SIENES BAILO** *(Immunoregulation Unit, Department of Immunology, Institut Pasteur, Université Paris Cité, Paris, France)*
  IL-23 drives a pro-inflammatory state in human group 3 innate lymphoid cells (ILC3)
- **PS5-03 - Mariana CARREIRA** *(Gulbenkian Institute for Molecular Medicine (GIMM), Lisbon, Portugal)*
  CXCR3 signaling promotes Delta One T cell recruitment and antitumor efficacy in colorectal cancer

15:45-17:15 **PS6 - Immunometabolism** *Cassiopée - Level 1*

Chairs: Anne DEJEAN (Toulouse, France) & **Ricardo SILVESTRE** (Braga, Portugal)

- **Ricardo SILVESTRE** *(Life and Health Sciences Research Institute (ICVS), Braga, Portugal)*
  Macrophage immunometabolism: shaping pathogen persistence and host protection
- **Anne DEJEAN** *(Infinity -Toulouse Institute for Infectious and Inflammatory Diseases, University of Toulouse, Inserm, CNRS, Toulouse, France)*
  Eomes drives an exhausted T helper cell lineage essential for tumor control and response to immunotherapy

Short oral presentations

- **PS6-01 - Loane JOLY** *(Laboratoire de Biologie et Modélisation de la Cellule, INSERM, CNRS, ENS-Lyon, Lyon, France)*
  Mitochondrial translation is a critical regulator of CD8 T-cell homeostasis and effector responses
- **PS6-02 - Nicolas SOCQUET-JUGLARD** *(INSERM, INFINITy, Toulouse, France; 2 CNRS, IGMM, Montpellier, France)*
  CD8 T cells adjust actin remodeling to nutrient availability during migration and synapse assembly
- **PS6-03 - Diogo ESTÊVÃO** *(Tumour and Microenvironment Interactions Group, Cancer Department, i3S-Institute for Research & Innovation in Health, Porto, Portugal)*
  Lipid Droplets Shield Rectal Cancer from Radiotherapy-Induced Cell Death: A Metabolic–Immune Axis of Resistance

15:45-17:15 **PS7 - T and B cell development and signaling** *Audit. Saint-Exupéry - Level 2*

Chairs: Marion ESPELI (Paris, France) & **Bruno SILVA-SANTOS** (Lisbon, Portugal)

- **Nuno ALVES** *(i3S - University of Porto, Porto, Portugal)*
  Keeping the Thymus Young: ZFP36 RNA-Binding Proteins Sustain Thymic Epithelial Cell Function to Prevent Thymic Involution and Maintain Tolerance
- **Claire LEIBLER** *(Université de Bordeaux, CNRS, ImmunoConcEpT, Bordeaux, France)*
  B Cell Regulation through Nucleic Acid Sensing TLRs

Short oral presentations

- **PS7-01 - Dunja CAPITÁN SOBRINO** *(INFINITy, INSERM U1291, Toulouse, France)*
  HuR sustains immunoregulatory B-cell responses to limit neuroinflammation

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- **PS7-02 - Guilhèn PRUNIER** *(INFINITy, INSERM, Toulouse, France)*
  ICOS, CD226 and CD2 engage non-redundant synapse remodeling programs to optimize CD8+ T cell cytotoxic activity
- **PS7-03 - Ruben PINHEIRO** *(GIMM, Lisboa, Portugal)*
  N-glycosylation controls the thymic development of perinatal gd17 T-cells by dampening TCRgd signal strength

17:15-18:00 **Coffee break - Visit of exhibition & Posters** *Foyer & Concorde 1&2 - Level -1*

PARALLEL SESSIONS

18:00-19:30 **PS8 - Ageing** *Guillaumet 1+2 - Level 2*

Chairs: Nuno ALVES (Porto, Portugal) & **Victorine DOUIN** (Toulouse, France)

- **François TROTTEIN** *(Institut Pasteur, Lille, France)*
  Aging and respiratory infections: cellular senescence, gut dysbiosis, and beyond
- **Almudena RAMIRO** *(CNIC - Spanish National Center for Cardiovascular Research, Madrid, Spain)*
  Understanding the origin of autoreactive antbodies in atherosclerosis

Short oral presentations

- **PS8-01 - David CUNE** *(Service of Immunology and Allergy, Lausanne University Hospital, Lausanne, Switzerland)*
  Autophagy loss in dendritic cells drives inflammatory reprogramming and CD4⁺ T-cell dysregulation during aging
- **PS8-02 - João CARDEIRA DA SILVA** *(RESTORE Institute, Toulouse, France)*
  T-cell programs shaping post-injury outcomes in the zebrafish heart
- **PS8-03 - Inês FARIA** *(Instituto de Investigação e Inovação em Saúde (i3S), Porto, Portugal)*
  Chronic exposure to interleukin-10 drives inflammaging and accelerated tissue senescence

18:00-19:30 **PS9 - Young SPI / SFI** *Cassiopée - Level 1*

Chairs: Fanny HIDALGO VILLEDA (Marseille, France), **Maria LTEIF** (Paris, France), **Catarina RODRIGUES** (Porto, Portugal) & **Rita SILVA-GOMES** (Lisbon, Portugal)

- **Carlos MINUTTI** *(Champalimaud Foundation, Lisbon, Portugal)*
  The Academic Path: The Bad, the Good, and the Pretty

18:00-19:30 **PS10 - Autoimmunity and inflammatory diseases** *Audit. Saint-Exupéry - Level 2*

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

- **Thomas KORN** *(Institute for Experimental Neuroimmunology, Technical University of Munich School of Medicine, Munich, Germany)*
  Compartmentalized regulation of CNS autoimmunity
- **Rejane RUA** *(Center for Immunology of Marseille-Luminy (CIML), Marseille, France)*
  Brain border myeloid cells: more than immune sentinels?

EMBO

Short oral presentations

- **PS10-01 - Inês ALVES** *(Immunology, Cancer and Glycomedicine, i3S - Instituto de Investigação e Inovação Saude, Porto, Portugal)*
  Glycan mimicry as a key mechanism in the loss of self-tolerance: deciphering novel anti-glycan autoantibodies in lupus
- **PS10-02 - Angélina MIMOUN** *(Infinity U1291, INSERM, Toulouse, France)*
  Eomes Reprograms FoxP3⁺ Regulatory T Cells toward a Cytotoxic and Pro-inflammatory State
- **PS10-03 - Yves-Marie MAGAT** *(UMR7355, CNRS, Orléans, France)*
  NLRP6 promotes inflammation and regulated cell death through activation of the caspase-3/gasdermin E pathway in bleomycin-induced pulmonary fibrosis

19:30 **POSTER SESSION 1 - odd-numbered** *Foyer & Concorde 1&2 - Level -1*

19:30 **Wine & Cheese** *Foyer & Concorde 1&2 - Level -1*

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THURSDAY 5 NOVEMBER

PARALLEL SESSIONS

08:30-10:00 **PS11 - Innate T cells** *Ariane 1 - Level 1*

Chairs: Maria LEITE DE MORAES (Paris, France) & **Julie DÉCHANET-MERVILLE** (Bordeaux, France)

- **Graham OGG** *(University of Oxford, Oxford, United Kingdom)*
  CD1a-reactive T cells and lipid antigens in inflammatory skin diseases: discovery and translation
- **Agnès LEHUEN** *(Institut Cochin, INSERM U1016, UMR 8104, Paris, France)*
  MAIT cells in autoimmune and infectious diseases

Short oral presentations

- **PS11-01 - Youenn JOUAN** *(INSERM U1100, Université de Tours, Tours, Indre et Loire, France)*
  MAIT cells promote lung resilience during severe viral pneumonia by maintaining myeloid balance
- **PS11-02 - Camille KERGARAVAT** *(Saint Louis Research Institute, Paris, France)*
  Developmental waves and genetic regulation of the Human γδ T-cell repertoire
- **PS11-03 - Juan SIENES BAILO** *(Immunoregulation Unit, Dpt of Immunology, Institut Pasteur, Univ. Paris Cité, Paris, France)*
  IL-23 regulates the non-canonical NF-kB pathway in human invariant Natural Killer T (iNKT) cells

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08:30-10:00 **PS12 - Women's health/sex bias in immunity** *Guillaumet 1+2 - Level 2*

Chairs: Ricardo SILVESTRE (Braga, Portugal) & **Anne ASTIER** (Toulouse, France)

- **Nils LANDEGREN** *(Uppsala University, Sweden)*
  Understanding sex differences in human immunity through gender-affirming hormone therapy
- **Sophie LAFFONT-PRADINES** *(Infinity -Toulouse Institute for Infectious and Inflammatory Diseases, University of Toulouse, Inserm, CNRS, Toulouse, France)*
  Hormonal regulation of ILC: consequences on lung immunity

Short oral presentations

- **PS12-01 - Léa FERRAYÉ** *(Toulouse Institute for Infectious and Inflammatory Diseases, Toulouse, France)*
  Tlr7 bi-allelism shapes pathogenic female B cell responses in lupus
- **PS12-02 - Aymeline DEBONLIER** *(INFINITy, Toulouse, France)*
  PI3K/AKT signaling controls sex bias in Tr1 cells and their response to vitamin D
- **PS12-03 - Hélène VANTOMME** *(i3 laboratory, Sorbonne University, Paris, France)*
  Sex-associated differences in human thymic TCR selection

08:30-10:00 **PS13 - T and B cell memory** *Audit. Saint-Exupéry - Level 2*

Chairs: Marion ESPELI (Paris, France) & **Klaas VAN GISBERGEN** (Lisbon, Portugal)

- **Klaas VAN GISBERGEN** *(Champalimaud Foundation, Lisbon, Portugal)*
  T cell diversification in infection and cancer
- **Christina ZIELINSKI** *(University of Cambridge, United Kingdom)*
  TGF-β restricts GSDME-mediated IL-1α Release by Th17 cells to license them for enhanced pathogenicity

Short oral presentations

- **PS13-01 - Maria KERIDON** *(Physiology and Cancer Department, Champalimaud Foundation, Lisbon, Portugal)*
  Clearance of tumor antigen governs the differentiation of bona fide CD8+ tissue-resident memory T cells
- **PS13-02 - Marc VOCANSON** *(Team EIA, Centre International de Recherche en Infectiologie, Lyon, France)*
  Progressive remodeling of pathogenic skin resident memory T cell subsets shapes long-term allergic memory
- **PS13-03 - Andrea PICHLER** *(INFINITY, Toulouse, Midi-Pyrénées, France)*
  PI3Kd promotes T cell effector differentiation during chronic infection

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08:30-10:00 **CPS14 - CAR-T cells in autoimmune diseases** *Cassiopée - Level 1*

Clinical session

Chairs: Roland LIBLAU (Toulouse, France) **& Sébastien VIEL** (Lyon, France)

- **Maxime TEISSEYRE** *(Université Côte d'Azur, CNRS, INSERM, IRCAN, Nice, France)*
  CAR-T cell therapy for refractory autoimmune diseases

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- **Maurine JOURET** *(Pediatric Nephrology, Rheumatology, Dermatology Unit, Hospices Civils de Lyon, Lyon, France)*
  CAR-T cell therapy for juvenile-onset autoimmune diseases: a promising future?

10:00-10:45 **Coffee break - Visit of exhibition & Posters** ***Foyer & Concorde 1&2*** *- Level -1*

PLENARY SESSIONS

10:45-12:15 **SESSION 2 - Host-pathogen interactions** ***Audit. Saint-Exupéry*** *- Level 2*

Chairs: Ricardo SILVESTRE (Braga, Portugal) & **Emmanuelle JOUANGUY** (Paris, France)

- **Judi ALLEN** *(Wellcome Centre for Cell-Matrix Research, Lydia Becker Institute for Immunology & Infection, University of Manchester, Manchester, United Kingdom)*
  Immune regulation of the extracellular matrix: at the crossroads of host protection and pathology
- **Etienne MEUNIER** *(Institut de Pharmacologie et de Biologie Structurale, IPBS, Univ. de Toulouse, CNRS, UPS, Toulouse, France)*
  The NLRP1 inflammasome: Scanning the borders

Short oral presentations

- **P2-01 - Vasco RODRIGUES** *(INSERM U932, Institut Curie, Paris, Île-de-France, France)*
  Constitutive macropinocytosis is coupled with reduced rates of protein synthesis to confer intrinsic protection against viral replication in macrophages
- **P2-02 - Léa FROMONT** *(IPBS, Toulouse, France)*
  LiveLung-TB: Intravital imaging reveals $CD4^+$ T-cell dynamics during pulmonary Mycobacterium tuberculosis infection
- **P2-03 - Rute Daniela MATOS GONÇALVES** *(i3s - Instituto de Investigação e Inovação em Saúde, Porto, Portugal)*
  Mycobacterium tuberculosis isolates modulate levels of protective IL-1β *in vivo* accounting for disease severity

12:15-12:30 **Industry Symposium** ***Audit. Saint-Exupéry*** *- Level 2*

Chairs: Nicolas FAZILLEAU (Toulouse, France) & **Emmanuelle JOUANGUY** (Paris, France)

- **Sony**
  Clone War: Performance and Interoperability of Two ID7000 Spectral Flow Cytometers
  Hugo GARNIER *(Ingénieur d'Études, Plateau Technique de Cytométrie et Tri Cellulaire, Institut Toulousain des Maladies Infectieuses et Inflammatoires (Infinity), Toulouse, France)*

12:30-12:42 **Industry Talks** ***Audit. Saint-Exupéry*** *- Level 2*

Chairs: Nicolas FAZILLEAU (Toulouse, France) & **Emmanuelle JOUANGUY** (Paris, France)

- **CeGaT**
  Connecting the Pieces of the Immune Response: From T-cell repertoires to cells, tissues and proteins
  Lara EL BAZZAL *(CeGaT, Tuebingen, Germany)*
- **Agilent Technologies**
  Complementary technologies for your fundamental, applied and medical research in immunology/immuno-therapy/immuno-oncology
  Jerome DARAKDJIAN *(Agilent Technologies, Les Ulis, France)*

12:42-14:15 **Lunch - Coffee - Visit of exhibition & Posters** ***Foyer & Concorde 1&2*** *- Level -1*

13:30-14:15 **POSTER SESSION 2 - even-numbered** ***Foyer & Concorde 1&2*** *- Level -1*

PARALLEL SESSIONS

14:15-15:45 **PS15 - Neutrophils** ***Guillaumet 1+2*** *- Level 2*

Chairs: Véronique WITKO (Paris, France) & **Patrice DECKER** (Paris, France)

- **Triantafyllos CHAVAKIS** *(Institute for Clinical Chemistry and Laboratory Medicine, University Hospital and Faculty of Medicine, Dresden, Germany)*
  Trained granulopoiesis in cancer
- **Véronique WITKO** *(Institut Cochin, Paris, France)*
  Proliferating Cell Nuclear Antigen (PCNA): a central signalling scaffold orchestrating neutrophil plasticity in inflammation

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Short oral presentations

- **PS15-01 - Camille DANNE** *(UMRS938, Paris, France)*
  The microbiota-derived metabolite Metab1 prevents neutrophil activation by inducing metabolic quiescence
- **PS15-02 - Patrice DECKER** *(University Sorbonne Paris Nord, Bobigny, France)*
  NETs from rheumatoid arthritis patients trigger a pro-inflammatory response in monocytes through metabolic mechanisms and modulate macrophage differentiation
- **PS15-03 - Aya CHAMAA** *(T-RAIG, TIMC, La Tronche, France)*
  Role of neutrophils in Chlamydia driven Reactive arthritis in the SKG mouse

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14:15-15:45 **PS16 - Gene and cell therapy** — ***Audit. Saint-Exupéry*** *- Level 2*

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

- **Makoto MIYARA** *(Immunology Department, INSERM, Centre d'Immunologie et des Maladies Infectieuses (CIMI), AP-HP, Sorbonne Université, Hôpital Pitié-Salpêtrière, Paris, France)*
  Human Treg cell therapies for transplantation
- **Alena GROS** *(Vall d'Hebron Institute of Oncology (VHIO), Tumor Immunology & Immunotherapy Group, Barcelona, Spain)*
  Personalized T-cell therapies for solid cancers

Short oral presentations

- **PS16-01 - Sofia MENSURADO** *(Gulbenkian Institute for Molecular Medicine, Lisbon, Portugal)*
  Allogeneic CARγδT-cells recognize CD33 and PVR to target Acute Myeloid Leukemia and suppress tumor progression
- **PS16-02 - Mariana GADELHO GONÇALVES** *(Immune Cell Reprogramming Lab., Centre for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal)*
  A 'Sense-and-Reprogram' Platform for Systemic Cancer Immunotherapy
- **PS16-03 - Annemarie FORTUIN** *(Team 3 - Institute for Regenerative Medicine and Biotherapy, Montpellier, France)*
  Engineering Regulatory T Cells For Rheumatoid Arthritis: Development and Evaluation of CAR Constructs

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14:15-15:45 **PS17 - Germinal Center** — ***Cassiopée*** *- Level 1*

Chairs: Amélie BONAUD (Limoges, France) & **Fréderic MOURCIN** (Rennes, France)

- **Mauro GAYA** *(Center for Immunology of Marseille-Luminy (CIML), Marseille, France)*
  The lung stroma sustains a plasma cell niche for long-term mucosal protection against infection
- **Carole LE COZ** *(Infinity, Toulouse, France)*
  T Follicular Regulatory Cell Homeostasis at the Crossroads of Germinal Center Dysfunction

Short oral presentations

- **PS17-01 - Raphaël JEGER-MADIOT** *(INSERM U1151/CNRS UMR 8253, Université Paris Cité, Institut Necker Enfants Malades, Paris, France)*
  Modeling memory B cell responses in spleen-derived immune organoids
- **PS17-02 - Maya POLKOTYCKI** *(INFINITY U1291 INSERM, Toulouse, France)*
  Type 3 inflammation shapes the Follicular Regulatory T cells (Tfr) into a Tfr17 polarized subset
- **PS17-03 - Audrey AKESSE** *(Control of the immune response B and lymphoproliferation, CNRS UMR 7276, INSERM, University of Limoges, Limoges, France)*
  Plasma cell heterogeneity is imprinted by the type of immune challenge

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14:15-15:45 **CPS18 - Xenotransplantation** — ***Ariane 1*** *- Level 1*

Clinical session

Chairs: Alice KOENIG (Lyon, France) & **Julien ZUBER** (Paris, France)

- **Olivier THAUNAT** *(CIRI, INSERM, Université Claude Bernard Lyon I, CNRS, École Normale Supérieure de Lyon, Université de Lyon, Lyon, France)*
  Breaking Barriers Across Species: The Immunopathological Frontiers of Xenotransplantation
- **Aurélie SANNIER** *(Hôpital Bichat - Claude-Bernard, Paris, France)*
  Lessons from the First Human Xenotransplants

15:45-16:30 **Coffee break - Visit of exhibition & Posters** — ***Foyer & Concorde 1&2*** *- Level -1*

PARALLEL SESSIONS

16:30-18:00 **PS19 - Mast cells / Basophils** *Guillaumet 1+2 - Level 2*

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

- **Sebastien TALBOT** *(Department of Physiology and Pharmacology, Karolinska Institutet, Stockholm, Sweden)*
  Nociceptor neurons control inflammation
- **Clare LLOYD** *(National Heart and Lung Institute, Imperial College London, London, United Kingdom)*
  It's all about the neighbourhood: regulation of immunity in the allergic lung

Short oral presentations

- **PS19-01 - Céline EL SAMROUT** *(Infinity, INSERM, Toulouse, France; 2 IRSD, INSERM, Toulouse, France)*
  Non-immune function of myenteric mast cells in supporting neuronal plexus homeostasis
- **PS19-02 - Geoffrey CHEMINET** *(Hematology Laboratory, Imagine Institute for Genetic Diseases - U1163 INSERM, Paris, France)*
  Role of mast cells in bone vaso-occlusive crisis and pain of sickle cell disease
- **PS19-03 - Zohra BENMESSAOUD** *(INSERM UMR1291 – CNRS UMR5051 - University Toulouse III, Infinity, Toulouse, France)*
  A new mouse model expressing human IgE and its receptors FcεRI and CD23 predicts a superiority for ligelizumab over omalizumab in anaphylaxis

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16:30-18:00 **PS20 - Mucosal immunology** *Cassiopée - Level 1*

Chairs: Klaas VAN GISBERGEN (Lisbon, Portugal) & **Olivier NEYROLLES** (Toulouse, France)

- **Nicole JOLLER** *(Department of Quantitative Biomedicine, University of Zurich, Zurich, Switzerland)*
  Fungal infections imprint the Th17 pool by establishing a distinct memory Th17 population
- **Andreas DIEFENBACH** *(Laboratory of Innate Immunity, Institute of Microbiology, Infectious Diseases and Immunology (I-MIDI), Berlin, Germany)*
  Regulation of functional adaptation of tissues by innate lymphoid cells

Short oral presentations

- **PS20-01 - Margaux PARADIS** *(IPBS - CNRS, Toulouse, France)*
  A TAK1-Driven NLRP1 Inflammasome Pathway Revealed by Phosphatase Targeting Environmental Toxins
- **PS20-02 - Fabian GUENDEL** *(Microenvironment and Immunity Unit, Institut Pasteur, Paris, France)*
  The Postnatal Stress Response Drives Long-Term Maladaptation of the Intestinal Epithelium via TLR3/TRIF Epigenetic Memory
- **PS20-03 - Ignacio CABALLERO POSADAS** *(INRAE, Toxalim, Toulouse, France)*
  TLR5 signaling amplifies airway epithelial cell responses to type I interferon through MyD88–JAK1 crosstalk during influenza infection in pigs

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16:30-18:00 **PS21 - Tissue homeostasis and dynamics** *Audit. Saint-Exupéry - Level 2*

Chairs: Julie RIBOT (Lisbon, Portugal) & **Meryem ALOULOU** (Toulouse, France)

- **Julie RIBOT** *(Gulbenkian Institute for Molecular Medicine (GIMM), Lisbon, Portugal)*
  Stressing the role of γδ17 T cells at the crossroads of tissue communication and pathophysiology
- **Karl BALABANIAN** *(Université Paris Cité, Institut de Recherche Saint-Louis, INSERM, Paris, France)*
  CXCR4 signaling, a gatekeeper orchestrating the bone marrow ecosystem

Short oral presentations

- **PS21-01 - Miguel MESQUITA** *(Gulbenkian Institute for Molecular Medicine (GIMM), Avenida Professor Egas Moniz, Oeiras, Portugal)*
  Ferroptosis is a Physiologic Vulnerability of Iron-Recycling Macrophages
- **PS21-02 - Dan CORRAL** *(INFINITY, Toulouse, France)*
  Let it flow: Maternal immune regulation of lactation
- **PS21-03 - Chloé MICHAUDEL** *(MTS - LIAA, INRAE, Gif sur Yvette Cedex, France)*
  Low-dose perinatal pesticide exposure reprograms immune development in male offspring and increases susceptibility to type-2 airway inflammation

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16:30-18:00 **CPS22 - CEnI General Assembly** **Clinical session** CEnI Collège des Enseignants d'Immunologie *Ariane 1 - Level 1*

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PLENARY SESSION

18:00-19:30 **SESSION 3 - Young investigators** *Audit. Saint-Exupéry - Level 2*

Chairs: Marie-Astrid BOUTET (Nantes, France)**, Joaquin PELLEGRINI** (Toulouse, France)**,**
Mehdi BENAMAR (Montpellier, France)**, Catarina AZEVEDO** (Porto, Portugal) & **Inês ALVES (Porto, Portugal)**

- **Thomas MARICHAL** *(GIGA Institute, University of Liège, Liège, Belgium)*
  A deep dive into the biology of lung macrophages in health and disease

Short oral presentations

- **P3-01 - Camille CHATELAIN** *(Division of Immuno-oncology, Lund Stem Cell Center, Lund University, Lund, Sweden)*
  Inducing immunogenic lymphoid structures across cancers by tumor-to-dendritic cell reprogramming
- **P3-02 - Ana Carolina VALENTE SANTOS CRUZ DE ARAUJO** *(Department of Immunology, University of São Paulo, São Paulo, São Paulo, Brazil)*
  HIF-1α licenses BCG-induced trained immunity to promote pulmonary and systemic protection against Brucella abortus infection
- **P3-03 - Tomás MACHADO** *(University of Coimbra, Center for Innovative Biomedicine and Biotechnology, Center for Neuroscience and Cell Biology, Cantanhede, Coimbra, Portugal)*
  Retinoic acid modulates invariant Natural Killer T cell development and function in colon cancer

20:00 **Congress Dinner** *Les Espaces Vanel*

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FRIDAY 6 NOVEMBER

PLENARY SESSION

08:30-10:00 **SESSION 4 - Tumor immunity** *Audit. Saint-Exupéry - Level 2*

Chairs: Bruno SILVA-SANTOS (Lisbon, Portugal) & **Fabienne HASPOT** (Nantes, France)

- **Bruno SILVA-SANTOS** *(Gulbenkian Institute for Molecular Medicine (GIMM), Lisbon, Portugal)*
  Harnessing gamma-delta T cells for cancer immunotherapy
- **Marisol SOENGAS** *(Melanoma Laboratory, Molecular Oncology Programme, Spanish National Cancer Research Centre (CNIO), Madrid, Spain)*

Short oral presentations

- **P4-01 - YLan BLANCHARD** *(Centre de Recherches en Cancérologie de Toulouse (CRCT), Toulouse, France)*
  Role of intestinal CD8 T cells in the control of colorectal cancer metastases
- **P4-02 - Alexandre LANAU** *(U1330 - Children's Oncology Research Unit, Institut Curie, Paris, France)*
  "Nature vs Nurture" : Understanding How TCR-pMHC history shapes T cell fate during polyclonal response in solid tumors
- **P4-03 - Yenkel GRINBERG-BLEYER** *(Cancer Research Center of Lyon, Lyon, France)*
  NF-kappaB transcription factor c-Rel governs CD8+ T-cell function in cancer

10:00-10:45 **Coffee break - Visit of exhibition & Posters** *Foyer & Concorde 1&2 - Level -1*

PARALLEL SESSIONS

10:45-12:15 **PS23 - Immunotherapy** *Audit. Saint-Exupéry - Level 2*

Chairs: Michel COGNÉ (Rennes, France) & **Nicolas FAZILLEAU** (Toulouse, France)

- **Karin TARTE** *(Inserm, Unité Mixte de Recherche U1236, Université Rennes, EFS, Rennes, France)*
  Is immunotherapy-mediated B-cell depletion the most relevant strategy in autoimmune disease and lymphoma?
- **Bruno SÉGUI** *(INSERM UMR 1037, Cancer Research Center of Toulouse (CRCT), Toulouse, France)*
  TNF blockade with certolizumab improves the efficacy of anti-PD-1 and anti-CTLA-4 combination therapy for melanoma

Short oral presentations

- **PS23-01 - Dalil HANNANI** *(T-RAIG Team - Grenoble Faculty of Medicine - CNRS UMR 5525, TIMC Laboratory, Grenoble, France)*
  Circulating Metabolites Link Gut Microbiota Composition to Clinical Outcomes under Immune Checkpoint Inhibitors in NSCLC
- **PS23-02 - Samad MOHAMMADNEZHADDARYANI** *(U981, Gustave Roussy, Villejuif, France)*
  eIF4F targeting rewires T cell exhaustion and overcomes immunotherapy resistance
- **PS23-03 - Alex PRIGENT** *(Endothelial Cells in Immunity, Inflammation and Cancer, IPBS, CNRS, Toulouse, France)*
  High endothelial venules mediate B cell entry into tumors and tertiary lymphoid structures during PD-1 plus CTLA-4 immunotherapy

10:45-12:15 **PS24 - Glycoimmunology** *Guillaumet 1+2 - Level 2*

Chairs: Salomé PINHO (Porto, Portugal) & **Anne ASTIER** (Toulouse, France)

- **Salomé PINHO** *(i3S - University of Porto, Porto, Portugal)*
  Turning Sweet in Immunity: glycans as master regulators of immune response in chronic inflammation, autoimmunity and cancer
- **Heinz LÄUBLI** *(University of Basel, Basel, Switzerland)*
  Local glycan engineering induces systemic antitumor immune reactions via antigen cross-presentation

Short oral presentations

- **PS24-01 - Yoann ROMBOUTS** *(Univ Toulouse, CNRS, IPBS, Toulouse, France)*
  Polysialylation governs inflammatory monocyte egress from the bone marrow
- **PS24-02 - Beatriz SANTOS-PEREIRA** *(Institute for Research and Innovation in Health (i3S), Porto, Portugal)*
  Complex branched glycosylation as a key regulator of type-3/γδT17 response associated with autoimmunity
- **PS24-03 - Léna ANDRIEUX** *(INFINITy, INSERM UMR1291, Toulouse, France)*
  Role of IgE glycosylation in allergic diseases

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10:45-12:15 **PS25 - Tolerance and Transplantation** *Cassiopée - Level 1*

Chairs: Meryem ALOULOU (Toulouse, France) & **Mathieu CHEVALIER** (Paris, France)

- **Carole GUILLONNEAU** *(Nantes Université, CHU Nantes, INSERM, Center for Research in Transplantation and Translational Immunology, Nantes, France)*
  CD8+ Treg cell therapy in Transplantation and Autoimmunity: from a novel concept to a clinical reality
- **Julien ZUBER** *(Université Paris Cité, INSERM U1151, CNRS 8253, Institut Necker Enfants Malades, Paris, France)*
  Challenges and strategies for translating transplant tolerance into clinical practice

Short oral presentations

- **PS25-01 - Mael SEITE** *(Mononuclear phagocytes, Immunopathology, Immunovirology, Center for Research in Transplantation and Translational Immunology, Nantes, France)*
  Autologous Tolerogenic Dendritic Cells Promote Treg Induction through Lactate Secretion
- **PS25-02 - Sahil ADRIOUCH** *(University Rouen Normandie, INSERM, Normandie University, Rouen, France)*
  Nanoparticles targeting liver sinusoidal endothelial cells improve AAV gene transfer and promote tolerance-spreading to capsid and transgene epitopes
- **PS25-03 - Alice KOENIG** *(INSERM U 1111, Lyon, France)*
  IRE1α-XBP1 inhibitors: a promising approach to treat chronic vascular rejection after organ transplantation

PLENARY SESSION

12:15-13:15 **SFI General Assembly** *Audit. Saint-Exupéry - Level 2*

13:15-14:15 **Lunch - Coffee - Visit of exhibition & Posters** *Foyer & Concorde 1&2 - Level -1*

PARALLEL SESSIONS

14:15-15:45 **PS26 - Environmental cues and microbiota** *Guillaumet 1+2 - Level 2*

Chairs: Dalil HANNANI (Grenoble, France) & **Ilana GABANYI** (Oeiras, Portugal)

- **Thomas GENSOLLEN** *(Institut de Pharmacologie et de Biologie Structurale, IPBS, Université de Toulouse, CNRS, UPS, Toulouse, France)*
  Early-life *Wnt*4 expressing colon stromal cells orchestrate lifelong mucosal homeostasis via BMP-driven iNKT cell imprinting
- **Ilana GABANYI** *(Gulbenkian Institute for Molecular Medicine (GIMM), Lisbon, Portugal)*
  Neuronal responses to bacterial signals: the influence of sex hormones

Short oral presentations

- **PS26-01 - Fikir ASFAW** *(Gulbenkian Institute for Molecular Medicine (GIMM), Lisboa, Portugal)*
  IL-17 regulates peripheral nerve regeneration in a microbiota dependent manner
- **PS26-02 - Rodrigo DE OLIVEIRA FORMIGA** *(CRSA, Inserm U938, Sorbonne Université, Paris, France)*
  Gut Microbiota Regulates Host Immune Bioenergetics - Role of Proline Metabolism In Monocytes Phenotype
- **PS26-03 - Nicolas BOULADOUX** *(Department of Immunology / Metaorganism Unit, Institut Pasteur, Paris, France)*
  Deciphering the crosstalk between skin commensals and the immune system

14:15-15:45 **PS27 - System and spatial immunology** *Audit. Saint-Exupéry - Level 2*

Chairs: Nicolas FAZILLEAU (Toulouse, France) & **Luis GRACA** (Lisbon, Portugal)

- **Luis GRACA** *(Gulbenkian Institute for Molecular Medicine (GIMM), Lisbon, Portugal)*
  Regulation of humoral responses in health and disease
- **Vera PANCALDI** *(INSERM UMR 1037, Cancer Research Center of Toulouse (CRCT), Toulouse, France)*
  Systems approaches to describe and simulate the tumour microenvironment

Short oral presentations

- **PS27-01 - Fanny LAFOURESSE** *(UMR1037 Inserm - UMR 5071 CNRS - Université de Toulouse, CRCT, Toulouse, France)*
  Spatial characterization of CD8⁺ TRM heterogeneity within B-cell aggregates and tertiary lymphoid structures in triple-negative breast cancer
- **PS27-02 - Miguel MENDES FERREIRA** *(Department of Pathology, Leiden University Medical Center (LUMC), Leiden, Netherlands)*
  Single cell spatial profiling of immune contextures in MMRd colorectal cancer reveals distinct microenvironments associated with HLA-class-I loss

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- **PS27-03 - Keerthi KURMA** *(Laboratoire Cellules Circulantes Rares Humaines, Centre Hospitalier Universitaire de Montpellier, Montpellier, France)*
  Liquid biopsy reveals the immune status and protein profiles linked to CTC burden and clinical outcomes in metastatic breast cancer

14:15-15:45 **PS28 - Antibody** ***Cassiopée*** *- Level 1*

Chairs: Guy GOROCHOV (Paris, France) & **Maria DEL MAR NARANJO GOMEZ** (Montpellier, France)

- **João GONÇALVES** *(Faculdade de Farmácia da Universidade de Lisboa, Lisbon, Portugal)*
  Protein Engineering and Synthetic Biology: New Strategies for Therapeutic Antibody Development
- **Nadia DUARTE** *(Instituto de Biologia Experimental e Tecnológica (iBET), Oeiras, Portugal)*
  Generation of versatile tumour target cell lines using the SpyCatcher/SpyTag system to evaluate antibody-based immunotherapies

Short oral presentations

- **PS28-01 - Stella ROUSSET** *(IPBS, CNRS / University of Toulouse, Toulouse, France)*
  Targeting the C-type lectin receptor DCIR using synthetic single-domain antibodies: a promising strategy for immune modulation in tuberculosis and beyond
- **PS28-02 - Stéphane PINHAL** *(Bruker Dynamic Biosensors, München, Germany)*
  Integrated Biophysical Analysis of Fc–FcR Binding, Affinity, and Avidity in Antibody Therapeutics
- **PS28-03 - Antoine PRAITÉ** *(CRIBL laboratory - UMR CNRS7276 - INSERM U1262, Limoges, France)*
  A comprehensive, transcriptome-wide overview of post-transcriptional control of plasma cell differentiation

PLENARY SESSIONS

15:45-16:30 **Closing Keynote Lecture** ***Audit. Saint-Exupéry*** *- Level 2*

Chairs: Nicolas FAZILLEAU (Toulouse, France) & **Andrea PICHLER** (Toulouse, France)

- **Pamela SCHWARTZBERG** *(Laboratory of Immune System Biology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA)*
  Integrating T cells Signals: Lessons from Primary Immunodeficiencies and Tfh cells

16:30-17:00 **Prize awards & Conclusion**

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