

## Immune systems diversity

Last name	First name	Title of poster	# poster
AZARIAS DA SILVA	Marne	Humoral response against SARS-CoV-2 in different clinical presentations - antibody production and quality	P01
BASSO	Lilian	Identification of long-lived neuronal plexus mast cells critical for gut contraction amplitude	P02
MECHI	Fatma	Frequency of anti phospholipid antibodies in adults with active celiac disease	P03
		Serologic Screening for coeliac disease in adult patients with rheumatoid arthritis	P04
		Anti parietal cell antibodies in autoimmune thyroid diseases patients	P05
SAINT-ANDRÉ	Violaine	Smoking affects innate and adaptive immune responses with persistent effects on adaptive immunity	P06

## Neutrophil Club - Neutrophil facing virus

Last name	First name	Title of poster	# poster
CHEAT	Banndith	Role of NLRP3 inflammasome in periodontitis: Friend or Foe?	O1-P07
PEREIRA ABRANTES	Manuela	Identification of a novel tumor-associated neutrophil subtype expressing the EpCAM epithelial marker	O2-P08
DE OLIVEIRA FORMIGA	Rodrigo	Targeting host neuraminidases for the regulation of neutrophils function during systemic inflammation	O3-P09
CHOLLET	Stecy	Immature granulocyte altered oxidative burst induces bacterial SOS response	P10
HAÏDAR AHMAD	Ahmad	Neutrophil Extracellular Traps trigger polyclonal activation of naïve human B lymphocytes independently of antigen specificity	P11
HALSE	Heloise	Liver-infiltrating Neutrophils correlate with altered immune landscape and poor histopathological response to chemotherapy in colorectal cancer liver metastases	P12
LOYER	Chloé	Impairment of neutrophil functions and homeostasis in COVID-19 patients: Association with disease severity	P13
PICARD	Morgane	A Flow Cytometric NoNo Assay Reveals Leishmania infection of myeloid cells	P14

## Antibody Club

Last name	First name	Title of poster	# poster
NGUYEN	Ngoc Khanh	Characterization of BK-specific monoclonal antibodies in kidney transplant recipients after BK polyomavirus reactivation	O4-P15
PLANAS	Delphine	Comparison of neutralizing antibodies induced by Pfizer, AstraZeneca, Janssen or Coronavac vaccines up to 9 months post immunization	O5-P16
LOUNICI	Yasmine	Complementary but distinct protective roles of tumor-infiltrating IgG and IgA producing cells	O6-P17
BRUEL	Timothée	Broadly neutralizing anti-HIV-1 antibodies tether viral particles at the surface of infected cells	P18
DURAND	Gatien	Discordant pneumococcal antibody and functional opsonization in vaccinated systemic erythematous lupus patients (SLE)	P19
GONDÉ	Henri	A methodological approach using rAAV vectors encoding nanobody-based biologics to evaluate ARTC2.2 and P2X7 <i>in vivo</i>	P20
JULIEN	Sarah	Inhibition of Complement Component 5 by Zilucoplan Blocked Muscle Weakness in a Humanized Passive Transfer Model of Immune-Mediated Necrotizing Myopathy	P21
PITOT	Aubin	Mucosal administration of anti-bacterial antibody provides long-term protection against <i>Pseudomonas aeruginosa</i> respiratory infection	P22
ROBBINS	Ailsa	The 13-Valent Pneumococcal conjugate vaccine elicits serological response and lasting protection in selected patients with primary humoral immunodeficiency	P23
<i>Presented by POMMIER Arnaud</i>			

## Innate T cell Club

Last name	First name	Title of poster	# poster
DE POULPIQUET DU HALGOUET	Anastasia	Mechanisms underlying MAIT ability to promote skin wound healing	<b>07-P24</b>
BUGAUT	Hélène	Single-cell RNAseq reveals a core developmental program for MAIT cells among mammals	<b>08-P25</b>
RAFIA	Chirine	Dynamics of Butyrophilin (BTN)-3A1 and -2A1 within V $\gamma$ 9V $\delta$ 2 T cell synapses	<b>09-P26</b>
BENLAGHA	Kamel	PLZF acetylation levels regulate NKT cell differentiation	<b>P27</b>
CHABAB	Ghita	Identification and characterization of regulatory $\gamma\delta$ T cells and their network in human solid cancers	<b>P28</b>
DECROOS	Amandine	Innate CD8 T-cell analysis demonstrates different subtypes with phenotypic and functional specificities	<b>P29</b>
FLAMENT	Héloïse	Mucosal-associated invariant T cells activation and cytotoxic phenotype in lupus nephritis are linked to renal disease severity and progression	<b>P30</b>
LEITE DE MORAES	Maria	IL-33 Enhances IFN $\gamma$ and TNF $\alpha$ Production by Human MAIT Cells: A New Pro-Th1 Effect of IL-33	<b>P32</b>
TREINER	Emmanuel	MAIT cells numbers and frequencies in patients with acute myeloid leukemia at diagnosis: association with cytogenetic profile and gene mutations	<b>P33</b>

## Metabolism and immunity

Last name	First name	Title of poster	# poster
JELJELI <i>Presented by DURAND Gatién &amp; HERBIN Julie</i>	Mohamed	Western Diet aggravates the outcome of inflammation-induced fibrosis through macrophage-trained immunity	<b>P34</b>
SIMULA	Luca	Mitochondrial metabolism supports T cell motility	<b>P35</b>
ZHU	Aiwei	HIV-sheltering platelets from immunological non-responders induce a dysfunctional glycolytic CD4 <sup>+</sup> T cell profile	<b>P36</b>

## French Club of Young Immunologists

Last name	First name	Title of poster	# poster
MALENICA AMBOR	Ines	Integrin- $\alpha$ V-mediated activation of TGF- $\beta$ regulates anti-tumour CD8 T-cell immunity and response to PD-1 blockade	<b>O10-P37</b>
TALVARD-BALLAND	Nana	Human MAIT cells inhibit alloreactive T-cell responses and protect from GVHD immunopathology	<b>O11-P38</b>
GROSJEAN	Amélie	Understanding the phenotype and role of pancreatic islet resident macrophages	<b>O12-P39</b>
BOUDIGOU	Marina	Dual response to IL-21 and IFN- $\alpha$ reveals the existence of human B-cell precursors with multiple differentiation potentials	<b>O13-P40</b>
<i>1 Best research paper of the year Laureate presentation</i>			<b>O14-P41</b>

## Microbiota and Mucosal immunity: joint meeting of the SFI and the JSI

Last name	First name	Title of poster	# poster
ALAOUI	Lamine	Human tonsils contain macrophage subsets distinct by their transcriptome, ontogeny and function	<b>P42</b>
ROULAND	Mathieu	Gut mucosa alterations and loss of segmented filamentous bacteria in type 1 diabetes are associated with inflammation rather than hyperglycaemia	<b>P43</b>

## Microbiota, metabolism and inflammation

Last name	First name	Title of poster	# poster
MICHEL	Marie-Laure	Gut microbiota-derived short-chain fatty acids regulate IL-17 production by mouse and human intestinal gamma/delta T cells	O15-P44
SILVA-SANTOS	Bruno	Maternal $\gamma\delta$ T cells shape offspring pulmonary type-2 immunity in a microbiota-dependent manner	O16-P45
CHOKR	Dina	Impact of Histone Lysine Demethylase 6B on Adipose Tissue Macrophage Plasticity	O17-P46
BARTHELEMY	Johanna	Role of endoplasmic reticulum stress in white adipose tissue browning during influenza virus infection	P47
BLERLOT	Camille	Heterogeneity of Kupffer cells and its impact on metabolism regulation A subset of Kupffer cells regulates metabolism through the expression of CD36	P48 P49
BOUDAUD	Marie	Dietary fibers differentially alter the host immune system via the metabolic output of the gut microbiota	P50
BOURINET	Manon	CD44 contributes to the interplay between NK cells, ILC1 and macrophages during metabolic-associated steatohepatitis	P51
COLAS	Luc	Urinary metabolomic profiling from spontaneous tolerant kidney transplanted recipients shows enrichment in tryptophan-derived metabolites	P52
<i>Presented by BROUARD Sophie</i>			
GOMES MACHADO	Marina	Acetate improves <i>S. pneumoniae</i> killing by alveolar macrophages via NLRP3 inflammasome and glycolysis-HIF-1 $\alpha$ axis	P54
JOULIA	Emeline	Eomes regulates mitochondrial function and promotes survival of pathogenic CD4 T cells during central nervous system autoimmunity	P55
LAGRESLE-PEYROU	Chantal	A gain-of-function <i>rac2</i> mutation is associated with bone-marrow hypoplasia and an autosomal dominant form of severe combined immunodeficiency An autosomal dominant form of Ras-related C3 botulinum toxin substrate 2 ( <i>RAC2</i> ) is associated with haematopoiesis failure	P56 P57
PATRA	Vijaykumar	Skin microbiome modulates cis-urocanic acid mediated immune suppression	P58
SERRATRICE	Christine	Efficacy of a protein expressed by <i>Helicobacter pylori</i> in the prevention of allergic asthma in a mouse model	P59
TRAORE	Djelika	Westernization of traditional African diet impacts immunoglobulin-bound microbiota	P60
VILLETTE	Rémy	Secretory IgA-bound microbiota in early life is regulated by nutritional factors, such as breastfeeding and probiotics	P61

## Therapeutic cells Club

Last name	First name	Title of poster	# poster
THOMAS	Pauline	O-acetylated GD2-CAR modified V $\gamma$ 9 $\delta$ 2T cells targeting pediatric high-grade gliomas	O18-P62
NICOLAS	Philippe	Interactomic analyses of primary human T cell activation: a rational basis for the implementation of CAR-T cells	O19-P63
GUITTARD	Geoffrey	Targeting CISH enhances natural cytotoxicity receptor signaling and reduces NK cell exhaustion to improve solid tumor immunity	O20-P64
AKHTER	Waseem	Transfer of Mesenchymal Stromal Cell mitochondria suppresses CD4+ Th1 cell responses mediated by T-bet downregulation	P65
BOHINEUST	Armelle	Use of MAIT cells in allogeneic CAR-therapy	P66
PILEYRE	Baptiste	Therapeutic effect of cell therapies derived from adipose tissue in the NOD Icos $^{-/-}$ mouse model of myositis	P67
<i>Presented by JULIEN Sarah</i>			

## Host-SARS-CoV-2 interactions

Last name	First name	Title of poster	# poster
BENAMAR	Mehdi	Treg Cell Notch4 signaling promotes severe lung inflammation in SARS-COV2 infection by limiting amphiregulin-dependent tissue repair	O21-P68
SMITH	Nikaïa	Distinct systemic and mucosal immune responses during acute SARS-CoV-2 infection	O22-P69
DE CHAISEMARTIN	Luc	Neutrophil phenotypes and functions are associated with severity and poor prognosis in patients with COVID-19	O23-P70
AIT-BELKACEM	Ines	Why is COVID-19 more aggressive toward adults than infants? Pre-existing immune differences, and an unexpected role of the spike protein may explain this bias	P71
CHAUVIN	Manon	Elevated neopterin levels predict fatal outcome in SARS-CoV-2-infected patients	P72
CLAVARINO	Giovanna	Fine analysis of lymphocyte subpopulations in SARS-CoV-2 infected patients: toward a differential profiling of patients with severe outcome	P73
CORDEIRO-DA-SILVA	Anabela	IL-2 in whole blood stimulation assay to SARS-CoV-2 in combination with specific IgG for assessing viral exposure	P74
DE CARVALHO	Marcelo	Detectable cellular response to Spike peptides in immunosuppressed seronegative renal recipients after a mRNA-based vaccination to SARS-CoV-2	P75
GRZELAK	Ludivine	Asymptomatic and symptomatic SARS-CoV-2 infections elicit polyfunctional antibodies	P76
SOKAL	Aurélien	mRNA vaccination of naive and COVID-19-recovered individuals elicits potent memory B cells that recognize SARS-CoV-2 variants	P77

## Session Médicale - Homéostasie immunitaire au cours de la vie

Last name	First name	Title of poster	# poster
DEMARET	Julie	Impaired functional T cell response to SARS-CoV-2 after two 2 doses of BNT162b2mRNA vaccine in older people	O24-P78
CHAUVIN	Manon	Impact of inflammation on the resilience of the elderly	O25-P79
MARTON	Chrystel	A novel virotherapy encoding human interleukin-7 enhances ex vivo human immune functions in immunosenescent hip fractured trauma patients	O26-P80

## Imaging the immune system

Last name	First name	Title of poster	# poster
SERAFINI	Nicolas	Inflammation triggers ILC3 patrolling of the intestinal barrier	O27-P81
MEGHRAOUI KHEDDAR	Aïda	High dimensional imaging mass cytometry for the integrative spatial characterization of the Tumor Immune MicroEnvironment from cutaneous squamous cell carcinoma	O28-P82
PETIT	Maxime	Differential regulation of tissue resident macrophages in non-lymphoid organs' territories	O29-P83
ABDUL HAMID	Aizat Iman	Differential early <i>in vivo</i> dynamics and functionality of recruited polymorphonuclear neutrophils after infection by planktonic or biofilm <i>Staphylococcus aureus</i>	P84

## Chronic inflammation

Last name	First name	Title of poster	# poster
DEGAUQUE	Nicolas	TEMRA CD8+ T cells from kidney transplant recipients exhibit enhanced purinergic P2X4 receptor-dependent proinflammatory and migratory responses	O30-P85
LEPELLEY	Alice	cGAS-STING-dependent interferon signalling in a mitochondrial disease	O31-P86
ROUBERTIE	Anaïs	DNase1L3 function in obesity-mediated inflammation and metabolic syndrome	O32-P87
BAFFERT	Blandine	Role of macrophage and fibroblast interplay in the induction and maintenance of experimental fibrosis	P88
CARDON	Anaïs	Longitudinal study of self-antigen-specific CD4+ T cells in a mouse model of hepatic autoreactivity	P89

CARTAGENA GARCIA	Celia	Assessment of the utility of an in vitro whole blood-based functional assay to characterize immune cells from RA patients by flow cytometry	P90
CHÊNE	Charlotte	A Fenton-like cation can improve Arsenic trioxide treatment of chronic Graft-versus-Host Disease in mice	P91
FIMA	Rebecca	Exploring the metabolic function of Kupffer cells as modulators of hypercholesterolemia	P92
GRANGER	Vanessa	Blood Eosinophil cationic protein and Eosinophil-derived neurotoxin are associated with different asthma expression and evolution in adults	P93
<i>Presented by DE CHAISEMARTIN Luc</i>			
LACAUD	Mégane	Involvement of a novel PD-1+ effector memory T cell subpopulation in the pathophysiology of rheumatoid arthritis	P94
MARTINEZ	Fanny	Contribution of follicular regulatory T cells in a neurodegenerative autoimmune disease	P95
TCHEN	John	Mcpt8-CRE-tdT or "CTM8" mice: A new mouse model demonstrates that basophils have a non-redundant role in pristane-induced lupus-like disease development	P96

### Immunosensing

Last name	First name	Title of poster	# poster
TAFFONI	Clara	The cooperation between the cGAS-STING and DNA-PK pathways shapes cancer-related inflammation	O33-P97
JEREMIAH	Nadia	A RELA rheostat tunes innate-like antiviral response in T cells	O34-P98
JNEID	Bakhos	cGAMP-loaded Virus-Liked Particles (cGAMP-VLP) elicit STING-dependent anti-tumor immune responses	O35-P99
DANGER	Richard	Validation of an immune tolerance-related blood score which diagnoses subclinical rejection one year after kidney transplantation	P100
<i>Presented by BROUARD Sophie</i>			

### Session Médicale - Immunologie de l'allergie

Last name	First name	Title of poster	# poster
LEFEVRE	Marine-Alexia	Unique molecular signatures typify skin inflammation induced by chemical allergens and irritants	O36-P101
LOOS	Pauline	Persistent gammaherpesvirus infection reprograms the alveolar macrophage niche for the long-term by dampening type 2 properties of group 2 innate lymphoid cells	O37-P102
DELPY	Laurent	Targeting IgE polyadenylation signal with antisense oligonucleotides decreases IgE secretion and plasma cell viability	O38-P103
BOURGOIN	Pénélope	Impact of Blood Specimen age on Cell Reactivity and Possible Strategies to Implement Basophil Activation Testing in Multi-Centric Studies	P104
COLAS	Luc	Time-dependent blood eosinophilia count increases the risk of kidney allograft rejection	P105
<i>Presented by BROUARD Sophie</i>			
NICAISE-ROLAND	Pascale	Clinical and biological evaluation of COVID-19 mRNA vaccine allergic reactions	P106
ONO	Emi	Impact of topical corticosteroids on the formation and expansion of skin resident memory T cells in allergic contact dermatitis	P107
PEYNEAU	Marine	Daily use quaternary ammoniums activate dendritic cells in vitro	P108
<i>Presented by DE CHAISEMARTIN Luc</i>			
WAMBRE	Eric	Oral Desensitization Therapy for Peanut Allergy Induces Dynamic Changes in Peanut-Specific Immune Responses	P109

### Infection and inflammation: focus on SARS-CoV-2

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ABOUDA	Amal	Prevalence of anti-phospholipid antibodies and their association with Respiratory SOFA component in patients with COVID-19 pneumonia: a prospective analysis	P110
AMERI	Amir	Monitoring of naturally acquired and vaccine-induced SARS-CoV-2 specific cellular immune responses	P111

### New anti-viral vaccine strategies: the example of SARS-CoV-2

Last name	First name	Title of poster	# poster
HÉRATE	Cécile	An AAV-based vaccines inhibits SARS-CoV2 replication in NHPs	P112
MAISONNASSE	Pauline	Immunization with synthetic SARS-CoV-2 S glycoprotein virus-like particles protects Macaques from infection	P113
MARLIN	Romain	CD40 targeted vaccine improves protection SARS-CoV-2 infection in convalescent macaques	P114
SANDOUK	Abdelkader	IL-7 as a mucosal vaccine adjuvant in pulmonary immunization protocols	P115

### Cancer immunology: joint meeting of the SFI and the BSI

Last name	First name	Title of poster	# poster
AUBERT	Nicolas	Validation of new potential tumor-expressed immune checkpoint in mice and humanized mice	P116
BASSE	Clémence	Deep immune profiling of patients with Thymic Epithelial Tumors reveals aberrant thymopoiesis surrounding tumor cells	P117
DEBESSET	Anaïs	TNFR2 blockade decreases immunosuppression in a mouse model of PDAC	P118
DONDI	Elisabetta	Chronic lymphocytic leukemia induced nurse-like cells provide an alternative source of CCL21 for B cells retention within disjointed lymph nodes	P119
FERRANT	Juliette	Lymphoma beyond lymphocytes: exploring the heterogeneity of the myeloid, stromal and endothelial tumor niche in B lymphoma by mass cytometry	P120
GORVEL	Laurent	Tertiary Lymphoid Structures are associated with specific immune microenvironment and improved prognosis in Cervical cancer	P121
HORIOT	Catherine	RNA-based therapeutics for the treatment of B lymphoid and plasma cell diseases	P122
LABIAD	Ossama	Cancer Cells Secreted TGF- $\beta$ Increases CD8 T Cells TCR Activation Threshold Allowing Immune Escape	P123
LEREVEREND	Cedric	Galectin 9 overexpressed after radiotherapy: new therapeutic target in triple negative breast cancer?	P124
PEREIRA-SUÁREZ	Ana Laura	Immunomodulatory role of 17 $\beta$ -estradiol and prolactin in the cytotoxicity of NK cells on cervical cancer cells	P125
PETTI	Luciana	The extracellular matrix of OSCC modulates the spatial distribution and the phenotypes and functions of tumor-associated myeloid immune cell populations	P126
RIFFARD	Clémence	Tertiary lymphoid structures neogenesis and LTi-like ILC3 in inflamed pulmonary tissue	P127
THOMAS	Noémie	In vitro evaluation of neoadjuvant therapies on the immune microenvironment in breast cancer	P128
TRAN	Thi	Pro-atherogenic diet accelerates tumor growth in mice through IL-1 $\beta$ and myeloid cell-derived VEGF-A	P129
VILLEGAS-PINEDA	Julio César	Cancer-associated fibroblast infiltration associated with cervical cancer progression	P130
<i>Presented by PEREIRA-SUÁREZ Ana Laura</i>			

### Regulation of inflammatory responses

Last name	First name	Title of poster	# poster
KARI	Saniya	Differential effects of Vitamin D on the migration of effector and regulatory T cells across the blood-brain barrier	O39-P131
MELBOUCI	Dyhia	Neutrophil extracellular traps trigger an enhanced pro-inflammatory response in macrophage subpopulations in rheumatoid arthritis patients	O40-P132
JACQUELINE	Cédric	Local microenvironment finely shapes the fate of inflammatory monocytes after severe lung inflammation	O41-P133

BONNIN	Elisa	Characterization of CD74: a newly identified tumor-Treg specific molecule	P134
BROQUET	Alexis	Trained mononuclear phagocytes increase immunosurveillance by CXCR6 resident memory T cells after sepsis	P135
CHARVET	Celine	CD4+ T cells require Ikaros to inhibit their differentiation toward a pathogenic cell fate	P136
CONCHON	Sophie	Transcriptomic analysis of liver induced allo-specific CD8 Tregs reveals their homogeneous profile and points toward multiple suppressive pathways	P137
DARIF	Dounia	Moroccan primary Leishmania major strains differently modulate infection profile, iNOS and IL-1 $\beta$ genes expression in mice	P138
<i>Presented by HAMMI Ikram</i>			
DEKEYSER	Manon	Development of BKV nephropathy in renal transplant patients: role of the specific immune response	P139
FLAMENT	H�lo�se	STING controls inflammation via inhibitory ITAM pathways	P140
FOURNY	Marie	Optimization of antibody-linked to immunoregulatory cytokines: in vitro evaluation	P141
GUILLOU	Charlotte	Modulation of P2X7 receptor activity in experimental autoimmune encephalomyelitis models	P142
HILAIRE	Morgane	Impact of TNFR2 deletion in visceral adipose tissue Treg	P144
HIRT	Nell	Reprogramming the immune system: A potential symptom relief strategy for Dystrophic Epidermolysis Bullosa	P145
KAPETANOVIC	Ronan	Divide and conquer - Mitochondrial fission regulates a new antibacterial pathway in macrophages	P146
KARI	Saniya	Regulation of the CD46-mediated Th1/Tr1 switch by CD226	P147
MART�N-FAIVRE	Lydie	Prophylactic treatment with silver nanoparticles protects against influenza infection	P148
MEBREK	Lyna	Regulatory T cells identity during chronic inflammation in patients with rheumatoid arthritis or spondyloarthritis	P149
ORLIAGUET	Lucie	Interferon Regulatory Factor 5 inhibits macrophage oxidative respiration upon metabolic stress by repression of the mitochondrial matrix protein GHITM	P151
PRINCE	Lisa	Eosinophils modulate the amplitude of the immune response during lung vaccination	P152
RENAUD	Clotilde	Role and Status of Centriolar Satellites during Cell Death	P153
RILLER	Quentin	Heterozygous CHUK mutation leads to immunodeficiency with autoimmunity	P154
ROGER	Ana�s	Nociceptive sensory neurons promote CD8 T cell responses to HSV-1 infection	P155
SANTA	Pauline	The role of DNase1L3 in the regulation of anti-tumor immunity	P156
SEGURA	Elodie	Dietary ligands of Aryl Hydrocarbon Receptor modulate the severity of cutaneous allergic responses	P157
SNEPERGER	Tamara	The dendritic cell immunoreceptor (DCIR), a regulator of immunity to tuberculosis, interacts with the LDL receptor-related protein 1 (LRP1)	P158
SORIN	Boris	SHARPIN heterozygous mutation is responsible for autoimmunity, inflammatory manifestations and primary immune deficiency	P159
THIAM	Fatou	Stress proteins HSP90 and GP96 in the occurrence of severe malaria	P160
TREINER	Emmanuel	The CD226/TIGIT axis and PD1 are involved in both global and donor-specific T cell hyporesponsiveness after kidney transplantation	P161
VAINEAU	Romain	Impact of the TFH/TFR/IL-1 $\beta$ interplay in physiological and pathological antibody production in humans	P162
VIRAZELS	Mathieu	Combining TNF blockade with immune checkpoint inhibitors in advanced melanoma patients	P163

## Immuno-microbial interactions at mucosal sites

Last name	First name	Title of poster	# poster
PLAZY	Caroline	Immuno-Metabolite discovery: study of metabolic adaptation of <i>Pseudomonas aeruginosa</i> in Cystic Fibrosis (CF) patients	O42-P164
PITIOT	Aubin	Mucosal administration of anti-bacterial antibody provides long-term protection against <i>Pseudomonas aeruginosa</i> respiratory infection	O43-P165
GELINEAU	Adelaide	Dietary fiber-mediated improvement of glucose tolerance requires type 2 conventional dendritic cells in mice fed a high-fat diet	O45-P166
BARSAC	Emilie	Versatile functions of MAIT cells during lung infections	P167

## Receptors and immunity

Last name	First name	Title of poster	# poster
DE JUAN	Alba	Fine-tuning of IL-4-induced immune responses by Aryl Hydrocarbon Receptor	O46-P168
LAVANANT	Alice	CD169+ macrophages in lymph node and spleen critically depend on dual RANK and LT $\beta$ R signaling	O47-P169
AGESTA	Arantxa	Role of the transcriptional regulator Eomes in shaping T cell response to 4-1BB agonist immunotherapy	O48-P170
BRAUD	Veronique	Cutaneous Squamous Cell Carcinoma Development is Associated with a Temporal Infiltration of ILC1 and NK Cells with Immune Dysfunctions	P171
CAILLENS	Vivien	Endosomal platforms involved in T-cell signalling and their role in the function of chimeric antigen receptors	P172
DEBESSET	Anais	TNFR2 blockade decreases immunosuppression in a mouse model of PDAC	P173
DEMEULES	Mélanie	Evaluation of the P2X7 functions in tumor context using a novel methodology combining rAAV vectors and anti-P2X7 nanobodies	P174
GAUTHIER	Juliette	Role of IL-2 in B cell responses in a mouse model of IL-2 receptor inactivation	P175
GUTIÉRREZ IÑIGUEZ	Cecilia Lizette	Determination of NK cells subpopulations and the natural cytotoxic receptor NKp30 in coinfecting patients with HIV / HCV	P176
HASPOT	Fabienne	SIRP $\gamma$ -CD47 interaction positively regulates the activation of human T cells in situation of chronic stimulation.	P177
MARROCCO	Rémi	Themis1/Vav1 signaling hub controls T cell pathogenicity in a mouse model of Multiple Sclerosis	P178
MORANDI	Elena	Investigation of the mechanisms whereby the Multiple Sclerosis associated genetic variant CD226 Gly307Ser Influences T cell functions	P179
NUGUE	Mathilde	Impact of autophagy on ADCC function of macrophages	P180
RAMIREZ DE ARELLANO SANCHEZ	Jorge Adrián	Tumoral and stromal expression of GPER, GLI1, and GLI3 in prostate cancer patients with different Gleason scores	P181
WINTHER	Kasper	Two cGAS-like receptors induce antiviral immunity in <i>Drosophila</i>	P182

## B cells

Last name	First name	Title of poster	# poster
PASCAL	Virginie	mRNA and DNA high throughput sequencing reveals major alterations in the immunoglobulin repertoire landscape in severe COVID-19 patients	O49-P183
CAPITÁN SOBRINO	Dunja	The RNA-binding protein HuR controls innate B cell responses and neuroinflammation	O50-P184
VALERI	Viviana	Mouse memory B cell subsets and recall responses	O51-P185
BODEMEYER	Valérie	dCODE® Klickmer Reagents Identify Antigen-specific B Cells at Single-Cell Level for Antibody Discovery	P186
BONAUD	Amélie	The Sec22b/Syntaxin-5 SNAREs are indispensable for plasma cell development and antibody secretion	P187



BRUZEAU	Charlotte	IgH 3'RR palindromic structure is essential for normal IgH nuclear location and locus conformation	P188
COUSU	Clara	B Cells, What HELLS	P189
GRASSEAU	Alexis	STAT1 a putative plasma cell fate driver in memory B cells and clonal Waldenström B cells	P190
HERBIN	Julie	Serum IgG4 elevation : a cohort study of 187 patients	P191
KOLOPP SARDA	Marie Nathalie	Recommendations for the detection and interpretation of cryoglobulins	P192
LAURELINE	Berthelot	IgA production decrease is associated with B cell differentiation and proliferation defects in multiple sclerosis	P193
MARTINEZ RIVAS	Gemma	A mouse model of Monoclonal Light Chain Amyloidosis	P194
OSMA-GARCIA	Ines Claire	The RNA binding proteins TIA1 and TIAL1 modulate the splicing programs required for DNA damage detection and repair during B cell development	P195
<i>Presented by DIAZ-MUNOZ Manuel D.</i>			
PINAUD	Eric	The IgH E $\mu$ -matrix attachment regions optimize somatic hypermutation induced by error-prone repair	P196
THOMAS	Morgane	Special A-T Rich Binding Protein 1 (SATB1): a MAR Binding Protein with dual effect in B cell	P197
VACHIN	Pauline	Efficient and stable immortalization of human primary memory B cells using BaEV lentiviral vector	P198

### Dendritic cells

Last name	First name	Title of poster	# poster
MURAT	Claire	Effect of the tumor environment on the programming of locally generated conventional dendritic cells	O51-P199
GODOT	Veronique	CD40-targeting vaccination induces SARS-CoV-2 spike-specific human B and T cells with a long-term memory phenotype in a humanized mice model	O52-P200
VILLAR	Javiera	ETV3 and ETV6 enable monocyte differentiation into dendritic cells during inflammation by repressing interferon-stimulated genes	O53-P201
BESSION	Solène	New cancer vaccine platform: Adenovirus Dodecahedrons as virus-like particles to deliver immunotherapies against melanoma	P202
HOFFMANN	Caroline	Secretory and Helper DC: a novel dichotomy of human dendritic cell maturation and relevance in human diseases	P203
MICHIELETTO	Jessica	Metabolomic study of LPS-induced maturation of dendritic cells	P204
OUAZ	Fatah	Dendritic Cell Regurgitation: New Extracellular Mode of B-Cell Activation Through Exosome-Free Release of Antigen	P205

### Single cell approaches to analyse immune cell

Last name	First name	Title of poster	# poster
CHRETIEN	Anne-Sophie	High-dimensional mass cytometry analysis of NK cell alterations in AML identifies a subgroup with adverse clinical outcome	O54-P206
COSGROVE	Jason	Metabolic heterogeneity in hematopoietic progenitors fuels innate immunity	O55-P207
WHITE	Eoghann	Evidence of rejuvenated HIV-1-specific CD8 <sup>+</sup> T cells after 30 years of treated infection	O56-P208
AIT-BELKACEM	Ines	Cell recovery and analysis from dried blood spots - Why not dry blood for easy storage and shipping?	P209
DUTERTRE	Charles-Antoine	A single cell landscape of human dendritic cells in health and disease	P210
LAVIRON	Marie	Tumor-associated macrophage heterogeneity is driven by niche diversity in breast cancer	P211
MARODON	Gilles	A signature of human regulatory T cells relative to major immune subsets reveals novel biomarkers and pathways relevant to human cancers	P212
METOIKIDOU	Christina	Unveiling the roles of CD8 <sup>+</sup> T cell subsets in antitumor immunity	P213

SILVIN	Aymeric	Fate mapping reveal dual ontogeny of disease-associated microglia and disease inflammatory macrophages in ageing and neurodegeneration	P214
THIBAUT	Ronan	Single cell RNAseq identifies liver resident macrophages with distinct metabolic properties in NAFLD in mice	P215
VENTURI	Michela	Multi-Omic Characterization of T-Cell Populations at the Single-Cell Level Utilizing dCODE Dextramer® Reagents on the BD Rhapsody™ Single-Cell Analysis System	P216
VOISIN	Benjamin	The homeostatic maintenance of the extracellular matrix by hypodermal macrophages favors Staphylococcus aureus infection	P217

### Session Médicale - Interleukin-17 : rôle dans l'inflammation et l'infection

Last name	First name	Title of poster	# poster
SEITZ-POLSKI	Barbara	Baseline and early functional immune response is associated with subsequent clinical outcomes of PD-1 inhibition therapy in metastatic melanoma patients	O57-P218
MARIE	Julien	TGF- $\beta$ signaling ensures stability of the genetic program of already differentiated T <sub>H</sub> 17 cells preventing from inflammation-induced cancer	O58-P219
BECHARA	Rami	RNA m6A methylation guides IL-17-driven autoimmunity through IMP2-dependent regulation of C/EBP transcription factors	O59-P220
LAUTRAITE	Raphaëlle	NF- $\kappa$ B RelA is a master orchestrator of T-cell identity and pathogenicity in EAE	P221
LEFRANC	Anne Charlotte	IL-17, skeletal muscle and myasthenia gravis	P222

### Immunotherapy

Last name	First name	Title of poster	# poster
BELLIER	Bertrand	Recombinant Virus-Like Particles displaying the CTLA-4 immune checkpoint as tolerogenic vaccines for food allergy treatment	P223
COTTIGNIES CALAMARTE	Andréa	Engineering immunoglobulin Fc-region for improved anti-HIV therapeutic antibodies	P224
COUPET	Charles-Antoine	Exploratory study of a novel virotherapy encoding human interleukin 7 intravenously injected in non-human primates	P225
CUFFEL	Alexis	Characteristics of apheresed T cells and clinical response to CD19 CAR-T cells in real-life patients with large B-cell lymphoma	P226
GRINDEL	Anne-Laure	Improvement of antitumor response by combination of Lipiodol-based immunomodulators emulsions and immune checkpoint inhibitors treatments in a mouse tumor model	P227
LÉLU-SANTOLARIA	Karine	Development of a novel IL-7-based virotherapy to stimulate both innate and adaptive immunity for the treatment of sepsis immunosuppression	P228
MOUGEL	Alice	Synergistic effect of therapeutic combination of sunitinib with a peptide based vaccine in cancer treatment after tumor microenvironment remodeling	P229
PARIS	Pierre	Immunoreactivity of human CAR-OAcGD2 V $\gamma$ 9V $\delta$ 2 T cells against primary glioblastoma cells	P230