#### November 27th to 29th



# 2024

UAL MEETING OF THE MUNOLOGY PROGRAM

**SCHEDULE** 















## Organizing Committee

#### Anderson de Sá Nunes João Gustavo Amarante Pessini <u>Mendes</u>

Coordinators of the Graduate Program in Immunology

#### Sandra Marcia Muxel

Researcher and accredited supervisor in the Graduate Program of Immunology

Carlos Neandro Cordeiro Lima Clara Andrade Teixeira Jonathan Miguel Zanatta Julia de Moura Bernardi Kamilla Batista da Silva Souza Laura de Quadros Pereira Leonardo Mandu Gonçalves Letícia Andrade Savério Matheus Fernandes de Oliveira Rodrigo Jose Rocha Xavier Freitas

Students of the Graduate Program of Immunology



## November 27th afternoon

Pink Room

14:00 h	Opening
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14:30 h General meeting

16:00 h Lecture: Jaqueline Polizeli – DBR Biotech Boas Práticas para o Unmixing Espectral

Oral communication: Marcelo Valdemir de Araujo
Ketogenic diet modifies lung microbiota composition and
impacts tissue-specific immunity

17:00 h Lecture: Eppendorf "Clínica de Pipetagem"

18:00 h Opening party
Boteco Rei das Batidas
Avenida Valdemar Ferreira,231 – Butantã, São Paulo – SP



## November 28th morning

Pink Room

O8:45 h

Lecture: Profa Dra. Maria Regina D'Imperio Lima
CD39 prevents lung necrosis by regulating macrophage
P2RX7-mediated cell death in response to severe tuberculosis

09:30 h
Lecture: Prof Dr. Marcelo Mori
Adiposopathies Accelerate Immune System Senescence and
Dysfunction

10:15 h Coffee break

10:30 h Workshops 1-4

12:15 h Lunch



## November 28th afternoon

Pink Room

14:00 h Lecture: Merck

14:45 h Lecture: Prof Dr.Ricardo Gazzinelli
The Valley of Death and Vaccine Innovation in Brazil

15:30 h Coffee break

16:00 h Workshops 5-8



## November 29th morning

Pink Room

08:30 h

Lecture: Pensabio

Revolucionando a Biologia Através da Multiômica Espacial, Single Cell e Reagentes da Pensabio

09:00 h

Lecture: Dr. Rodrigo Nálio

Uncovering a novel FOLR2+ macrophage subset in cancer using single-cell RNA sequencing

10:15 h

Coffee break

10:30 h

Lecture: Profa Dra. Maria Notomi Sato Maternal fetal interaction

12:00 h

Lunch



## November 29th afternoon

Pink Room

14:00 h Workshops 9-11

15:15 h Round table: Career challenges and prospects beyond academia

17:00 h Closing and awards



Pink Room

#### 10:30 h Rodrigo Jose Rocha Xavier Freitas

The Effect of purinergic signaling on T cell-mediated neuropathology in an experimental model of cerebral malaria

#### 10:45 h Kathia Terumi Kato

The splanchnic nerves subdue neutrophil activity in a rat model of septic peritonitis

#### 11:00 h Julia Domene Galano

Vaccinal strategy for Herpes simplex virus type 1 and 2: trivalent VLP vaccine using HSV-1-derived amplicon vectors

#### 11:15 h Guilherme William da Silva

Effect of different experimental oral vaccine platforms and contribution of visceral adipose tissues for oral vaccine-induced responses

#### 11:30 h Gustavo Rocha Dias

Evaluation of the adjuvant potential of OVA/PDDA and OVA/DODAB nanoparticles in the generation of adaptive cellular immunity

#### 11:45 h Lucas Henrique Rodriques da Silva

Cellular chimerism: production of NK-DC hybrid cells as a new antineoplastic therapeutic strategy

#### 12:00 h Gretta Huamanrayme Bustamante

Evaluation of immunomodulatory activities of amblyomma *Sculptum saliva* in immune cells



Blue Room

#### 10:30 h Gabriele Manamy Baba Rodrigues

Effect of probiotics in the protection of intestinal barrier following Yersinia pseudotuberculosis infection

#### 10:45 h Amanda Valéria Cardoso Prestes

Mechanisms Involved In Pulmonary Neutrophilia Induced By Ketogenic Diet

#### 11:00 h Julia de Moura Bernardi

Effect of Aedes aegypti salivary components on experimental sepsis: neutrophil modulation

#### 11:15 h Bárbara Pastori Gustineli

Understanding the effects of sevoflurane and propofol and their implications on monocyte-derived dendritic cells phenotype and function

#### 11:30 h Clara Andrade Teixeira

The Role of MicroRNA-294 and NLRP12 in Modulating Macrophage Response to *Leishmania amazonensis* 

#### 11:45 h Bárbara Heloisa de Lima

ROLE OF RIPK3 IN CD8+ T CELL DIFFERENTIATION



**Room 101** 

#### 10:30 h Maria Paula Oliveira Lima

Generation of CAR-NK Memory-Like NKG2A KO Cells Using CRISPR-Cas9 for the Treatment of Multiple Myeloma

#### 10:45 h Rafael Queiroz de Souza

The role of Gasdermin D in the control of *Toxoplasma gondii* infection in Macrophages

#### 11:00 h Larissa Fonseca Marques

The effects of combined inhibition of glutaminolysis and the STAT3 pathway on the tumor microenvironment and the PD-1/PD-L1 axis

#### 11:15 h Nathalia Caroline Teixeira Zana

Evaluation of the inflammasome in allergic asthma in mice genetically selected for maximum and minimum acute inflammatory response

#### 11:30 h Daniel Pereira Sousa

TLR10 in the maternal-fetal interface: expression profile and functional analysis in Zika virus infection

#### 11:45 h Alan Frazão da Silva

Profile of Cutaneous Innate Lymphoid Cells After Exposure to the Bite of the Mosquito Aedes aegypti in Naïve and Sensitized Host



Room 5

#### 10:30 h Wilson Santos Molari

Expression And Biochemical Targets Of Amblyostatin-1, The First Salivary Cystatin From *Amblyomma sculptum* 

#### 10:45 h Paulo Estevão Ferreira Macedo

HIF-1alpha represses the gluconeogenesis rate-limiting enzyme in inflammatory macrophages

#### 11:00 h Matheus Fernandes de Oliveira

Exploring the role of the mechanosensitive ion channel Piezo1 in macrophages in an experimental model of psoriasis

#### 11:15 h Luana Correia Croda Catharino

Evaluation of the effect of the co-culture with dendritic cells in the phenotype and function of iPSC-derived CAR-T cells

#### 11:30 h Michel Mouawad de Queiroz

Effect of metabolic inhibitors on CD8+ T cell differentiation in vitro

#### 11:45 h Bernardo de Castro Oliveira

Mechanisms involved in protection against Metabolic Syndrome after infection by Yersinia pseudotuberculosis



Pink Room

#### 16:00 h Abolaji Samson Olagunju

Recombinant *Listeria-Monocytogenes* Vaccine Induces Anti-tumor Immune Response in Inflammatory Cell Death Machinery-Deficient Mice

#### 16:15 h Raquel de Souza Vieira

The role of the STING pathway in the antitumor response during methionine restriction

#### 16:30 h João Vinícius Honório da Silva

Consequences of the absence of the TRPM5 ion channel on clinical and immunological parameters, in a murine model of DSS-induced Inflammatory Bowel Disease

#### 16:45 h Luísa Menezes Silva

Effects of dietary changes on cellular and metabolic dynamics of B lymphocytes

#### 17:00 h Felippe Egon Catrignano Camargo

Role Of Cd18 In The Structure Of Virus-Containing Compartiments Loaded

#### 17:15 h Vinícius Martins Borges

Bacillus Calmette-Guérin immunotherapy induces an efficient antitumor response to control murine melanoma depending on MyD88 signaling

#### 17:30 h Ian Antunes Ferreira Bahia

Systemic Integrative Analysis of the Neuroendocrine-Immune Network in Major Depressive Disorder



Blue Room

#### 16:00 h Laura de Quadros Pereira

Impact of the interaction between macrophages and intestinal epithelial cells on the development of intestinal inflammation

#### 16:15 h Joseana de Oliveira

BLOCKING HIF2A IMPROVES THE HOST'S RESISTANCE TO MYCOBACTERIUM TUBERCULOSIS INFECTION

#### 16:30 h Lincon Felipe Lima Silva

Downregulation of mitoKATP induces LPS tolerance in macrophages

#### 16:45 h Jaqueline Vaz de Oliveira

Nanovesicles Derived From Dendritic Cells As Instruments For Modulating The Immune Response Against Glioblastoma

#### 17:00 h Jonathan Miguel Zanatta

Screening HIF-1 $\alpha$  and HIF-1A antisense long non-coding RNA in macrophages during *Leishmania infantum* infection and TLR stimulation

#### 17:15 h Luis Felipe Serra Moreira

Evaluation of the adjuvant effect of nicotinamide in a chemotherapy treatment for human intestinal cancer

#### 17:30 h Paula do Amaral Costa Ribeiro

Generation of dendritic cells expressing CAR from induced pluripotent cells: an alternative treatment for cancer



**Room 101** 

#### 16:00 h Emanuella Sarmento Alho de Sousa

Impact Of Hiv Infection On Placental Gene Expression: Implications For Fetal Immune Response And Development

#### 16:15 h Kamilla Batista da Silva Souza

The role of Myosin IXB (Myo9b) in NLRP3 inflammasome activity in THP-1 cells

#### 16:30 h Carlos Neandro Cordeiro Lima

Analysis of the function of long noncoding RNAs regulating the NFkB transcription factor in macrophages infected with *L. infantum* 

#### 16:45 h Barbara Nunes Padovani

Effect of caloric restriction on cGAS-STING signaling in acute kidney injury in zebrafish

#### 17:00 h Victor Yuji Yariwake

Diet-induced obesity alters the phenotype of small intestine Foxp3+ regulatory T cells

#### 17:15 h Giovanna Manga Guimarães

Total Tumor mRNA Transfection into mo-DC for Breast Cancer Therapy

#### 17:30 h Henrique Cesar Calderon Ferraiuolo

DRP1 Controls Microglial Metabolism And Palmitate-Induced Inflammation



Room 5

#### 16:00 h Webster Leonardo Guimarães da Costa

T-bet limits TNF- $\alpha$  and IL-12 expression in inflammatory macrophages to mitigate sepsis in mice

#### 16:15 h Carla Sanzochi Fogolin

Reprogramming Macrophages through CRISPR-Cas9: an alternative for tumor treatment

#### 16:30 h Igor Salerno Filgueiras

Macrophage-lymphocyte interaction switch according to spatial distribution in colorectal cancer

#### 16:45 h Samson Oluwapelumi Kosemani

The Impact of Ultraviolet Radiation on the Expression of Ras Association Domain Family Members

#### 17:00 h Jordy Alexander Larco Lasso

Modified extracellular vesicles for STAT3 inhibition and activation of innate immune responses for cancer treatment

#### 17:15 h Marcelo Rodrigues Berçot

DRP1 is necessary for macrophage activation and brown adipose tissue remodeling upon cold exposure.

#### 17:30 h Lais Cavalieri Paredes

Histone deacetylases' role in kidney regeneration and macrophage polarization post-AKI induction in zebrafish



Pink Room

#### 14:00 h Letícia Andrade Savério

Assessment of Transfecting Monocyte-Derived Human Dendritic Cells (moDCs) with Total Tumor-Derived mRNA: A Study Utilizing Glioblastoma Cell Lines and moDCs from Healthy Donors

#### 14:15 h Fabiane Cristina Colunna

Chronic inflammation as a progression factor for cancer associated with Human Papillomavirus

#### 14:30 h Leonardo Mandu Gonçalves

Local regulatory T cell dysfunction following infection contributes to colorectal cancer development

#### 14:45 h Marcos Vinícios Pinheiro Cione

Study Of T Cell-Mediated Immunity In Experimental Covid-19: Involvement Of Purinergic Signaling

#### 15:00 h Danilo Chaves da Silva Ramos de Souza

Role of ATPase Inhibitory Factor1 (IF1) in CD4+ T cells in experimental malaria



Blue Room

#### 14:00 h Maribel Limachi Loza

Modifications in the tumor microenvironment in mice deficient for genes involved in necroptosis (RIPK3 and MLKL) and pyroptosis (Caspase-1/11 and GSDMD), after vaccination with recombinant bacterial vectors

#### 14:15 h Mariela Estefany Gislene Vera Roa

Genetic Variants in NLRP1 and NLRP3 Influence Inflammasome Activation in CD8+ T Cells of Individuals with Chronic HIV Infection

#### 14:30 h Suemy Melim Yamada

Effects of hyperthermia detection by T lymphocytes through the TRPV1 channel on acute kidney injury: a tropical study

#### 14:45 h Milena Carvalho Carneiro

Activation Of The Complement System In Patients With Pulmonary Hemorrhagic Syndrome Associated With Human Leptospirosis

#### 15:00 h Ana Carolina Mikejevs Lorga

Screening of C3 Binding Proteins in L. interrogans



**Room 101** 

#### 14:00 h Lara Rodrigues da Silva

Participation of Complement System in the Etiopathogenesis of Experimental Leptopirosis-Associated Pulmonary Hemorrhagic Syndrome in C3H/HeJ mice

#### 14:15 h José Arimatéa de Oliveira Nery Neto

Intestinal Inflammation Increases Susceptibility To Kidney Ischemia Reperfusion Injury

#### 14:30 h Luciana dos Santos Barros Manhães

Role of CD39 in immune response during pulmonary malaria induced by *Plasmodium berghei* NK65 infection

#### 14:45 h Caroline Martins de Matos

Splenic macrophages communicate with the liver in acute systemic inflammation

#### 15:00 h Karla Karoline Santos Ramos

Evaluation of BCG-mediated trained immunity mechanisms in controlling Brucella abortus infection