

# FOCIS Goes South 2021

November 15-18, 2021

Virtual Workshop

## Preliminary Agenda

All times are listed in Chile Time Zone (UTC -4) which is the time that the lecture will broadcast.

### November 15

09:30-10:30	Welcome words from Academic Authorities of the Pontificia Universidad Católica de Chile, the Millennium Institute on Immunology and Immunotherapy, Government Authorities, FOCIS Directors, and Organizers of the Course.
<b>Advanced course on molecular and cellular translational immunology” – Dr. Yvonne Rosenstein, and Dr. Alexis Kalergis</b>	
10:30-11:00	Dr. Yvonne Rosenstein: Introduction to the Immune System
11:00-12:00	Dr. Yvonne Rosenstein: Innate Immunity
12:00-13:00	Dr. Alexis Kalergis: Antigen Presentation, T Cell Activation, and Co-stimulation
13:00-14:00	Lunch Break
14:00-15:00	Dr. Alexis Kalergis: CD4 T Cell Subsets, Cytokines
15:00-16:00	Dr. Alexis Kalergis: B Cells and Antibodies
16:00-17:00	Dr. Yvonne Rosenstein: T Cell Regulation and Tolerance. Central and Peripheral Tolerance, Failure of Tolerance
17:00- 17:30	Break
17:30-18:00	Dr. Yvonne Rosenstein: Tumor Immunology
18:00-19:00	Dr. Alexis Kalergis: Infectious Diseases
19:00	Adjourn for the day

### November 16

<b>Becton Dickinson Multicolor Flow Cytometry Workshop” (course held in Spanish)</b>	
09:00-10:00	Introduction and welcome
10:00-10:45	Novel fluorochromes and panel assembly in conventional and spectral flow cytometry (María Bernarda Ganem)

10:45-11:30	Reading optimization and compensation in High Parameter devices (María Bernarda Ganem)
11:30-13:15	Single Cell Multiomics: fundamentals and applications (Speaker TBD)
13:15-14:15	Lunch Break
14:15-15:45	Multicolor flow cytometry case analysis workshop: basis for an orderly and efficacious analysis (Ariel Podhorzer)
15:45-16:30	Break
16:30-17:45	Case analysis in multicolor flow cytometry workshop: automatic offline compensation. Workshop conclusions (Ariel Podhorzer)
17:45	Adjourn for the day

## November 17

09:00-09:30	Welcome words and Presentation of the Workshop.
<b>Session 1: Autoimmune Diseases. (09:30-11:00)</b>	
09:30-10:00	Prof. Leonie Taams (King's College London): Phenotypic and functional analysis of CD4+ and CD8+ T cells from the inflamed joints of patients with rheumatoid arthritis or psoriatic arthritis (focusing on IL-17 producing T cells)
10:00-10:30	Dr. Matthias von Herrath (La Jolla Institute for Immunology): Developing novel therapies for type 1 diabetes
10:30-11:00	Dr. Kristine Kuhn (University of Colorado Health University of Colorado Hospital): Mucosal mechanisms in the development of inflammatory arthritis
<b>Session 2: Translational Medicine. (11:00-12:30)</b>	
11:00-11:30	Dr. Susan Bueno (Pontificia Universidad Católica de Chile): Immune Response Induced by an Inactivated Vaccine for COVID-19 in Humans
11:30-12:00	Dr. Maria-Grazia Roncarolo (Stanford University): Regulatory T cells and Immune Tolerance
12:00-12:30	Dr. Petra Reinke (Charité – Universitätsmedizin Berlin): Are regulatory T cells a realistic therapeutic option in solid organ transplantation?
12:30-13:30	Lunch Break VIRTUAL POSTER VIEWING.
<b>Session 3: Cancer. (13:30-16:30)</b>	
13:30-14:00	Dr. Olivier Boyer Cancer immunotherapy: principle and applications of CAR T cells

14:00-14:30	Dr. Marcela Maus (Harvard University): What's new in CAR T cells
14:30-15:00	Dr. Yvonne Rosenstein (Universidad Nacional Autónoma de México): An unsuspected role for CD43, a leukocyte marker, in non-lymphoid tumor cells
15:00-15:30	Dr. Marcelo Hill (Institut Pasteur de Montevideo): ATMEM176B/inflammasome/ exhausted T cells axis as a pharmacological target in cancer immunotherapy and coronavirus disease.
15:30-16:00	Dr. Ana Carrizosa Anderson (Harvard University): Pan-cancer analyses reveal new insights into T cell dysfunction
16:00-16:30	Dr. José Chabalgoity (University of Uruguay): Moving Salmonella-based immunotherapies for cancer closer to the clinical scenario
16:30-17:00	Dr. Flavio Salazar (University of Chile): Advances in tumor cell-based immunotherapy for cancer
17:00-17:30	VIRTUAL POSTER VIEWING.
17:30	Adjourn for the day

## November 18

	<b>Session: Infectious Diseases. (9:00-12:00)</b>
09:00-09:30	Dr. Jorge Kalil (University of Sao Paulo): Development of a vaccine against COVID-19 aiming humoral and cellular immune response to avoid disease and infection
09:30-10:00	Dr. Noah Butler (University of Iowa): The Activation, Programming, and Metabolism of B cells Responding to Malaria
10:00-10:30	Dr. Ignacio Anegón (INSERM UMR 1064, University of Nantes FCE, France): A new anti-CD45RC mAb tolerogenic therapy in organ transplantation, GVHD and autoimmunity
10:30-11:00	Dr. Pablo González (Pontificia Universidad Católica de Chile): Herpes simplex virus, a problem that requires attention: Challenges and Opportunities
11:00-12:00	Lunch Break
12:00-13:30	VIRTUAL POSTER VIEWING
	<b>Session: Tolerance. (13:30-15:30)</b>
13:30-14:00	Dr. Gabriel Rabinovich (University of Buenos Aires): The Sweet Revolution: Lectins and Glycans in Immune and Vascular Programs
14:00-14:30	Dr. Guillermo Docena (National University of La Plata): Human colonic IgE synthesis and implications for food allergies

14:30-15:00	Dr. Mark Anderson (University of California, San Francisco): (TBD)
15:00-15:30	Dr. Magnus Fontes (Institut Roche, France) : Systems Immunology and the Immunity State Space- A computational Invitation to Immunology
15:30-16:00	Dr. David Klatzmann (Sorbonne University): Polyreactive T cells and the antiviral adaptive immune response
16:00-16:30	Dr. Hans-Dieter Volk (Charité Universitätsmedizin Berlin): Impact of Immuneaging on Intratissue homeostasis
16:30-17:00	Dr. Alessandro Marcello (International Centre for Genetic Engineering and Biotechnology): (TBD)
17:00-17:30	Closing words. Director of the Millennium Institute on Immunology and Immunotherapy. Pontificia Universidad Católica de Chile.
17:30	Course Adjourned