

# **Advanced Course on Mucosal Immunology (ACMI 2018)**

## *Seeding mucosal immunology in South America*

**Dates:** Monday October 22th to Saturday October 27th, 2018

**Place:** HOTEL UTHGRA Los Cocos, Cordoba, Argentina

<http://www.uthgraloscocos.com.ar/>

[https://www.tripadvisor.com.ar/Hotel\\_Review-g3610827-d3609004-Reviews-Hotel\\_Uthgra\\_Los\\_Cocos-Los\\_Cocos\\_Province\\_of\\_Cordoba\\_Central\\_Argentina.html](https://www.tripadvisor.com.ar/Hotel_Review-g3610827-d3609004-Reviews-Hotel_Uthgra_Los_Cocos-Los_Cocos_Province_of_Cordoba_Central_Argentina.html)

### **Registration.**

<http://www.socmucimm.org/acmi-2018/>

### **Confirmed speakers**

Ifor Williams (Emory University, GA, USA)

William Agace (Lund University, Sweden)

Tim Denning (GSU, GA, USA)

Gabriel Nuñez (The University of Michigan Medical School, Ann Arbor, MI, USA)

Cecilia Johansson (Imperial College, UK).

Eduardo Villablanca (Karolinska Institute, Sweden)

Elena Verdu (McMaster University, Canada)

Giada de Palma (McMaster University, Canada)

Helder Nakaya (USP, Brazil)

Guillermo Docena (IIFP, UNLP, Argentine)

Oliver Pabst (RWTH Aachen university, Germany)

Brian Sheridan (Stony Brook University, NY, USA)

Tim Sparwasser (MH-Hannover, Germany)

Kenneth Beagley (Queensland University of Technology, Australia)

## Program (preliminary version)

### Day 1. Innate barriers and mucosal immune tissues

M1.- Development and structure of mucosal immune tissues. **Ifor Williams**

Lunch

M2.- Innate barriers: epithelial cells, stroma, mucus, M cells. **Kenneth Beagley**

M3.- Innate immunity. Receptors and inflammatory responses. **Tim Sparwasser**

Coffee break

Article discussions #1 (3 articles to be discussed in groups with experts)

Coffee Break

M4.- Skin Immunity. (speaker to be confirmed)

Dinner

### Day 2. Mucosal dendritic cells and macrophages. Driving T cell responses

T1.- Regionalized immunity along length of gut. Mononuclear phagocytes subsets and mechanism of antigen uptake. **William Agace**

T2.- Homing mechanisms. **Oliver Pabst**

Coffee Break

T3.- Control of the immune response: regulatory dendritic cells and macrophages, tissue repair and healing. **Eduardo Villablanca**

T4.- Myeloid cells in lung immunity. **Cecilia Johansson**

Lunch

T5.- Ontogeny and functional diversity of intestinal dendritic cell subsets in intestinal immunity.

**William Agace**

T6.- Isolation and characterization of mucosal macrophages and dendritic cells. **Tim Denning**

Coffee Break

Poster presentations

Dinner

### Day 3. Conventional and unconventional lymphocytes

W1.- Intraepithelial lymphocytes. **Brian Sheridan**

W2.- Mucosal B cells. **Oliver Pabst**

Coffee Break

W3.- Mucosal T cells: subsets, differentiation and function. **Tim Sparwasser**

W4.- Innate lymphoid cells in intestinal immunity and inflammation. **Eduardo Villablanca**

Lunch

W5.- Metabolomics, T cell activation and autoimmunity. **Tim Sparwasser**

W6.- Bioinformatic tools in immunology. **Helder Nakaya**

Coffee Break

Paper discussions #2 (3 articles to be discussed in groups with experts)

Dinner

## Day 4. Good and bad bugs

T1.- Microbiota and barrier functions. **Elena Verdu.**

T2.- Secretory IgA and microbiota. **Oliver Pabst**

Coffee Break

T3.- Gut immunity and microbiota. **Gabriel Nuñez**

T4.- Intestinal infections. **Brian Sheridan**

Lunch

T5.- Infections in the reproductive tract. **Kenneth Beagley**

T6.- Virus infection in the lung. **Cecilia Johansson**

Coffee Break

Poster Presentations

Dinner

## Day 5. Translational mucosal immunology

F1.- Immune mechanisms in asthma. **Cecilia Johansson**

F2.- Food allergy. **Guillermo Docena**

Coffee Break

F3.- Celiac disease. **Elena Verdu.**

F4.- Inflammatory bowel disease. (speaker to be confirmed)

Lunch

F5.- Microbiota-gut-brain axis: Implications for gastrointestinal disorders. **Giada de Palma**

Coffee Break

Social activities (Climbing a hill)

Dinner (gala)

## Day 6. Mucosal immunology: Back to the future

S1.- Mucosal vaccines. **Brian Sheridan**

S2.- Systems vaccinology. **Helder Nakaya**

break

S3.- Panel of discussion on the Future of MI. Chaired by **Tim Denning**

Lunch and farewell