

Immune dysregulation workshop Barcelona: From basics to clinics to advanced therapies

3rd Edition

FOCIS Center of Excellence (FCE) CIS-UB

Meeting

17.12.2025 -
19.12.2025

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Hybrid

Free registration on-site and online
16,5 hours

The 3rd Immune Dysregulation Workshop will bring together leading international experts to discuss the latest advances in the understanding, diagnosis, and treatment of immune dysregulation disorders.

Over three days, the program will span from basic mechanisms to clinical applications and cutting-edge therapies, with sessions on:

- Immune regulatory mechanisms
- Novel therapeutic strategies (Treg-based, thymic transplantation)
- Gene therapy and preclinical development
- CAR-T therapies in autoimmune and pediatric diseases
- Advanced therapy manufacturing in GMP facilities

Organizers:

Jordi Antón (HSJD), MD PhD
Laia Alsina (HSJD), MD Ph
Manel Juan (HCB), MD PhD
Juan I. Aróstegui (HCB), MD PhD
Alessandra Magnani (HSJD), MD PhD
Susana Rives (HSJD), MD PhD
Julio Delgado (HCB), MD PhD

Registration:
<https://bit.ly/immune-dysregulation-2025>

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Wednesday 17th December
Location: Tau room at CosmoCaixa.

14:15 – 14:30 h	Welcome Jordi Antón (HSJD), MD PhD, Laia Alsina (HSJD), MD Ph, Angel Font. (HCB), MD PhD
Table 1: Advances in mechanisms underlying immune dysregulatory diseases. Chairs: Laia Alsina & Alessandra Magnani	
14:30 – 15:00 h	Primary and secondary thymic defects: clinical and immunological phenotype. Rubén Barricarte , PhD. Vanderbilt University and Hospital Sant Joan de Déu Barcelona.
15:00 – 15:30 h	Impact of thymic damage on early T cell development. Marieke Lavaert , PhD. National Institute of Allergy and Infectious Diseases, NIH, Bethesda.
15:30 – 16:00 h	Role of IgD in peripheral tolerance. Andrea Cerutti , MD/PhD. IMIM. Barcelona
16:00 – 16:30 h	Harmony break.
Table 2: Advances in treatment in immune dysregulatory diseases. Chairs: Juan Ignacio Aróstegui & Laia Alsina	
16:30 – 17:00 h	Treg-cell based therapies. Rafael Correa , PhD. Laboratory of Immune-Regulation, Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, Spain.
17:00 – 17:30 h	Thymic transplantation. Alexandra Kreins , MD. University College London, London.
17:30 – 18:00 h	Treg phenotypes in primary immune regulatory disorders and impact of immunomodulatory drugs. Daniel Acevedo-Gomez , PhD. Hospital Sant Joan de Deu.
18:00 – 18:30 h	Tregs in SLE: Friends or Foes. Virginia Pascual , MD/PhD. Gale and Ira Drukier Director of Children’s Health Research, Weill Cornell Medical College. New York .

Thursday 18th December
Location: Tau room at CosmoCaixa

09:00 – 09:15 h	Welcome Manel Juan (HCB), MD PhD Alessandra Magnani (HSJD), MD PhD
Table 3: Gene therapy and preclinical studies. Chairs: Manel Juan & Carola Vinuesa	
09:15 – 09:55 h	Development of HDR mediated gene editing to correct RAG1 severe combined immunodeficiency. Anna Villa , MD/PhD. San Rafaelle. Milan.
09:55 – 10:35 h	Preclinical development of gene therapy for Major Histocompatibility Complex Class II (MHC II) Deficiency gene therapy. Alessandra Magnani , MD/PhD. Hospital Sant Joan de Deu. Barcelona.
10:35 – 11:00 h	Harmony break.
11:00 – 11:40 h	Vectors for integrative gene therapy. How to develop Lentivirus under GMP rules. Hugo Calderón , PhD. Hospital Clínic de Barcelona, Barcelona.
11:40 – 12:20 h	Advances in GT for rare diseases: Fanconi and LAD1. Juan Bueren , PhD. CIEMAT. Madrid.
12:20 – 14:00 h	Lunch and networking.
Table 4: CAR-T therapies. Chairs: Manel Juan & Susana Rives	
14:00 – 14:40 h	Understanding autoimmune disease relapse in B-cell-depleting CAR-T therapy. Carola García Vinuesa , MD/PhD. The Francis Crick Institute, London.
14:40 – 15:20 h	CAR T cells for paediatric indications: innovation and future perspectives. Concetta Quintarelli , PhD. Gene Therapy Lab, Ospedale Bambino Gesù, Rome.

15:20 – 15:45 h	Harmony break.	
15:45 – 16:25 h	Galectins as multifunctional glycocheckpoints : A sweet future for Immunotherapy? Gabriel A. Rabinovich, Ph.D, Senior Group Leader CaixaResearch Institute, Barcelona, Spain. Co-Founder and Scientific Leader Galtec.	
16:25 – 17:05 h	Long-term efficacy and safety of CART-19: Barcelona’s experiences.. Julio Delgado, MD/PhD. Hospital Clinic de Barcelona, Barcelona.	
17:05 – 17:45 h	Developing CAR-T clinical trials in Autoimmune diseases. H.U. Scherer, University of Leiden, Leiden.	
17:45 – 19:30 h	On-site visit to the new facilities CaixaResearch Institute.	

Friday 19th December.

Technical workshop in ATMP manufacturing.

Advanced Therapies Platform SJD-Clinic

Location: Pasteur room SJD Barcelona Children’s Hospital.

09:00 - 09:15 h	Welcome Alessandra Magnani (HSJD), MD PhD Julio Castaño, (HCB-HSJD) PhD.
09:15 - 10:30 h	Production of ATMPs in clean rooms. General concepts for developing and working in clean rooms. Structures and rules. Julio Castaño, PhD & Raquel Cabezon, PhD. Joint Platform for ATMPs HCB-HSJD.
10:30 - 11:00 h	Harmony break. 
11:00 - 12:00 h	Production of cell therapies. From DCs to TILs and CAR-Ts. Daniel Benitez, PhD & E. Azucena Gonzalez, PhD. Joint Platform for ATMPs HSJD- HCB.
12:00 - 13:00 h	Visit on-site to the “Advanced Therapies” Platform: Visits to the facility.
13:00 - 13:20 h	Final conclusions and farewell. Alessandra Magnani & Jordi Anton.

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