

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



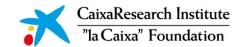
Hybrid
Free registration on-site and online
16,5 hours











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

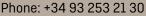
Organizers:

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

Contact

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	s day 17th December n: Tau room at CosmoCaixa.
	Welcome
14:15 - 14:30 h	Jordi Antón (HSJD), MD PhD, Laia Alsina (HSJD), MD Ph, Àngel Font . ("la Caixa" Foundation–CaixaResearch Institute), 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 -	Role of IgD in peripheral tolerance.
16:00 h	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 -	Thymic transplantation.
17:30 h	Alexandra Kreins, MD. University College London, London.

Treg phenotypes in primary immune regulatory disorders and impact of immunomodulatory 17:30 -18:00 h

Daniel Acevedo-Gomez, PhD. Hospital Sant Joan de Deu.

Tregs in SLE: Friends or Foes. 18:00 -18:30 h 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

	Development of HDR mediated gene editing to
09:15 -	correct RAG1 severe combined
09:55 h	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.
10:35 h	in bollololloy gollo illolapy.

Alessandra Magnani, MD/PhD. Hospital Sant Joan de Deu. Barcelona.

10:35 - 11:00 h	Harmony break.

Vectors for integrative gene therapy. How to 11:00 develop Lentivirus under GMP rules. 11:40 h

Hugo Calderón, PhD. Hospital Clínic de Barcelona, Barcelona.

Advances in GT for rare diseases: Fanconi and 11:40 -LAD1. 12:20 h

Juan Bueren, PhD. CIEMAT, Madrid.

Table	4: C4	R-T t	herapi	es.

Lunch and networking.

12:20 -

14:00 h

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.

CAR T cells for paediatric indications: innovation and future prospectives. 14:40 -15:20 h

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.

Friday 19th December.

Technical workshop in ATMP manufacturing.Advanced Therapies Platform SJD-Clinic
Location: SJD Barcelona Children's Hospital.

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09:00 -	Welcome
09:15 h	Alessandra Magnani (HSJD), MD PhD Julio Castaño, (HCB-HSJD) PhD.
	Production of ATMPs in clean rooms. General
09:15 - 10:30 h	concepts for developing and working in clean rooms. Structures and rules.
10.00 11	Julio Castaño , PhD & Raquel Cabezon , PhD. Joint Platform for ATMPs HCB-HSJD.
10:30 - 11:00 h	Harmony break.
11:00 -	Production of cell therapies. From DCs to TILs and CAR-Ts.
12:00 h	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 -	Final conclusions and farewell.
13:20 h	Alessandra Magnani ϑ Jordi Anton.

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