



Immunology and Cellular Therapies in Autoimmune Diseases

Milan, Italy
10-12 October 2024

Welcome!

"CAR T-cell, Cellular Therapies and Immunology in Autoimmune Diseases"

To the 1st Joint Educational Meeting of the Autoimmune Diseases Working Party (ADWP) and the Cellular Therapy and Immunobiology Working Party (CTIWP) of the EBMT, which will be held on October 2024 in Milan, Italy.

The programme will cover all aspects of innovative cellular therapies, particularly CAR-T cells, in relation to the pathophysiology and therapy of autoimmune diseases, including current and future indications, immunological mechanisms and novel targets.

Moreover, current practical challenges, early and late complications, infections, technologies (eg. new CAR-T cell strategies) and area of unmet need in relation to transplant and conventional treatments will be widely covered in this context.

A multidisciplinary approach is key in this field, and this educational meeting will bring together most of the world's leading experts, actively contributing to the evidence base and professional guidelines in the field, who will present their most recent work and describe the expected developments in the near future. In keeping with the scientific and educational scope of the meeting, the meeting will give delegates & sponsors the chance to lively interact and network with experts in the field.

We are looking forward to welcoming you to this Educational Meeting in Milano, and we kindly invite you to submit scientific abstracts and/or case presentations to be actively discussed in the sessions or as posters.

Yours sincerely,

Tobias Alexander, *Autoimmune Diseases WP Chair*

Raffaella Greco, *Former Chair Autoimmune Diseases WP Chair and local organiser*

Elisa Roldangalvan, *Autoimmune Diseases WP Secretary*

Annalisa Ruggeri, *Cellular Therapies and Immunology WP Chair and local organiser*

Jürgen Kuball, *Cellular Therapies and Immunology WP Vice-chair*

Florent Malard, *Cellular Therapies and Immunology WP Secretary*

Thursday, 10 October 2024

10:00 – 12:00	Autoimmune Diseases & Cellular Therapy and Immunobiology WP Scientific Business Meetings <i>Open for everybody</i>
12:45 – 13:45	Joint Autoimmune Diseases & Cellular Therapy and Immunobiology WP Scientific Business Meeting <i>Open for everybody</i>

14:00 – 15:00	Session I: Current EBMT indications Chairs: <i>Annalisa Ruggeri (IT) & Raffaella Greco (IT)</i> CART cells: standard indications and EBMT registry EBMT Recommendations for autoimmune diseases undergoing CART cells EBMT standard indications for HSCT in autoimmune diseases	Annalisa Ruggeri (IT) Raffaella Greco (IT) John Snowden (UK)
15:00 – 16:30	Session II: Pathophysiology and novel therapeutic targets Chairs: <i>Florent Malard (FR) & Tobias Alexander (DE)</i> Rheumatic and musculoskeletal diseases Neurological autoimmune diseases Microbiome <i>Case presentation:</i> Refractory Myasthenia Gravis Treated with Autologous Hematopoietic Cell Transplantation <i>Case presentation:</i> Myelopathy after CAR T therapy: acute and delayed neurotoxicity <i>Case presentation:</i> Anti-CD19 chimeric antigen receptor T cell therapy successfully depletes B cells in the peripheral blood and lymphatic organs of a patient with systemic lupus erythematosus	Hans Ulrich Scherer (NL) Paolo Muraro (UK) Florent Malard (FR) Jan Storek (CA) Carolina Rush (CA) Ioanna Minopoulou (DE)
16:30 – 17:00	Coffee Break	
17:00 – 17:45	Keynote lecture Chairs: <i>Jürgen Kuball (NL) & Katharina Fleischhauer (DE)</i> Challenges in Cell Therapy: TCR & CART	Chiara Bonini (IT)

Friday, 11 October 2024

09:00 – 10:00

Session III: Immunology

Chairs: *Simona Pagliuca (FR) & Hans Ulrich Scherer (NL)*

09:00 – 09:20

Immune monitoring post HSCT

09:20 – 09:40

Immune monitoring post CART

09:40 – 10:00

GoCART update

Elena Tassi (IT)

Simona Pagliuca (FR)

Jürgen Kuball (NL)

10:00 – 10:45

Industry Symposium “CAR T cell therapy in autoimmune diseases – clinical experience with KYV-101” by Kyverna

10:00 – 10:05

Welcome and Introductions

Dominic Borie (US)

10:05 – 10:20

Early Experiences with Anti-CD19 CAR T-Cell Therapies in Autoimmune Diseases

Dimitrios Mougiakakos (DE)

10:20 – 10:30

Perspectives on CAR T-Cell Therapy in Autoimmune Diseases

Raffaella Greco (IT)

10:30 – 10:45

Case Presentations of CAR T-Cells in Neurologic Autoimmune Diseases

Aiden Haghikia (DE)

10:45 – 11:15

Coffee Break

11:15 – 12:55

Session IV: Controversies in Cellular Therapies (part I)

Chairs: *Nicoletta del Papa (IT) & Annalisa Ruggeri (IT)*

11:15 – 11:55

Systemic Lupus Erythematosus

11:15 – 11:25

Standard treatment

Luca Moroni (IT)

11:25 – 11:35

HSCT

Tobias Alexander (DE)

11:35 – 11:45

CART cells

Tobias Alexander (DE)

11:45 – 11:55

Round table discussion

12:05 – 12:55

Systemic Sclerosis/Myositis

12:05 – 12:15

Standard treatment

Marco Matucci (IT)

12:15 – 12:25

HSCT

Nicoletta del Papa (IT)

12:25 – 12:35

CART cells in Systemic Sclerosis

Christina Bergmann (DE)

12:35 – 12:45

CART cells in myositis

Jörg Henes (DE)

12:45 – 12:55

Round table discussion

12:55 – 14:00

Lunch Break

14:00 – 15:40

Session IV: Controversies in Cellular Therapies (part II)

Chair: *Paolo Muraro (UK) & Massimo Filippi (IT)*

14:00 – 14:40

Multiple Sclerosis

14:00 – 14:10

Standard treatments in Multiple Sclerosis

Sara Gil-Perotín (SP)

14:10 – 14:20

HSCT in Multiple Sclerosis

Matilde Inglese (IT)

14:20 – 14:30

CART in Multiple Sclerosis

Chris Heesen (DE)

14:30 – 14:40

Round table discussion

14:50 – 15:40

Rare neurologic indications

14:50 – 15:00

Standard treatments in Neuromyelitis Optica

Lucia Moiola (IT)

15:00 – 15:10

HSCT in Neuromyelitis Optica and Myasthenia Gravis

Basil Sharrack (UK)

15:10 – 15:20

CART cells in Neuromyelitis Optica

Wei Wang (CN)

15:20 – 15:30

CART cells in Myasthenia Gravis

Aiden Haghikia (DE)

15:30 – 15:40

Round table discussion

15:40 – 16:10

Coffee Break

16:10 – 17:20

Session V: Novel CAR technologies and indications

Chair: *Matteo Doglio (IT) & Vanderson Rocha (BR)*

16:10 – 16:25

Heterogeneity & efficacy of different engineered T cells

Jürgen Kuball (NL)

16:25 – 16:40

Increasing access of CAR T cell in Brazil

Vanderson Rocha (BR)

16:40 – 16:55

"Off-the-Shelf" Allogeneic CART: how to overcome GvH and host alloreactivity

Eolia Brissot (FR)

16:55 – 17:10

CAR Tregs in autoimmunity

Matteo Doglio (IT)

17:10 – 17:20

Case presentation: CAR T therapy for poly-refractory seropositive rheumatoid arthritis

Doron Rimar (IL)

Saturday, 12 October 2024

08:30 – 09:00	Special lecture in memory of Riccardo Saccardi Chairs: <i>Raffaella Greco (IT) & Annalisa Ruggeri (IT)</i> The long journey of HSCT in Multiple Sclerosis: from biology to clinical setting	Paolo Muraro (UK)
09:00 – 10:00	Session VI: CART cell toxicities Chair: <i>Ana Alarcón (SP) & Basil Sharrack (UK)</i>	
09:00 – 09:20	Cytokine Release Syndrome and Neurologic Toxicities for CART (incl. case)	Ana Alarcón (SP)
09:20 – 09:40	CART kinetics in PB/CSF for MS patients: correlation with outcome and toxicities	Johanna Richter (DE)
09:40 – 10:00	Toxicity profile of CART cells in ADs	Fabian Müller (DE)
10:00 – 10:45	Industry Symposium “CAR T Cell Therapy: Bringing a Decade of Experience to Patients with Autoimmune Diseases” by Bristol Myers Squibb	
10:00 – 10:05	Introduction	Reuben Benjamin (UK)
10:05 – 10:20	Optimizing CAR T Cell Therapy: Challenges and Opportunities	Reuben Benjamin (UK)
10:20 – 10:40	Future perspectives of CAR-T	Melanie Hagen (DE)
10:40 – 10:45	Summary and Q&A	
10:45 – 11:15	Coffee Break	
11:15 – 12:15	Session VII: Late complications after cellular therapies Chairs: <i>John Snowden (UK) & Johanna Richter (DE)</i>	
11:15 – 11:35	Autoimmune complications post allo-HSCT	Arsene Mekinian (FR)
11:35 – 11:55	Secondary malignancies after CART cells	Fabio Ciceri (IT)
11:55 – 12:55	Session VIII: Other cellular therapeutic approaches Chairs: <i>Rosamaria Nitti (IT) & Tobias Alexander (DE)</i>	
11:55 – 12:15	Neural stem cells	Angela Genchi (IT)
12:15 – 12:35	Mesenchymal stromal cells	Dominique Farge (FR)
12:35 – 12:55	Induced pluripotent stem cells	Richard Burt (US)
12:55 – 13:00	Take-home messages from all the organizers	



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