

EAACI SUMMER SYMPOSIUM ON EPITHELIAL BARRIERS AND MICROBIOME

Organizers: Cezmi Akdis, Ioana Agache

Abstract submission deadline: 10 June 2022

Registration fee: 200 Euro including two lunches, 3 coffee breaks and one dinner & discuss dinner.

Venue: Alpine Medicine Campus Davos-Wolfgang

Day 1: 28 July 2022, Thursday

08.30 -10:00 Development of Allergy & Autoimmunity

Chairs: Marek Jutel, Ioana Agache

Erika von Mutius: The Hygiene Hypothesis (25 min including Q & A)

Tari Haahtela: The Biodiversity Hypothesis (25 min including Q & A)

Cezmi Akdis: The Epithelial Barrier Hypothesis (25 min including Q & A)

15 Minutes general discussion

10.00-10.30 Coffee break

10.30 - 12.00 Molecular control of epithelial barrier integrity

Chairs: Ruby Pawankar, Harald Renz, Marie Charlotte-Brüggen

Eran Elinav: Molecular control of the gut epithelial barrier integrity (30 min including Q & A)

6 Short Talks, 10 min each

12.00-14.30 Lunch break

Lake walk with the experts: Groups of 10-12 will walk together and brainstorm after taking their lunch boxes.

Ioana Agache, Erika von Mutius, Kari Nadeau, Hideaki Morita, Eran Elinav, Harald Renz, Tari Haahtela, Claudia Traidl-Hoffmann, Marek Jutel, Oscar Palomares, Mario Zaiss, Isabella Annesi-Maesano.

14.30-16.00 Factors that induce epithelial barrier leakiness

Chairs: Eran Elinav, Isabella Annesi-Maesano, Milena Sokolowska

Hideaki Morita: Inhaled laundry detergents induce eosinophilic airway inflammation through IL-33 and ILC2 activation (25 min including Q & A)

6 Short Talks, 10 min each

16.00-17.00 Novel techniques for an extensive look at the defective epithelial barriers

Chairs: Hideaki Morita, Ismail Ogülür

Yasutaka Mitamura: Single cell seq, visium spatial, imaging mass cytometry and targeted proteomics for the investigation of atopic dermatitis lesions (25 min including Q & A)

3 Short Talks, 10 min each

17.00-17.30 Coffee break

17.30 - 19.00 Barrier immune response allergy and autoimmunity

Chairs: Isabella Annesi-Maesano, Milena Sokolowska

Mario Zaiss: Gut barrier and rheumatoid arthritis (25 min including Q & A)

Kari Nadeau: Immune response in epithelial barrier leaky individuals (25 min including Q & A)

3 Short Talks, 10 min each

19.15-21.00 Buffet Dinner and drinks, Poster session - Dip and Discuss

There will be approximately 35 posters for the chaired and interactive poster walk. Max 8 posters per session. All the faculty will attend the poster walk.

Day 2: 29 July 2022, Friday

08.30 Microbiome and epithelial barriers in the skin and lung

Chairs: Cezmi Akdis, Tari Haahtela

Claudia Traidl-Hoffmann: Microbiome and epithelial barriers (25 min including Q & A)

Ioana Agache: Epithelial inflammation in the asthmatic lung (25 min including Q & A)

3 Short Talks, 10 min each

Roland H. Stauber: Nanomaterial-microbe crosstalk - principles and (patho)biological consequences for epithelial barriers 10 minutes including Q & A

10 Minutes general discussion

10.00-10.30 Coffee break

10.30 - 12.00 Interactive Symposium/Workshop

Air pollution asthma and impact of treatments

Chairs: Mübeccel Akdis, Kari Nadeau

Isabella Annesi Maesano: Air pollution asthma and allergy in the exposome era (25 min including Q & A)

Marek Jutel: Asthma and the impact of biological treatments on microbiome and epithelial barrier (25 min including Q & A)

10 Minutes general discussion

3 Short Talks, 10 min each

12.00-13.00 Lunch break

13.00-14.00 Epithelial cells and viral infections

Chairs: Mario Zaiss, Oscar Palomares

Milena Sokolowska: Epithelial cell responses in COVID-19 and rhinovirus infections (25 min including Q & A)

Ruby Pawankar: Epithelial cells and chronic rhinosinusitis (25 min including Q & A)

10 Minutes general discussion

3 Short Talks, 10 min each

14.00-15.30 Novel interactions between the epithelial barriers and microbiome

Chairs: Willem Van de Veen, Yasutaka Mitamura

Harald Renz: Models of epithelial barrier and microbiome (25 min including Q & A)

Oscar Palomares: Novel molecular regulation of dendritic cells, microbiome and epithelial barriers (25 min including Q & A)

10 Minutes general discussion

3 Short Talks, 10 min each

15:30 End of the symposium