

ERS Research Seminar

Preventing asthma – are we ready to translate epidemiological and mechanistic studies into reality?

17 – 18 April 2023
Berlin, Germany

Monday, 17 April 2023

08:45 – 09:00 Registration

Session 1: What immune mechanisms should be targeted for primary prevention studies?

Chair: Debby Bogaert

09:00 – 09:20 What are key immune mechanisms for asthma onset in humans? – *Donata Vercelli (US)*

09:20 – 09:40 Trained innate immunity, a new target for asthma prevention? – *Milena Sokolowska (CH)*

09:40 – 10:00 Discussion

10:00 – 10:15 OP1_Deciphering the roles of *S. aureus* nasal carriage and *S. aureus* toxins in allergic sensitization and inflammation in patients and mouse models – *Sabine Stegemann-Koniszewski (DE)*

10:15 – 10:25 Discussion

10:25 – 11:00 *Coffee break*

11:00 – 11:20 Improving mucosal barrier function; a useful therapeutic strategy? – *Hermelijn Smits (NL)*

11:20 – 11:40 New mechanistic data on bacterial lysates – *Christian Pasquali (CH)*

11:40 – 12:00 Discussion

12:00 – 13:00 *Lunch*

13:00 – 14:00 Poster viewing

Session 2: From bench to bedside

Chair: Jonathan Grigg

14:00 – 14:20 The respiratory and gut microbiome; can we change its compositional structure? – *Debby Bogaert (UK)*

14:20 – 14:40 Data from the whole heat-inactivated polybacterial formulation MV130 – *Oscar Palomares (ES)*

14:40 – 15:10 Milk and their products; what should our children consume? – *Markus Ege (DE)*

15:10 – 15:40 Discussion

15:40 – 15:55 OP2_The impact of viral infections on children and adults with asthma and wheeze - lesson learned from the COVID-19 pandemic – *Nicole Maison (DE)*

15:55 – 16:05 Discussion

16:05 – 16:20 *Coffee break*

16:20 – 16:40 Parasite products for the prevention and treatment of asthma – *Rick Maizels (UK)*

16:40 – 17:00 Early allergen introduction; when and to whom to apply? – *Adnan Custovic (UK)*

17:00 – 17:30 Discussion and round up of day

17:30 – 18:00 Poster viewing

19:00 *Dinner*

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Session 3: Theory into practice – therapeutic trials

Chair: Adnan Custovic

08:30 – 08:50 Fish oil in pregnancy; just do it – or more studies needed? – *Klaus Bonnelykke (DK)*

08:50 – 09:10 Protecting the fetus and the child from the toxic breathed environment; is it possible? – *Ben Barratt (UK)*

09:10 – 09:30 Discussion

09:30 – 09:45 OP3_ *Moraxella catarrhalis* alters airway epithelial immune and repair responses in severe recurrent preschool wheeze – *Katie L Bonner (UK)*

09:45 – 09:55 Discussion

09:55 – 10:30 *Coffee break*

10:30 – 10:50 Epidemiological studies; false leads or future directions? – *Seif Shaheen (UK)*

10:50 – 11:10 Discussion

11:10 – 11:20 Parent feedback of Seminar

11:20 – 12:20 Round up of day, feedback, award for best presentation and of best poster, key outputs

12:30 *Lunch and departure*