

UNIVERSITY OF COPENHAGEN
LEO FOUNDATION SKIN IMMUNOLOGY
RESEARCH CENTER



11-13 October, 2021
Summer School 2021
The Skin Barrier


LEO Foundation Skin Immunology Research Center · sic@sund.ku.dk

Programme · All sessions are in the 1st floor living room.

Monday, 11 October
The microbiome and the skin

Chair: Charlotte Menné Bonefeld · Co-chair: Berthe Fill

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| 12:00 | Arrival |
| 13:00 | Welcome |
| 13:10 | Liam O'Mahony, National University of Ireland: Skin microbiome in health and diseases – VIRTUAL |
| 13:45 | John E. Common, Skin Research Institute of Singapore: Skin microbiome and atopic dermatitis – VIRTUAL |
| 14:20 | Break |
| 14:50 | Padraic G. Fallon, Trinity College Dublin: Skin microbiome, barrier and innate immunity: Tails of mice and men |
| 15:30 | Johannes Mayer, University of Marburg: Homeostatic IL-13 conditions dermal dendritic cells to Th2 differentiation |
| 15:45 | Vijaykumar Patra, International Center for Infectiology Research (CIRI): Skin microbiome limits cis-urocanic acid induced immune suppression |
| 16:00 | Break |
| 16:20 | Mübeccel Akdis, SIAF, University of Zurich: Induction of immune tolerance by immunotherapy |
| 17:00 | Tiffany C. Scharschmidt, University of California, San Francisco: Microbiome-immune crosstalk in skin – VIRTUAL |
| 18:30 | Dinner |
| 20:15 | Poster session |



Tuesday, 12 October
The physical and chemical skin barrier

Chair: Anders Woetmann · Co-chair: Anne-Sofie Ø. Gadsbøll

- 09:00 Sanja Kezic, Academic Medical Center, Amsterdam: The skin barrier-focus on filaggrin and NMF
- 09:40 Cezmi A. Akdis, SIAF, University of Zurich: Regulation of the tight junction barrier
- 10:20 Break
- 10:50 Mads Gyrd-Hansen, University of Copenhagen: Ubiquitin Signalling in inflammation and innate immunity
- 11:30 Julia Nenonen, Karolinska Institutet: Skin infiltrating NK cells in primary cutaneous T-cell lymphoma are increased in number and have an altered phenotype partly induced by the lymphoma
- 11:45 Sofia Ferreira-Gonzalez, University of Edinburgh: Cellular senescence in aging skin, the new frontier in regenerative medicine
- 12:00 Mahya Hosseini Bondarabadi, Amsterdam UMC: 3D Skin Equivalent as a novel platform for studying Hand, Foot, and Mouth Disease
- 12:15 Lunch
- 13:15 Meet the Professor, discussion in small groups – coffee

Programme · All sessions are in the 1st floor living room.

Tuesday, 12 October

The immunological skin barrier

Chair: Mads Gyrd-Hansen · Co-chair: Elena Hoffer

- 14:30 Muzlifah Haniffa, Newcastle University: The role of dendritic cells in the skin
- 15:10 Stefano Soldano, University of Genoa: Skin fibrosis in systemic sclerosis: pathogenic role of fibroblasts, their precursors and immune cells
- 15:25 Zheng Song, University Medical Center Hamburg-Eppendorf (UKE): The NSP3 protein of SARS-CoV-2 inhibits the innate immune responses through NF- κ B pathway
- 15:40 Longlong Luo, Karolinska Institutet: The long non-coding RNA LINC00958 is overexpressed in psoriasis epidermis and induces keratinocyte proliferation
- 15:55 Break
- 16:25 Liv Eidsmo, University of Copenhagen: Human tissue-resident memory T cells in healthy and sick skin
- 17:05 Ana Sofia Evora, University of Birmingham: Corneocytes – bricks against mechanical load? Biomechanical and topographical characterization of corneocytes
- 17:20 Bruno Rocha Cordeiro Costa, Charité University Medicine Berlin: Unveiling the interplay between innate lymphoid cells, microbiota and epithelium in the skin
- 18:30 Dinner

Wednesday, 13 October

Therapeutic targeting the skin barriers

Chair: Liv Eidsmo · Co-chair: Martin Kongsbak-Wismann

- 09:00 Bernhard Homey, University of Duesseldorf: Therapeutic targeting epithelial/immune pathways in skin diseases - VIRTUAL
- 9:35 Lise Gether, Gentofte Hospital: Treatment with full-body betamethasone 0.1% ointment increases peripheral insulin sensitivity in adults with atopic dermatitis
- 9:50 Varsha Dwivedi, Medical University of Vienna: Preventive application of allergen immunotherapy in sensitized pre-school children
- 10:05 Eduardo Gushiken-Ibañez, University of Zurich: Aryl hydrocarbon receptor (AhR) signaling in the host response directed against the skin commensal yeast *Malassezia*
- 10:20 Break
- 10:50 Thomas Emmanuel, Aarhus University Hospital: The molecular scar in complete responders of secukinumab and Dead Sea climatotherapy: An immunohistochemical-, transcriptome- and digital spatial profiling
- 11:05 Irène Gallais Sérézal, Besançon University Hospital: Local spreading of epidermal tumors: Is the TRM cell-driven immune surveillance failing?
- 11:10 Quoc Dat Pham, Lund University: Solubility and lipid/corneocyte partitioning in stratum corneum at different hydration
- 11:25 Niels Ødum, University of Copenhagen: Antibiotics in treatment of CTCL – VIRTUAL
- 12:00 Lunch and departure

Venue

The Summer School will be held at atmospheric Hotel Hornbækhus in Hornbæk, Denmark: www.hornbaekhus.com

Accommodation will be provided at Hotel Hornbækhus, Villa Strand and Ewaldsgaarden.

Keys for hotel rooms will be ready for pick-up at Hotel Hornbækhus on Monday afternoon. Rooms must be left at 10:00 on Wednesday.

Breakfast for all speakers and participants opens at 8:00 at Hotel Hornbækhus.

Addresses

Hotel Hornbækhus
Skovvej 7, 3100 Hornbæk

Villa Strand
Kystvej 12, 3100 Hornbæk

Ewaldsgaarden
Johannes Ewalds Vej 5, 3100 Hornbæk

Transportation

Take the train from Copenhagen Airport to Helsingør (Elsinore) Station. The train departs from the airport every 20 minutes.

If you are departing from Copenhagen you can get on the train at Copenhagen Central Station/København H, Nørreport Station or Østerport Station.

At Helsingør Station, take the local train towards Gilleleje and get off at Hornbæk Station. The train departs approx. every 30 minutes.

You can plan your trip and find train departure times at www.journeyplanner.dk

Speakers

Liam O'Mahony, National University of Ireland
John E. Common, Skin Research Institute of Singapore
Padraic G Fallon, Trinity College Dublin
Mübeccel Akdis, SIAF, University of Zurich
Tiffany C. Scharschmidt, University of California, San Francisco
Sanja Kezic, Academic Medical Center, Amsterdam
Cezmi A. Akdis, SIAF, University of Zurich
Mads Gyrd-Hansen, University of Copenhagen
Muzlifah Haniffa, Newcastle University
Liv Eidsmo, University of Copenhagen

Short talks and poster session

If you have been asked to give a short talk in the programme, we ask you to bring your presentation on a USB stick and to transfer the presentation to the meeting laptop before your current session begins.

Please place your poster on a poster board in the poster area (small dining room and the flower room) upon arrival on Monday and clear away on Wednesday morning. Poster dimensions: Height 138 cm x width 92 cm (max.)

Meet the professor session

Please sign up for a meet the professor session using the link distributed on e-mail.

Connect on social media

You can add your LinkedIn and Twitter profiles to the participant list to stay connected with other participants. See the guide distributed on e-mail.

You can also follow the LEO Foundation Skin Immunology Research Center on LinkedIn and @skinucph on Twitter. Use #SICSummerSchool to share your experiences from the Summer School.

Participant list

Ana Sofia Evora, University of Birmingham
Anders Woetmann, University of Copenhagen
Anna Cazzola, University of Copenhagen
Anne-Sofie Ø. Gadsbøll,
University of Copenhagen
Avinash Padhi, Karolinska Institutet
Berthe Katrine Fiil, University of Copenhagen
Bitten Dalsgaard, University of Copenhagen
Blaine Fritz, University of Copenhagen
Borislav Ignatov, Karolinska Institutet
Bruno Rocha Cordeiro Costa,
Charité University Medicine Berlin
Carsten Geisler, University of Copenhagen
Charlotte Malassé, University of Copenhagen
Charlotte Menné Bonefeld,
University of Copenhagen
Chris Kedong Wang, University of Copenhagen
Eduardo Gushiken-Ibañez, University of Zurich
Ekaterina Zhuravleva, University of Copenhagen
Elena Hoffer, Karolinska Institutet
Emil Marek Heymans Pallesen,
University of Copenhagen
Emilie Marie Nielsen, University of Copenhagen
Fatima Aljaberi, University of Copenhagen
Frederik Timmermann,
University of Copenhagen
Goda Snieckute, University of Copenhagen
Gustavo Ferreira Alves, University of Turin
Hanako Yoshioka, Karolinska Institutet
Helen Vaher, University of Tartu
Irène Gallais Sérézal,
Besançon University Hospital
Jennifer Astrup Sørensen, Bispebjerg Hospital
Johannes Mayer, University of Marburg
John Rizk, University of Copenhagen
Julia Nenonen, Karolinska Institutet
Julie Weber, University of Copenhagen
Kelvin Yeung, University of Copenhagen
Lars Kruse, LEO Foundation
Lene Bay, University of Copenhagen
Li Li, Harvard University
Lisa Harth, University of Copenhagen
Lise Gether, Gentofte Hospital

Longlong Luo, Karolinska Institutet
Louise Aagaard, University of Copenhagen
Mahya Hosseini Bondarabadi, Amsterdam UMC
Malin Jessen, Copenhagen University
Mandy Menzel, University of Copenhagen
Maria Gluud Grøndahl,
University of Copenhagen
María Teresa Martin Monreal, Rigshospitalet
Marina Ramírez Galera,
University of Copenhagen
Marina Torrealba, University of Sao Paulo
Martin Namini, University of Copenhagen
Martin Kongsbak-Wismann,
University of Copenhagen
Michael Wennervaldt, Gentofte Hospital
Naricha Pupinyo, Karolinska Institutet
Nicolai Skovbjerg Arildsen,
University of Copenhagen
Nils Erik Samdal,
University of Copenhagen
Paola Lovato, LEO Pharma
Quoc Dat Pham, Lund University
Rosemary Fallon
Sofia Ferreira-Gonzalez, University of Edinburgh
Stefano Soldano, University of Genoa
Stella Karsten, Karolinska Institutet
Stine Hoffmann, Gentofte Hospital
Terkild Buus, University of Copenhagen
Thomas Emmanuel, Aarhus University Hospital
Thomas Litman, University of Copenhagen
Thorbjørn Krejsgaard,
University of Copenhagen
Trine Schönfeldt, University of Copenhagen
Tu Hu, LEO Pharma
Varsha Dwivedi, Medical University of Vienna
Veronika Mráz, University of Copenhagen
Vijaykumar Patra, International Center for
Infectiology Research (CIRI)
Wenning Zheng, University of Copenhagen
Wenxin Lyu, University of Copenhagen
Xin Jiang, University of Copenhagen
Zheng Song, University Medical Center
Hamburg-Eppendorf (UKE)
Zhenzhen Wu, University of Copenhagen

Photos: Skipper Photography and Hotel Hornbækhus · Design: Kilborg Design

