

7TH SCIENCE DAYS 2022 SCIENTIFIC PROGRAMME

as per 22 July 2022

Thursday, September 15, 2022

15:00 - 16:00 Arrival and poster set up

16:00 – 17:00 *Get Together*

17:00-18:00 Opening

Welcome and Introduction by the Organizing Committee

*Stefan Blunder (Innsbruck), Patrick Brunner (New York), Nicole Golob-Schwarzl (Graz),
Josefina Pinon Hofbauer (Salzburg), Susanne Kimeswenger (Linz)*

Impulse talk: Human skin cell atlas
Muzlifah Haniffa (Newcastle)

18:00 -19:30 Session 1

Discussion leaders: Peter Wolf (Graz) & Matthias Farlik (Vienna)

18:00 – 18:45 **3D floating skin organoids and skin regeneration**
Dirk Strunk (Salzburg)

18:45 – 19:00 Epidermal growth factor receptor protects the immune privilege of the hair follicle
Karoline Strobl (Vienna)

19:00 – 19:15 CRISPR/Cas9-based COL17A1 reframing strategies in junctional epidermolysis bullosa
Thomas Kocher (Salzburg)

19:15 – 19:30 Induced pluripotent stem cell-based disease modeling of Fabry disease
Julia Deinsberger (Vienna)

20:00-22:00 Dinner and poster viewing

Friday, September 16, 2022

08:30 – 10:00 Session 2

Discussion leaders: Wolfram Hötzenecker (Linz) & Patrizia Stoitzner (Innsbruck)

- 8:30 – 09:15 **Multiplex cellular imaging in skin**
Charlotte Brügggen (Davos/Zurich)
- 9:15 – 9:30 Stromal-immune cell interactions regulate establishment of tissue residency in the skin after hematopoietic stem cell transplantation
Laura Gail
- 9:30 – 9:45 Localization and function of skin cancer-associated fibroblasts
Bertram Aschenbrenner
- 9:45 – 10:00 RTN1A controls Langerhans cell morphology and residency in human skin
Malgorzata Anna Cichon

10:00 – 10:30 Coffee break

10:30 – 12:30 Session 3

Discussion leaders: Natalie Bordag (Graz) & Verena Moosbrugger-Martinz (Innsbruck)

- 10:30 – 11:15 **NMR-based metabolomics: what can it provide in dermatology and venerology?**
Tobias Madl (Graz)
- 11:15 – 11:30 Crosstalk between macrophages and T cells drive granuloma formation in sarcoidosis
Lisa Kleissl (Vienna)
- 11:30 – 11:45 Eukaryotic translation initiation factor 4E (eIF4E) as a target of anti-psoriatic treatment
Azelma Vrebo (Graz)
- 11:45 – 12:00 Metabolic and functional dysregulation of tissue-specific human regulatory T cells in chronic inflammatory diseases
Teresa Neuwirth (Vienna)
- 12:00 – 12:15 Topical Bisphenol A exposure leads to atopic-dermatitis like features
Deborah Minzaghi (Innsbruck)
- 12:15 – 12:30 Transcriptomic profiling of dupilumab-associated head and neck dermatitis reveals a pronounced type 22 immune signature
Natalia Alkon (Vienna)

12:30 – 15:30 Poster viewing

15:30 – 17:00 Session 4

Discussion leaders: Anshu Sharma (Salzburg) & Yong Yu (Linz)

- 15:30 – 16:15 **Bioinformatics for precision oncology**
Zlatko Trajanoski (Innsbruck)
- 16:15 – 16:30 Transcriptome-based drug repurposing identifies Selumetinib as drug candidate for the treatment of RDEB-SCCs
Sonja Dorfer (Salzburg)
- 16:30 – 16:45 Single-cell RNA sequencing analyses of primary cutaneous B-cell disorders reveal distinct molecular patterns consistent with clinical behavior
Johannes Griss (Vienna)
- 16:45 – 17:00 Epidermal growth factor receptor regulates host - microbiome interplay in a distinct hair follicle cell population
Lena Artner (Vienna)

17:00 – 17:30 *Coffee break*

17:30 – 19:00 Session 5

Discussion leaders: Roland Zauner (Salzburg) & Erwin Tschachler (Vienna)

- 17:30 – 18:15 **Human Immune Monitoring Coming of Age**
Shai Shen-Orr (Haifa)
- 18:15 – 18:30 The role of dendritic cells in tumor-targeted therapy mediated anti-tumor immunity
Florian Hornsteiner (Innsbruck)
- 18:30 – 18:45 IL-17A+ mast cells in resolved psoriasis
Theresa Benezeder (Graz)
- 18:45 – 19:00 Exploring the role of cytokines in promoting the development of Squamous Cell Carcinoma in Epidermolysis Bullosa
Anshu Sharma (Salzburg)

Saturday, September 17, 2022

08:30 – 10:00 Session 6

Discussion leaders: Clemens Painsi (Klagenfurt) & Christina Guttman-Gruber (Salzburg)

- 8:30 – 09:15 **Histopathology in clinics and research**
Lorenzo Cerroni (Graz)
- 9:15 – 9:30 STAT3/5 loci gain is a disease marker and therapeutic vulnerability in
Leukemic Cutaneous T cell lymphoma
Saptaswa Dey (Graz)
- 9:30 – 9:45 Single-cell RNA sequencing reveals specific T cell and fibroblast populations
that can distinguish early mycosis fungoides from parapsoriasis and atopic
dermatitis lesions
Natalia Alkon (Vienna)
- 9:45 – 10:00 Deciphering the Role of Immunogenic Cell Death in Extracorporeal
Photopheresis
Angelika Lackner (Linz)

10:00 – 11:00 Speed Talks

Discussion leaders: Stefan Blunder (Innsbruck), Patrick Brunner (New York),
Nicole Golob-Schwarzl (Graz), Josefina Pinon Hofbauer (Salzburg), Susanne Kimeswenger (Linz)

Modelling Darier disease using human epidermal organoids
Rishika Agarwal (Basel)

Epigenetic modifiers of disease phenotypes: epidermolysis bullosa as a paradigm
Julia Illmer (Salzburg)

Borrelia migration and endothelial dysfunction in erythema migrans of the skin
Sophie Weninger (Vienna)

MeToI - Investigating the Mechanisms of early Tolerance-Induction by specific
Immunotherapy using hymenoptera venom
Stefan H. Aigner (Linz)

Gene therapy of an EPPK-causing K9 variant in primary keratinocytes
Thomas Trafoier (Innsbruck)

T cell deficiency associated with downregulation of GPI-anchored proteins
Katja Knapp (Vienna)

Single-cell RNA sequencing analysis of a COVID-19-associated maculopapular rash in a psoriasis patient treated with ustekinumab

Katharina Rindler (Vienna)

Apremilast in oral lichen planus – a multicentric, retrospective study"

Leonard Perschy (Vienna)

The impact of the COVID-19 pandemic on melanoma diagnoses

Patrick Weltler (Vienna)

The positive effect of spermidine in older adults suffering from dementia

Reinhart Jarisch (Vienna)

11:00 – 11:30 *Coffee break*

11:30 – 13:00 **Session 7**

Discussion leaders: Tobias Madl (Graz) & Daniela Ortner-Tobider (Innsbruck)

11:30 – 12:15 **Applications of Mass Spectrometry in Biomedical Research**

Harald Köfeler (Graz)

12:15 – 12:30 Targeted Cancer Therapy Initiates Hair Canal Dysfunction and Folliculitis

Regina Jin (Vienna)

12:30 – 12:45 eIF1A and eIF3B as new treatment options in psoriasis: a metabolic perspective

Natalie Bordag (Graz)

12:45 – 13:00 Differential UV-induced cytokine expression in dependence to skin microbiome in Polymorphic Light Eruption

Maximilian Zarfl (Graz)

13:00 *Prizes and closing remarks*