



53rd ANNUAL ESDR MEETING

4-7 September 2024, Lisbon, Portugal

Concurrent 7: Immunology III

Date: Saturday 7 September 2024

Time: 13.00-14.30

Room: Auditorium 1

Chairs: Abel Lee, Stefanie Eyerich

1. 13.00-13.10

Oral 069 [POSTER 007]

Tick feeding induces lymphatic emigration and pro-tolerogenic immune response in human epidermal Langerhans cells

J Strobl,^{1,2} L Kleissl,^{2,1} M Wijnveld,³ S Weninger,¹ A Kopf,^{2,1} L Gail,^{2,1} M Markowicz,⁴ H Stockinger³ and G Stryl,^{1,2} *1 Department of Dermatology, Medical University of Vienna, Vienna, Austria, 2 Austrian Academy of Sciences, CeMM Research Center for Molecular Medicine, Vienna, Austria, 3 Institute for Hygiene and Applied Immunology, Center for Pathophysiology, Infectiology and Immunology, Medical University of Vienna, Vienna, Austria and 4 Austrian Agency for Health and Food Safety (AGES), Vienna, Austria*

2. 13.10-13.20

Oral 070 [POSTER 008]

Mitochondrial genomic and metabolic alterations in melanocytes lead to innate immune activation in vitiligo

AC Sant'Anna-Silva,^{1,2} T Botton,^{1,2} A Rossi,³ H Bziouche,^{1,2} K Kleszczynski,⁴ K Steinbrink,⁴ S Rocchi,^{1,2} J Krutmann,³ T Passeron^{1,2} and MK Tulic^{1,2} *1 C3M, INSERM U1065, Nice Cedex 3, France, 2 University of Côte d'Azur, Nice, France, 3 IUF-Leibniz Research Institute for Environmental Medicine, Düsseldorf, Germany and 4 Department of Dermatology, University Hospital Münster, Münster, Germany*

3. 13.20-13.30

Oral 071 [POSTER 009]

Topographical and Chronological Maturation of the Skin Immune Barrier

Z Dajnoki,^{1,2} A Kapitány,^{1,2} L Soltész,¹ V Nagy,¹ K Gáspár¹ and A Szegedi^{1,2} *1 Department of Dermatology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary and 2 HUN-REN-UD Allergology Research Group, Debrecen, Hungary*

4. 13.30-13.40

Oral 072 [POSTER 275]

Cell-type- and site-specific immune-modulation by S100A8 and S100A9 dimers determines chronic skin and systemic inflammation

M Palomo Irigoyen,¹ L Bakiri,² T Hendrikx,² S Hayer,³ J Schaffenrath,² S Widder,⁴ S Bachg,⁵ P Starkl,⁴ J Roth⁵ and EF Wagner^{1,2} *1 Department of Dermatology, Medical University of Vienna, Vienna, Austria, 2 Department of Laboratory Medicine, Medical University of Vienna, Vienna, Austria, 3 Department of Internal Medicine III, Division of Rheumatology, Medical University of Vienna, Vienna, Austria, 4 Department of Medicine I, Division of Infection Biology, Medical University of Vienna, Vienna, Austria and 5 Institute of*



53rd ANNUAL ESDR MEETING

4-7 September 2024, Lisbon, Portugal

Immunology, University of Münster, Münster, Germany

5. 13.40-13.50

Oral 073 [POSTER 276]

Gene expression profiles and immune cell composition of generalized pustular psoriasis, palmoplantar pustulosis, and acute generalized exanthematous pustulosis

T Benezeder, N Bordag, JN Woltsche, K Falkensteiner, T Graier and P Wolf *Department of Dermatology and Venereology, Medical University of Graz, Graz, Austria*

6. 13.50-14.00

Oral 074 [POSTER 277]

The transcriptome of Sweet syndrome provides novel insights into its pathogenesis and reveals a prominent interferon signature

L Calabrese,1 A Marzano,2 R Aoki,3 M Neulinger,3 R Maglie,4 T Satoh³ and L French³ *1 University of Siena, Siena, Italy, 2 University of Milan, Milan, Italy, 3 University Hospital, LMU, Munich, Germany and 4 University of Florence, Florence, Italy*

7. 14.00-14.10

Oral 075 [POSTER 010]

Keratin 76 expression in Thymic Epithelial Cells is Necessary for Skin T cell Tolerance

M Gelmetti,1 I Tomas,2 R Ragazzini,3 M Cautela,1 S Campinoti,2 M Torre,2 FM Watt,2 P Bonfanti,3 D Pennington¹ and I Sequeira¹ *1 Queen Mary University of London, London, United Kingdom, 2 King's College London, London, United Kingdom and 3 The Francis Crick Institute, London, United Kingdom*

8. 14.10-14.20

Oral 076 [POSTER 278]

Mathematical dermatology linking skin eruption morphology and patient-specific pathological states in chronic spontaneous urticaria

S Seirin-Lee,1 Y Yanase,2 S Takahagi² and M Hide² *1 Kyoto University, Kyoto, Japan and 2 Hiroshima University, Hiroshima, Japan*

9. 14.20-14.30

Oral 077 [POSTER 279]

Impact of constipation on gut microbiota: Enhanced gut-skin axis imbalance and acne aggravation in a novel constipation-acne mouse model

M Tamai,1 T Sugihira,1 S Nakagawa,1 M Fujimoto¹ and Y Matsuoka-Nakamura^{1,2} *1 Department of Dermatology, Graduate School of Medicine, Osaka University, Suita, Japan and 2 Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, Suita, Japan*



Concurrent 8: Wound Healing and Tissue Remodelling

Date: Saturday 7 September 2024

Time: 13.00-14.30

Room: Auditorium 2

Chairs: Kathy Green, Edel O'Toole

1. 13.00-13.10

Oral 078 [POSTER 517]

Multiomics Atlas of oral and skin tissues reveals fibroblast heterogeneity

DG Pereira,⁴ K Annusver,¹ TB Kirk,³ S Yadav,⁴ B Matuck,² K Byrd,² E Rognoni,³ EA

O'Toole,³ M Kasper¹ and I Sequeira⁴ *1 Department of Cell and Molecular Biology,*

Karolinska Institutet, Stockholm, Sweden, 2 Department of Innovation & Technology

Research, ADA Science & Research Institute, Gaithersburg, MD, 3 Centre for Cell Biology

and Cutaneous Research, Queen Mary University of London, London, United Kingdom and 4

Centre for Oral Immunobiology and Regenerative Medicine, Queen Mary University of

London, London, United Kingdom

2. 13.10-13.20

Oral 079 [POSTER 518]

Long noncoding RNA SNHG26 promotes keloid progression by regulating the inflammation and extracellular matrix synthesis of fibroblasts

L Pan and D Li *Hospital for Skin Diseases, Institute of Dermatology, Chinese Academy of*

Medical Sciences & Peking Union Medical College, Nanjing, China

3. 13.20-13.30

Oral 080 [POSTER 519]

ALKBH5-mediated m6A demethylation reshapes extracellular matrix deposition in cutaneous pathological fibrosis

Y Zhao and T Zan *Department of Plastic and Reconstructive Surgery, Shanghai Ninth*

People's Hospital, Shanghai JiaoTong University School of Medicine, Shanghai, China

4. 13.30-13.40

Oral 081 [POSTER 520]

Systemic administration of PRELP reduces fibrotic traits in a genetic model of progressive Fibrosis

E Méndez Jiménez,¹ A Holguín,¹ A Nyström,² M del Río,¹ F Larcher¹ and E Chacón

Solano¹ *1 Epithelial Biomedicine Division & Bioengineering Department, UC3M-CIEMAT-*

CIBERERIIISFJD, Madrid, Spain and 2 Department of Dermatology, Medical Center,

University of Freiburg, Freiburg, Germany



53rd ANNUAL ESDR MEETING

4-7 September 2024, Lisbon, Portugal

5. **13.40-13.50**
Oral 082 [POSTER 521]
Transcriptional and epigenetic changes drive increased cellular plasticity in keloid fibroblasts
S Tekkela,¹ E Drudi,² T J Shaw,² M Philpott,¹ EA O'Toole¹ and E Rognoni¹ ¹ *Queen Mary University of London, London, United Kingdom* and ² *King's College London, London, United Kingdom*

6. **13.50-14.00**
Oral 083 [POSTER 522]
Characterisation of skin wound healing of aged Sox2EGFP mice
L Gardeazabal, L Yndriago, S Alonso-Martín and A Izeta *Biogipuzkoa Health Research Institute, Donostia, Spain*

7. **14.00-14.10**
Oral 084 [POSTER 523]
Targeting NETosis to treat delayed wound healing in a humanized mouse model of sickle cell disease
Q Ngo,¹ M Alkobtawi,¹ L Sandhow,² S Matar,¹ C Al Youssef,¹ D Passaro,² T Maciel,³ O Hermine,^{3,5} S Aractingi^{1,4,5} and B Oules^{1,4,5} ¹ *Cutaneous Biology Lab, Cochin (INSERM U1016), Paris, France*, ² *Leukemia and Niche Dynamics Lab, Cochin (INSERM U1016), Paris, France*, ³ *Laboratory of Molecular Mechanisms of Hematological Disorders and Therapeutical Implications, Imagine (INSERM U1163), Paris, France*, ⁴ *Department of Dermatology, Hôpital Cochin, Paris, France* and ⁵ *Faculte de Sante - UFR de Medecine, University Paris Cité, Paris, France*

8. **14.10-14.20**
Oral 085 [POSTER 524]
Peptide inhibition of TANGO1 controls matrix accumulation in scarring and fibrosis
A Rosendahl,¹ I Raote,² A Bornikoel,¹ I Neundorf,³ M Hammerschmidt,³ M Krüger,³ V Malhotra,⁴ B Eckes¹ and T Krieg¹ ¹ *Translational Matrix Biology, University of Cologne, Cologne, Germany*, ² *Institut Jacques Monod, Paris, France*, ³ *University of Cologne, Cologne, Germany* and ⁴ *CRG, Barcelona, Spain*

9. **14.20-14.30**
Oral 086 [POSTER 525]
Aptamer-Based Targeted Therapy for wound healing and hair growth promotion
M Mataix,¹ N Illera,¹ M Arriba,² M Escámez,⁶ M Martín,³ F Larcher,² M del Río,⁶ VM Gonzalez,⁴ F Jiménez-Acosta⁵ and M Carretero² ¹ *Epithelial Biomedicine Division, CIEMAT-IISFJD, Madrid, Spain*, ² *Epithelial Biomedicine Division, CIEMAT-IISFJD-CIBERER, Madrid, Spain*, ³ *Aptamer Group, IRYCIS-HRC, Madrid, Spain*, ⁴ *Aptamer Group, IRYCIS-HRC;Aptus Biotech SL, Madrid, Spain*, ⁵ *Mediteknia Skin & Hair Lab, Las Palmas de Gran Canaria, Spain* and ⁶ *Bioengineering Dept, UC3M-IISFJD-CIBERER, Madrid, Spain*



Concurrent 9: Late-Breaking Abstracts

Date: Saturday 7 September 2024

Time: 13.00-14.30

Room: Room A & B

Chairs: Curdin Conrad, Christoph Schlapbach

1. 13.00-13.10

Oral 087 [POSTER LB008]

A new mosaic syndrome with linear skin hypopigmentation is associated with a GNA13 variant activating the RHOA/ROCK pathway and altering cell morphology and melanosome transfer

P Vabres¹ R El Masri², A Iannuzzo², S Barbarot³, F Morice-Picard⁴, J Mazereeuw-Hautier⁵, L Faivre¹, A Sorlin¹, P Kuentz¹, J Delon² *1 Inserm UMR1231, FHU-TRANSLAD, Université de Bourgogne, Dijon, France 2 Université Paris Cité-Inserm-CNRS, Institut Cochin, Paris, France 3 Dermatology CHU, Nantes, France 4 Paediatric Dermatology, CHU, Bordeaux, France 5 Dermatology, CHU, Toulouse, France*

2. 13.10-13.20

Oral 088 [POSTER LB018]

Epigenetic Mechanism of Nicotinamide N-Methyltransferase Facilitates Macrophage-Myofibroblast Transition in Hypertrophic Scars

X Dong¹, W Guo², C Li², Hongcai¹ *1 Department of Dermatology, Air Force Medical Center, Fourth Military Medical University, Beijing, China 2 Department of Dermatology, Xijing Hospital, Fourth Military Medical University, Xi'an, Shaanxi, China*

3. 13.20-13.30

Oral 089 [POSTER LB009]

Critical role of IL-13 in early stages of atopic dermatitis driven by barrier disruption and *Staphylococcus aureus*

IM Hölge, S Lekishvili, M Hils, S Kaesler, T Biedermann *Department of Dermatology and Allergy Biederstein, Technical University Munich, Germany*

4. 13.30-13.40

Oral 090 [POSTER LB043]

Niche-derived GM-CSF primes inflammatory monocytes to orchestrate type 3 immunity in psoriatic skin

J Lee¹, SH Kim¹, J Kim², L Che¹, J Park¹, J Kim², D-Y Kim¹, S Hong², T-G Kim¹ *1 Department of Dermatology and Cutaneous Biology Research Institute, Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea 2 Department of Biochemistry, College of Life Science and Biotechnology, Yonsei University, Seoul, South Korea*



53rd ANNUAL ESDR MEETING

4-7 September 2024, Lisbon, Portugal

5. **13.40-13.50**
Oral 091 [POSTER LB023]
Spectrin governs cell shape and barrier formation during epidermal development
A Soffera¹, A Bhosale², M Ruebsam², C Niessen², and C Luxenburg^{a1} ¹ *Department of Cell and Developmental Biology, Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel* ² *Department Cell Biology of the Skin, University Hospital Cologne, University of Cologne, Cologne, Germany*
6. **13.50-14.00**
Oral 092 [POSTER LB028]
Single-cell deciphering of pain and pruritic keloids: the interaction between fibroblasts and Schwann cells through the Midkine signaling
E Yang, X Huang, T Zan *Department of Plastic and Reconstructive Surgery, Shanghai Ninth People's Hospital, Shanghai Jiao Tong University, School of Medicine, Shanghai, China*
7. **14.00-14.10**
Oral 093 [POSTER LB045]
Genome-wide meta-analysis reveals an epistatic interaction between MHC Class I genes and ERAP1 in frontal fibrosing alopecia
T Rayinda¹, N Dand², S McSweeney¹, E Christou¹, CY Ung¹, C Stefanato¹, D Fenton¹, FFA Genetics Research Consortium, J A. McGrath¹, M A. Simpson², C Tziotzios¹ ¹*St John's Institute of Dermatology, King's College London, London* ²*Department of Medical and Molecular Genetics, King's College London, London, UK*
8. **14.10-14.20**
Oral 094 [POSTER LB047]
C5A/C5AR1 Complement Expression in Pemphigus
V. Bumiller Bini Hoch^{1,2}, E. Lüders², A. Pumpe², S. Emtenani², G. A. Cipolla¹, C. Hammers^{2,3}, E. Schmidt^{2,3}, M. L. Petzl-Erler¹, J. E. Hundt², A. Boldt¹ ¹*Human Molecular Genetics Laboratory, Department of Genetics, Federal University of Parana, Brazil.* ²*Lübeck Institute of Experimental Dermatology, University of Lübeck, Germany.* ³*Department of Dermatology, University of Lübeck, Germany*
9. **14.20-14.30**
Oral 095 [POSTER LB006]
EGFR inhibition by erlotinib but not pemphigus autoantibodies impairs tight junction integrity and function in cultured keratinocytes
K Imafuku, A Sigmund, A Garcia-Ponce and J Waschke *Vegetative Anatomy, Institute of Anatomy, Faculty of Medicine, Ludwig Maximilian University of Munich, Munich, Germany*