

Scientific meeting of the
International Pemphigus & Pemphigoid Foundation (IPPF)
&
the PEGASUS Research Group

-Online-

September 19-21, 2021

Program

Program Committee:

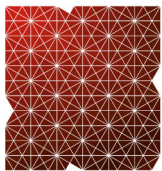
Barbara Horvath Luca Borradori Rüdiger Eming Jens Waschke Michael Hertl

Abstract Committee:

Roberto Maglie Christian Möbs Farzan Solimani Ritva Tikkanen
Franziska Vielmuth Jens Waschke Holger Garn Michael Hertl

Meetings starts SUN-TUES at CEST 14.00/2 pm

i.e. WST -9 hours (San Francisco) 5.00/5 am, EST -6 hours (New York) 8.00/8 am, CST +6 hours (Beijing) 20.00/8 pm, JST +7 hours (Tokyo) 21.00/9 pm



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Sunday 19th September 2021:

- 14:00** **Welcome notes**
Kevin Mead (Executive Director IPPF)
Michael Hertl (Speaker PEGASUS)
- 14:15** **Introductory Talk**
Marc Yale (Advocacy & Research Coordinator IPPF)
"Patients' need and expectations, current challenges and initiatives"
- 14:30 – 16:00** **Session I** **Skin homeostasis and loss of adhesion**
Chairs: John Stanley (Philadelphia), Luis Diaz (Chapel Hill)
Moderators: Zhi Liu (Chapel Hill), Donna Culton (Chapel Hill)
- 14:30 **Masayuki Amagai** (Tokyo): Immune pathogenesis of pemphigus
- 15:00 **Detlef Zillikens** (Lübeck): Immune pathogenesis of the pemphigoids
- 15:20 **Rüdiger Eming** (Marburg/Koblenz): Pemphigus - preclinical models
- 15:40 **Hideyuki Ujiie** (Sapporo): The active mouse model for bullous pemphigoid
- 16:00 – 16:20** **Oral abstract session I**
- 16:00 **Shirin Emtenani** (Lübeck): Cutaneous kinase activity correlates with treatment outcomes following PI3K delta inhibition in mice with experimental pemphigoid diseases
- 16:10 **Eliane Müller** (Berne): Pemphigus vulgaris antibodies activate stem cells (CS): a new role of Dsg3 transadhesion in the regulation of the bulge SC compartment
- 16:20 – 16:30** **Coffee break**
- 16:30 – 17:30** **Session II** **Diagnostic criteria of pemphigus and pemphigoid: practice gaps**
Chairs: Barbara Horvath (Groningen), Victoria Werth (Philadelphia)
Moderators: Branka Marinovich (Zagreb), Valeria Aoki (Sao Paulo)
This session is dedicated to Marcel Jonkman, Groningen.
- 16:30 **Luca Borradori** (Berne): Practical gaps in bullous pemphigoid
- 16:50 **Jane Setterfield** (London): Mucous membrane pemphigoid
- 17:10 **Enno Schmidt** (Lübeck): European Guidelines - status quo
- 17:30 – 18:00** **Oral abstract session II**
- 17:30 **Hendri Pas** (Groningen): The autoimmune IgG subclass response defines the IgG deposition pattern in pemphigus patient skin
- 17:40 **Grant Sprow** (Philadelphia): Mucous membrane pemphigoid flares and disease conversions in patients following Covid-19 vaccination: a case series
- 17:50 **Avani Kolla** (New York): A retrospective cohort study using Methotrexate as a steroid-sparing or single agent in the treatment of pemphigus vulgaris and foliaceus
- 18:00** **Barbara Horvath** (Groningen): Closing remarks

Monday 20th September 2021:

- 14:00 – 15:00 Session III **Epidemiology and Genetics****
Chairs: Russel Hall (Chapel Hill), Saleh Ibrahim (Lübeck)
Moderators: Johannes Schumacher (Marburg), Daniel Mimouni (Petach Tikva)
- 14:00 **Eli Sprecher** (Tel Aviv): The genetic basis of pemphigus vulgaris
- 14:20 **Animesh Sinha** (Buffalo): Predisposing factors in pemphigus and regional differences: an update
- 14:40 **Kasia Tasanen** (Oulu): Comorbidities and trigger factors in bullous pemphigoid: recent advances
- 15:00 – 15:30 Oral abstract session III**
- 15:00 **David Chang** (Philadelphia): A phase 1 trial of desmoglein 3 chimeric autoantibody receptor T cells (DSG3-CAART) for targeted B cell depletion in patients with mucosal-dominant pemphigus vulgaris
- 15:10 **Kristina Seiffert-Sinha** (Buffalo): Anti-thyroid peroxidase antibodies target a cytoplasmic protein in keratinocytes and may contribute to blister formation in pemphigus vulgaris
- 15:20 **Enno Schmidt** (Lübeck): Efficacy and Safety of Efgartigimod PH20 subcutaneous in adult patients with pemphigus vulgaris and pemphigus foliaceus: ADDRESS, a global phase 3 clinical trial
- 15:30 – 15:40 Coffee break**
- 15:40 – 17:10 Session IV **Impaired adhesion: mechanisms****
Chairs: Takashi Hashimoto (Osaka/Kurume), Yasuo Kitajima (Gifu)
Moderators: Rizaak Ahmed (Boston), Eliane Müller (Berne)
- 15:40 **Kathleen Green** (Chicago): Desmosomes in cell adhesion and beyond
- 16:05 **Jens Waschke** (Munich): Desmosomal signaling in pemphigus
- 16:30 **Andrew Kowalczyk** (Hershey): Desmosomal homeostasis
- 16:50 **Sergei Grando** (Irvine): Non-desmosomal autoantigens in pemphigus
- 17:10 – 17:50 Oral abstract session IV**
- 17:10 **Franziska Vielmuth** (Munich): Apremilast is protective against PV-IgG-induced loss of intercellular adhesion and keratin retraction in human epidermis
- 17:20 **Thomas Schmitt** (Munich): Ca²⁺ signalling is critical for antibody-induced blistering of human epidermis in pemphigus
- 17:30 **Anna Zakrzewicz** (Gießen): Humanized anti-Desmoglein-3 antibodies as tools for research on the role of the neonatal Fc receptor in pemphigus vulgaris
- 17:40 **Roberta Lotti** (Modena/Milan): PC111, a monoclonal anti-Fas Ligand antibody, blocks blister formation in human pemphigus
- 18:00 **Jens Waschke** (Munich): Closing remarks**
- 18:10 – 20:00 Poster session (live event with breakout rooms for each poster)**

Tuesday 21st September 2021:

- 14:00 – 14:40 Session V **Adaptive and innate immune responses in autoimmune bullous diseases****
Chairs: Philippe Musette (Paris), Dagmar Simon (Berne)
Moderators: Jun Yamagami (Tokyo), Claudio Feliciani (Parma)
- 14:00 **Ralph Ludwig** (Lübeck): Adaptive and innate immune responses in pemphigoid
- 14:20 **Meng Pan** (Shanghai): T/B cell interaction in pemphigus
- 14:40 – 15:00 Oral abstract session V**
- 14:40 **Jussi Tuusa** (Oulu): Cytokine spectra of DDP4 inhibitor-induced and regular bullous pemphigoid skin are different
- 14:50 **Ayeong Lee** (Seoul): Activated cytotoxic CD4⁺ T cells produce CXCL13 in a TCR-independent manner in tertiary lymphoid structures of chronic skin lesions in pemphigus
- 15:00 – 16:25 Session VI **Treatment: from current evidence to future perspectives****
Chairs: Janet Fairley (Iowa), C. Chams Davatchi (Teheran), Miklos Sardy (Budapest)
Moderators: Emiliano Antiga (Florence), Katerina Patsatsi (Thessaloniki)
- 15:00 **Pascal Joly** (Rouen): Rituximab in pemphigus and the pemphigoids
- 15:25 **Amy Payne** (Philadelphia): CAART cells in pemphigus
- 15:45 **Michael Hertl** (Marburg): Therapeutic targeting of T cells in pemphigus
- 16:05 **Deedee Murrell** (Sydney): BTK inhibitors in pemphigus
- 16:25 – 16:45 Oral abstract session VI**
- 16:25 **Karolin Wieber** (Marburg): Characterization of Desmoglein 3 reactive CD4⁺ T cells in pemphigus vulgaris
- 16:35 **Morna Schmidt** (Aachen): Impact of innate immunity on pemphigus vulgaris disease manifestation
- 16:45 – 17:00 Coffee Break**
- 17:00 – 17:10 Best poster and best oral abstract awards**
- 17:10 – 18:00 Session VII **What is new in autoimmune bullous diseases? Young investigator forum****
Chairs: Giovanni Di Zenzo (Rome), Frederic Caux (Paris)
Moderator: Karen Harman (Leicester)
- 17:10 **Joost Meijer** (Groningen): Clinical heterogeneity of bullous pemphigoid
- 17:30 **Kyle Amber** (Chicago): The role of eosinophils in bullous pemphigoid
- 17:50 **Khalaf Kridin** (Haifa): Dipeptidyl-peptidase IV inhibitor-associated bullous pemphigoid
- 18:10 **Michael Hertl** (Marburg): Closing remarks**

Posters:

- (1) Alexandra Polakova** (Marburg): Rapid isolation of lymphocytes from human skin biopsies
- (2) Anna Zakrzewicz** (Gießen): Humanized anti-Desmoglein-3 antibodies as tools for research on the role of the neonatal Fc receptor in pemphigus vulgaris
- (3) Antti Nätyнки** (Oulu): Use of dipeptidyl-peptidase IV inhibitors is associated with decreased SDF-1 levels in type 2 diabetes mellitus and bullous pemphigoid
- (4) Avani Kolla** (New York): A Retrospective Cohort Study Using Methotrexate as a Steroid-Sparing or Single Agent in the Treatment of Pemphigus Vulgaris and Foliaceus
- (5) Ayeong Lee** (Seoul): Activated cytotoxic CD4+ T cells produce CXCL13 in a TCR-independent manner in tertiary lymphoid structures of chronic skin lesions in pemphigus
- (6) Dae San Yoo** (Seoul): Long-term survival of patients with bullous pemphigoid treated with rituximab
- (7) Daniel Seiler** (Lübeck): C5aR2 deficiency ameliorates inflammation in antibody transferexperimental epidermolysis bullosa acquisita and reveals promoting of C5aR1 signaling outcomes
- (8) Dario Didona** (Marburg): A particular case of linear IgA bullous dermatosis: when the clinic plays a pivotal role
- (9) Dario Didona** (Marburg): Dyshidrosiform pemphigoid induced by ustekinumab
- (10) David Chang** (Philadelphia): A Phase 1 trial of desmoglein 3 chimeric autoantibody receptor T cells (DSG3-CAART) for targeted B cell depletion in patients with mucosal-dominant pemphigus vulgaris
- (11) Desalegn Egu** (Munich): Lessons from ultrastructural studies on pemphigus pathomechanisms
- (12) Dipankar De** (Chandigarh): Psychological morbidity in pemphigus patients in clinical remission and its clinico-demographic determinants
- (13) Eliane Mueller** (Berne): Pemphigus vulgaris antibodies activate quiescent stem cells (SC): a new role of Dsg3 transadhesion in the regulation of the bulge SC compartment
- (14) Emtemani Shirin** (Lübeck): Detailed evaluation of complement activation in the skin and blood of patients with pemphigoid diseases
- (15) Franziska Vielmuth** (Munich): Apremilast is protective against PV-IgG-induced loss of intercellular adhesion and keratin retraction in human epidermis
- (16) Grant Sprow** (Philadelphia): Mucous Membrane Pemphigoid Flares And Disease Conversions In Patients Following COVID-19 Vaccination: A Case Series
- (17) Hanan Rashid** (Groningen): Insights in clinical and diagnostic findings and treatment responses in patients with mucous membrane pemphigoid, a retrospective cohort study.
- (18) Hendri Pas** (Groningen): The autoimmune IgG subclass response defines the IgG deposition pattern in pemphigus patient skin
- (19) Ivo Stoykov and Peter Verheesen** (Ghent): Efficacy and Safety of Efgartigimod PH20 Subcutaneous in Adult Patients with Pemphigus Vulgaris (PV) and Pemphigus Foliaceus (PF): ADDRESS, a Global Phase 3 Clinical Trial in Progress
- (20) Ji Yeon Hong** (Seoul): DWP212525, a novel JAK3 and Tec family kinase inhibitor, has the ability to reduce the severity of PV disease through autoantibody inhibition
- (21) John David Baker** (Buffalo): Three North American cases of cutaneous Pemphigus vulgaris with no history of mucosal disease.
- (22) Jong Hoon Kim** (Seoul): Pathogenicity and Antigen Specificity of ICOS⁺CXCR5⁺PD-1⁺ T helper cells in Pemphigus Vulgaris

- (23) Julia Hinterseher** (Marburg): Refractory pemphigus vulgaris of the face – think of apples and oranges!
- (24) Jussi Tuusa** (Oulu): Cytokine spectra of DDP4 inhibitor-induced and regular bullous pemphigoid skin are different
- (25) Karolin Wieber** (Marburg): Characterization of Desmoglein 3 reactive CD4+ T cells in pemphigus vulgaris
- (26) Kristina Seiffert-Sinha** (Buffalo): Anti-thyroid peroxidase antibodies target a cytoplasmic protein in keratinocytes and may contribute to blister formation in Pemphigus vulgaris
- (27) Manuela Pigors** (Lübeck): Increased fibrosis in a mouse model of anti-laminin 332 mucous membrane pemphigoid remains unaltered by inhibition of aldehyde dehydrogenase
- (28) Marian Dmochowski** (Poznan): Serum IgG antibodies to desmoglein 1 are detected more often than those to desmoglein 3 in pemphigus patients having IgG deposits: A laboratory experience of a single tertiary referral center
- (29) Merced Leiker** (Buffalo): A novel Pemphigus vulgaris patient-derived antibody with sequence homology to antibodies directed against desmosomal and non-desmosomal targets induces keratinocyte dissociation
- (30) Michael Fuchs** (Munich): Dsg2 is upregulated in pemphigus and undergoes functionally different interactions with desmosomal and classical cadherins
- (31) Morna Schmidt** (Aachen): Impact of innate immunity on pemphigus vulgaris disease manifestation
- (32) Nina van Beek** (Lübeck): Anti-BP230 IgE-autoantibodies in bullous pemphigoid correlate with disease activity
- (33) Nina van Beek** (Lübeck): Site- and autoantigen- specific associations in mucous membrane pemphigoid- lessons learned from a retrospective bicentric observational study
- (34) Peter Sliwiak** (Marburg): Redox enzymes of the thioredoxin family as potential and novel markers in pemphigus
- (35) Pia Stüssel** (Lübeck): Drug repurposing Propranolol as an effective topical and systemic treatment option for experimental epidermolysis bullosa acquisita
- (36) Ramie Fathy** (New Haven): Bullous pemphigoid-like disease arising after COVID-19 vaccination
- (37) Roberta Lotti** (Modena/Milan): PC111, a monoclonal anti-Fas Ligand antibody, blocks blister formation in human pemphigus
- (38) Sabrina Patzelt** (Lübeck): RECAPITULATION OF CLINICAL AND IMMUNOPATHOLOGICAL FINDINGS BY IMMUNIZATION-INDUCED EXPERIMENTAL ANTI-LAMININ 332 MUCOUS MEMBRANE PEMPHIGOID
- (39) Sanjeev Khindri** (London): ARREST-BP: A Randomised Placebo Controlled Phase 3 Study to Evaluate the Efficacy and Safety of Nomacopan Therapy in Bullous Pemphigoid Patients Receiving Adjunct Oral Corticosteroid
- (40) Seede Ghorbanalipoor** (Lübeck): Cutaneous kinase activity correlates with treatment outcomes following PI3K delta inhibition in mice with experimental pemphigoid diseases
- (41) Sonal Shah** (New York): Diagnostic Dilemma: Rare Oral Autoimmune Diseases Presenting in Hispanic Males
- (42) Stephanie Goletz** (Lübeck): Sera of patients with bullous pemphigoid and mucous membrane pemphigoid react with C-terminal epitopes on BP180 by immunoblotting and ELISA
- (43) Stephanie Goletz** (Lübeck): Comparison of two diagnostic assays for the detection of anti-laminin 332 autoantibodies in patients with mucous membrane pemphigoid
- (44) Tomas Cunha** (Marburg): The history is now - Walter Lever's classification of blistering diseases
- (45) Veleria Bumiller Bini** (Lübeck): INVESTIGATION OF C5AR1 AND C5/5A IN PEMPHIGUS AND IN HUMAN SKIN ORGAN CULTURE MIMICKING PEMPHIGUS
- (46) Vitus Brix and Lovely Pierre** (Buffalo): Smoking cessation is significantly correlated with disease