

## Publications

### Original work in peer-reviewed journals

- (1) Chakievska L, Holtsche MM, Künstner A, Goletz S, Petersen BS, Thaci D, Ibrahim SM, Ludwig RJ, Franke A, Sadik CD, Zillikens D, Hölscher C, Busch H, **Schmidt E**. IL-17A is functionally relevant and a potential therapeutic target in bullous pemphigoid. *J Autoimmun* 2019; 96: 104-12. IF 7.6
- (2) Goletz S, Probst C, Komorowski L, Schlumberger W, Fechner K, van Beek N, Holtsche MM, Recke A, Yancey KB, Hashimoto T, Antonicelli F, Di Zenzo G, Zillikens D, Stöcker W, **Schmidt E**. Sensitive and specific assay for the serological diagnosis of anti-laminin 332 mucous membrane pemphigoid. *Br J Dermatol* 2019, 180: 149-56. IF 6.1
- (3) Lau I, Goletz S, Holtsche MM, Zillikens D, Fechner K, **Schmidt E**. Anti-p200 pemphigoid is the most common pemphigoid disease with serum antibodies against the dermal side by indirect immunofluorescence microscopy on human salt-split skin. *J Am Acad Dermatol* 2019, in press. IF 6.9
- (4) Egu DT, Sigmund AM, **Schmidt E**, Spindler V, Walter E, Waschke J. p38MAPK inhibition is not effective to prevent autoantibody-induced mucosal blistering in pemphigus. *Br J Dermatol* 2019, in press. IF 6.1
- (5) Sezin T, Murthy S, Attah C, Seutter M, Holtsche MM, Hammers CM, **Schmidt E**, Meshrkey F, Mousavi S, Zillikens D, Nunn MA, Sadik CD. Dual inhibition of complement factor 5 and leukotriene B4 synergistically suppresses murine pemphigoid disease. *JCI Insight* 2019, 8:4. IF 6.0
- (6) Mahmoudi H, Toosi R, Kamyab K, Zillikens D, **Schmidt E**, Daneshpazhooh M. Bullous pemphigoid with linear lesions and antibodies exclusively against the soluble ectodomain of BP180 (LAD-1). *J Dtsch Dermatol Ges* 2019, in press. IF 2.7
- (7) Wald A, **Schmidt E**, Toberer F, Enk AH, Hoffmann J. Overlap of bullous, anti-laminin 332 and p200 pemphigoid with concomitant anti-contactin 1-positive inflammatory polyneuropathy treated with intravenous immunoglobulins as a manifestation of epitope spreading. *JAMA Dermatol* 2019, in press. IF 8.1
- (8) Gutjahr A, Heck F, Emtenani S, Hammers AK, Hundt J, Muck P, Siegel DL, **Schmidt E**, Stanley JR, Zillikens D, Hammers CM. Bullous pemphigoid autoantibody-mediated complement fixation is abolished by the low-molecular-weight heparin tinzaparin sodium. *Br J Dermatol* 2019, in press; IF 6.1
- (9) Shi C, Meijer J, Guoc J, Azzopardia G, Diercks G, **Schmidt E**, Zillikens D, Jonkman MF, Petkova N. Detection of *u*-serrated patterns in direct immunofluorescence images of autoimmune bullous diseases by inhibition-augmented COSFIRE filters. *Int J Med Inform* 2019, 122: 122-27. IF 3.0
- (10) Hebert V, Boulard C, Houivet E, Duvert Lehembre S, Borradori L, Della Torre R, Feliciani C, Fania L, Zambruno G, Camaioni DB, Didona B, Marinovic B, **Schmidt E**, Schumacher N, Hünefeld C, Schanz S, Kern JS, Hofmann S, Bouyeure AC, Picard-Dahan C, Prost-Squarcioni C, Caux F, Alexandre M, Ingen-Housz-Oro S, Bagot M, Tancrede-Bohin E, Bouaziz JD, Franck N, Vabres P, Labeille B, Richard MA, Delaporte E, Dupuy A, D'Incan M, Quereux G, Skowro F, Paul C, Livideanu CB, Beylot-Barry M, Doutre MS, Avenel-Audran M, Bedane C, Bernard P, Machet L, Maillard H, Jullien D, Debarbieux S, Sassolas B, Misery L, Abasq C, Dereure O, Lagoutte P, Ferranti V, Werth VP, Murrell DF, Hertl M, Benichou J, Joly P; French. Large international validation of ABSIS and PDAI pemphigus severity scores. *J Invest Dermatol* 2019, 139: 31-37, IF 6.4
- (11) Daneshpazhooh M, Mahmoudi H, Toosi R, Tavakolpour S, **Schmidt E**, Zillikens D. Post-orf epidermolysis bullosa acquisita. *J Eur Acad Dermatol Venereol* 2019, 33:118-19. IF 4.3
- (12) Syring FM, Zillikens D, **Schmidt E**, Kasperkiewicz M. Anti-Laminin 332 Schleimhautpemphigoid mit irreversiblen okulären und tracheobronchialen Befall. *Hautarzt* 2019, in press. IF 0.6

- (13) Karsten CM, Beckmann T, Holtsche MM, Tillmann J, Tofern S, Schulze F, Heppe EN, Ludwig R, Zillikens D, König IR, Köhl J, **Schmidt E**. Tissue destruction in bullous pemphigoid can be complement-independent and may be mitigated by C5aR2. *Front Immunol* 2018, 9: 488. IF 4.7
- (14) Holtsche MM, Goletz S, van Beek N, Zillikens D, Benoit S, Harman K, Walton S, English J, Sticherling M, Chapman Levell ANJ, Groves R, Williams HV, König IR, **Schmidt E**. Prospective study in bullous pemphigoid: Association of high serum anti-BP180 IgG levels with increased mortality and reduced Karnofsky score. *Br J Dermatol* 2018, 179: 918-24. IF 6.7
- (15) Hofrichter M, Dworschak J, Langenhan J, Weiß F, Komorowski L, Zillikens D, Stöcker W, Probst C, **Schmidt E**, Goletz S\*. Immunoabsorption of anti-desmoglein 3-specific IgG abolishes the blister-inducing capacity of pemphigus vulgaris IgG in neonatal mice. *Front Immunol* 2018, 9: 1935. \*equal contribution, IF 4.7
- (16) Spindler V\*, Eming R\*, **Schmidt E**\*, Amagai M, Grando S, Jonkman MF, Kowalczy AP, Müller EJ, Payne AS, Pincelli C, Sinha AA, Sprecher E, Zillikens D\*, Hertl M\*, Waschke J\*. Mechanisms causing loss of keratinocyte cohesion in pemphigus. *J Invest Dermatol* 2018, 138: 32-37. \*equal contribution, IF 6.3
- (17) Recke A, Konitzer S, Lemcke S, Freitag M, Sommer NM, Abdelhady M, Amoli MM, Benoit S, El-Chennawy F, Eldarouti M, Eming R, Gläser R, Günther C, Hadaschik E, Homey B, Lieb W, Peitsch WK, Pföhler C, Robati RM, Saeedi M, Sárdy M, Sticherling M, Uzun S, Worm M, Zillikens D, Ibrahim S, Vidarsson G, **Schmidt E**, and the German AIBD Genetic Study Group. The p.Arg435His variation of IgG3 with high affinity to FcRn is associated with susceptibility for pemphigus vulgaris – analysis of four different ethnic cohorts. *Front Immunol* 2018, 9: 1788. IF 4.7
- (18) Hübner F, Kasperkiewicz M, Knuth-Rehr D, Shimanovich I, Hübner J, Sufke S, Muck P, Zillikens D, **Schmidt E**. Adjuvant treatment of severe/ refractory bullous pemphigoid with protein A immunoabsorption leads to rapid disease control and decrease of anti-BP180 autoantibody levels. *J Dtsch Dermatol Ges* 2018, 16: 1109-18. IF 3.9
- (19) Kasperkiewicz M, Mook SC, Knuth-Rehr D, Vorobyev A, Ludwig R, Zillikens D, Muck P, **Schmidt E**. IgE-selective immunoabsorption for severe atopic dermatitis. *Front Med* 2018, 5: 27. IF 3.1
- (20) Hügel R, Lang A, Lhotta K, Elsässer W, Gächter W, Messmer EM, **Schmidt E**. Anti-laminin 332 mucous membrane pemphigoid with laryngeal involvement - adjuvant treatment with immunoabsorption and rituximab. *J Dtsch Dermatol Ges* 2018, 16: 897-900. IF 3.9
- (21) Haeberle S, Wei X, Bieber K, Goletz S, Ludwig RJ, **Schmidt E**, Enk AH, Hadaschik EN. Regulatory T-cell deficiency leads to pathogenic bullous pemphigoid antigen 230 autoantibody and autoimmune bullous disease. *J Allergy Clin Immunol* 2018, 142: 1831-42. IF 14.1
- (22) Meijer JM, Atefi I, Diercks G, Vorobyev A, Zuiderveen J, Meijer JH, Pas HH, Zillikens D, **Schmidt E**, Jonkman M. Serration pattern analysis for differentiating epidermolysis bullosa acquisita from pemphigoid variants. *J Am Acad Dermatol* 2018, 78: 754-759. IF 7.1
- (23) Prost-Squarcioni C, Caux F, **Schmidt E**, Jonkman MF, Vassileva S, Kim SC, Iranzo P, Daneshpazhooch M, Terra J, Bauer J, Fairley J, Hall R, Hertl M, Lehman JS, Marinovic B, Patsatsi A, Zillikens D, Werth V, Woodley DT, Murrell DF. International Bullous Diseases Group: consensus on diagnostic criteria for epidermolysis bullosa acquisita. *Br J Dermatol* 2018, 179: 30-14 IF 6.7
- (24) Murrell D, Pena S, Joly P, Marinovic B, Hashimoto T, Diaz LA, Sinha AA, Payne A, Daneshpazhooch M, Eming R, Jonkman M, Mimouni D, Borradori L, Kim SC, Yamagami J, Lehman J, Saleh MA, Culton D, Czernik A, Zone JJ, Fivenson D, Ujiie H, Wozniak K, Akman-Karakas A, Bernard P, Korman N, Caux F, Drenovska K, Prost-Squarcioni C, Vassileva S, Feldman R, Cardones A, Bauer J, Ioannides D, Jedlickova H, Palisson F, Patsatsi A, Uzun S, Yayli S, Zillikens D, Amagai M, Hertl M, **Schmidt E**, Aoki V, Grando S, Shimizu H, Baum S, Cianchini G, Feliciani C, Iranzo P, Mascar J, Kowalewski C, Hall R, Groves R, Harman K, Marinkovich P, Maverakis E, Werth V. Diagnosis and management of pemphigus: Recommendations by an international panel of experts. *J Am Acad Dermatol* 2018, in press. IF 7.1

- (25) Hübner F, Setterfield J, Recke A, Zillikens D, **Schmidt E**, Dart J, Ibrahim S. HLA alleles in British Caucasians with mucous membrane pemphigoid. *Eye* 2018, 32: 1540-41. IF 2.4
- (26) Emtenani S, Yuan H, Lin C, Pan M, Hundt JE, **Schmidt E**, Komorowski L, Stanley JR, Hammers CM. Normal human skin is superior to monkey esophagus substrate for detection of circulating BP180-NC16A-specific immunoglobulin G antibodies in bullous pemphigoid. *Br J Dermatol* 2018, in press, IF 6.7
- (27) Menzinger S, Kaya G, **Schmidt E**, Fontao L, Laffitte E. Biological and clinical response to omalizumab in a patient with bullous pemphigoid. *Acta Derm Venereol* 2018, 98: 284-86. IF 3.5
- (28) Kasprick A, Holtsche M, Kauderer C, **Schmidt E**, Petersen F, Panicker S, Ludwig R. The anti-C1s antibody TNT003 prevents complement activation in the skin induced by bullous pemphigoid autoantibodies. *J Invest Dermatol* 2018, 138: 458-61. IF 6.3
- (29) Tukaj S, Bieber K, Witte M, Ghorbanalipour S, **Schmidt E**, Zillikens D, Ludwig R, Kasperkiewicz M. Calcitriol treatment ameliorates inflammation and blistering in mouse models of epidermolysis bullosa acquisita. *J Invest Dermatol* 2018, 138: 301-309. IF 6.3
- (30) Samavedam U, Mitschker N, Kasprick A, Bieber K, **Schmidt E**, Laskay T, Recke A, Vidarsson G, Schulze FS, Armbrust M, Schulze Dieckhoff K, Pas HH, Jonkman M, Kalies K, Zillikens D, Gupta Y, Ibrahim S, Ludwig R. Whole-genome expression profiling in skin reveals SYK as a key regulator of inflammation in experimental epidermolysis bullosa acquisita. *Front Immunol* 2018, 9: 249. IF 4.7
- (31) Mason JM, Chalmers JR, Godec T, Nunn AJ, Kirtschig G, Wojnarowska F, Childs M, Whitham D, **Schmidt E**, Harman K, Walton S, Chapman A, Williams HC; U.K.Dermatology Clinical Trials Network BLISTER Study Group. Doxycycline compared with prednisolone therapy for patients with bullous pemphigoid: cost-effectiveness analysis of the BLISTER trial. *Br J Dermatol* 2018, 178: 415-23. IF 6.7
- (32) Jankásková J, Horváth ON, Varga R, Arenberger P, **Schmidt E**, Ruzicka T, Sárdy M. Increased sensitivity along with high specificity of indirect immunofluorescence detecting IgG subclasses for diagnosis of bullous pemphigoid. *Clin Exp Dermatol* 2018, 43: 248-53. IF 1.7
- (33) Ellenbogen E, Geller S, Azrielant S, Zeeli T, Goldberg I, **Schmidt E**, Zillikens D, Sherman S, Mercer S, Didkovsky E, Hodak E, Sprecher E. Grover disease and bullous pemphigoid: a clinicopathologic study of six cases. *Clin Exp Dermatol* 2018, in press. IF 1.7
- (34) Proft F, Schulze-Koops H, Grunke M, Schrezenmeier E, Halleck F, Henes J, Unger L, **Schmidt E**, Fiehn C, Jacobi A, Iking-Konert C, Kneitz C, Schmidt RE, Bannert B, Voll RE, Fischer-Betz R, Kötter I, Tony HP, Holle J, Aringer M, Erler A, Behrens F, Burmester GR, Dörner T. Safety and efficacy of off-label use of biologic therapies in patients with inflammatory rheumatic diseases refractory to standard of care therapy: Data from a nationwide German registry (GRAID2). *Z Rheumatol* 2018, 77: 28-39. IF 0.9
- (35) **Schmidt E**. Rituximab as first line therapy of pemphigus (translational comment). *Lancet* 2017, 389: 1956-58. IF 53.2
- (36) Heppe EN, Tofern S, Schulze FS, Ishiko A, Shimizu A, Sina C, Zillikens D, Köhl J, Goletz S, **Schmidt E**. Experimental laminin 332 mucous membrane pemphigoid reflects clinical and immunopathological characteristics of the human disease and critically involves C5aR1. *J Invest Dermatol* 2017, 137: 1709-18. IF 6.4
- (37) van Beek N, Lütmann N, Hübner F, Recke A, Karl I, Schulze FS, Zillikens D, **Schmidt E**. Serum levels of IgE autoantibodies against BP180: correlation with disease activity in patients with bullous pemphigoid but not with the type of clinical presentation. *JAMA Dermatol* 2017, 153: 30-38. IF 8.1
- (38) van Beek N, Dährnich C, Johannsen N, Lemcke S, Goletz S, Hübner F, Di Zenzo G, Dmochowski M, Drenovska K, Geller S, Horn M, Kowalewski C, Medenica L, Murrell DF, Patsatsi A, Uzun S, Vassileva S, Zillikens D, Schlumberger W, **Schmidt E**. Prospective studies on the routine use of a novel multivariant ELISA for the diagnosis of autoimmune bullous diseases. *J Am Acad Dermatol* 2017, 76: 889-894. IF 6.9
- (39) Sticherling M, Franke A, Aberer E, Gläser R, Hertl M, Pfeiffer C, Rzyany B, Schneider S, Shimanovich I, Werfel T, Wilczek A, Zillikens D, **Schmidt E**. An open, multicenter, randomized clinical study in patients with bullous pemphigoid comparing methylprednisolone

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- (41) Mindorf S, Dettmann I, Krüger S, Fuhrmann T, Rentzsch K, Ingolf K, Probst C, Komorowski L, Fechner K, van Beek N, Lemcke S, Sárdy M, Bangert C, Benoit S, Hashimoto T, Zillikens D, Pas H, Jonkman M, Stöcker W, **Schmidt E**. Routine detection of serum anti-desmocollin autoantibodies is only useful in patients with atypical pemphigus. *Exp Dermatol* 2017, 26: 1267-70. IF 2.6
- (42) **Schmidt E**, Spindler V, Eming R, Amagai M, Antonicelli F, Baines JF, Belheouane M, Bernard P, Borradori L, Caproni M, Di Zenzo G, Grando S, Harman K, Jonkman MF, Koga H, Ludwig R, Kowalczyk AP, Müller EJ, Nishie W, Pas H, Payne A, Sadik C, Seppänen A, Setterfield J, Shimizu H, Sinha AA, Sprecher E, Sticherling M, Ujii H, Zillikens D, Hertl M, Waschke J. Meeting report of the *Pathogenesis of Pemphigus and Pemphigoid Meeting* in Munich, September 2016. *J Invest Dermatol* 2017, 137: 1199-1203. IF 6.4
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- (47) Miodovnik M, Künstner A, Langan E, Zillikens D, Gläser R, Sprecher E, Baines J\*, **Schmidt E\***, Ibrahim S\*. A distinct cutaneous microbiota profile in autoimmune bullous diseases patients. *Exp Dermatol* 2017, 26: 1221-27. IF 2.6. \* equal contribution
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- (51) Sadik C, Bischof J, van Beek N, Dieterich A, Benoit S, Sárdy M, Worm M, Meller S, Gläser R, Zillikens D, Homey B, Setterfield J, Minassian D, **Schmidt E**, Dart J, Ibrahim S. Genome-wide association study identifies GALC as susceptibility gene for mucous membrane pemphigoid. *Exp Dermatol* 2017, 26: 1214-20. IF 2.6
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- (62) **Schmidt E**. Increasing the diagnostic sensitivity for mucous membrane pemphigoid by detection of salivary autoantibodies (commentary). *Br J Dermatol* 2016, 174: 956-57. IF 4.7
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