

Ausgewählte Publikationen CK-CARE

2020

Agache I, Rocha C, Beltran J, Song Y, Posso M, Solà I, Alonso-Coello P, Akdis C, Akdis M, Canonica W, Casale T, Chivato T, Corren J, Del Giacco S, Eiwegger T, Firinu D, Gern JE, Hamelmann E, Hanania N, Mäkelä M, Martín IH, Nair P, O'Mahony L, Papadopoulos NG, Papi A, Park HS, Pérez de Llano L, Quirce S, Sastre J, Shamji M, Schwarze J, Canelo-Aybar C, Palomares O, Jutel M. Efficacy and safety of treatment with biologicals (benralizumab, dupilumab and omalizumab) for severe allergic asthma: A systematic review for the EAACI Guidelines – recommendations on the use of biologicals in severe asthma. *Allergy*. 2020 Feb 16. IPF: 8.706

Agache I, Song Y, Posso M, Alonso-Coello P, Rocha C, Solà I, Beltran J, Akdis C, Akdis M, Brockow K, Chivato T, Del Giacco S, Eiwegger T, Eyerich K, Giménez-Arnau A, Gutermuth J, Guttman-Yassky E, Maurer M, Ogg G, Ong PY, O'Mahony L, Schwarze J, Werfel T, Canelo-Aybar C, Palomares O, Jutel M. Efficacy and safety of dupilumab for moderate-to-severe atopic dermatitis: A systematic review for the EAACI biologicals guidelines. *Allergy*. 2020 Jul 21. IPF: 8.706

Agache I, Rocha C, Pereira A, Song Y, Alonso-Coello P, Solà I, Beltran J, Posso M, Akdis C, Akdis M, Brockow K, Chivato T, Del Giacco S, Eiwegger T, Eyerich K, Giménez-Arnau A, Gutermuth J, Guttman-Yassky E, Maurer M, Ogg G, Ong P, O'Mahony L, Schwarze J, Werfel T, Canelo-Aybar C, Palomares O, Jutel M. Efficacy and safety of treatment with omalizumab for chronic spontaneous urticaria: A systematic review for the EAACI Biologicals Guidelines. *Allergy*. 2020 Aug 7. IPF: 8.706

Akdis CA, Arkwright PD, Brügggen MC, Busse W, Gadina M, Guttman-Yassky E, Kabashima K, Mitamura Y, Vian L, Wu J, Palomares O. Type 2 immunity in the skin and lungs. *Allergy*. 2020 Jul;75(7):1582-1605. Review. IPF: 8.706

Akdis CA. Advances and recent developments in asthma in 2020. *Allergy*. 2020 Sep 30. vol. 75, Issue. 12, pp. 3124-3146. IPF: 8.706

Alexander H, Paller AS, Traidl-Hoffmann C, Beck LA, De Benedetto A, Dhar S, Girolomoni G, Irvine AD, Spuls P, Su J, Thyssen JP, Vestergaard C, Werfel T, Wollenberg A, Deleuran M, Flohr C. The role of bacterial skin infections in atopic dermatitis: expert statement and review from the International Eczema Council Skin Infection Group. *Br J Dermatol*. 2020

Alkotob SS, Cannedy C, Harter K, Movassagh H, Paudel B, Prunicki M, Sampath V, Schikowski T, Smith E, Zhao Q, Traidl-Hoffmann C, Nadeau KC. Advances and novel developments in environmental influences on the development of atopic diseases. *Allergy*. 2020

Angelina A, Martín-Fontecha M, Rückert B, Wawrzyniak P, Pérez-Diego M, López-Abente J, Akdis M, Akdis CA, Palomares O. The cannabinoid WIN55212-2 restores rhinovirus-induced epithelial barrier disruption. *Allergy*. 2020 Dec 15. IPF: 8.706

Appert O, Garcia AR, Frei R, Roduit C, Constancias F, Neuzil-Bunesova V, Ferstl R, Zhang J, Akdis CA, Lauener R, Lacroix C, Schwab C. Initial butyrate producers during infant gut microbiota development are endospore formers. *Environ Microbiol*. 2020 Sep;22(9):3909-3921. doi: 10.1111/1462-2920.15167. Epub 2020 Aug 20. PMID: 32686173

Azkur AK, Akdis M, Azkur D, Sokolowska M, van de Veen W, Brügggen MC, O'Mahony L, Gao Y, Nadeau K, Akdis CA. Immune response to SARS-CoV-2 and mechanisms of immunopathological changes in COVID-19. *Allergy*. 2020 Oct;75(7):1564-1581. IPF: 8.706

Bergougnan C, Dittlein DC, Hümmer E, Riepl R, Eisenbart S, Böck D, Griesbaum L, Weigl A, Damialis A, Hartwig A, Neumann AU, Zenk J, Traidl-Hoffmann C, Gilles S. Physical and immunological barrier of human primary nasal epithelial cells from non-allergic and allergic donors. *World Allergy Organ J*. 2020

Bieber T, Traidl-Hoffmann C, Schäppi G, Lauener R, Akdis C, Schmid-Grendlmeier P. Unraveling the complexity of atopic dermatitis: The CK-CARE approach toward precision medicine. *Allergy*. 2020 Jan 22. doi: 10.1111/all.14194. IPF: 8.706

Bieber T. Drug research. 2020 Nov;70(S 01):S30-S1. PubMed PMID: 33202477. Der lange Weg zur personalisierten Medizin in der Allergologie.

Bieber T. It is time to consider global variations in the clinical phenotype: a commentary on the new diagnostic criteria for atopic dermatitis in children in China. *Journal of the European Academy of Dermatology and Venereology* : JEADV. 2020 Mar;34(3):438-9. PubMed PMID: 32112618.

Bieber T. Leveraging the nice face of Janus kinase inhibition-ruxolitinib cream in atopic dermatitis. *The Journal of allergy and clinical immunology*. 2020 Feb;145(2):489-90. PubMed PMID: 31870763.

Bieber T. Targeting T2 Inflammation by Dupilumab Impacts on the Microbiomic "Menage a Trois" of Atopic Dermatitis. *The Journal of investigative dermatology*. 2020 Jan;140(1):15-7. PubMed PMID: 31864429.

Bieber T. Interleukin-13: Targeting an underestimated cytokine in atopic dermatitis. *Allergy*. 2020 Jan;75(1):54-62. PubMed PMID: 31230370.

Bieber T, Endres S. Drug research. 2020 Nov;70(S 01):S5. PubMed PMID: 33202464. *Therapie allergischer Erkrankungen - Stand und Ausblick*.

Boonpiyathad T, Capova G, Duchna HW, Croxford AL, Farine H, Dreher A, Clozel M, Schreiber J, Kubena P, Lunjani N, Mirer D, Rückert B, Satitsuksanoa P, Tan G, Groenen PMA, Bersuch E, Akdis M, Strasser DS, Renner ED, Akdis CA. Impact of high-altitude therapy on type-2 immune responses in asthma patients. *Allergy*. 2020 Jan;75(1):84-94. IPF: 8.706

Braegelmann C, Fetter T, Niebel D, Dietz L, Bieber T, Wenzel J. Immunostimulatory Endogenous Nucleic Acids Perpetuate Interface Dermatitis-Translation of Pathogenic Fundamentals Into an In Vitro Model. *Frontiers in immunology*. 2020;11:622511. PubMed PMID: 33505404. Pubmed Central PMCID: 7831152.

Breiteneder H, Peng YQ, Agache I, Diamant Z, Eiwegger T, Fokkens WJ, Traidl-Hoffmann C, Nadeau K, O'Hehir RE, O'Mahony L, Pfaar O, Torres MJ, Wang DY, Zhang L, Akdis CA. Biomarkers for diagnosis and prediction of therapy responses in allergic diseases and asthma. *Allergy*. 2020 Sep 7;75(12):3039-68. Review. IPF: 8.706

Cabanillas B, Akdis CA, Novak N. Allergic reactions to the first COVID-19 vaccine: a potential role of Polyethylene glycol? *Allergy*. 2020 Dec 15. IPF: 8.706

Cevhertas L, Ogulur I, Maurer DJ, Burla D, Ding M, Jansen K, Koch J, Liu C, Ma S, Mitamura Y, Peng Y, Radzikowska U, Rinaldi AO, Satitsuksanoa P, Globinska A, van de Veen W, Sokolowska M, Baerenfaller K, Gao YD, Agache I, Akdis M, Akdis, D'Amato G, Akdis CA. Global warming, climate change, air pollution and allergies. *Allergy*. 2020 Sep;75(9):2158-2160. IPF: 8.706

Depner M, Taft DH, Kirjavainen PV, Kalanetra KM, Karvonen AM, Peschel S, Schmausser-Hechfellner E, Roduit C, Frei R, Lauener R, Divaret-Chauveau A, Dalphin JC, Riedler J, Roponen M, Kabesch M, Renz H, Pekkanen J, Farquharson FM, Louis P, Mills DA, von Mutius E; PASTURE study group, Ege MJ. Maturation of the gut microbiome during the first year of life contributes to the protective farm effect on childhood asthma. *Nat Med*. 2020 Nov;26(11):1766-1775. doi: 10.1038/s41591-020-1095-x. Epub 2020 Nov 2. PMID: 33139948

Du H, Dong X, Zhang JJ, Cao YY, Akdis M, Huang PQ, Chen HW, Li Y, Liu GH, Akdis CA, Lu XX, Gao YD. Clinical characteristics of 182 pediatric COVID-19 patients with different severities and allergic status. *Allergy*. 2020 Jun 10;10.1111/all.14452. IPF: 8.706

Eljaszewicz A, Ruchti F, Radzikowska U, Globinska A, Boonpiyathad T, Gschwend A, Morita H, Helbling A, Arasi S, Kahlert H, Berek N, Nandy A, Akdis M, Willers C, Moniuszko M, Akdis CA, Sokolowska M. Trained immunity and tolerance in innate lymphoid cells, monocytes and dendritic cells during allergen-specific immunotherapy. *J Allergy Clin Immunol*. 2020 Oct 9:S0091-6749(20)31396-8.

Fairweather V, Hertig E, Traidl-Hoffmann C. A brief introduction to climate change and health. *Allergy*. 2020

Gao YD, Ding M, Dong X, Zhang JJ, Azkur AK, Azkur D, Gan H, Sun YL, Fu W, Li W, Liang HL, Cao YY, Yan Q, Cao C, Gao HY, Brüggem MC, van de Veen W, Sokolowska M, Akdis M, Akdis CA. Risk factors for severe and critically ill COVID-19 patients: a review. *Allergy*. 2020 Nov 13. IPF: 8.706

Gilles S, Blume C, Wimmer M, Damialis A, Meulenbroek L, Gökkaya M, Bergougnan C, Eisenbart S, Sundell N, Lindh M, Andersson LM, Dahl Å, Chaker A, Kolek F, Wagner S, Neumann AU, Akdis CA, Garssen J, Westin J, Van't Land B, Davies DE, Traidl-Hoffmann C. Pollen exposure weakens innate defense against respiratory viruses. *Allergy*. 2020 Mar;75(3):576-587. IPF: 8.706

Gökkaya M, Damialis A, Nussbaumer T, Beck I, Bounas-Pyrras N, Bezold S, Amisi MM, Kolek F, Todorova A, Chaker A, Aglas L, Ferreira F, Redegeld FA, Brunner JO, Neumann AU, Traidl-Hoffmann C, Gilles S. Defining biomarkers to predict symptoms in subjects with and without allergy under natural pollen exposure. *J Allergy Clin Immunol*. 2020

Gökkaya M, Schwierzeck V, Thölken K, Knoch S, Gerstlauer M, Hammel G, Traidl-Hoffmann C, Gilles S. Nasal specific IgE correlates to serum specific IgE: First steps towards nasal molecular allergy diagnostic. *Allergy*. 2020

Harter K, Hammel G, Fleming M, Traidl-Hoffmann C. Multiple Chemikaliensensibilität (MCS) - Ein Leitfaden für die Dermatologie zum Umgang mit den Betroffenen. *J Dtsch Dermatol Ges*. 2020

Hülpüsch C, Tremmel K, Hammel G, Bhattacharyya M, de Tomassi A, Nussbaumer T, Neumann AU, Reiger M, Traidl-Hoffmann C. Skin pH-dependent *Staphylococcus aureus* abundance as predictor for increasing atopic dermatitis severity. *Allergy*. 2020

Ivaska LE, Hanif T, Ahmad F, Tan G, Altunbulakli C, Mikola E, Silvonemi A, Puhakka T, Akdis CA, Toppila-Salmi S, Jartti T. Tonsillar microbial diversity, abundance, and interrelations in atopic and non-atopic individuals. *Allergy*. 2020 Aug;75, 2133–2135. IPF: 8.706

Jensen-Jarolim E, Bachmann MF, Bonini S, Jacobsen L, Jutel M, Klimek L, Mahler V, Mösges R, Moingeon P, O Hehir RE, Palomares O, Pfaar O, Renz H, Rhyner C, Roth-Walter F, Rudenko M, Savolainen J, Schmidt-Weber CB, Traidl-Hoffmann C, Kündig T. State-of-the-art in marketed adjuvants and formulations in Allergen Immunotherapy: A position paper of the European Academy of Allergy and Clinical Immunology (EAACI). *Allergy*. 2020

Klaeschen AS, Nümm TJ, Herrmann N, Leib N, Maintz L, Sakai T, Wenzel J, Bieber T. JAK1/2 inhibition impairs the development and function of inflammatory dendritic epidermal cells in atopic dermatitis. *J Allergy Clin Immunol*. 2020

Kucuksezer UC, Ozdemir C, Akdis M, Akdis CA. Influence of Innate Immunity on Immune Tolerance. *Acta Med Acad*. 2020 Aug;49(2):164-180.

Lang CCV, Masenga J, Semango G, Kaderbhai H, Li N, Tan G, Heider A, Guttman-Yassky E, Grimm F, Schmid-Grendelmeier P, Brügggen MC. Evidence for different immune signatures and sensitization patterns in sub-Saharan African vs. Central European atopic dermatitis patients. *J Eur Acad Dermatol Venereol*. 2020. IPF: 5.248

Leyva-Castillo JM, Jabara HH, Wenzel J, McGurk A, Wong D, Bieber T, et al. APRIL expression is upregulated in atopic dermatitis skin lesions and at sites of antigen driven allergic skin inflammation in mice. *Clinical immunology*. 2020 Oct;219:108556. PubMed PMID: 32777271. Pubmed Central PMCID: 7484409.

Luger T, Dirschka T, Eyerich K, Gollnick H, Gupta G, Lambert J, Micali G, Ochsendorf F, Ständer S, Traidl-Hoffmann C. Developments and challenges in dermatology: an update from the Interactive Derma Academy (IDeA) 2019. *J Eur Acad Dermatol Venereol*. 2020

Mungan D, Gürman G, Mısırlıgil Z, Toprak SK, Dalva K, Topçuoglu P, Akdis M, Akdis CA. Transferability and curability of allergic disease by allogeneic hematopoietic stem cell transplantation. *Allergy*. 2020 Sep;75(9):2392-2394. IPF: 8.706

Pointner L, Bethanis A, Thaler M, Traidl-Hoffmann C, Gilles S, Ferreira F, Aglas L. Initiating pollen sensitization - complex source, complex mechanisms. *Clin Transl Allergy*. 2020

Radzikowska U, Ding M, Tan G, Zhakparov D, Peng Y, Wawrzyniak P, Wang M, Li S, Morita H, Altunbulakli C, Reiger M, Neumann AU, Lunjani N, Traidl-Hoffmann C, Nadeau KC, O'Mahony L, Akdis CA, Sokolowska M. Distribution of ACE2, CD147, CD26, and other SARS-CoV-2 associated molecules in tissues and immune cells in health and in asthma, COPD, obesity, hypertension, and COVID-19 risk factors. *Allergy*. 2020 Nov;75(11):2829-2845. IPF: 8.706

Rauer D, Gilles S, Wimmer M, Frank U, Mueller C, Musiol S, Vafadari B, Aglas L, Ferreira F, Schmitt-Kopplin P, Durner J, Winkler JB, Ernst D, Behrendt H, Schmidt-Weber CB, Traidl-Hoffmann C, Alessandrini F. Ragweed plants grown under elevated CO₂ levels produce pollen which elicit stronger allergic lung inflammation. *Allergy*. 2020

Reiger M, Traidl-Hoffmann C, Neumann AU. The skin microbiome as a clinical biomarker in atopic eczema: Promises, navigation, and pitfalls. *J Allergy Clin Immunol*. 2020

Riggioni C, Comberiati P, Giovannini M, Agache I, Akdis M, Alves-Correia M, Antó JM, Arcolaci A, Azkur A.K, Azkur D, Beken B, Boccabella C, Bousquet J, Breiteneder H, Carvalho D, De las Vecillas L, Diamant Z, Eguiluz-Gracia I, Eiwegger T, Eyerich S, Fokkens W, Gao YD, Hannachi F, Johnston SL, Jutel M, Karavelia A, Klimek L, Moya B, Nadeau KC, O’Hehir R, O’Mahony L, Pfaar O, Sanak M, Schwarze J, Sokolowska M, Torres MJ, van de Veen W, van Zelm MC, Wang DY, Zhang L, Jiménez-Saiz R, Akdis CA. A compendium answering 150 questions on COVID-19 and SARS-CoV-2. *Allergy*. 2020 Oct;75(10):2503-2541.

Satitsuksanoa P, Daanje M, Akdis M, Boyd SD, van de Veen W. Biology and dynamics of B cells in the context of IgE-mediated food allergy. *Allergy*, 2020 Dec 3.

Schmid-Grendelmeier P, Steiger P, Naegeli M, Kolm I, Lang C, Maverakis E, Brüggemann MC. Benralizumab for severe DRESS in two COVID-19 patients. *J Allergy Clin Immunol Pract*. 2020 Oct 8:S2213-2198(20)31088-6.

Shamji MH, Akdis CA, Barber D, Canonica W, Chivato T, Del Giacco S, Hoffman-Sommergruber K, Jutel M, Knol E, Ollert M, O’Mahony L, Palomares O, Sastre J, Schwarze J, Smolinska S, Vieths S, Agache I. EAACI Research and Outreach Committee: Improving standards and facilitating global collaboration through a Research Excellence Network. *Allergy*. 2020 Aug;75(8):1899-1901

Speidel JD, Gilles S, Steer B, Vafadari B, Rauer D, Traidl-Hoffmann C, Adler H. Pollen induces reactivation of latent herpesvirus and differentially affects infected and uninfected murine macrophages. *Allergy*. 2020

Sugita K, Akdis CA. Recent developments and advances in atopic dermatitis and food allergy. *Allergol Int*. 2020 Apr;69(2):204-214.

Traidl-Hoffmann C. Klimawandel und Gesundheit – wird die Tsunami-Welle allergischer Erkrankungen in Zukunft noch höher? *Drug Res (Stuttg)*. 2020

Traidl-Hoffmann C. Höhentherapie bei Asthma ist nicht «out»: *Peumologie*. *MMW Fortschr Med*. 2020

van de Veen W, Globinska A, Jansen K, Straumann A, Kubo T, Verschoor D, Wirz O.F, Castro-Giner F, Tan G, Rückert B, Ochsner U, Herrmann M, Stanic B, van Splunter M, Huntjens D, Wallimann A, Fonseca Guevara R.J, Spits H, Ignatova D, Chang YT, Fassnacht C, Guenova E, Flatz L, Akdis CA, Akdis M. novel proangiogenic B cell subset is increased in cancer and chronic inflammation. *Science Advances*. 2020 May 13;6(20), art. no. eaaz3559.

Vultaggio A, Agache I, Akdis CA, Akdis M, Bavbek S, Bossios A, Bousquet J, Boyman O, Chaker AM, Chan S, Chatzipetrou A, Feleszko W, Firinu D, Jutel M, Kauppi P, Klimek L, Kolios A, Kothari A, Kowalski ML, Matucci A, Palomares O, Pfaar O, Rogala B, Untersmayr E, Eiwegger T. Considerations on biologicals for patients with allergic disease in times of the COVID-19 pandemic: An EAACI statement. *Allergy*. 2020 Nov;75(11):2764-2774.

Xian M, Ma S, Wang K, Lou H, Wang Y, Zhang L, Wang C, Akdis CA. Particulate Matter 2.5 Causes Deficiency in Barrier Integrity in Human Nasal Epithelial Cells. *Allergy Asthma Immunol Res*. 2020 Jan;12(1):56-71.

Zhang JJ, Cao YY, Tan G, Dong X, Wang BC, Lin J, Yan YQ, Liu GH, Akdis M, Akdis CA, Gao YD. Clinical, radiological, and laboratory characteristics and risk factors for severity and mortality of 289 hospitalized COVID-19 patients. *Allergy*. 2020 Jul 14:10.1111/all.14496.