

Publications Using Purified Allergens

Mouse Models:

1. Trompette, S. Divanovic, A. Visintin, C. Blanchard, R. S. Hegde, R. Madan, P. S. Thorne, M. Wills-Karp, T. L. Gioannini, J. P. Weiss & C. L. Karp. Allergenicity resulting from functional mimicry of a Toll-like receptor complex protein. *Nature* 2009; 457: 585-588 **Der p 2**
2. M. D. Leech, R. A. Benson, A. deVries, P. M. Fitch, and S. E. M. Howie. Resolution of Der p1- Induced Allergic Airway Inflammation Is Dependent on CD4⁺CD25⁺Foxp3⁺ Regulatory Cells *Journal of Immunology* 2007; 179: 7050-7058 **Der p 1**
3. Jacquet, J. Vanderschrick, M. Vandenbranden, A. Elouahabi, M. Magi, L. Garcia, and J. Ruysschaert. Vaccination with the Recombinant Allergen ProDer p 1 Complexed with the Cationic Lipid DiC14-amidine Prevents Allergic Responses to House Dust Mite. *Nature, Molecular Therapy* 2005; 11: 960-968. **nDer p 1, Der p 1 ELISA**
4. E. C. Cates, R. Fattouh, J. Wattie, M. D. Inman, S. Goncharova, A. J. Coyle, J. Gutierrez- Ramos, and M. Jordana. Intranasal Exposure of Mice to House Dust Mite Elicits Allergic Airway Inflammation via a GM-CSF-Mediated Mechanism. *Journal of Immunology* 2004; 173: 6384-6392 **rDer p 1**
5. Gillian Hall, Lise Lund, Jonathan R. Lamb, Elizabeth R. Jarman. Kinetics and mode of peptide delivery via the respiratory mucosa determine the outcome of activation versus TH2 immunity in allergic inflammation of the airways. 2002, *Journal of Allergy and Clinical Immunology* Vol. 110, Issue 6, Pages 883-890. **Der p 1**
6. Andrew G. Jarnicki, Takao Tsuji, Wayne R. Thomas. Hypersensitivity reactions after respiratory sensitization: Effect of intranasal peptides containing T-cell epitopes. 2002, *Journal of Allergy and Clinical Immunology* Vol. 110, Issue 4, Pages 610-616 **nDer p 1**

7. T. Kobayashi, K. Iijima, S. Radhakrishnan, V. Mehta, R. Vassallo, C. B. Lawrence, J. Cyong, L. R. Pease, K. Oguchi, and H. Kita. Asthma-Related Environmental Fungus, *Alternaria*, Activates Dendritic Cells and Produces Potent Th2 Adjuvant Activity. *Journal of Immunology* 2009; 182: 2502-2510 **rAlta 1**
8. Jiyoung Kim, Andrew C. Merry, Jean A. Nemzek, Gerry L. Bolgos, Javed Siddiqui, and Daniel G. Remick. Eotaxin Represents the Principal Eosinophil Chemoattractant in a Novel Murine Asthma Model Induced by House Dust Containing Cockroach Allergens. *Journal of Immunology* 2001; 167: 2808-2815 **Bla g 2, Der p 1**

Complete List:

Mite

9. Q. K. Griffith, Y. Liang, D. O. Onguru, P. N. Mwinzi, and L. M. Ganley-Leal. CD23-Bound IgE Augments and Dominates Recall Responses through Human Naive B Cells. *Journal of Immunology* 2011; 186: 1060-1067 **nDer p 2**
10. Xiuju Dai, Koji Sayama, Mikiko Tohyama, Yuji Shirakata, Yasushi Hanakawa, Sho Tokumaru, Lujun Yang, Satoshi Hirakawa, Koji Hashimoto. Mite allergen is a danger signal for the skin via activation of inflammasome in keratinocytes. 2011, *Journal of Allergy and Clinical Immunology* Vol. 127, Issue 3, Pages 806-814.e4 **nDer p/f 1, rDer p 2**
11. M. A. Gill, G. Bajwa, T. A. George, C. C. Dong, I. I. Dougherty, N. Jiang, V. N. Gan, and R. S. Gruchalla. Counterregulation between the FcεRI Pathway and Antiviral Responses in Human Plasmacytoid Dendritic Cells. *Journal of Immunology* 2010; 184: 5999-6006 **nDer p 1**
12. Trompette, S. Divanovic, A. Visintin, C. Blanchard, R. S. Hegde, R. Madan, P. S. Thorne, M. Wills-Karp, T. L. Gioannini, J. P. Weiss & C. L. Karp. Allergenicity resulting from functional mimicry of a Toll-like receptor complex protein. *Nature* 2009; 457: 585-588 **Der p 2**
13. Bianca Schaub, Jing Liu, Sabine Höppler, Isolde Schleich, Jochen Huehn, Sven Olek, Georg Wiczorek, Sabina Illi, Erika von Mutius. Maternal farm exposure modulates neonatal immune mechanisms through regulatory T cells.

2009, *Journal of Allergy and Clinical Immunology* Vol. 123, Issue 4, Pages 774-782.e5 **Der p 1**

14. Kilian Eyerich, Davide Pennino, Claudia Scarponi, Stefanie Foerster, Francesca Nasorri, Heidrun Behrendt, Johannes Ring, Claudia Traidl-Hoffmann, Cristina Albanesi, Andrea Cavani. IL-17 in atopic eczema: Linking allergen-specific adaptive and microbial-triggered innate immune response. 2009, *Journal of Allergy and Clinical Immunology* Vol. 123, Issue 1, Pages 59-66.e4 **n/r Der p 1**
15. Bianca Schaub, Jing Liu, Sabine Höppler, Severine Haug, Christine Sattler, Anna Lluís, Sabina Illi, Erika von Mutius. Impairment of T-regulatory cells in cord blood of atopic mothers. 2008, *Journal of Allergy and Clinical Immunology* Vol. 121, Issue 6, Pages 1491- 1499.e13 **Der p 1**
16. M. D. Leech, R. A. Benson, A. deVries, P. M. Fitch, and S. E. M. Howie. Resolution of Der p1- Induced Allergic Airway Inflammation Is Dependent on CD4⁺CD25⁺Foxp3⁺ Regulatory Cells. *Journal of Immunology* 2007; 179: 7050-7058 **Der p 1**
17. P. de Nadaï, A. Charbonnier, C. Chenivesse, S. Sénéchal, C. Fournier, J. Gilet, H. Vorng, Y. Chang, P. Gosset, B. Wallaert, A. Tonnel, P. Lassalle, and A. Tsicopoulos. Involvement of CCL18 in Allergic Asthma. *Journal of Immunology* 2006; 176: 6286-6293 **Der p 1**
18. Jacquet, J. Vanderschrick, M. Vandenbranden, A. Elouahabi, M. Magi, L. Garcia, and J. Ruyschaert. Vaccination with the Recombinant Allergen ProDer p 1 Complexed with the Cationic Lipid DiC14-amidine Prevents Allergic Responses to House Dust Mite. *Nature, Molecular Therapy* 2005; 11: 960-968 **nDer p 1, Der p 1 ELISA**
19. Michael M. Grunstein, Haviva Veler, Xiaoyin Shan, Joshua Larson, Judith S. Grunstein, Sing Chuang. Proasthmatic effects and mechanisms of action of the dust mite allergen, Der p 1, in airway smooth muscle. 2005, *Journal of Allergy and Clinical Immunology* Vol. 116, Issue 1, Pages 94-101 **Der p 1**
20. Toshiro Takai, Takeshi Kato, Hiroshi Yasueda, Ko Okumura, Hideoki Ogawa. Analysis of the structure and allergenicity of recombinant pro- and mature Der

p 1 and Der f 1: Major conformational IgE epitopes blocked by prodomains. 2005, *Journal of Allergy and Clinical Immunology* Vol. 115, Issue 3, Pages 555-563 **nDer p 1**

21.E. C. Cates, R. Fattouh, J. Wattie, M. D. Inman, S. Goncharova, A. J. Coyle, J. Gutierrez- Ramos, and M. Jordana. Intranasal Exposure of Mice to House Dust Mite Elicits Allergic Airway Inflammation via a GM-CSF-Mediated Mechanism. *Journal of Immunology* 2004; 173: 6384- 6392 **rDer p 1**

22.Gillian Hall, Lise Lund, Jonathan R. Lamb, Elizabeth R. Jarman. Kinetics and mode of peptide delivery via the respiratory mucosa determine the outcome of activation versus TH2 immunity in allergic inflammation of the airways. 2002, *Journal of Allergy and Clinical Immunology* Vol. 110, Issue 6, Pages 883-890 **Der p 1**

23.Andrew G. Jarnicki, Takao Tsuji, Wayne R. Thomas. Hypersensitivity reactions after respiratory sensitization: Effect of intranasal peptides containing T-cell epitopes. 2002, *Journal of Allergy and Clinical Immunology* Vol. 110, Issue 4, Pages 610-616 **nDer p 1**

24.O. Fahy, S. Sénéchal, J. Péne, A. Scherpereel, P. Lassalle, A. Tonnel, H. Yssel, B. Wallaert, and A. Tsicopoulos. Diesel Exposure Favors Th2 Cell Recruitment by Mononuclear Cells and Alveolar Macrophages from Allergic Patients by Differentially Regulating Macrophage-Derived Chemokine and IFN- γ -Induced Protein-10 Production. *Journal of Immunology* 2002; 168: 5912-5919 **nDer p 1**

25.S. Scrivener, H. Yemaneberhan, M. Zebenigus, D. Tilahun, S. Girma, S. Ali, P. McElroy, A. Custovic, A. Woodcock, D. Pritchard, A. Venn, J.

26.Britton. Independent effects of intestinal parasite infection and domestic allergen exposure on risk of wheeze in Ethiopia: a nested case control study.*Lancet* 2001; 358: 1493-99 **nDer p 1**

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27.Elizabeth Alice Louise Bateman, Michael Roger Ardern-Jones, Graham Stuart Ogg. Persistent central memory phenotype of circulating Fel d 1 peptide/DRB1*0101 tetramer- binding CD4+ T cells. 2006, *Journal of Allergy and Clinical Immunology* Vol. 118, Issue 6, Pages 1350-1356 **Fel d 1**

28. Ke Zhang, Christopher L. Kepley, Tetsuya Terada, Daocheng Zhu, Hector Perez, Andrew Saxon. Inhibition of allergen-specific IgE reactivity by a human IgG₁-Fcε bifunctional fusion protein. 2004, *Journal of Allergy and Clinical Immunology* Vol. 114, Issue 2, Pages 321-327 **Fel d 1**
29. Elizabeth Matsui, Anne Kagey-Sobotka, Kristin Chichester, Peyton A. Eggleston. Allergic potency of recombinant Fel d 1 is reduced by low concentrations of chlorine bleach 2003, *Journal of Allergy and Clinical Immunology* Vol. 111, Issue 2, Pages 396-401 **rFel d 1**

Other / Multiple Allergens

30. P. Royer, M. Emara, C. Yang, A. Al-Ghouleh, P. Tighe, N. Jones, H. F. Sewell, F. Shakib, L. Martinez-Pomares, and A. M. Ghaemmaghami. The Mannose Receptor Mediates the Uptake of Diverse Native Allergens by Dendritic Cells and Determines Allergen-Induced T Cell Polarization through Modulation of IDO Activity. *Journal of Immunology* 2010; 185: 1522-1531 **nDer p 1, nDer p 2, Can f 1, Bla g 2, Ara h 1**
31. T. Kobayashi, K. Iijima, S. Radhakrishnan, V. Mehta, R. Vassallo, C. B. Lawrence, J. Cyong, L. R. Pease, K. Oguchi, and H. Kita. Asthma-Related Environmental Fungus, *Alternaria*, Activates Dendritic Cells and Produces Potent Th2 Adjuvant Activity. *Journal of Immunology* 2009; 182: 2502-2510 **rAlt a 1**
32. Diane R. Gold, Ben M. Willwerth, Kelan G. Tantisira, Patricia W. Finn, Bianca Schaub, David L. Perkins, Arthur Tzianabos, Ngoc P. Ly, Christian Schroeter, Fiona Gibbons, Hannia Campos, Emily Oken, Matthew W. Gillman, Lyle J. Palmer, Louise M. Ryan, Scott T. Weiss. Associations of cord blood fatty acids with lymphocyte proliferation, IL-13, and IFN-γ. 2006, *Journal of Allergy and Clinical Immunology* Vol. 117, Issue 4, Pages 931-938 **Bla g 2, Der f 1**
33. Elizabeth A. Erwin, Natalie J. Custis, Shama M. Satinover, Matthew S. Perzanowski, Judith A. Woodfolk, Julian Crane, Kristin Wickens, Thomas A.E. Platts-Mills. Quantitative measurement of IgE antibodies to purified allergens using streptavidin linked to a high-capacity solid phase. 2005, *Journal of Allergy and Clinical Immunology* Vol. 115, Issue 5, Pages 1029-1035 **Can f 1**