

Last Updated August 2023

Refereed Papers:

Kim, E.H., Keet, C.A., Virkud, Y.V., Chin, S., Ye, P., Penumarti, A., Smeekens, J., Guo, R., Yue, X., Li, Q., Kosorok, M.R., **Kulis, M.D.**, Burks, A.W. Open-label study of the efficacy, safety, and durability of peanut sublingual immunotherapy in peanut-allergic children. *J Allergy Clin Immunol* 2023, PMID: 36828080.

Foo, A.C.Y., Nesbit, J.B., Gipson, S.A.Y., DeRose, E.F., Cheng, H., Hurlburt, B.K., **Kulis, M.D.**, Kim, E.H., Dreskin, S.C., Mustafa, S., Maleki, S.J., Mueller, G.A. Structure and IgE cross-reactivity among cashew, pistachio, walnut, and peanut vicilin-buried peptides. *J Agric Food Chem* 2023, PMID: 36728846.

Liu, E.G., Zhang, B., Martin, V., Anthonypillai, J., Kraft, M., Grishin, A., Grishina, G., Catanzaro, J.R., Chinthrajah, S., Sindher, T., Manohar, M., Quake, A.Z., Nadeau, K., Burks, A.W., Kim, E.H., **Kulis, M.D.**, Henning, A.K., Jones, S.M., Leung, D.Y.M., Sicherer, S.H., Wood, R.A., Yuan, Q., Shreffler, W., Sampson, H., Shabanova, V., Eisenbarth, S.C. Food-specific immunoglobulin A does not correlate with natural tolerance to peanut or egg allergens. *Sci Transl Med* 2022, PMID: 36383680.

Gonzalez-Visiedo, M., **Kulis, M.D.**, Markusic, D.M. Manipulating the microbiome to enhance oral tolerance in food allergy. *Cell Immunol* 2022, PMID: 36347161.

Smeekens, J.M., Kesselring, J.R., Frizzell, H., Bagley, K.C., **Kulis, M.D.** Induction of food-specific IgG by Gene Gun-delivered DNA vaccines. *Front Allergy* 2022, PMID: 36340020.

Steinbach, E.C., Smeekens, J.M., Roy, S., Toyonaga, T., Cornaby, C., Perini, L.B., Berglind, A.E., **Kulis, M.D.**, Kim, E.H., Ferris, M.T., Furey, T.S., Burks, A.W., Sheikh, S.Z. Intestinal epithelial cell barrier dysfunction and elevated Angiopoietin-like 4 identified in orally susceptible peanut allergy model. *Clin Exp Allergy* 2022, PMID: 36336910.

Suber, J., Zhang, Y., Ye, P., Guo, R., Burks, A.W., **Kulis, M.D.**, Smith, S.A., Iweala, O.I. Novel peanut specific human IgE monoclonal antibodies enable screens for inhibitors of the effector phase in food allergy. *Front Immunol* 2022, PMID: 36248809

Smeekens, J.M., Baloh, C., Lim, N., Larson, D., Qin, T., Wheatley, L., Kim, E.H., Jones, S.M., Burks, A.W., **Kulis, M.D.** Peanut-specific IgG4 and IgA in saliva are modulated by peanut oral immunotherapy. *J Allergy Clin Immunol Pract* Aug 2022, PMID: 35944894.

Moran, T.P., **Kulis, M.D.** A “LEAP” forward in understanding immune mechanisms of oral tolerance to peanut. *J Allergy Clin Immunol* Aug 2022, PMID: 35490903.

Hardy, L.C., Smeekens, J.M., Raghuvanshi, D., Sarkar, S., Daskhan, G.C., Rogers, S., Nykolat, C., Maleki, S., Burks, A.W., Paulson, J.C., Macauley, M.S., **Kulis, M.D.** Targeting CD22 on memory B cells to induce tolerance to peanut allergens. *J Allergy Clin Immunol* Jul 2022, PMID: 35839842.

Kulis, M.D., Smeekens, J.M., Burk, C., Yue, X., Guo, R., Orgel, K.A., Ye, P., Herlihy, L, Hamilton, D., Li, Q., Keet, C., Shreffler, W., Vickery, B.P., Burks, A.W., Kim, E.H. Kinetics of basophil hyporesponsiveness during short-course peanut OIT. *J Allergy Clin Immunol* Jul 2022, PMID: 35716952.

Wood, R.A., Chinthrajah, S.R., Rudman Spergel, A.K., Babineau, D.C., Sicherer, S.H., Kim, E.H., Shreffler, W.G., Jones, S.M., Leung, D.Y.M., Vickery, B.P., Bird, J.A., Spergel, J.M., **Kulis, M.**, Iqbal, A., Kaufman, D., Umetsu, D.T., Ligueros-Saylan, M., Uddin, A., Fogel, R.B., Lussier, S., Mudd, K., Poyser, J., MacPhee, M. Veri, M., Davidson, W. Hamrah, S., Long, A., Togias, A., on behalf of the OUtMATCH study team. Protocol design and synopsis: Omalizumab as monotherapy and as adjunct therapy to multiallergen OIT in children and adults with food allergy (OUtMATCH). *J Allergy Clin Immunol Global* Jul 2022.

Smeekens, J.M., Kesselring, J.R., Bagley, K., **Kulis, M.D.** A mouse model of shrimp allergy with cross-reactivity to crab and lobster. *Methods in Molecular Biology* 2022.

Gonzalez-Visiedo, M., Xin, L., **Kulis, M.D.**, Daniell, H., Markusic, D.M. Single dose AAV vector gene immunotherapy to treat food allergy. *Molecular Therapy - Methods & Clinical Development* Jul 2022.

Jones, S.M., Kim, E.H., Nadeau, K.C., Nowak-Wegrzyn, A., Wood, R.A., Sampson, H.A., Scurlock, A.M., Chinthraja, S., Wang, J., Pesek, R.D., Sindher, S.B., **Kulis, M.**, Johnson, J., Spain, K., Babineau, D.C., Chin, H., Laurienzo-Panza, J., Yan, R., Larson, D., Qin, T., Whitehouse, D., Sever, M.L., Sanda, S., Plaut, M., Wheatley, L.M., Burks, A.W. Immune Tolerance Network. Efficacy and safety of oral immunotherapy in children aged 1-3 years with peanut allergy (the Immune Tolerance Network IMPACT trial): a randomized placebo-controlled study. *Lancet*. Jan 2022, PMID: 35065784.

Santos, A.F., **Kulis, M.D.**, Sampson, H.A. Bringing the next generation of food allergy diagnostics into the clinic. *J Allergy Clin Immunol Pract*. Jan 2022, PMID: 34530176.

Smeekens, J.M., **Kulis, M.D.** Mouse models of food allergy in the pursuit of novel treatment modalities. *Front Allergy*. Dec 2021, PMID: 35387036.

Kulis, M.D., Smeekens, J.M., Immormino, R.M., Moran, T.P. The airway as a route of sensitization to peanut: An update to the dual allergen exposure hypothesis. *J Allergy Clin Immunol*. Sept 2021, PMID: 34111450.

Choudhary, S.K., Karim, S., Iweala, O.I., Choudhary, S., Crispell, G., Sharma, S.R., Addison, C.T., **Kulis, M.**, Herrin, B.H., Little, S.E., Commins, S.P. Tick salivary gland extract induces alpha-gal syndrome in alpha-gal deficient mice. *Immun Inflamm Dis*. Sept 2021, PMID: 34034363.

Smeekens, J.M., Johnson-Weaver, B.T., Hinton, A.L., Azcarate-Peril, M.A., Moran, T.P., Immormino, R.M., Kesselring, J.R., Steinbach, E.C., Orgel, K.A., Staats, H.F., Burks, A.W., Mucha, P.J., Ferris, M.T., **Kulis, M.D.** Fecal IgA, antigen absorption, and gut microbiome composition are associated with food antigen sensitization in genetically susceptible mice. *Front Immunol* 2021, PMID: 33542716.

Barshow, S.M., **Kulis, M.D.**, Burks, A.W., Kim, E.H. Mechanisms of oral immunotherapy. *Clin Exp Allergy* 2021; 51(4): 527-535.

Penumarti, A., Szczepanski, N., Kesselring, J., Gabel, E., Sheth, R., Berglund, J., Kim, E.H., Burks, A.W., **Kulis, M.D.** Irradiated tree nut flours for use in oral immunotherapy. *J Allergy Clin Immunol Pract* 2021; 9(1): 321-327. [Featured on the AAAAI website's Latest Research Section](#)

Smeekens, J.M., Immormino, R.M., **Kulis, M.D.***, Moran, T.P.* Timing of exposure to environmental adjuvants is critical to mitigate peanut allergy. *J Allergy Clin Immunol* 2021; 147(1): 387-390. [*Note: Co-Senior Authors](#)

Smeekens, J.M., Orgel, K.A., Kesselring, J., Bagley, K., **Kulis, M.D.** Model of walnut allergy in CC027/GeniUnc mice recapitulates key feature of human disease. *Yale J Biol Med* 2020; 93(5): 669-673.

Sigmon, J.S., Blanchard, M.W., Baric, R.S., Bell, T.A., Brennan, J., Brockmann, G.A., Burks, A.W., Calabrese, J.M., Caron, K.M., Cheney, R.E., Ciavatta, D., Conlon, F., Darr, D.B., Faber, J., Franklin, C., Gershon, T.R., Gralinski, L., Gu, B., Gaines, C.H., Hagan, R.S., Heimsath, E.G., Heise, M.T., Hock, P., Iderabdullah, F., Jennette, J.C., Kafri, T., Kashfeen, A., **Kulis, M.**, Kumar, V., Linnertz, C., Livraghi-Butrico, A., Lloyd, K.C.K., et. al. Content and performance of the MiniMUGA genotyping array: A new tool to improve rigor and reproducibility in mouse research. *Genetics* 2020; 216(4): 905-930.

Kulis, M.D., Smeekens, J.M., Kavanagh, K., Jorgensen, M.J. Peanut applied to the skin of nonhuman primates induces antigen-specific IgG but not IgE. *Immun Inflamm Dis* 2020; 8(2): 211-215.

Smeekens, J.M., **Kulis, M.D.** Evolution of immune responses in food immunotherapy. *Immunol Allergy Clin North Am* 2020; 40(1): 87-95.

Hardy, L.C., Smeekens, J.M., **Kulis, M.D.** Biomarkers in food allergy immunotherapy. *Curr Allergy Asthma Rep* 2019; 19(12): 61.

Dellon E.S., Guo R., McGee S.J., Hamilton D.K., Nicolai E., Covington J., Moist S.E., Arrington A., Wright B.L., Burks A.W., Vickery B.P., **Kulis M.** A novel allergen-specific immune signature-directed approach to dietary elimination in eosinophilic esophagitis. *Clin Transl Gastro* 2019; 10(12):e00099.

Kim, E.H., Yang, L., Ye, P., Guo, R., Li, Q., **Kulis, M.D.**, Burks, A.W. Long-term sublingual immunotherapy for peanut allergy in children: Clinical and immunologic evidence of desensitization. *J Allergy Clin Immunol* 2019; 144(5): 1320-1326.

Smeekens, J.M., Immormino, R.M., Balogh, P.A., Randell, S.H., **Kulis, M.D.***, Moran, T.P.* Indoor dust acts as an adjuvant to promote sensitization to peanut through the airway. *Clin Exp Allergy* 2019; 49(11): 1500-1511. [*Note: Co-Senior Authors](#)

Dreskin, S.C., Germinaro, M., Reinhold, D., Chen, X., Vickery, B.P., **Kulis, M.**, Burks, A.W., Negi, S.S., Braun, W., Chambliss, J., Eglite, S., McNulty, C.M.G. IgE binding to linear epitopes of Ara h 2 in peanut allergic preschool children undergoing oral immunotherapy. *Pediatr Allergy Immunol* 2019; 30(8): 817-823.

Daniell, H., **Kulis, M.**, Herzog, R.W. Plant cell-made protein antigens for induction of oral tolerance. *Biotechnol Adv* 2019; 37(7): 107413.

Yang, L., **Kulis, M.** Hypoallergenic proteins for the treatment of food allergy. *Curr Allergy Asthma Rep* 2019; 19(2): 15.

Orgel, K., Smeekens, J.M., Ye, P., Fotsch, L., Guo, R., Miller, D.R., Pardo-Manuel de Villena, F., Burks, A.W., Ferris, M.T., **Kulis, M.D.** Genetic diversity between mouse strains allows identification of the CC027/GeniUnc strain as an orally reactive model of peanut allergy. *J Allergy Clin Immunol* 2019; 143(3): 1027-1037. **Featured in Editor's Choice Section**

Orgel, K., Burk, C., Smeekens, J., Suber, J., Hardy, L., Guo, R., Burks, A.W., **Kulis, M.** Blocking antibodies induced by peanut oral and sublingual immunotherapy suppress basophil activation and are associated with sustained unresponsiveness. *Clin Exp Allergy* 2019; 49(4): 461-470.

Kulis, M., Yue, X., Guo, R., Zhang, H., Orgel, K., Ye, P., Li, Q., Liu, Y., Kim, E., Burks, A.W., Vickery, B.P. High and low dose oral immunotherapy similarly suppress pro-allergic cytokines and basophil activation in young children. *Clin Exp Allergy* 2019; 49(2): 180-189.

Johnson-Weaver, B.T., Staats, H.F., Burks, A.W., **Kulis, M.** Adjuvanted immunotherapy approaches for peanut allergy. *Frontiers in Immunology* 2018; 9: 2156.

Kulis, M., Patil, S.U., Wambre, E., Vickery, B.P. Immune mechanisms of oral immunotherapy. *J Allergy Clin Immunol* 2018; 141(2): 491-498.

Bednar, K.J., Hardy, L., Smeekens, J., Raghuwanshi, D., Duan, S., **Kulis, M.**, Macauley, M. Antigenic liposomes for generation of disease-specific antibodies. *J Vis Exp (JoVE)* 2018; 140.

Orgel, K., **Kulis, M.** A mouse model of peanut allergy induced by sensitization through the gastrointestinal tract. *Methods Mol Biol* 2018; 1799: 39-47.

Smeekens, J.M., Bagley, K., **Kulis, M.** Tree nut allergies: Allergen homology, cross-reactivity, and implications for therapy. *Clin Exp Allergy* 2018; 48(7): 762-772.

Kiyotani, K., Mai, T.H., Yamaguchi, R., Yew, P.Y., **Kulis, M.**, Orgel, K., Imoto, S., Miyano, S., Burks, A.W., Nakamura, Y. Characterization of the B-cell receptor repertoires in peanut allergic subjects undergoing oral immunotherapy. *J Hum Genet* 2018; 63(2): 239-248.

Bednar, K.J., Shanina, E., Ballet, R., Connors, E.P., Duan, S., Juan, J., Arlian, B.M., **Kulis, M.**, Butcher, E.C., Fung-Leung, W.P., Rao, T.S., Paulson, J.C., Macauley, M.S. Human CD22 inhibits murine B cell receptor activation in a human CD22 transgenic mouse model. *J Immunol* 2017; 199(9): 3116-3128.

Johnson-Weaver, B.T., McRitchie S., Mercier, K.A., Pathmasiri, W., Sumner, S.J., Chan, C., Germolec, D., **Kulis, M.**, Burks, A.W., Staats, H.F. Effect of endotoxin and alum adjuvant vaccine on peanut allergy. *J Allergy Clin Immunol* 2018; 141(2): 791-794.

Felip, S., Block, D., Smith, B.R., King, E.M., Commins, S., **Kulis, M.**, Vickery, B.P., Chapman, M.D. Specific allergen profiles of peanut foods and of diagnostic or therapeutic allergenic products. *J Allergy Clin Immunol* 2018; 141(2): 626-631.

Berglund, J.P., Szczepanski, N., Penumarti, A., Beavers, A., Kesselring, J., Orgel, K., Burnett, B., Burks, A.W., **Kulis, M.** Preparation and analysis of peanut flour used in oral immunotherapy clinical trials. *J Allergy Clin Immunol Pract* 2017; 5(4): 1098-1104. Featured on the AAAAI's website under Latest Research

Orgel, K.A., Duan, S., Wright, B., Maleki, S., Vickery, B.P., Burks, A.W., Paulson, J.C., **Kulis, M.***, Macauley, M.S.* Exploiting CD22 on Ara h 2-specific B-cells to prevent allergy to the major peanut allergen Ara h 2. *J Allergy Clin Immunol* 2017; 139(1): 366-369 *Note: Co-Senior Authors

Vickery, B.P., Berglund, J.P., Burk, C., Fine, J.P., Kim, J.I., Keet, C.A., **Kulis, M.**, Orgel, K., Guo, R., Steele, P.H., Virkud, Y.V., Ye, P., Wood, R.A., Burks, A.W. Early oral immunotherapy in peanut-allergic preschool children is a safe and highly effective. *J Allergy Clin Immunol* 2017; 139(1): 173-181.

Ang, W.X., Church, A.M., **Kulis, M.**, Choi, H.W., Burks, A.W., Abraham, S.N. Mast cell desensitization inhibits calcium flux and aberrantly remodels actin. *J Clin Invest* 2016; 126(11): 4103-4118.

Burk, C.M., Dellon, E.S., Steele, P.H., Virkud, Y.V., **Kulis, M.**, Burks, A.W., Vickery, B.P. Eosinophilic esophagitis during peanut oral immunotherapy with omalizumab. *J Allergy Clin Immunol Pract* 2016; Epub ahead of print.

Wright, B.L., **Kulis, M.**, Guo, R., Orgel, K.A., Wolf, W.A., Burks, A.W., Vickery, B.P., Dellon, E.S. Food-specific IgG4 is associated with eosinophilic esophagitis. *J Allergy Clin Immunol* 2016; 138(4): 1190-1192.

Riascos, J.J., Weissinger, S.M., Weissinger, A.K., **Kulis, M.**, Burks, A.W., Pons, L. The seed biotinylated protein of soybean (*Glycine max*): A boiling-resistant new allergen (*Gly m 7*) with the capacity to induce IgE-mediated allergic responses. *J Agric Food Chem* 2016; 64(19): 3890-3900.

Commins, S.P., Kim, E.H., Orgel, K., **Kulis, M.** Peanut allergy: New developments and clinical implications. *Curr Allergy Asthma Rep* 2016; 16(5): 35

Wright, B.L.* **Kulis, M.***, Orgel, K.A., Burks, A.W., Dawson, P., Henning, A.K., Jones, S.M., Wood, R.A., Sicherer, S.H., Lindblad, R.W., Stablein, D., Leung, D.Y., Vickery, B.P., Sampson, H.A.; Consortium of Food Allergy Research. Component-resolved analysis of IgA, IgE, and IgG4 during egg OIT identifies markers associated with sustained unresponsiveness. *Allergy* 2016; 71(11): 1552-1560.

***Note: Co-First Authors**

Burk, C.M., **Kulis, M.**, Leung, N., Kim, E.H., Burks, A.W., Vickery, B.P. Utility of component analyses in subjects undergoing sublingual immunotherapy for peanut allergy. *Clin Exp Allergy* 2016; 46(2): 347-353. Featured in Editor's Choice Section

Kulis, M., Wright, B., Jones, S., Burks, A.W. Diagnosis, management, and investigational therapies for food allergies. *Gastroenterology* 2015; 148(6): 1132-1142.

Bird, J.A., Feldman, M., Arneson, A., Dougherty, I., Brown, L.S., Burk, C.M., **Kulis, M.**, Burks, A.W., Gill, M. Modified peanut oral immunotherapy protocol safely and effectively induces desensitization. *J Allergy Clin Immunol Pract* 2015; 3(3): 433-435.

Kulis, M., Burks, A.W. Effects of a pre-existing food allergy on the oral introduction of food proteins: Findings from a murine model. *Allergy* 2015; 70(1): 120-123.

Plundrich, N.J., **Kulis, M.**, White, B.L., Grace, M.H., Guo, R., Burks, A.W., Davis, J.P., Lila, M.A. Novel strategy to create hypoallergenic peanut protein-polyphenol edible matrices for oral immunotherapy. *J Agric Food Chem* 2014; 62(29): 7010-7021.

Kulis, M. Carrying peptides towards the ideal allergen-specific immunotherapy. *Clin Exp Allergy* 2014; 44(2): 157-159.

Vickery, B.P., Scurlock, A.M., **Kulis, M.**, Steele, P.H., Kamilaris, J., Berglund, J.P., Burk, C., Hiegel A., Carlisle, S., Christie, L., Perry, T.T., Pesek, R.D., Sheikh, S., Virkud, Y., Smith, P.B., Shamji, M.H., Durham, S.R., Jones, S.M., Burks, A.W. Sustained unresponsiveness to peanut in subjects who have completed peanut oral immunotherapy. *J Allergy Clin Immunol* 2014; 133(2): 468-475.

White, B.L., Shi, X., Burk, C.M., **Kulis, M.**, Burks, A.W., Sanders, T.H., Davis, J.P. Strategies to mitigate peanut allergy: Production, processing, utilization, and immunotherapy considerations. *Annu Rev Food Sci Technol* 2014; 5: 155-176.

Shi, X., Guo, R., White, B.L., Sanders, T.H., Davis, J.P., Burks, A.W., **Kulis, M.** Allergenic properties of enzymatically hydrolyzed peanut flour extracts. *Int Arch Allergy Immunol* 2013; 162(2): 123-130.

Chin, S.J., Vickery, B.P., **Kulis, M.**, Kim, E.H., Varshney, P., Steele, P., Kamilaris, J., Hiegel, A.M., Carlisle, S.K., Smith, P.B., Scurlock, A.M., Jones, S.M., Burks, A.W. Sublingual versus oral immunotherapy for peanut-allergic children: A retrospective comparison. *J Allergy Clin Immunol* 2013; 132(2): 476-478.

Kulis, M., Gorentla, B., Burks, A.W., Zhong, X.P. Type B CpG oligodeoxynucleotides induce Th1 responses to peanut antigens: modulation of sensitization and utility in a truncated immunotherapy regimen in mice. *Mol Nutr Food Res* 2013; 57(5): 906-915.

Vickery, B.P., Lin, J., **Kulis, M.**, Fu, Z., Steele, P.H., Jones, S.M., Scurlock, A.M., Gimenez, G., Bardina, L., Sampson, H.A., Burks, A.W. Peanut oral immunotherapy modifies IgE and IgG4 responses to major peanut allergens. *J Allergy Clin Immunol* 2013; 131(1): 128-134.

Kulis, M., Burks, A.W. Oral immunotherapy for food allergy: Clinical and preclinical studies. *Adv Drug Deliv Rev* 2013; 65(6): 774-781.

Bird, J.A., **Kulis, M.**, Burk, C.M., Vickery, B.P., Jones, S.M., Burks, A.W. Tree nut- and sesame-specific IgE do not decrease from baseline with peanut oral immunotherapy. Ann of Allergy, Asthma and Immunol 2012; 109(6): 470-471.

Kulis, M., MacQueen, I., Li, Y., Guo, R., Zhong, X.P., Burks, A.W. Pepsinized cashew proteins are hypoallergenic and immunogenic and provide effective immunotherapy in mice with cashew allergy. J Allergy Clin Immunol 2012; 130(3): 716-723. **Featured in Editor's Choice Section**

Thyagarajan, A., Jones, S.M., Calatroni, A., Pons, L., **Kulis, M.**, Woo, C.S., Kamalakannan, M., Vickery, B., Scurlock, A.M., Burks, A.W., Shreffler, W.G. Evidence of pathway-specific basophil anergy induced by peanut oral immunotherapy in peanut-allergic children. Clin Exp Allergy 2012; 42(8): 1197-1205.

Kulis, M., Chen, X., Lew, J., Wang, Q., Patel, O.P., Zhuang, Y., Murray, K.S., Duncan, M.W., Porterfield, H.S., Burks, A.W., Dreskin, S.C. The 2S albumin allergens of *Arachis hypogaea*, Ara h 2 and Ara h 6, are the major elicitors of anaphylaxis and can effectively desensitize peanut-allergic mice. Clin Exp Allergy 2012; 42(2): 326-36.

Kulis, M., Saba, K., Kim, E.H., Bird, J.A., Kamilaris, N., Vickery, B.P., Staats, H., Burks, A.W. Increased peanut-specific IgA levels in saliva correlate with food challenge outcomes after peanut sublingual immunotherapy. J Allergy Clin Immunol 2012; 129(4): 1159-62.

Varshney, P., Jones, S.M., Scurlock, A.M., Perry, T.T., Kemper, A., Steele, P., Hiegel, A., Kamilaris, J., Carlisle, S., Yue, X., **Kulis, M.**, Pons, L., Vickery, B., Burks, A.W. A randomized controlled study of peanut oral immunotherapy: clinical desensitization and modulation of the allergic response. J Allergy Clin Immunol 2011; 127(3): 654-60.

Li, Y., **Kulis, M.**, Pons, L., Zhong, X.P., Burks, A.W. Peanut allergen Ara h 2-specific T cells are activated via Ras-Erk MAP kinase pathway signaling and identified by CD154 expression. Food and Agricultural Immunol 2011. Available online May 18, 2011.

Kulis, M., Wan, C.K., Gorentla, B.K., Burks, A.W., Zhong, X.P. Diacylglycerol kinase zeta deficiency in a non-CD4(+) T-cell compartment leads to increased peanut hypersensitivity. J Allergy Clin Immunol 2011; 128(1): 212-4.

Kim, E.H., Bird, J.A., **Kulis, M.**, Laubach, S., Pons, L., Shreffler, W., Steele, P., Kamilaris, J., Vickery, B., Burks, A.W. Sublingual immunotherapy for peanut allergy: clinical and immunologic evidence of desensitization. J Allergy Clin Immunol 2011; 127(3): 654-60.

Kulis, M., Vickery, B.P., Burks, A.W. Pioneering immunotherapy for food allergy: clinical outcomes and modulation of the immune response. Immunol Res 2011; 49(1-3): 216-26.

Kulis, M., Li, Y., Lane, H., Pons, L., Burks, W. Single-tree nut immunotherapy attenuates allergic reactions in mice with hypersensitivity to multiple tree nuts. J Allergy Clin Immunol 2011; 127(1): 81-88.

Vickery, B.P., Pons, L., **Kulis, M.**, Steele, P., Jones, S.M., Burks, A.W. Individualized IgE-based dosing of egg oral immunotherapy and the development of tolerance. Ann Allergy Asthma Immunol 2010; 105(6): 444-50.

Sun, B., **Kulis, M.D.**, Young, S.P., Hobeika, A.C., Li, S., Bird, A., Zhang, H., Li, Y., Clay, T.M., Burks, W., Kishnani, P.S., Koeberl, D.D. Immunomodulatory gene therapy prevents antibody formation and lethal hypersensitivity reactions in murine Pompe disease. Mol Ther 2009; 18(2): 353-60.

Jones, S., Pons, L., Roberts, J., Scurlock, A., Perry, T., **Kulis, M.**, Shreffler, W., Steele, P., Henry, K., Adair, M., Francis, J., Durham, S., Vickery, B., Zhong, X., Burks, A.W. Clinical efficacy and immune regulation with peanut oral immunotherapy. J Allergy Clin Immunol 2009; 124(2): 292-300.e97.

Kulis, M., Pons, L., Burks, A.W. In vivo and T-cell cross-reactivity between walnut, cashew, and peanut. Int Arch of Allergy Immunol 2009; 148:109-117.

Burks, W., **Kulis, M.**, Pons, L. Food allergies and hypersensitivity: a review of pharmacotherapy and therapeutic strategies. Expert Opin Pharmacother 2008; 9(7):1145-52.

Kulis, M., Shuker, S.B. Expression, purification, and refolding of mouse islet neogenesis associated protein-related protein for NMR studies. Protein Expr Purif 2006; 48(2): 224-231.

Kulis, M., Shuker, S.B. Beta-cell regeneration: A potential cure for Type 1 Diabetes. Expert Opin Therap Patents 2004; 14: 599-605.