

2024 Fisher Lecture “Embracing the Complexities of Dermatitis” References

Slide number	Reference
4	https://plexusinstitute.org/2023/07/07/dive-into-plexus-complexity-thinking/
5	Forsbeck M, Hovmark A, Skog E. Patch testing, tuberculin testing and sensitization with dinitrochlorobenzene and nitrosodimethylanilini of patients with atopic dermatitis. <i>Acta Derm Venereol.</i> 1976;56(2):135-8.
	Ullrich SE, Kripke ML, Ananthaswamy HN. Mechanisms underlying UV-induced immune suppression: implications for sunscreen design. <i>Exp Dermatol.</i> 2002;11 Suppl 1:13-6
6	Ma B, Anandasabapathy N. Immune Checkpoint Blockade and Skin Toxicity Pathogenesis. <i>J Invest Dermatol.</i> 2022 Mar;142(3 Pt B):951-959. doi: 10.1016/j.jid.2021.06.040.
7	Lloyd CM, Snelgrove RJ. Type 2 immunity: Expanding our view. <i>Sci Immunol.</i> 2018 Jul 6;3(25):eaat1604. doi: 10.1126/sciimmunol.aat1604.
	C. J. Oliphant, Y. Y. Hwang, J. A. Walker, M. Salimi, S. H. Wong, J. M. Brewer, A. Englezakis, J. L. Barlow, E. Hams, S. T. Scanlon, G. S. Ogg, P. G. Fallon, A. N. J. McKenzie, MHCII-mediated dialog between group 2 innate lymphoid cells and CD4 ⁺ T cells potentiates type 2 immunity and promotes parasitic helminth expulsion. <i>Immunity</i> 41, 283–295 (2014).
	Sans-De San Nicolàs L, Figueras-Nart I, Bonfill-Ortí M, De Jesús-Gil C, García-Jiménez I, Guilabert A, Curto-Barredo L, Bertolín-Colilla M, Ferran M, Serra-Baldrich E, Zalewska-Janowska A, Wang YH, Howell MD, Pujol RM, Santamaria-Babí LF. SEB-induced IL-13 production in CLA ⁺ memory T cells defines Th2 high and Th2 low responders in atopic dermatitis. <i>Allergy.</i> 2022 Nov;77(11):3448-3451. doi: 10.1111/all.15424. Epub 2022 Jul 12. PMID: 35773619.
	Abernathy-Carver KJ, Sampson HA, Picker LJ, Leung DY. Milk-induced eczema is associated with the expansion of T cells expressing cutaneous lymphocyte antigen. <i>J Clin Invest.</i> 1995 Feb;95(2):913-8. doi: 10.1172/JCI117743. PMID: 7532192; PMCID: PMC295586.
	Nicolàs LSS, Czarnowicki T, Akdis M, Pujol RM, Lozano-Ojalvo D, Leung DYM, Guttman-Yassky E, Santamaria-Babí LF. CLA+ memory T cells in atopic dermatitis: CLA+ T cells and atopic dermatitis. <i>Allergy.</i> 2024 Jan;79(1):15-25. doi: 10.1111/all.15816.
	Cha J, Kim TG, Bhae E, Gwak HJ, Ju Y, Choe YH, Jang IH, Jung Y, Moon S, Kim T, Lee W, Park JS, Chung YW, Yang S, Kang YK, Hyun YM, Hwang GS, Lee WJ, Rho M, Ryu JH. Skin microbe-dependent TSLP-ILC2 priming axis in early life is co-opted in allergic inflammation. <i>Cell Host Microbe.</i> 2024 Jan 3:S1931-3128(23)00501-2. doi: 10.1016/j.chom.2023.12.006.
	Alkon N, Bauer WM, Krausgruber T, Goh I, Griss J, Nguyen V, Reininger B, Bangert C, Staud C, Brunner PM, Bock C, Haniffa M, Stingl G. Single-

	cell analysis reveals innate lymphoid cell lineage infidelity in atopic dermatitis. <i>J Allergy Clin Immunol.</i> 2022 Feb;149(2):624-639.
	Guttman-Yassky E, Diaz A, Pavel AB, Fernandes M, Lefferdink R, Erickson T, Canter T, Rangel S, Peng X, Li R, Estrada Y, Xu H, Krueger JG, Paller AS. Use of Tape Strips to Detect Immune and Barrier Abnormalities in the Skin of Children With Early-Onset Atopic Dermatitis. <i>JAMA Dermatol.</i> 2019 Dec 1;155(12):1358-1370. doi: 10.1001/jamadermatol.2019.2983
8	Kaplan DH, Igyártó BZ, Gaspari AA. Early immune events in the induction of allergic contact dermatitis. <i>Nat Rev Immunol.</i> 2012 Jan 13;12(2):114-24. doi: 10.1038/nri3150.
	Brys AK, Rodriguez-Homs LG, Suwanpradid J, Atwater AR, MacLeod AS. Shifting Paradigms in Allergic Contact Dermatitis: The Role of Innate Immunity. <i>J Invest Dermatol.</i> 2020 Jan;140(1):21-28. doi: 10.1016/j.jid.2019.03.1133.
	Yamaguchi HL, Yamaguchi Y, Peeva E. Role of Innate Immunity in Allergic Contact Dermatitis: An Update. <i>Int J Mol Sci.</i> 2023 Aug 19;24(16):12975. doi: 10.3390/ijms241612975.
	Oyoshi MK, Larson RP, Ziegler SF, Geha RS. Mechanical injury polarizes skin dendritic cells to elicit a T(H)2 response by inducing cutaneous thymic stromal lymphopoietin expression. <i>J Allergy Clin Immunol.</i> 2010 Nov;126(5):976-84, 984.e1-5. doi: 10.1016/j.jaci.2010.08.041.
	Newell L, Polak ME, Perera J, Owen C, Boyd P, Pickard C, Howarth PH, Healy E, Holloway JW, Friedmann PS, Ardern-Jones MR. Sensitization via healthy skin programs Th2 responses in individuals with atopic dermatitis. <i>J Invest Dermatol.</i> 2013 Oct;133(10):2372-2380. doi: 10.1038/jid.2013.148.
9	Furue M. Regulation of Skin Barrier Function via Competition between AHR Axis versus IL-13/IL-4-JAK-STAT6/STAT3 Axis: Pathogenic and Therapeutic Implications in Atopic Dermatitis. <i>J Clin Med.</i> 2020 Nov 20;9(11):3741.
	Bieber, T. Interleukin-13: targeting an underestimated cytokine in atopic dermatitis. <i>Allergy</i> 2020 75, 54–62
	Kobayashi T, Voisin B, Kim DY, Kennedy EA, Jo JH, Shih HY, Truong A, Doebl T, Sakamoto K, Cui CY, Schlessinger D, Moro K, Nakae S, Horiuchi K, Zhu J, Leonard WJ, Kong HH, Nagao K. Homeostatic Control of Sebaceous Glands by Innate Lymphoid Cells Regulates Commensal Bacteria Equilibrium. <i>Cell.</i> 2019 Feb 21;176(5):982-997.e16. doi: 10.1016/j.cell.2018.12.031.
	Suárez-Fariñas M, Dhingra N, Gittler J, Shemer A, Cardinale I, de Guzman Strong C, Krueger JG, Guttman-Yassky E. Intrinsic atopic dermatitis shows similar TH2 and higher TH17 immune activation

	compared with extrinsic atopic dermatitis. <i>J Allergy Clin Immunol.</i> 2013 Aug;132(2):361-70. doi: 10.1016/j.jaci.2013.04.046.
11	O'Leary JG, Goodarzi M, Drayton DL, von Andrian UH. T cell- and B cell-independent adaptive immunity mediated by natural killer cells. <i>Nat Immunol.</i> 2006 May;7(5):507-16. doi: 10.1038/ni1332.
	Sun Z, Kim JH, Kim SH, Kim HR, Zhang K, Pan Y, Ko MK, Kim BM, Chu H, Lee HR, Kim HL, Kim JH, Fu X, Hyun YM, Yun KN, Kim JY, Lee DW, Song SY, Lin CP, Clark RA, Lee KH, Kupper TS, Park CO. Skin-resident natural killer T cells participate in cutaneous allergic inflammation in atopic dermatitis. <i>J Allergy Clin Immunol.</i> 2021 May;147(5):1764-1777. doi: 10.1016/j.jaci.2020.11.049.
12	Kohli N, Nedorost S. Inflamed skin predisposes to sensitization to less potent allergens. <i>J Am Acad Dermatol.</i> 2016 Aug;75(2):312-317.e1. doi: 10.1016/j.jaad.2016.03.010.
	Krutz NL, Kimberl, Maurer-Stroh S, Gerberick GF. Determination of the relative allergenic potency of proteins: hurdles and opportunities, <i>Critical Reviews in Toxicology</i> , 2020 50:6, 521-530,
	Beck LA, Cork MJ, Amagai M, De Benedetto A, Kabashima K, Hamilton JD, Rossi AB. Type 2 Inflammation Contributes to Skin Barrier Dysfunction in Atopic Dermatitis. <i>JID Innov.</i> 2022 Apr 26;2(5):100131.
13	Yucesoy B, Talzhanov Y, Barmada MM, Johnson VJ, Kashon ML, Baron E, Wilson NW, Frye B, Wang W, Fluharty K, Gharib R, Meade J, Germolec D, Luster MI, Nedorost S. Genetic Basis of Irritant Susceptibility in Health Care Workers. <i>J Occup Environ Med.</i> 2016 Aug;58(8):753-9. doi: 10.1097/JOM.0000000000000784
	Nedorost S. European Society for Contact Dermatitis, Amersdam, the Netherlands June 2022 "Genetic Predisposition to Irritant Contact Dermatitis" (virtual presentation)
14	Lowther A, McCormick T, Nedorost S. Systemic contact dermatitis from propylene glycol. <i>Dermatitis.</i> 2008 Mar-Apr;19(2):105-8.
15	Scott JF, Conic RRZ, Kim I, Rowland DY, Nedorost ST. Atopy and Sensitization to Allergens Known to Cause Systemic Contact Dermatitis. <i>Dermatitis.</i> 2019 Jan/Feb;30(1):62-66.
	Ahuja K, Issa CJ, Nedorost ST, Lio PA. Is Food-Triggered Atopic Dermatitis a Form of Systemic Contact Dermatitis? <i>Clin Rev Allergy Immunol.</i> 2024 Jan 29. doi: 10.1007/s12016-023-08977-x. Epub ahead of print. PMID: 38285165.
16	Hammond M, Gamal A, Mukherjee PK, Damiani G, McCormick TS, Ghannoum MA, Nedorost S. Cutaneous dysbiosis may amplify barrier dysfunction in patients with atopic dermatitis. <i>Front Microbiol.</i> 2022 Nov 14;13:944365. doi: 10.3389/fmicb.2022.944365.
	Gimenez-Rivera VA, Patel H, Dupuy FP, Allakhverdi Z, Bouchard C, Madrenas J, Bissonnette R, Piccirillo CA, Jack C. NOD2 Agonism Counter-Regulates Human Type 2 T Cell Functions in Peripheral Blood

	Mononuclear Cell Cultures: Implications for Atopic Dermatitis. <i>Biomolecules</i> . 2023 Feb 15;13(2):369. doi: 10.3390/biom13020369.
	Hernandez-Ramirez G, Barber D, Tome-Amat J, Garrido-Arandia M, Diaz-Perales A. <i>Alternaria</i> as an Inducer of Allergic Sensitization. <i>J Fungi (Basel)</i> . 2021 Oct 7;7(10):838.
18	Nørreslet LB, Edslev SM, Flachs EM, Ebbehøj NE, Andersen PS, Agner T. Wearing Occlusive Gloves Increases the Density of <i>Staphylococcus aureus</i> in Patients with Hand Eczema. <i>Acta Derm Venereol</i> . 2021;101(8):adv00515. Published 2021 Aug 16.
19	Kelly KA, Cook MK, Singh R, Perche PO, Balogh EA, Richardson IM, Feldman SR. Topical Moisturizer Meaningfully Reduces Disease Severity in Atopic Patients With Xerosis. <i>J Drugs Dermatol</i> . 2023 Dec 1;22(12)
	Tiplica GS, Boralevi F, Konno P, Malinauskienė L, Kaszuba A, Laurens C, Saint-Aroman M, Delarue A. The regular use of an emollient improves symptoms of atopic dermatitis in children: a randomized controlled study. <i>J Eur Acad Dermatol Venereol</i> . 2018 Jul;32(7):1180-1187.
	Boralevi F, Saint Aroman M, Delarue A, Raudsepp H, Kaszuba A, Bylaite M, Tiplica GS. Long-term emollient therapy improves xerosis in children with atopic dermatitis. <i>J Eur Acad Dermatol Venereol</i> . 2014 Nov;28(11):1456-62.
	Emmett ER, Allen M, Crownshaw S, Ridd MJ. How and what adverse events are reported and captured in randomized control trials of emollients in the treatment of eczema? <i>Clin Exp Dermatol</i> . 2023 Jul 21;48(8):889-894.
	van Zuuren EJ, Fedorowicz Z, Christensen R, Lavrijsen A, Arents BWM. Emollients and moisturisers for eczema. <i>Cochrane Database Syst Rev</i> . 2017 Feb 6;2(2):CD012119.
	Chandra J, Retuerto M, Seit�� S, Martin R, Kus M, Ghannoum MA, Baron E, Mukherjee PK. Effect of an Emollient on the Mycobiome of Atopic Dermatitis Patients. <i>J Drugs Dermatol</i> . 2018 Oct 1;17(10):1039-1048.
	Mailhol C, Lauwers-Cances V, Ranc�� F, Paul C, Giordano-Labadie F. Prevalence and risk factors for allergic contact dermatitis to topical treatment in atopic dermatitis: a study in 641 children. <i>Allergy</i> . 2009 May;64(5):801-6. doi: 10.1111/j.1398-9995.2008.01890.x. PMID: 19183418.
20	Yadav M, Chaudhary PP, D'Souza BN, Ratley G, Spathies J, Ganesan S, Zeldin J, Myles IA. Diisocyanates influence models of atopic dermatitis through direct activation of TRPA1. <i>PLoS One</i> . 2023 Mar 6;18(3):e0282569. doi: 10.1371/journal.pone.0282569.
	Kagen MH, Wolf J, Scheman A, Nedorost S. Potassium peroxyomonosulfate-induced contact dermatitis. <i>Contact Dermatitis</i> . 2004 Aug;51(2):89-90. doi: 10.1111/j.0105-1873.2004.0396b.x.

21	Ramirez de Knott HM, McCormick TS, Kalka K, Skandalis G, Ghannoum MA, Schluchter M, Cooper KD, Nedorost ST. Cutaneous hypersensitivity to Malassezia sympodialis and dust mite in adult atopic dermatitis with a textile pattern. <i>Contact Dermatitis.</i> 2006 Feb;54(2):92-9. doi: 10.1111/j.0105-1873.2006.00774.x.
	Sparber F, De Gregorio C, Steckholzer S, Ferreira FM, Dolowschiak T, Ruchti F, Kirchner FR, Mertens S, Prinz I, Joller N, Buch T, Glatz M, Sallusto F, LeibundGut-Landmann S. The Skin Commensal Yeast Malassezia Triggers a Type 17 Response that Coordinates Anti-fungal Immunity and Exacerbates Skin Inflammation. <i>Cell Host Microbe.</i> 2019 Mar 13;25(3):389-403.e6. doi: 10.1016/j.chom.2019.02.002.
22	Nedorost S. A diagnostic checklist for generalized dermatitis. <i>Clin Cosmet Investig Dermatol.</i> 2018 Oct 31;11:545-549. doi: 10.2147/CCID.S185357.
23	Bocquel S, Soria A, Raison-Peyron N, Badaoui A, Marcant P, Bara C, Giordano-Labadie F, Amsler E, Milpied B, Delaunay J, Darrigade AS, Pralong P, Boulard C, Ferrier Le Bouedec MC, Tauber M, Pasteur J, Valois A, Le Thuaut A, Crépy MN, Bernier C. Impact of dupilumab on patch test results and allergic contact dermatitis: A prospective multicenter study. <i>J Am Acad Dermatol.</i> 2023 Oct 21:S0190-9622(23)03032-3. doi: 10.1016/j.jaad.2023.10.029.
	Ramirez De Knott HM, McCormick TS, Do SO, Goodman W, Ghannoum MA, Cooper KD, Nedorost ST. Cutaneous hypersensitivity to Candida albicans in idiopathic vulvodynia. <i>Contact Dermatitis.</i> 2005 Oct;53(4):214-8. doi: 10.1111/j.0105-1873.2005.00685.x.
	Pootongkam S, Havele SA, Orillaza H, Silver E, Rowland DY, Nedorost ST. Atopy patch tests may identify patients at risk for systemic contact dermatitis. <i>Immun Inflamm Dis.</i> 2020 Mar;8(1):24-29. doi: 10.1002/iid3.280.
	Nedorost ST. Translating Allergic Contact Dermatitis Data to the Patients and Populations We Serve. <i>JAMA Dermatol.</i> 2020 Jan 1;156(1):25-26. doi: 10.1001/jamadermatol.2019.3464.
24	Institute of Medicine (IOM). Crossing the Quality Chasm: A New Health System for the 21st Century. Washington, D.C: National Academy Press; 2001.
	Nedorost S, White S, Rowland DY, Bednarchik B, Flocke S, Carman TL, Karpinski L, Shi Y. Development and implementation of an order set to improve value of care for patients with severe stasis dermatitis. <i>J Am Acad Dermatol.</i> 2019 Mar;80(3):815-817. doi: 10.1016/j.jaad.2018.10.034.