

## CURRICULUM VITAE

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### BIBLIOGRAPHY

**Refereed Journal Publications/Original Papers**

1. Akinshemoyin Vaughn OL, Siegel DH, Chiu YE, DeBord LC, Hogeling M, Hunt RD, Nguyen C, Sokumbi O, Verbsky JW, Arkin LM. Clinical and histologic presentation of pediatric reactive granulomatous dermatitis. *Pediatr Dermatol.* 2020 May;37(3):498-503.
2. Tuovinen EA, Grönholm J, Öhman T, Pöysti S, Toivonen R, Kreutzman A, Heiskanen K, Trotta L, Toiviainen-Salo S, Routes JM, Verbsky J, Mustjoki S, Saarela J, Kere J, Varjosalo M, Hänninen A, Seppänen MRJ. Novel Hemizygous IL2RG p.(Pro58Ser) Mutation Impairs IL-2 Receptor Complex Expression on Lymphocytes Causing X-Linked Combined Immunodeficiency. *J Clin Immunol.* 2020 Apr;40(3):503-514. PMID: PMC7142052
3. Stolberg NG, Verbsky JW. Autoinflammatory Disorders with Perinatal Onset. *Clin Perinatol.* 2020 Mar;47(1):41-52.
4. Yang C, Siebert JR, Burns R, Gerbec ZJ, Bonacci B, Rymaszewski A, Rau M, Riese MJ, Rao S, Carlson KS, Routes JM, Verbsky JW, Thakar MS, Malarkannan S. Heterogeneity of human bone marrow and blood natural killer cells defined by single-cell transcriptome. *Nat Commun.* 2019 Sep 02;10(1):3931. PMID: PMC6718415
5. Verbsky JW, Hintermeyer MK, Simpson PM, Feng M, Barbeau J, Rao N, Cool CD, Sosa-Lozano LA, Baruah D, Hammelev E, Busalacchi A, Rymaszewski A, Woodliff J, Chen S, Bausch-Jurken M, Routes JM. Rituximab and antimetabolite treatment of granulomatous and lymphocytic interstitial lung disease in common variable immunodeficiency. *J Allergy Clin Immunol.* 2021 Feb;147(2):704-712.e17.
6. Kuehn HS, Niemela JE, Stoddard J, Mannurita SC, Shahin T, Goel S, Hintermeyer M, Heredia RJ, Garofalo M, Lucas L, Singh S, Tondo A, Jacobs Z, Gahl WA, Latour S, Verbsky J, Routes J, Cunningham-Rundles C, Boztug K, Gambineri E, Fleisher TA, Chandrakasan S, Rosenzweig SD. Germline IKAROS dimerization haploinsufficiency causes hematologic cytopenias and malignancies. *Blood.* 2021 Jan 21;137(3):349-363. PMID: PMC7819759
7. Le Coz C, Nguyen DN, Su C, Nolan BE, Albrecht AV, Khani S, Sun D, Demaree B, Pillarisetti P, Khanna C, Wright F, Chen PA, Yoon S, Stiegler AL, Maurer K, Garifallou JP, Rymaszewski A, Kroft SH, Olson TS, Seif AE, Wertheim G, Grant SFA, Vo LT, Puck JM, Sullivan KE, Routes JM, Zakharova V, Shcherbina A, Mukhina A, Rudy NL, Hurst ACE, Atkinson TP, Boggon TJ, Hakonarson H, Abate AR, Hajjar J, Nicholas SK, Lupski JR, Verbsky J, Chinn IK, Gonzalez MV, Wells AD, Marson A, Poon GMK, Romberg N. Constrained chromatin accessibility in PU.1-mutated agammaglobulinemia patients. *J Exp Med.* 2021 Jul 05;218(7). PMID: PMC8105723
8. Balmuri N, Soulsby WD, Cooley V, Gerber L, Lawson E, Goodman S, Onel K, Mehta B, Abel N, Abulaban K, Adams A, Adams M, Agbayani R, Aiello J, Akoghlanian S, Alejandro C, Allenspach E, Alperin R, Alpizar M, Amarilyo G, Ambler W, Anderson E, Ardoin S, Armendariz S, Baker E, Balboni I, Balevic S, Ballenger L, Ballinger S, Balmuri N, Barbar-Smilely F, Barillas-Arias L, Basiaga M, Baszis K, Becker M, Bell-Brunson H, Beltz E, Benham H, Benseler S, Bernal W, Beukelman T, Bigley T, Binstadt B, Black C, Blakley M, Bohnsack J, Boland J, Boneparth A, Bowman S, Bracaglia C, Brooks

- E, Brothers M, Brown A, Brunner H, Buckley M, Buckley M, Bukulmez H, Bullock D, Cameron B, Canna S, Cannon L, Carper P, Cartwright V, Cassidy E, Cerracchio L, Chalom E, Chang J, Chang-Hoftman A, Chauhan V, Chira P, Chinn T, Chundru K, Clairman H, Co D, Confair A, Conlon H, Connor R, Cooper A, Cooper J, Cooper S, Correll C, Corvalan R, Costanzo D, Cron R, Curiel-Duran L, Curington T, Curry M, Dalrymple A, Davis A, Davis C, Davis C, Davis T, De Benedetti F, De Ranieri D, Dean J, Dedeoglu F, DeGuzman M, Delnay N, Dempsey V, DeSantis E. Community poverty level influences time to first pediatric rheumatology appointment in Polyarticular Juvenile Idiopathic Arthritis Pediatric Rheumatology. December 2021;19(1).
9. Beukelman T, Lougee A, Matsouaka RA, Collier D, Rumsey DG, Schenfeld J, Stryker S, Twilt M, Kimura Y, Abel N, Abulaban K, Adams A, Adams M, Agbayani R, Aiello J, Akoghlanian S, Alejandro C, Allenspach E, Alperin R, Alpizar M, Amarilyo G, Ambler W, Anderson E, Ardoin S, Armendariz S, Baker E, Balboni I, Balevic S, Ballenger L, Ballinger S, Balmuri N, Barbar-Smiley F, Barillas-Arias L, Basiaga M, Baszis K, Becker M, Bell-Brunson H, Beltz E, Benham H, Benseler S, Bernal W, Bigley T, Binstadt B, Black C, Blakley M, Bohnsack J, Boland J, Boneparth A, Bowman S, Bracaglia C, Brooks E, Brothers M, Brown A, Brunner H, Buckley M, Buckley M, Bukulmez H, Bullock D, Cameron B, Canna S, Cannon L, Carper P, Cartwright V, Cassidy E, Cerracchio L, Chalom E, Chang J, Chang-Hoftman A, Chauhan V, Chira P, Chinn T, Chundru K, Clairman H, Co D, Confair A, Conlon H, Connor R, Cooper A, Cooper J, Cooper S, Correll C, Corvalan R, Costanzo D, Cron R, Curiel-Duran L, Curington T, Curry M, Dalrymple A, Davis A, Davis C, Davis C, Davis T, De Benedetti F, De Ranieri D, Dean J, Dedeoglu F, DeGuzman M, Delnay N, Dempsey V, DeSantis E. Patterns of etanercept use in juvenile idiopathic arthritis in the Childhood Arthritis and Rheumatology Research Alliance Registry Pediatric Rheumatology. December 2021;19(1).
  10. Mandviwala MM, Verbsky JW, Khammar AJ, Walsh RD. Internuclear Ophthalmoplegia in a Child With Deficiency of Adenosine Deaminase 2. *J Neuroophthalmol.* 2023 Mar 01;43(1):e12-e13.
  11. Wang D, Uyemura B, Hashemi E, Bjorgaard S, Riese M, Verbsky J, Thakar MS, Malarkannan S. Role of GATA2 in Human NK Cell Development. *Crit Rev Immunol.* 2021;41(2):21-33. PMID: PMC11536496
  12. Ong MS, Ringold S, Kimura Y, Schanberg LE, Tomlinson GA, Natter MD, CARRA Registry Investigators. Improved Disease Course Associated With Early Initiation of Biologics in Polyarticular Juvenile Idiopathic Arthritis: Trajectory Analysis of a Childhood Arthritis and Rheumatology Research Alliance Consensus Treatment Plans Study. *Arthritis Rheumatol.* 2021 Oct;73(10):1910-1920.
  13. Rumsey DG, Lougee A, Matsouaka R, Collier DH, Schanberg LE, Schenfeld J, Shiff NJ, Stoll ML, Stryker S, Weiss PF, Beukelman T, Childhood Arthritis and Rheumatology Research Alliance Registry Investigators. Juvenile Spondyloarthritis in the Childhood Arthritis and Rheumatology Research Alliance Registry: High Biologic Use, Low Prevalence of HLA-B27, and Equal Sex Representation in Sacroiliitis. *Arthritis Care Res (Hoboken).* 2021 Jul;73(7):940-946.
  14. Mannion ML, Xie F, Horton DB, Ringold S, Correll CK, Denno A, Beukelman T, CARRA Registry Investigators. Biologic Switching Among Nonsystemic Juvenile Idiopathic Arthritis Patients: A Cohort Study in the Childhood Arthritis and Rheumatology Research Alliance Registry. *J Rheumatol.* 2021 Aug;48(8):1322-1329.
  15. Dave I, Estroff B, Gergely T, Rostad CA, Ponder LA, McCracken C, Prahalad S, CARRA Registry Investigators. Impact of the Season of Birth on the Development of Juvenile Idiopathic Arthritis in the United States: A Nationwide Registry-based Study. *J Rheumatol.* 2021 Dec;48(12):1856-1862.
  16. Jones JT, Smith C, Becker ML, Lovell D, CARRA Registry Investigators. Down Syndrome-Associated Arthritis Cohort in the New Childhood Arthritis and Rheumatology Research Alliance Registry: Clinical Characteristics, Treatment, and Outcomes. *Arthritis Care Res (Hoboken).* 2021 Dec;73(12):1739-1745.
  17. Soulsby WD, Balmuri N, Cooley V, Gerber LM, Lawson E, Goodman S, Onel K, Mehta B, CARRA Registry Investigators. Social determinants of health influence disease activity and functional disability in Polyarticular Juvenile Idiopathic Arthritis. *Pediatr Rheumatol Online J.* 2022 Mar 07;20(1):18. PMID: PMC8903717
  18. Verbsky J. Genetic Defects that Predispose to Serious Viral Infections. *Crit Care Clin.* 2022 Apr;38(2):443-453.
  19. Neely J, Ardalan K, Huber A, Kim S, Abel N, Abulaban K, Adams A, Adams M, Agbayani R, Aiello J, Akoghlanian S, Alejandro C, Allenspach E, Alperin R, Alpizar M, Amarilyo G, Ambler W, Anderson E, Ardoin S, Armendariz S, Baker E, Balboni I, Balevic S, Ballenger L, Ballinger S, Balmuri N, Barbar-Smiley F, Barillas-Arias L, Basiaga M, Baszis K, Becker M, Bell-Brunson H, Beltz E, Benham

- H, Benseler S, Bernal W, Beukelman T, Bigley T, Binstadt B, Black C, Blakley M, Bohnsack J, Boland J, Boneparth A, Bowman S, Bracaglia C, Brooks E, Brothers M, Brown A, Brunner H, Buckley M, Buckley M, Bukulmez H, Bullock D, Cameron B, Canna S, Cannon L, Carper P, Cartwright V, Cassidy E, Cerracchio L, Chalom E, Chang J, Chang-Hoftman A, Chauhan V, Chira P, Chinn T, Chundru K, Clairman H, Co D, Confair A, Conlon H, Connor R, Cooper A, Cooper J, Cooper S, Correll C, Corvalan R, Costanzo D, Cron R, Curiel-Duran L, Curington T, Curry M, Dalrymple A, Davis A, Davis C, Davis C, Davis T, De Benedetti F, De Ranieri D, Dean J, Dedeoglu F, DeGuzman M, Delnay N, Dempsey V, DeSantis E, Dickson T, Dingle J, Donaldson B, Dorsey E. Baseline characteristics of children with juvenile dermatomyositis enrolled in the first year of the new Childhood Arthritis and Rheumatology Research Alliance registry *Pediatric Rheumatology*. December 2022;20(1).
20. Smitherman EA, Chahine RA, Beukelman T, Lewandowski LB, Rahman AF, Wenderfer SE, Curtis JR, Hersh AO, Abel N, Abulaban K, Adams A, Adams M, Agbayani R, Aiello J, Akoghlanian S, Alejandro C, Allenspach E, Alperin R, Alpizar M, Amarilyo G, Ambler W, Anderson E, Ardoin S, Armendariz S, Baker E, Balboni I, Balevic S, Ballenger L, Ballinger S, Balmuri N, Barbar-Smiley F, Barillas-Arias L, Basiaga M, Baszis K, Becker M, Bell-Brunson H, Beltz E, Benham H, Benseler S, Bernal W, Beukelman T, Bigley T, Binstadt B, Black C, Blakley M, Bohnsack J, Boland J, Boneparth A, Bowman S, Bracaglia C, Brooks E, Brothers M, Brown A, Brunner H, Buckley M, Buckley M, Bukulmez H, Bullock D, Cameron B, Canna S, Cannon L, Carper P, Cartwright V, Cassidy E, Cerracchio L, Chalom E, Chang J, Chang-Hoftman A, Chauhan V, Chira P, Chinn T, Chundru K, Clairman H, Co D, Confair A, Conlon H, Connor R, Cooper A, Cooper J, Cooper S, Correll C, Corvalan R, Costanzo D, Cron R, Curiel-Duran L, Curington T, Curry M, Dalrymple A, Davis A, Davis C, Davis C, Davis T, De Benedetti F, De Ranieri D, Dean J, Dedeoglu F, DeGuzman M, Delnay N, Dempsey V, DeSantis E. Childhood-onset lupus nephritis in the Childhood Arthritis and Rheumatology Research Alliance Registry: Short-term kidney status and variation in care *Arthritis Care and Research*. 2022.
21. Ringold S, Dennos AC, Kimura Y, Beukelman T, Shrader P, Phillips TA, Kohlheim M, Schanberg LE, Yeung RSM, Horton DB, Childhood Arthritis and Rheumatology Research Alliance Registry Investigators. Disease Recapture Rates After Medication Discontinuation and Flare in Juvenile Idiopathic Arthritis: An Observational Study Within the Childhood Arthritis and Rheumatology Research Alliance Registry. *Arthritis Care Res (Hoboken)*. 2023 Apr;75(4):715-723.
22. Hahn T, Daymont C, Beukelman T, Groh B, Hays K, Bingham CA, Scalzi L, CARRA Registry investigators. Intraarticular steroids as DMARD-sparing agents for juvenile idiopathic arthritis flares: Analysis of the Childhood Arthritis and Rheumatology Research Alliance Registry. *Pediatr Rheumatol Online J*. 2022 Nov 25;20(1):107. PMID: PMC9701017
23. Chu Y, Talano JA, Baxter-Lowe LA, Verbsky JW, Morris E, Mahanti H, Ayello J, Keever-Taylor C, Johnson B, Weinberg RS, Shi Q, Moore TB, Fabricatore S, Grossman B, van de Ven C, Shenoy S, Cairo MS. Donor chimerism and immune reconstitution following haploidentical transplantation in sickle cell disease. *Front Immunol*. 2022;13:1055497. PMID: PMC9780682
24. Escobar Vasco A, Broglie L, Talano JA, Routes J, Verbsky J, Remiker A. GATA2 deficiency detected by newborn screening for SCID: A case report. *Front Pediatr*. 2022;10:1031106. PMID: PMC9886089
25. Smitherman EA, Chahine RA, Bitencourt N, Rahman AKMF, Lawson EF, Chang JC, CARRA Registry Investigators and CARRA Transition Workgroup. Patient-Reported Outcomes Among Transition-Age Young Adults With Juvenile Idiopathic Arthritis in the Childhood Arthritis and Rheumatology Research Alliance Registry. *J Rheumatol*. 2023 Jan;50(1):98-106.
26. Borgia RE, Gurka MJ, Filipp SL, Elder M, Cardel M, Shiff NJ, CARRA Registry Investigators. Race, ethnicity and patient-reported outcomes in childhood-onset systemic lupus erythematosus. *Clin Exp Rheumatol*. 2023 Jan;41(1):186-194.
27. Woo JMP, Simmonds F, Dennos A, Son MBF, Lewandowski LB, Rubinstein TB, CARRA Registry investigators. Health Equity Implications of Missing Data Among Youths With Childhood-Onset Systemic Lupus Erythematosus: A Proof-of-Concept Study in the Childhood Arthritis and Rheumatology Research Alliance Registry. *Arthritis Care Res (Hoboken)*. 2023 Nov;75(11):2285-2294. PMID: PMC10593908
28. Lui VG, Ghosh T, Rymaszewski A, Chen S, Baxter RM, Kong DS, Ghosh D, Routes JM, Verbsky JW, Hsieh EWY. Dysregulated Lymphocyte Antigen Receptor Signaling in Common Variable Immunodeficiency with Granulomatous Lymphocytic Interstitial Lung Disease. *J Clin Immunol*. 2023 Aug;43(6):1311-1325. PMID: PMC10524976

29. Noonan E, Straesser MD, Makin T, Williams A, Al-Hazaymeh A, Routes JM, Verbsky J, Borish L, Lawrence MG. Impaired Response to Polysaccharide Vaccine in Selective IgE Deficiency *Journal of Clinical Immunology*. 2023.
30. Remiker A, Bolling K, Verbsky J. Common Variable Immunodeficiency *Medical Clinics of North America*. 2023.
31. Noonan E, Straesser MD, Makin T, Williams A, Al-Hazaymeh A, Routes JM, Verbsky J, Borish L, Lawrence MG. Impaired Response to Polysaccharide Vaccine in Selective IgE Deficiency. *J Clin Immunol*. 2023 Aug;43(6):1448-1454.
32. Shiff NJ, Shrader P, Correll CK, Dennos A, Phillips T, Beukelman T, CARRA Registry Investigators. Trajectories of disease activity in patients with JIA in the Childhood Arthritis and Rheumatology Research Alliance Registry. *Rheumatology (Oxford)*. 2023 Feb 01;62(2):804-814.
33. Roberts JE, Williams K, Dallas J, Eckert M, Huie L, Smitherman E, Soulsby WD, Zhao Y, Son MBF, CARRA Registry Investigators. Insurance Status and Tumor Necrosis Factor Inhibitor Initiation Among Children With Juvenile Idiopathic Arthritis in the CARRA Registry. *J Rheumatol*. 2023 Aug;50(8):1047-1057. PMID: PMC10303749
34. Remiker A, Bolling K, Verbsky J. Common Variable Immunodeficiency. *Med Clin North Am*. 2024 Jan;108(1):107-121.
35. McDonnell J, Cousins K, Younger MEM, Lane A, Abolhassani H, Abraham RS, Al-Tamemi S, Aldave-Becerra JC, Al-Faris EH, Alfaro-Murillo A, AlKhater SA, Alsaati N, Doss AMA, Anderson M, Angarola E, Ariue B, Arnold DE, Assa'ad AH, Aytekin C, Bank M, Bergerson JRE, Blessing J, Boesing J, Bouso C, Brodski N, Cabanillas D, Cady C, Callahan MA, Caorsi R, Carbone J, Carrabba M, Castagnoli R, Catanzaro JR, Chan S, Chandra S, Chapdelaine H, Chavoshzadeh Z, Chong HJ, Connors L, Consonni F, Correa-Jimenez O, Cunningham-Rundles C, D'Astous-Gauthier K, Delmonte OM, Demirdag YY, Deshpande DR, Diaz-Cabrera NM, Dimitriades VR, El-Owaidy R, ElGhazali G, Al-Hammadi S, Fabio G, Faure AS, Feng J, Fernandez JM, Fill L, Franco GR, Frenck RW, Fuleihan RL, Giardino G, Galant-Swofford J, Gambineri E, Garabedian EK, Geerlinks AV, Goudouris E, Grecco O, Pan-Hammarström Q, Khani HHK, Hammarström L, Hartog NL, Heimall J, Hernandez-Molina G, Horner CC, Hostoffer RW, Hristova N, Hsiao KC, Ivankovich-Escoto G, Jaber F, Jalil M, Jamee M, Jean T, Jeong S, Jhaveri D, Jordan MB, Joshi AY, Kalkat A, Kanarek HJ, Kellner ES, Khojah A, Khoury R, Kokron CM, Kumar A, Lecerf K, Lehman HK, Leiding JW, Lesmana H, Lim XR, Lopes JP, López AL, Tarquini L, Lundgren IS, Magnusson J, Marinho AKBB, Marseglia GL, Martone GM, Mechtler AG, Mendonca L, Milner JD, Mustillo PJ, Naderi AG, Naviglio S, Nell J, Niebur HB, Notarangelo L, Oleastro M, Ortega-López MC, Patel NR, Petrovic G, Pignata C, Porras O, Prince BT, Puck JM, Qamar N, Rabusin M, Raje N, Regairaz L, Risma KA, Ristagno EH, Routes J, Roxo-Junior P, Salemi N, Scalchunes C, Schuval SJ, Seneviratne SL, Shankar A, Sherkat R, Shin JJ, Siddiqi A, Signa S, Sobh A, Lima FMS, Stenehjem KK, Tam JS, Tang M, Barros MT, Verbsky J, Vergadi E, Voelker DH, Volpi S, Wall LA, Wang C, Williams KW, Wu EY, Wu SS, Zhou JJ, Cook A, Sullivan KE, Marsh R. COVID-19 Vaccination in Patients with Inborn Errors of Immunity Reduces Hospitalization and Critical Care Needs Related to COVID-19: a USIDNET Report. *J Clin Immunol*. 2024 Apr 05;44(4):86. PMID: PMC10997719
36. Forsyth KS, Toothacre NE, Jiwrajka N, Driscoll AM, Shallberg LA, Cunningham-Rundles C, Barmettler S, Farmer J, Verbsky J, Routes J, Beiting DP, Romberg N, May MJ, Anguera MC. NF- $\kappa$ B Signaling is Required for X-Chromosome Inactivation Maintenance Following T cell Activation. *bioRxiv*. 2024 Feb 12. PMID: PMC10888971
37. Mannion ML, Amin S, Balevic S, Chang ML, Correll CK, Kearsley-Fleet L, Hyrich KL, Beukelman T, Childhood Arthritis and Rheumatology Research Alliance Registry Investigators and the UK Juvenile Idiopathic Arthritis Biologics Register Investigators. Comparative Effectiveness of a Second Tumor Necrosis Factor Inhibitor Versus a Non-Tumor Necrosis Factor Biologic in the Treatment of Patients With Polyarticular-Course Juvenile Idiopathic Arthritis. *Arthritis Care Res (Hoboken)*. 2024 Aug;76(8):1090-1098. PMID: PMC11288784
38. Sabbagh SE, Haribhai D, Gershan JA, Verbsky J, Nocton J, Yassai M, Naumova EN, Hammelev E, Dasgupta M, Yan K, Gorski J, Williams CB. Patients with juvenile idiopathic arthritis have decreased clonal diversity in the CD8<sup>+</sup> T cell repertoire response to influenza vaccination. *Front Immunol*. 2024;15:1306490. PMID: PMC11169902
39. Sabbagh SE, Haribhai D, Gershan JA, Verbsky J, Nocton J, Yassai M, Naumova EN, Hammelev E, Dasgupta M, Yan K, Gorski J, Williams CB. Corrigendum: Patients with juvenile idiopathic arthritis have decreased clonal diversity in the CD8<sup>+</sup> T cell repertoire response to influenza

vaccination. *Front Immunol.* 2024;15:1446946. PMID: PMC11220386

40. Verbsky JW, Routes JM. Recurrent Fever, Immune Deficiency, and Autoinflammatory Disorders Nelson Pediatric Symptom-Based Diagnosis: Common Diseases and their Mimics. 1 January 2022:1015-1046.e1.