



Elizabeth Mellins

Bio

BIO

Dr. Elizabeth Mellins graduated from Cornell University with degree in political science, did a post-bac year at MIT and received her MD from Harvard Medical School. She trained in Pediatrics at the University of Colorado and in Pediatric Rheumatology at the University of Washington. She began to focus on research in immunology and immunogenetics during her postdoctoral work at the University of Washington with Dr. Donald Pious. She had her first independent laboratory at the University of Pennsylvania and then moved to Stanford, where she is now a professor of Pediatrics and a member of the Interdisciplinary Program in Immunology. She was a member of the Cellular and Molecular Immunology NIH study section for 9 years (2 terms) and is a Distinguished Fellow of the American Association of Immunologists. She was also a founder and first chairperson of the Childhood Arthritis and Rheumatology Research Alliance.

ACADEMIC APPOINTMENTS

- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Medicine Children's Health Center for IBD and Celiac Disease
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Advisory Committee, Stanford Autoimmune & Allergy Supergroup, Stanford School of Medicine, (2022-2024)
- Co-Chair, Selection Committee, Pediatric Residents, Physician Scientist track, Dep't Pediatrics, Stanford School of Medicine, (2022-2024)
- Member, PROPEL Advisory Committee, Stanford School of Medicine, (2021-2024)
- Chair, Selection Committee for Physician Scientist Training Program, Med School applicants, Stanford School of Medicine, (2021-2023)
- Member, Cellular and Molecular Immunology Study Section (CMI-B), NIH, (2016-2021)
- Scientific Advisory Board, Arthritis National Research Foundation, (2014-2024)
- Chair, Postdoctoral Education Committee, Stanford Interdisciplinary Program in Immunology, (2013-2023)
- Advisory Editorial Board, Nature Reviews Rheumatology, (2005-2015)
- Member, Medical and Scientific Advisory Council, Arthritis Foundation (national), (2003-2006)
- Member, CMI-B Study Section, NIH, (2002-2007)
- Developer and co-Director, Introduction to Medicine for PhDs, Stanford School of Medicine, (2001-2011)
- First Chair and Founder, Childhood Arthritis and Rheumatology Research Alliance, (2000-2004)

HONORS AND AWARDS

- Distinguished Fellow, American Association of Immunologists (2021)

- Basic Science Research Award of Excellence, Stanford Department of Pediatrics (2018)
- Faculty Mentor of the Year for postdoctoral fellows, Stanford University Immunology Program (2016)
- Within Our Reach grant recipient, ACR Research & Education Fund (2007)
- Distinguished Service Award, American Association of Immunologists (2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Scientific Advisory Board member, Arthritis National Research Foundation (2014 - present)
- 1st Chair and founding member, Childhood Arthritis and Rheumatology Research Alliance (2000 - 2004)

PROFESSIONAL EDUCATION

- Postdoctoral fellow, University of Washington , Immunology (1988)
- Ped. Rheumatology fellow, University of Washington , Pediatric Rheumatology (1984)
- Pediatric Resident, University of Colorado University of Washington , Pediatrics (1981)
- M.D., Harvard Medical School , Medicine (1978)

COMMUNITY AND INTERNATIONAL WORK

- Understanding Childhood Arthritis Network
- Childhood Arthritis and Rheumatology Research Alliance

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab focuses on the study of antigen presentation by major histocompatibility complex (MHC) class II molecules. We have been particularly interested in the molecular mechanisms and intracellular steps involved in the generation of complexes between MHC class II molecules and peptides. Our basic work in this area has elucidated the roles of invariant chain, HLA-DM, HLA-DO (inhibitor of HLA-DM), three molecules which regulate peptide-loading of class II molecules. We continue to study basic molecular mechanisms in antigen presentation by MHC class II molecules, focusing now on particular events in antigen presentation by B cells. In addition, we have an active program to understand the molecular basis of class II associations with autoimmune diseases. We have developed novel hypotheses in this area, which we have tested in animal models. We also recently discovered an HLA-linked, drug-related complication in systemic juvenile idiopathic arthritis (sJIA). Our second research area focuses on the contribution of monocytes to auto-inflammatory responses. Our studies revealed altered monocyte phenotypes and function in sJIA, including increased levels of circulating monocytes primed for transition to macrophages. We have also discovered brain-homing, immunosuppressive monocytes in pediatric acute neuropsychiatric syndrome (PANS).

Ongoing studies deal with:

1. Regulation of class II-restricted antigen presentation by professional antigen presenting cells, particularly B cells.
2. Mechanistic basis of HLA allele association with autoimmune disease
3. Disease mechanisms in sJIA and its complications
4. The phenotypes functions of monocytes in PANS, including novel brain-homing monocytes.

CLINICAL TRIALS

- Observational Study of Pediatric Rheumatic Diseases: The CARRA Registry, Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

- Immunology (Phd Program)

Publications

PUBLICATIONS

- **A general platform for targeting MHC-II antigens via a single loop.** *bioRxiv : the preprint server for biology*
Du, H., Liu, J., Jude, K. M., Yang, X., Li, Y., Bell, B., Yang, H., Kassardjian, A., Mobedi, A., Parekh, U., Sperberg, R. A., Julien, J. P., Mellins, et al
2024
- **Shortwave-infrared-light-emitting probes for the in vivo tracking of cancer vaccines and the elicited immune responses.** *Nature biomedical engineering*
Ren, F., Wang, F., Baghdasaryan, A., Li, Y., Liu, H., Hsu, R., Wang, C., Li, J., Zhong, Y., Salazar, F., Xu, C., Jiang, Y., Ma, et al
2023
- **Tmem178 negatively regulates IL-1 β production through inhibition of the NLRP3 inflammasome.** *Arthritis & rheumatology (Hoboken, N.J.)*
Khanna, K., Yan, H., Mehra, M., Rohatgi, N., Mbalaviele, G., Mellins, E. D., Faccio, R.
2023
- **Extracellular Vesicles in Systemic Juvenile Idiopathic Arthritis.** *Journal of leukocyte biology*
Maller, J., Morgan, T., Morita, M., McCarthy, F., Jung, Y., Svensson, K. J., Elias, J. E., Macaubas, C., Mellins, E.
2023
- **Proinflammatory polarization of monocytes by particulate air pollutants is mediated by induction of trained immunity in pediatric asthma.** *Allergy*
Movassagh, H., Prunicki, M., Kaushik, A., Zhou, X., Dunham, D., Smith, E. M., He, Z., Aleman Muench, G. R., Shi, M., Weimer, A. K., Cao, S., Andorf, S., Feizi, et al
2023
- **mTORC1 links pathology in experimental models of Still's disease and macrophage activation syndrome.** *Nature communications*
Huang, Z., You, X., Chen, L., Du, Y., Brodeur, K., Jee, H., Wang, Q., Linder, G., Darbousset, R., Cunin, P., Chang, M. H., Wactor, A., Wauford, et al
2022; 13 (1): 6915
- **Harnessing IgG Fc glycosylation for clinical benefit.** *Current opinion in immunology*
Archer, E. J., Gonzalez, J. C., Ghosh, D., Mellins, E. D., Wang, T. T.
2022; 77: 102231
- **Two distinct "brain-homing" monocyte subsets identified in pediatric acute-onset neuropsychiatric syndrome (PANS) are immunosuppressive and neuroprotective**
Rahman, S., Khatun, A., Gaertner, F., Macaubas, C., Licon, N., Columbo, L., Farhadian, B., Willett, T., Thienemann, M., Frankovich, J., Mellins, E.
SPRINGER/PLENUM PUBLISHERS.2022: S103-S104
- **Serum proteome analysis of systemic JIA and related lung disease identifies distinct inflammatory programs and biomarkers.** *Arthritis & rheumatology (Hoboken, N.J.)*
Chen, G., Deutsch, G. H., Schulert, G., Zheng, H., Jang, S., Trapnell, B., Lee, P., Macaubas, C., Ho, K., Schneider, C., Saper, V. E., de Jesus, A. A., Krasnow, et al
2022
- **Regulation of the BCR signalosome by the class II peptide editor, H2-M, affects the development and repertoire of innate-like B cells.** *Cell reports*
Ghosh, D., Pham, T. D., Nanaware, P. P., Sengupta, D., Adler, L. N., Li, C. G., He, X., O'Mara, M. E., Kantor, A. B., Nguyen, K. D., Yang, Y., Eisenlohr, L. C., Jensen, et al
1800; 38 (4): 110200
- **Tuning DO:DM ratios modulates MHC class II immunopeptidomes.** *Molecular & cellular proteomics : MCP*
Olsson, N., Jiang, W., Adler, L. N., Mellins, E. D., Elias, J. E.
1800: 100204
- **RIPPA: Identification of MHC-II Binding Peptides from Antigen Using a Yeast Display-Based Approach.** *Current protocols*
Liu, R., Jiang, W., Li, Y., Mellins, E. D.
1800; 2 (1): e350
- **TCR-like antibodies targeting autoantigen-mhc complexes: a mini-review.** *Frontiers in immunology*
Li, Y., Jiang, W., Mellins, E. D.

2022; 13: 968432

- **Severe delayed hypersensitivity reactions to IL-1 and IL-6 inhibitors link to common HLA-DRB1*15 alleles.** *Annals of the rheumatic diseases*
Saper, V. E., Ombrello, M. J., Tremoulet, A. H., Montero-Martin, G., Prahalad, S., Canna, S., Shimizu, C., Deutsch, G., Tan, S. Y., Remmers, E. F., Monos, D., Hahn, T., Phadke, et al
2021
- **Increased activation product of complement 4 protein in plasma of individuals with schizophrenia.** *Translational psychiatry*
Kalinowski, A., Liliental, J., Anker, L. A., Linkovski, O., Culbertson, C., Hall, J. N., Pattni, R., Sabatti, C., Noordsy, D., Hallmayer, J. F., Mellins, E. D., Ballon, J. S., O'Hara, et al
2021; 11 (1): 486
- **Effect of Drug Withdrawal on Interleukin-1 or Interleukin-6 Inhibitor Associated Diffuse Lung Disease**
Saper, V., Prahalad, S., Canna, S., Abdul-Aziz, R., Alvarez, M., Bingham, C., Bader-Meunier, B., Balboni, I., Berard, R., Bolaria, R., Boneparth, A., Casey, A., Cassidy, et al
WILEY.2021: 3403-3405
- **New insights into B cells as antigen presenting cells.** *Current opinion in immunology*
Ghosh, D., Jiang, W., Mukhopadhyay, D., Mellins, E. D.
2021; 70: 129-137
- **A positive feedback loop reinforces the allergic immune response in human peanut allergy.** *The Journal of experimental medicine*
Zhou, X., Yu, W., Lyu, S., Macaubas, C., Bunning, B., He, Z., Mellins, E. D., Nadeau, K. C.
2021; 218 (7)
- **Yeast display of MHC-II enables rapid identification of peptide ligands from protein antigens (RIPPA).** *Cellular & molecular immunology*
Liu, R., Jiang, W., Mellins, E. D.
2021
- **High Dimensional Analyses of Circulating Immune Cells in Psoriatic Arthritis Detects Elevated Phosphorylated STAT3.** *Frontiers in immunology*
Macaubas, C., Rahman, S. S., Lavi, I., Haddad, A., Elias, M., Sengupta, D., Zisman, D., Mellins, E. D.
1800; 12: 758418
- **Inflammatory Bowel Disease in Children with Systemic Juvenile Idiopathic Arthritis.** *The Journal of rheumatology*
Maller, J. n., Fox, E. n., Park, K. T., Paul, S. S., Baszis, K. n., Borocco, C. n., Prahalad, S. n., Quartier, P. n., Reinhardt, A. n., Schonenberg-Meinema, D. n., Shipman, L. n., Terreri, M. T., Simard, et al
2020
- **In vivo clonal expansion and phenotypes of hypocretin-specific CD4+ T cells in narcolepsy patients and controls.** *Nature communications*
Jiang, W., Birtley, J. R., Hung, S., Wang, W., Chiou, S., Macaubas, C., Kornum, B., Tian, L., Huang, H., Adler, L., Weaver, G., Lu, L., Ilstad-Minnihan, et al
2019; 10 (1): 5247
- **Synergy between B cell receptor/antigen uptake and MHCII peptide editing relies on HLA-DO tuning.** *Scientific reports*
Jiang, W., Adler, L. N., Macmillan, H., Mellins, E. D.
2019; 9 (1): 13877
- **Human Intestinal Enteroids Model MHC-II in the Gut Epithelium** *FRONTIERS IN IMMUNOLOGY*
Wosen, J. E., Ilstad-Minnihan, A., Co, J. Y., Jiang, W., Mukhopadhyay, D., Fernandez-Becker, N. Q., Kuo, C. J., Amieva, M. R., Mellins, E. D.
2019; 10
- **Human Intestinal Enteroids Model MHC-II in the Gut Epithelium.** *Frontiers in immunology*
Wosen, J. E., Ilstad-Minnihan, A., Co, J. Y., Jiang, W., Mukhopadhyay, D., Fernandez-Becker, N. Q., Kuo, C. J., Amieva, M. R., Mellins, E. D.
2019; 10: 1970
- **Severe autoinflammation in four patients with C-terminal variants in CDC42 successfully treated with IL-1beta inhibition.** *The Journal of allergy and clinical immunology*
Gernez, Y., de Jesus, A. A., Alsaleem, H., Macaubas, C., Roy, A., Lovell, D., Jagadeesh, K. A., Alehashemi, S., Erdman, L., Grimley, M., Talarico, S., Bacchetta, R., Lewis, et al
2019
- **Plc gamma 2/Tmem178 dependent pathway in myeloid cells modulates the pathogenesis of cytokine storm syndrome** *JOURNAL OF AUTOIMMUNITY*

- Mahajan, S., Decker, C. E., Yang, Z., Veis, D., Mellins, E. D., Faccio, R.
2019; 100: 62–74
- **Epitope Selection for HLA-DQ2 Presentation: Implications for Celiac Disease and Viral Defense** *JOURNAL OF IMMUNOLOGY*
Hung, S., Hou, T., Jiang, W., Wang, N., Qiao, S., Chow, I., Liu, X., van der Burg, S. H., Koelle, D. M., Kwok, W. W., Sollid, L. M., Mellins, E. D.
2019; 202 (9): 2558–69
 - **Tmem178 negatively regulates store-operated calcium entry in myeloid cells via association with STIM1.** *Journal of autoimmunity*
Yang, Z., Yan, H., Dai, W., Jing, J., Yang, Y., Mahajan, S., Zhou, Y., Li, W., Macaubas, C., Mellins, E. D., Shih, C., Fitzpatrick, J. A., Faccio, et al
2019
 - **US Adult Rheumatologists' Perspective on the Transition Process for Young Adults with Rheumatic Conditions.** *Arthritis care & research*
Zisman, D., Samad, A., Ardoin, S. P., Chira, P., White, P., Lavi, I., von Scheven, E., Lawson, E. F., Hing, M., Mellins, E. D.
2019
 - **Novel CDC42 Mutation Causes Severe Autoinflammatory Syndrome Responsive to IL-1 Inhibition**
Gernez, Y., Kirbey, M., Balagas, J. M., Macaubas, C. I., Canna, S., Lewis, D. B., Mellins, E., Bacchetta, R., Weinacht, K. G.
SPRINGER/PLENUM PUBLISHERS.2019: S69
 - **HLA associations in inflammatory arthritis: emerging mechanisms and clinical implications.** *Nature reviews. Rheumatology*
Busch, R. n., Kollnberger, S. n., Mellins, E. D.
2019
 - **Emergent high fatality lung disease in systemic juvenile arthritis.** *Annals of the rheumatic diseases*
Saper, V. E., Chen, G. n., Deutsch, G. H., Guillerman, R. P., Birgmeier, J. n., Jagadeesh, K. n., Canna, S. n., Schuler, G. n., Deterding, R. n., Xu, J. n., Leung, A. N., Bouzoubaa, L. n., Abulaban, et al
2019
 - **Pulse-Chase Analysis for Studies of MHC Class II Biosynthesis, Maturation, and Peptide Loading.** *Methods in molecular biology (Clifton, N.J.)*
Hou, T. n., Rinderknecht, C. n., Ghosh, D. n., Hadjinicolaou, A. V., Busch, R. n., Mellins, E. D.
2019; 1988: 315–41
 - **Epithelial MHC Class II Expression and Its Role in Antigen Presentation in the Gastrointestinal and Respiratory Tracts** *FRONTIERS IN IMMUNOLOGY*
Wosen, J. E., Mukhopadhyay, D., Macaubas, C., Mellins, E. D.
2018; 9
 - **Epithelial MHC Class II Expression and Its Role in Antigen Presentation in the Gastrointestinal and Respiratory Tracts.** *Frontiers in immunology*
Wosen, J. E., Mukhopadhyay, D., Macaubas, C., Mellins, E. D.
2018; 9: 2144
 - **Genetic architecture distinguishes systemic juvenile idiopathic arthritis from other forms of juvenile idiopathic arthritis: clinical and therapeutic implications** *ANNALS OF THE RHEUMATIC DISEASES*
Ombrello, M. J., Arthur, V. L., Remmers, E. F., Hinks, A., Tachmazidou, I., Grom, A. A., Foell, D., Martini, A., Gattorno, M., Ozen, S., Prahalad, S., Zeff, A. S., Bohnsack, et al
2017; 76 (5)
 - **The Other Function: Class II-Restricted Antigen Presentation by B Cells** *FRONTIERS IN IMMUNOLOGY*
Adler, L. N., Jiang, W., Bhamidipati, K., Millican, M., Macaubas, C., Hung, S., Mellins, E. D.
2017; 8
 - **Post-infectious inflammation, autoimmunity, and OCD: Sydenham Chorea, Pediatric Autoimmune Neuropsychiatric Disorder Associated with Streptococcal infection (PANDAS), and Pediatric Acute-onset Neuropsychiatric Disorder (PANS)** *DEVELOPMENTAL NEUROSCIENCE*
Vreeland, A., Calaprice, D., Or-Geva, N., Frye, R. E., Agalliu, D., Lachman, H. M., Pittenger, C., Pallanti, S., Williams, K., Ma, M., Thienemann, M., Gagliano, A., Mellins, et al
2023
 - **Synchrony 2022: The Role of Neuroinflammation in Behavioral Exacerbations in Autism Spectrum Disorder.** *Journal of personalized medicine*
Frankovich, J., Nanda, H., Mellins, E. D., Jyonouchi, H., Boles, R. G., Walker, S. J., Gaitanis, J., Frye, R. E.
2023; 13 (7)
 - **Evaluation of C4 gene copy number in Pediatric Acute Neuropsychiatric Syndrome** *DEVELOPMENTAL NEUROSCIENCE*

- Kalinowski, A., Tian, L., Pattni, R., Ollila, H., Khan, M., Manko, C., Silverman, M., Ma, M., Columbo, L., Farhadian, B., Swedo, S., Murphy, T., Johnson, et al
2023
- **Large-Scale Targeted Sequencing Study Links Systemic Juvenile Idiopathic Arthritis with Rare Variants of MEFV, LYST, STXBP2, UNC13D**
Marques, M., Rubin, D., Shuldiner, E., Schmitz, E., Baskin, E., Patt, A., Grom, A., Foell, D., Gattorno, M., Bohnsack, J., Yeung, R., Prahallad, S., Mellins, et al
WILEY.2022: 1139-1140
 - **Regulatory Haplotype of CXCR4 Is Associated with sJIA and Correlates with Enhanced Neutrophil and CD14+ Monocyte Migration**
Nakano, H., Shuldiner, E., Hinks, A., Sudman, M., Remmers, E., Satorius, C., Schmitz, E., Arthur, V., Woo, P., Grom, A., Foell, D., Bohnsack, J., Gattorno, et al
WILEY.2022: 1714-1716
 - **Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity.** *Science translational medicine*
Chakraborty, S., Gonzalez, J. C., Sievers, B. L., Mallajosyula, V., Chakraborty, S., Dubey, M., Ashraf, U., Cheng, B. Y., Kathale, N., Tran, K. Q., Scallan, C., Sinnott, A., Cassidy, et al
1800: eabm7853
 - **Repression of CTSG, ELANE and PRTN3-mediated histone H3 proteolytic cleavage promotes monocyte-to-macrophage differentiation.** *Nature immunology*
Cheung, P., Schaffert, S., Chang, S. E., Dvorak, M., Donato, M., Macaubas, C., Foecke, M. H., Li, T., Zhang, L., Coan, J. P., Schulert, G. S., Grom, A. A., Henderson, et al
2021
 - **Carbon Nanotubes-Potent Carriers for Targeted Drug Delivery in Rheumatoid Arthritis.** *Pharmaceutics*
Kofoed Andersen, C., Khatri, S., Hansen, J., Slott, S., Pavan Parvathaneni, R., Mendes, A. C., Chronakis, I. S., Hung, S., Rajasekaran, N., Ma, Z., Zhu, S., Dai, H., Mellins, et al
2021; 13 (4)
 - **Recent progress in the treatment of non-systemic juvenile idiopathic arthritis.** *Faculty reviews*
Bridges, J. M., Mellins, E. D., Cron, R. Q.
2021; 10: 23
 - **Multicohort Analysis Identifies Monocyte Gene Signatures to Accurately Monitor Subset-Specific Changes in Human Diseases.** *Frontiers in immunology*
Vallania, F., Zisman, L., Macaubas, C., Hung, S., Rajasekaran, N., Mason, S., Graf, J., Nakamura, M., Mellins, E. D., Khatri, P.
2021; 12: 659255
 - **Tofacitinib Inhibits Angiogenesis Through Its Opposite Effects on Pro- and Anti-angiogenic Factors**
Zisman, D., Rahat, M., Simanovich, E., Mellins, E., Haddad, A., Gazitt, T., Feld, J., Rahat, M.
WILEY.2020
 - **A First in Class Therapeutic Nanoparticle for Specific Targeting of Anti-citrullinated Protein Antibody Ameliorates Serum Transfer and Collagen Induced Arthritis**
Khatri, S., Hansen, J., Clausen, M., Kragstrup, T., Hung, S., Mellins, E., Astakhova, K.
WILEY.2020
 - **The Killer Immunoglobulin-like Receptor KIR3DL1 in Combination with HLA-Bw4 Is Associated with Pediatric Acute-onset Neuropsychiatric Syndrome (PANS)**
Frankovich, J., Anderson, K., Montero-Martin, G., Chan, A., Thienemann, M., Farhadian, B., Willett, T., Mellins, E., Madden, A., Murphy, T., Swedo, S., Fernandez-Vina, M., Hollenbach, et al
WILEY.2020: 255-57
 - **The class II peptide editor, H2-M, affects the development and repertoire of B-1 cells**
Ghosh, D., Pham, T. D., He, X., O'mara, M. E., Kantor, A. B., Khoa Nguyen, Sengupta, D., Eisenlohr, L. C., Jensen, P. E., Herzenberg, L. A., Boyd, S. D., Ghosn, E. B., Mellins, E. D.
AMER ASSOC IMMUNOLOGISTS.2020
 - **Hemagglutinin as potential in vivo driver of DQ6-restricted clonal expansion of CD4(+) T cells cross-reactive with hypocretin in narcolepsy**
Jiang, W., Birtley, J. R., Hung, S., Wang, W., Chiou, S., Davis, M. M., Stern, L. J., Mellins, E. D.
AMER ASSOC IMMUNOLOGISTS.2020
 - **Pediatric Acute-onset Neuropsychiatric Syndrome (PANS) Is Characterized by a Novel Subset of Monocytes with Markers Associated with Crossing the Blood Brain Barrier (BBB)**

- Rahman, S., Gaertner, F., Houghton, J., Macaubas, C., Chan, A., Columbo, L., Frankovich, J., Mellins, E.
WILEY.2020: 262–63
- **Response to: 'Successful treatment of plasma exchange for refractory systemic juvenile idiopathic arthritis complicated with macrophage activation syndrome and severe lung disease' by Sato et al.** *Annals of the rheumatic diseases*
Saper, V. E., Chen, G., Guillerman, R. P., Khatri, P., Cron, R. Q., Mellins, E. D.
2020
 - **Psoriatic arthritis in childhood: A commentary on the controversy.** *Clinical immunology (Orlando, Fla.)*
Stoll, M. L., Mellins, E. D.
2020: 108396
 - **US Adult Rheumatologists' Perspectives on the Transition Process for Young Adults With Rheumatic Conditions** *ARTHRITIS CARE & RESEARCH*
Zisman, D., Samad, A., Ardoin, S. P., Chira, P., White, P., Lavi, I., von Scheven, E., Lawson, E. F., Hing, M., Mellins, E. D.
2020; 72 (3): 432–40
 - **Drug Reaction and High Fatality Lung Disease in Systemic Onset Juvenile Idiopathic Arthritis (sJIA)**
Saper, V., Mellins, E., Kwong, B.
MOSBY-ELSEVIER.2020: AB95
 - **Response to: 'Effectiveness and safety of ruxolitinib for the treatment of refractory systemic idiopathic juvenile arthritis like associated with interstitial lung disease: case report' by Bader-Meunier et al.** *Annals of the rheumatic diseases*
Saper, V. E., Chen, G. n., Khatri, P. n., Mellins, E. D.
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 - **Combined Assay for Detecting Autoantibodies to Nucleic Acids and Apolipoprotein H in Patients with Systemic Lupus Erythematosus.** *Methods in molecular biology (Clifton, N.J.)*
Khatri, S. n., Mellins, E. D., Torok, K. S., Bukhari, S. A., Astakhova, K. n.
2020; 2063: 57–71
 - **Retinoic Acid and Lymphotoxin Signaling Promote Differentiation of Human Intestinal M Cells.** *Gastroenterology*
Ding, S. n., Song, Y. n., Brulois, K. F., Pan, J. n., Co, J. Y., Ren, L. n., Feng, N. n., Yasukawa, L. L., Sánchez-Tacuba, L. n., Wosen, J. E., Mellins, E. D., Monack, D. M., Amieva, et al
2020
 - **Diacylglycerol Kinase zeta Regulates Macrophage Responses in Juvenile Arthritis and Cytokine Storm Syndrome Mouse Models.** *Journal of immunology (Baltimore, Md. : 1950)*
Mahajan, S., Mellins, E. D., Faccio, R.
2019
 - **Multiplex Serum Analysis Identifies Potential Biomarkers of Systemic Juvenile Idiopathic Arthritis, Macrophage Activation Syndrome, and Associated Pulmonary Alveolar Proteinosis: Evidence for Independently-regulated Hyperinflammatory and Eosinophilic Inflammation**
Chen, G., Schulert, G., De Jesus, A., Saper, V., Schneider, C., Trapnell, B., Grom, A. A., Goldbach-Mansky, R., Mellins, E., Khatri, P., Canna, S.
WILEY.2019
 - **Systemic Juvenile Idiopathic Arthritis-Lung Disease: Characterization and Risk Factors**
Schulert, G., Yasin, S., Carey, B., Chalk, C., Thuy Do, Schapiro, A., Husami, A., Watts, A., Brunner, H., Huggins, J., Mellins, E., Morgan, E., Ting, T., et al
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 - **Systemic Juvenile Idiopathic Arthritis-Lung Disease: Characterization and Risk Factors.** *Arthritis & rheumatology (Hoboken, N.J.)*
Schulert, G. S., Yasin, S., Carey, B., Chalk, C., Do, T., Schapiro, A. H., Husami, A., Watts, A., Brunner, H. I., Huggins, J., Mellins, E. D., Morgan, E. M., Ting, et al
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 - **Tmem178 negatively regulates store-operated calcium entry in myeloid cells via association with STIM1** *JOURNAL OF AUTOIMMUNITY*
Yang, Z., Yan, H., Dai, W., Jing, J., Yang, Y., Mahajan, S., Zhou, Y., Li, W., Macaubas, C., Mellins, E. D., Shih, C., Fitzpatrick, J. J., Faccio, et al
2019; 101: 94–108
 - **The class II peptide editor, H2-M, affects the development and function of B-1 cells**
Ghosh, D., He, X., O'Mara, M. E., Kantor, A. B., Sengupta, D., Yang, Y., Eisenlohr, L. C., Jensen, P. E., Herzenberg, L. A., Mellins, E. D.
AMER ASSOC IMMUNOLOGISTS.2019

- **Citrullinated Peptide Epitope Targets Therapeutic Nanoparticles to Human Neutrophils.** *Bioconjugate chemistry*
Khatri, S. n., Hansen, J. n., Mendes, A. C., Chronakis, I. S., Hung, S. C., Mellins, E. D., Astakhova, K. n.
2019
- **Multiparameter Mass Cytometry By Time-of-Flight Spectrometry (CyTOF) Phenotyping in Pediatric Localized Scleroderma**
Mirizio, E., Mellins, E. D., Macaubas, C., Maecker, H. T., Gartner, F., Konnikova, L., Schollaert-Fitch, K., Torok, K. S.
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