

Stanford



William H. Robinson, MD PhD

James W. Raitt, M.D. Professor
Medicine - Immunology & Rheumatology

CLINICAL OFFICE (PRIMARY)

- VA Palo Alto Geriatric Research, Education and Clinical Center
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ACADEMIC CONTACT INFORMATION

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Bio

BIO

My laboratory's overarching objective is to elucidate the molecular and cellular mechanisms underlying autoimmune diseases, and to leverage these insights to develop next-generation diagnostics and therapeutics. I draw on my experiences as a researcher, clinician and entrepreneur – to lead researchers and clinicians to decipher the mechanisms underlying pathogenic and protective immune responses, and to turn our scientific discoveries into tomorrow's transformational solutions. I serve as the Chief of the Division of Immunology and Rheumatology.

CLINICAL FOCUS

- Immunology and Rheumatology
- Rheumatology

ACADEMIC APPOINTMENTS

- Professor, Medicine - Immunology & Rheumatology
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Immunology and Rheumatology, Stanford University, (2019- present)

PROFESSIONAL EDUCATION

- Board Certification: Rheumatology, American Board of Internal Medicine (2013)
- Board Certification, American Board of Internal Medicine , Rheumatology
- Fellowship, Stanford University , Rheumatology
- Residency, UCSF , Internal Medicine

LINKS

- Robinson Lab: <http://robinsonlab.stanford.edu>
- Division of Immunology and Rheumatology: <http://med.stanford.edu/immunology>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our overarching objective is to elucidate the molecular and cellular mechanisms underlying autoimmune and rheumatic diseases, and to leverage these insights to develop next-generation diagnostics and therapeutics.

Our laboratory is pursuing two major lines of research:

1) Autoimmunity, with a focus on rheumatoid arthritis (RA), systemic lupus erythematosus (SLE) and multiple sclerosis (MS). Autoimmune diseases affect 3-5% of the world population, yet the pathogenesis of most autoimmune diseases remains unclear. Moreover, current therapies globally modulate immune function, resulting in potentially severe side effects, and are not curative, serving only to slow disease progression.

- Defining the role of EBV in the initiation and progression of MS and SLE.
- Defining the role of mucosal breaks of bacteria in RA and ANCA vasculitis.
- Investigating the role of B cells in autoimmune disease.

2) Osteoarthritis (OA). Our second line of research is the investigation of OA, the most common form of arthritis. Unlike RA, OA is not an autoimmune disorder and has been widely believed to result from ‘wear and tear’. However, findings from our laboratory and others are revealing a key role for innate immune inflammation in the pathogenesis of OA.

- Defining the innate immune mechanisms that mediate OA.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Suman Acharya, Aurelie Clottu, Mahesh Pandit, Jiyeon Park, Neda Sattarnezhad Oskouei, Eun Kyung Song, Tilini Wijeratne, Xiaohao Wu, Laura van Dam

Postdoctoral Research Mentor

Suman Acharya, Mahesh Pandit, Aiswarya Sethumadhavan, Eun Kyung Song

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Epstein-Barr virus and multiple sclerosis.** *Science (New York, N.Y.)*
Robinson, W. H., Steinman, L.
2022; 375 (6578): 264-265
- **Clonally Expanded B Cells in Multiple Sclerosis Bind EBV EBNA1 and GlialCAM.** *Nature*

- Lanz, T. V., Brewer, R. C., Ho, P. P., Moon, J. S., Jude, K. M., Fernandez, D., Fernandes, R. A., Gomez, A. M., Nadj, G. S., Bartley, C. M., Schubert, R. D., Hawes, I. A., Vazquez, et al
2022
- **BNT162b2 vaccine induces divergent B cell responses to SARS-CoV-2 S1 and S2** *NATURE IMMUNOLOGY*
Brewer, R., Ramadoss, N. S., Lahey, L. J., Jahanbani, S., Robinson, W. H., Lanz, T.
2021
 - **Neutralizing Anti-Interleukin-1 Receptor-Antagonist Autoantibodies Induce Inflammatory and Fibrotic Mediators in IgG4-Related Disease.** *The Journal of allergy and clinical immunology*
Jarrell, J. A., Baker, M. C., Perugino, C. A., Liu, H., Bloom, M. S., Maehara, T., Wong, H. H., Lanz, T., Adamska, J. Z., Kongpachith, S., Sokolove, J., Stone, J. H., Pillai, et al
2021
 - **IgE-mediated mast cell activation promotes inflammation and cartilage destruction in osteoarthritis** *ELIFE*
Wang, Q., Lepus, C. M., Raghu, H., Reber, L. L., Tsai, M. M., Wong, H. H., von Kaeppeler, E., Lingampalli, N., Bloom, M. S., Hu, N., Elliott, E. E., Oliviero, F., Punzi, et al
2019; 8
 - **Affinity Maturation of the Anti-Citrullinated Protein Antibody Paratope Drives Epitope Spreading and Polyreactivity in Rheumatoid Arthritis** *ARTHRITIS & RHEUMATOLOGY*
Kongpachith, S., Lingampalli, N., Ju, C., Blum, L. K., Lu, D. R., Elliott, S. E., Mao, R., Robinson, W. H.
2019; 71 (4): 507–17
 - **IgE-mediated mast cell activation promotes inflammation and cartilage destruction in osteoarthritis.** *eLife*
Wang, Q. n., Lepus, C. M., Raghu, H. n., Reber, L. L., Tsai, M. M., Wong, H. H., von Kaeppeler, E. n., Lingampalli, N. n., Bloom, M. S., Hu, N. n., Elliott, E. E., Oliviero, F. n., Punzi, et al
2019; 8
 - **Dysregulated integrin #V#3 and CD47 signaling promotes joint inflammation, cartilage breakdown, and progression of osteoarthritis.** *JCI insight*
Wang, Q. n., Onuma, K. n., Liu, C. n., Wong, H. n., Bloom, M. S., Elliott, E. E., Cao, R. R., Hu, N. n., Lingampalli, N. n., Sharpe, O. n., Zhao, X. n., Sohn, D. H., Lepus, et al
2019; 4 (18)
 - **Affinity Maturation Drives Epitope Spreading and Generation of Pro-inflammatory Anti-Citrullinated Protein Antibodies in Rheumatoid Arthritis.** *Arthritis & rheumatology (Hoboken, N.J.)*
Elliott, S. E., Kongpachith, S., Lingampalli, N., Adamska, J. Z., Cannon, B. J., Mao, R., Blum, L. K., Robinson, W. H.
2018
 - **T cell-dependent affinity maturation and innate immune pathways differentially drive autoreactive B cell responses in rheumatoid arthritis.** *Arthritis & rheumatology (Hoboken, N.J.)*
Lu, D. R., McDavid, A. N., Kongpachith, S., Lingampalli, N., Glanville, J., Ju, C., Gottardo, R., Robinson, W. H.
2018
 - **Non-progressing cancer patients have persistent B cell responses expressing shared antibody paratopes that target public tumor antigens** *CLINICAL IMMUNOLOGY*
DeFalco, J., Harbell, M., Manning-Bog, A., Baia, G., Scholz, A., Millare, B., Sumi, M., Zhang, D., Chu, F., Dowd, C., Zuno-Mitchell, P., Kim, D., Leung, et al
2018; 187: 37–45
 - **Barcode-Enabled Sequencing of Plasmablast Antibody Repertoires in Rheumatoid Arthritis** *ARTHRITIS & RHEUMATOLOGY*
Tan, Y., Kongpachith, S., Blum, L. K., Ju, C., Lahey, L. J., Lu, D. R., Cai, X., Wagner, C. A., Lindstrom, T. M., Sokolove, J., Robinson, W. H.
2014; 66 (10): 2706-2715
 - **High-throughput sequencing of natively paired antibody chains provides evidence for original antigenic sin shaping the antibody response to influenza vaccination.** *Clinical immunology*
Tan, Y., Blum, L. K., Kongpachith, S., Ju, C., Cai, X., Lindstrom, T. M., Sokolove, J., Robinson, W. H.
2014; 151 (1): 55-65
 - **Identification of a central role for complement in osteoarthritis** *NATURE MEDICINE*
Wang, Q., Rozelle, A. L., Lepus, C. M., Scanzello, C. R., Song, J. J., Larsen, D. M., Crish, J. F., Bebek, G., Ritter, S. Y., Lindstrom, T. M., Hwang, I., Wong, H. H., Punzi, et al

2011; 17 (12): 1674-U196

● **Selective tyrosine kinase inhibition by imatinib mesylate for the treatment of autoimmune arthritis** *JOURNAL OF CLINICAL INVESTIGATION*

Paniagua, R. T., Sharpe, O., Ho, P. P., Chan, S. M., Chang, A., Higgins, J. P., Tomooka, B. H., Thomas, F. M., Song, J. J., Goodman, S. B., Lee, D. M., Genovese, M. C., Utz, et al
2006; 116 (10): 2633-2642

● **Lipid microarrays identify key mediators of autoimmune brain inflammation** *NATURE MEDICINE*

Kanter, J. L., Narayana, S., Ho, P. P., Catz, I., Warren, K. G., Sobel, R. A., Steinman, L., Robinson, W. H.
2006; 12 (1): 138-143

● **Protein microarrays guide tolerizing DNA vaccine treatment of autoimmune encephalomyelitis** *NATURE BIOTECHNOLOGY*

Robinson, W. H., Fontoura, P., Lee, B. J., de Vegvar, H. E., Tom, J., Pedotti, R., DiGennaro, C. D., Mitchell, D. J., Fong, D., Ho, P. P., Ruiz, P. J., Maverakis, E., Stevens, et al
2003; 21 (9): 1033-1039

● **Autoantigen microarrays for multiplex characterization of autoantibody responses** *NATURE MEDICINE*

Robinson, W. H., DiGennaro, C., Hueber, W., Haab, B. B., KAMACHI, M., Dean, E. J., Fournel, S., Fong, D., Genovese, M. C., de Vegvar, H. E., Skriner, K., Hirschberg, D. L., Morris, et al
2002; 8 (3): 295-301

● **Dysregulated fibrinolysis and plasmin activation promote the pathogenesis of osteoarthritis.** *JCI insight*

Wang, Q., Shao, G., Zhao, X., Wong, H. H., Chin, K., Zhao, M., Bai, A., Bloom, M. S., Love, Z. Z., Chu, C. R., Cheng, Z., Robinson, W. H.
2024

● **Expansion of HLA-DR+ Peripheral Helper T and Naïve B cells in Anti-Citrullinated Protein Antibody-Positive Subjects At-Risk for Rheumatoid Arthritis.** *Arthritis & rheumatology (Hoboken, N.J.)*

Takada, H., Demoruelle, M. K., Deane, K. D., Nakamura, S., Katsumata, Y., Ikari, K., Buckner, J. H., Robinson, W. H., Seifert, J. A., Feser, M. L., Moss, L., Norris, J. M., Harigai, et al
2024

● **Longitudinal patterns and predictors of response to standard-of-care therapy in lupus nephritis: data from the Accelerating Medicines Partnership Lupus Network.** *Arthritis research & therapy*

Izmirly, P. M., Kim, M. Y., Carlucci, P. M., Preisinger, K., Cohen, B. Z., Deonarine, K., Zaminski, D., Dall'Era, M., Kalunian, K., Fava, A., Belmont, H. M., Wu, M., Puttermann, et al
2024; 26 (1): 54

● **Immune tolerance of citrullinated peptides.** *Nature reviews. Rheumatology*

Thomas, R., Robinson, W. H.
2024

● **A candidate antibody drug for prevention of malaria.** *Nature medicine*

Williams, K. L., Guerrero, S., Flores-Garcia, Y., Kim, D., Williamson, K. S., Siska, C., Smidt, P., Jepson, S. Z., Li, K., Dennison, S. M., Mathis-Torres, S., Chen, X., Wille-Reece, et al
2024

● **Multifaceted immune dysregulation characterizes individuals at-risk for rheumatoid arthritis.** *Nature communications*

James, E. A., Holers, V. M., Iyer, R., Prideaux, E. B., Rao, N. L., Rims, C., Muir, V. S., Posso, S. E., Bloom, M. S., Zia, A., Elliott, S. E., Adamska, J. Z., Ai, et al
2023; 14 (1): 7637

● **A novel mouse model of cerebral adrenoleukodystrophy highlights NLRP3 activity in lesion pathogenesis.** *bioRxiv : the preprint server for biology*

Hashemi, E., Narain Srivastava, I., Aguirre, A., Tilahan Yoseph, E., Kaushal, E., Awani, A., Kyu Ryu, J., Akassoglou, K., Talebian, S., Chu, P., Pisani, L., Musolino, P., Steinman, et al
2023

● **Genetic association between atopic disease and osteoarthritis.** *Osteoarthritis and cartilage*

Baker, M. C., Robinson, W. H., Ostrom, Q.
2023

● **Serum reactivity to citrullinated protein/peptide antigens and left ventricular structure and function in the Multi-Ethnic Study of Atherosclerosis (MESA).** *PloS one*

Hughes-Austin, J. M., Katz, R., Majka, D. S., Criqui, M. H., Robinson, W. H., Firestein, G. S., Hundley, W. G., Ix, J. H.

2023; 18 (10): e0291967

- **Does EBV infection matter for MS: EBV mediated molecular mimicry**

Robinson, W. H.

SAGE PUBLICATIONS LTD.2023: 7

- **Anti-citrullinated protein antibodies with multiple specificities ameliorate collagen antibody-induced arthritis in a time-dependent manner.** *Arthritis & rheumatology (Hoboken, N.J.)*

Gomez, A. M., Brewer, R. C., Moon, J. S., Acharya, S., Kongpachith, S., Wang, Q., Jahanbani, S., Wong, H. H., Lanz, T. V., Love, Z. Z., Min-Oo, G., Niedziela-Majka, A., Robinson, et al

2023

- **Anticitrullinated peptide antibody epitope expansion and the HLA DRB1 'shared epitope' are less common in seropositive checkpoint inhibitor-induced inflammatory arthritis than in longstanding rheumatoid arthritis.** *RMD open*

Ghosh, N., Reid, P., Aude, C. A., Kirschman, J., Goodman, S., Bykerk, V. P., Lakhapal, A., Rajesh, D., Chan, K. K., Robinson, W. H., Bass, A. R.

2023; 9 (2)

- **Anti-citrullinated protein antibody profiles predict changes in disease activity in patients with rheumatoid arthritis initiating biologics** *RHEUMATOLOGY*

Aripova, N., Kremer, J. M., Pappas, D. A., Reed, G., England, B. R., Robinson, B. H., Curtis, J. R., Thiele, G. M., Mikuls, T. R.

2023

- **Single-cell sequencing of PBMC characterizes a distinct inflammatory monocyte subset in Lyme disease patients with Post-Treatment Lyme Disease Syndrome (PTLD)**

Chen, X., Zhou, X., Ji, X., Miranda, M., Rebman, A., Kathuria, K., Robinson, W. H., Aucott, J., Davis, M. M.

AMER ASSOC IMMUNOLOGISTS.2023

- **Rheumatoid arthritis associated with a cytotoxic cell leukemia is characterized by enhanced reactivity to citrullinated antigens**

Ananth, K., Gomez-Banuelos, E., Trejo-Zambrano, I., Kirschmann, J., Moosic, K. B., Wang, H., Feith, D. J., Robinson, W. H., Andrade, F., Loughran, T. P., Darrah, E.

AMER ASSOC IMMUNOLOGISTS.2023

- **Clonally Expanded Cytotoxic CD8⁺ T cells Target Citrullinated Antigens In ACPA⁺ Rheumatoid Arthritis**

Moon, J., Younis, S., Sharpe, O., Rao, N. L., Carman, J. A., James, E. A., Buckner, J. H., Deane, K. D., Holers, V., Donlin, L. T., Davis, M. M., Robinson, W. H.

AMER ASSOC IMMUNOLOGISTS.2023

- **Increased risk of osteoarthritis in patients with atopic disease.** *Annals of the rheumatic diseases*

Baker, M. C., Sheth, K., Lu, R., Lu, D., von Kaeppeler, E. P., Bhat, A., Felson, D. T., Robinson, W. H.

2023

- **FAT10 Induces cancer cell migration by stabilizing phosphorylated ABI3/NESH.** *Animal cells and systems*

Um, H., Jeong, H., Lee, B., Kim, Y., Lee, J., Roh, J. S., Lee, S. G., Park, H. R., Robinson, W. H., Sohn, D. H.

2023; 27 (1): 53-60

- **Dysfunction in parkin aggravates inflammatory bone erosion by reinforcing osteoclast activity.** *Cell & bioscience*

Kim, E., Kim, J., Kim, Y., Choi, B., Sohn, D. H., Park, S., Chung, Y., Kim, Y., Robinson, W. H., Kim, Y., Chang, E.

2023; 13 (1): 48

- **Machine learning identification of thresholds to discriminate osteoarthritis and rheumatoid arthritis synovial inflammation.** *Arthritis research & therapy*

Mehta, B., Goodman, S., DiCarlo, E., Jannat-Khah, D., Gibbons, J. A., Otero, M., Donlin, L., Pannellini, T., Robinson, W. H., Sculco, P., Figgie, M., Rodriguez, J., Kirschmann, et al

2023; 25 (1): 31

- **Development of Osteoarthritis in Adults With Type 2 Diabetes Treated With Metformin vs a Sulfonylurea.** *JAMA network open*

Baker, M. C., Sheth, K., Liu, Y., Lu, D., Lu, R., Robinson, W. H.

2023; 6 (3): e233646

- **Incidence of Interstitial Lung Disease in Patients With Rheumatoid Arthritis Treated With Biologic and Targeted Synthetic Disease-Modifying Antirheumatic Drugs.** *JAMA network open*

Baker, M. C., Liu, Y., Lu, R., Lin, J., Melehani, J., Robinson, W. H.

2023; 6 (3): e233640

- **Oral mucosal breaks trigger anti-citrullinated bacterial and human protein antibody responses in rheumatoid arthritis.** *Science translational medicine*
Brewer, R. C., Lanz, T. V., Hale, C. R., Sepich-Poore, G. D., Martino, C., Swafford, A. D., Carroll, T. S., Kongpachith, S., Blum, L. K., Elliott, S. E., Blachere, N. E., Parveen, S., Fak, et al
2023; 15 (684): eabq8476
- **Serum antibodies to periodontal pathogens prior to rheumatoid arthritis diagnosis: A case-control study.** *Seminars in arthritis and rheumatism*
Lee, J. A., Mikuls, T. R., Deane, K. D., Sayles, H. R., Thiele, G. M., Edison, J. D., Wagner, B. D., Feser, M. L., Moss, L. K., Kelmenson, L. B., Robinson, W. H., Payne, J. B.
2023; 59: 152176
- **Autoantibodies against citrullinated and native proteins and prediction of rheumatoid arthritis-associated interstitial lung disease: A nested case-control study.** *The Lancet. Rheumatology*
Kronzer, V. L., Hayashi, K., Yoshida, K., Davis, J. M., McDermott, G. C., Huang, W., Dellaripa, P. F., Cui, J., Feathers, V., Gill, R. R., Hatabu, H., Nishino, M., Blaustein, et al
2023; 5 (2): e77-e87
- **Autoantibodies against citrullinated and native proteins and prediction of rheumatoid arthritis-associated interstitial lung disease: a nested case-control study** *LANCET RHEUMATOLOGY*
Kronzer, V. L., Hayashi, K., Yoshida, K., Davis, J. M., McDermott, G. C., Huang, W., Dellaripa, P. F., Cui, J., Feathers, V., Gill, R. R., Hatabu, H., Nishino, M., Blaustein, et al
2023; 5 (2): E77-E87
- **Cytotoxic CD8+ T cells target citrullinated antigens in rheumatoid arthritis.** *Nature communications*
Moon, J. S., Younis, S., Ramadoss, N. S., Iyer, R., Sheth, K., Sharpe, O., Rao, N. L., Becart, S., Carman, J. A., James, E. A., Buckner, J. H., Deane, K. D., Holers, et al
2023; 14 (1): 319
- **Roadmap for understanding mechanisms on how Epstein-Barr virus triggers multiple sclerosis and for translating these discoveries in clinical trials.** *Clinical & translational immunology*
Lanz, T. V., Robinson, W. H., Ho, P. P., Steinman, L.
2023; 12 (2): e1438
- **Activation of a Latent Epitope Causing Differential Binding of Anti-Neutrophil Cytoplasmic Antibodies to Proteinase 3.** *Arthritis & rheumatology (Hoboken, N.J.)*
Moura, M. C., Thompson, G. E., Nelson, D. R., Fussner, L. A., Hummel, A. M., Jenne, D. E., Emerling, D., Fervenza, F. C., Kallenberg, C. G., Langford, C. A., McCune, W. J., Merkel, P. A., Monach, et al
2022
- **Increased macrophage phagocytic activity with TLR9 agonist conjugation of an anti- *Borrelia burgdorferi* monoclonal antibody.** *Clinical immunology (Orlando, Fla.)*
Jahanbani, S., Hansen, P. S., Blum, L. K., Bastounis, E. E., Ramadoss, N. S., Pandrala, M., Kirschmann, J. M., Blacker, G. S., Love, Z. Z., Weissman, I. L., Nemati, F., Tal, M. C., Robinson, et al
2022: 109180
- **Clonal IgA and IgG autoantibodies from individuals at risk for rheumatoid arthritis identify an arthritogenic strain of *Subdoligranulum*.** *Science translational medicine*
Chriswell, M. E., Lefferts, A. R., Clay, M. R., Hsu, A. R., Seifert, J., Feser, M. L., Rims, C., Bloom, M. S., Bemis, E. A., Liu, S., Maerz, M. D., Frank, D. N., Demoruelle, et al
2022; 14 (668): eabn5166
- **Clonal IgA and IgG autoantibodies from individuals at risk for rheumatoid arthritis identify an arthritogenic strain of *Subdoligranulum*** *SCIENCE TRANSLATIONAL MEDICINE*
Chriswell, M. E., Lefferts, A. R., Clay, M. R., Hsu, A., Seifert, J., Feser, M. L., Rims, C., Bloom, M. S., Bemis, E. A., Liu, S., Maerz, M. D., Frank, D. N., Demoruelle, et al
2022; 14 (668)
- **Myeloablative autologous haematopoietic stem cell transplantation resets the B cell repertoire to a more naïve state in patients with systemic sclerosis.** *Annals of the rheumatic diseases*
Adamska, J. Z., Zia, A., Bloom, M. S., Crofford, L. J., Furst, D. E., Goldmuntz, E., Keyes-Elstein, L., Mayes, M. D., McSweeney, P., Nash, R. A., Pinckney, A., Welch, B., Love, et al
2022

- **RNA-seq characterization of histamine-releasing mast cells as potential therapeutic target of osteoarthritis.** *Clinical immunology (Orlando, Fla.)*
Zhao, X., Younis, S., Shi, H., Hu, S., Zia, A., Wong, H. H., Elliott, E. E., Chang, T., Bloom, M. S., Zhang, W., Liu, X., Lanz, T. V., Sharpe, et al
2022: 109117
- **Mechanism-driven strategies for prevention of rheumatoid arthritis.** *Rheumatology & autoimmunity*
Holers, V. M., Kuhn, K. A., Demoruelle, M. K., Norris, J. M., Firestein, G. S., James, E. A., Robinson, W. H., Buckner, J. H., Deane, K. D.
2022; 2 (3): 109-119
- **Rheumatoid Arthritis Patient-derived Anti-citrullinated Protein Antibodies (ACPAs) Ameliorate Joint Inflammation in Early Collagen-antibody Induced Arthritis (CAIA)**
Gomez, A., Brewer, C., Moon, J., Acharya, S., Lanz, T. V., Wang, Q., Min-Oo, G., Niedziela-Majka, A., Robinson, W.
WILEY.2022: 69-70
- **Reduction in Rheumatoid Arthritis-Associated Interstitial Lung Disease Risk in Patients Treated with Tofacitinib**
Baker, M., Liu, Y., Lu, R., Lin, J., Melehani, J., Robinson, W.
WILEY.2022: 4476-4478
- **Citrullinated Peptide-Specific ACPA Are Present in the Female Genital Tract in Premenopausal Women with and Without RA**
Marcy, D., Rothfuss, H., Visser, A., Norris, J., Holers, V., Deane, K. D., Robinson, W., Cherrington, B., Demoruelle, K.
WILEY.2022: 1214-1215
- **Clonally Expanded Cytotoxic CD8(+) T Cells Recognize Citrullinated Antigens in ACPA(+) Rheumatoid Arthritis**
Younis, S., Sharpe, O., Rao, N., Carman, J., James, E., Buckner, J., Deane, K. D., Holers, M., Donlin, L., Davis, M., Robinson, W.
WILEY.2022: 3435-3437
- **The Association Between Anti-Citrullinated Peptide Antibodies and Subclinical Interstitial Lung Disease in Community-Dwelling Adults: The Multi-Ethnic Study of Atherosclerosis**
Lanz, J., Hughes-Austin, J., Podolanczuk, A., Kim, J., Austin, J., Robinson, W., Raghu, G., Hoffman, E., Newell, J., Watts, J., Nath, P., Sonavane, S., Barr, et al
WILEY.2022: 2364-2366
- **An Expanded Anti-citrullinated Protein Antibody Profile Derived Using Unsupervised Machine Learning Predicts Treatment Responses to Biologic Therapies in Rheumatoid Arthritis**
Aripova, N., Reed, G., England, B., Robinson, W., Pappas, D., Kremer, J., Thiele, G., Mikuls, T.
WILEY.2022: 3185-3186
- **An Arthritogenic Strain of *Subdoligranulum* Specifically Detectable in the Feces of Individuals At-risk for and with Rheumatoid Arthritis Is Bound by ACPA and Stimulates Th17 Cell Activation in Those with Rheumatoid Arthritis**
Chriswell, M., Rims, C., Maerz, M., Hsu, A., Seifert, J., Feser, M., Bloom, M., Bemis, E., Demoruelle, K., Deane, K. D., Robinson, W., James, E., Buckner, et al
WILEY.2022: 1200-1202
- **Single-cell Profiling of B Cell Repertoire and Gene Expression in the RA Synovium Reveals Tissue Specific Clonal Expansion**
Wagner, A., Meednu, N., Dunlap, G., Zhang, F., Jonsson, A., Wei, K., Ben-Artzi, A., Forbess, L., Geraldino-Pardilla, L., Horowitz, D., Hughes, L., Mandelin, A., Salomon-Escoto, et al
WILEY.2022: 3239-3240
- **Mast Cells May Explain Sex Differences in Osteoarthritis Pain**
Mehta, B., DiCarlo, E., Wang, F., Otero, M., Song, E., Sculco, P., Figgie, M., Goodman, S., Robinson, W., Orange, D.
WILEY.2022: 3265-3267
- **CCP plus Immune Checkpoint Inhibitor Arthritis Patients Have Less ACPA Epitope Expansion Than CCP plus Rheumatoid Arthritis Patients**
Ghosh, N., Rajesh, D., Kirschmann, J., Jannat-Khah, D., Chan, K., Goodman, S., Bykerk, V., Robinson, W., Bass, A.
WILEY.2022: 1528-1530
- **Single-Cell Characterization of the TCR Repertoire Across Tissue and Blood in Rheumatoid Arthritis**
Dunlap, G., Wagner, A., Meednu, N., Jonsson, A., Zhang, F., Wei, K., Utz, P., Robinson, W., Maecker, H., James, J., Guthridge, J., Bridges, S., Donlin, et al
WILEY.2022: 3442-3444
- **SARS-CoV-2 infection of monocytes: balancing acts of antibodies and inflammasomes.** *Signal transduction and targeted therapy*
Brewer, R. C., Robinson, W. H., Lanz, T. V.
2022; 7 (1): 250

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