

# Stanford

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## Lauren Lahey

Ph.D. Student in Biophysics, admitted Autumn 2015

### Bio

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#### HONORS AND AWARDS

- ARCS Award, Kimball Foundation Scholar, Stanford University (2018-2020)
- Stanford Graduate Fellowship, Gabilan Fellow, Stanford University (2015-2018)
- Charles B. Peterson Award in Chemistry, Southern Methodist University (2008)
- Charles T. Kenner Award in Chemistry, Southern Methodist University (2008)
- Harold Jeskey Scholarship in Chemistry, Southern Methodist University (2008)
- American Chemical Society Analytical Award, Southern Methodist University (2007)
- Southern Methodist University Dean's Scholarship, Southern Methodist University (2004-2009)

#### EDUCATION AND CERTIFICATIONS

- PhD, Stanford University , Biophysics (2021)
- BS, Southern Methodist University , Chemistry (2009)

#### STANFORD ADVISORS

- Lingyin Li, Doctoral Dissertation Advisor (AC)

#### LINKS

- Lingyin Li Lab: <https://lingyinlilab.stanford.edu/>

### Publications

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#### PUBLICATIONS

- **Engineered DNA plasmid reduces immunity to dystrophin while improving muscle force in a model of gene therapy of Duchenne dystrophy.** *Proceedings of the National Academy of Sciences of the United States of America*  
Ho, P. P., Lahey, L. J., Mourkioti, F., Kraft, P. E., Filareto, A., Brandt, M., Magnusson, K. E., Finn, E. E., Chamberlain, J. S., Robinson, W. H., Blau, H. M., Steinman, L.  
2018
- **Development of a Multiantigen Panel for Improved Detection of *Borrelia burgdorferi* Infection in Early Lyme Disease** *JOURNAL OF CLINICAL MICROBIOLOGY*  
Lahey, L. J., Panas, M. W., Mao, R., Delanoy, M., Flanagan, J. J., Binder, S. R., Rebman, A. W., Montoya, J. G., Soloski, M. J., Steere, A. C., Dattwyler, R. J., Arnaboldi, P. M., Aucott, et al  
2015; 53 (12): 3834-3841
- **Combination of anti-citrullinated protein antibodies and rheumatoid factor is associated with increased systemic inflammatory mediators and more rapid progression from preclinical to clinical rheumatoid arthritis.** *Clinical immunology (Orlando, Fla.)*

Lingampalli, N., Sokolove, J., Lahey, L. J., Edison, J. D., Gilliland, W. R., Michael Holers, V., Deane, K. D., Robinson, W. H.

2018

- **Antibody Responses to Citrullinated and Noncitrullinated Antigens in the Sputum of Subjects With Rheumatoid Arthritis and Subjects at Risk for Development of Rheumatoid Arthritis** *ARTHRITIS & RHEUMATOLOGY*  
Demoruelle, M., Bowers, E., Lahey, L. J., Sokolove, J., Purmalek, M., Seto, N. L., Weisman, M. H., Norris, J. M., Kaplan, M. J., Holers, V., Robinson, W. H., Deane, K. D.  
2018; 70 (4): 516–27
- **Circulating plasmablasts are elevated and produce pathogenic anti-endothelial cell autoantibodies in idiopathic pulmonary arterial hypertension.** *European journal of immunology*  
Blum, L. K., Cao, R. R., Sweatt, A. J., Bill, M., Lahey, L. J., Hsi, A. C., Lee, C. S., Kongpachith, S., Ju, C. H., Mao, R., Wong, H. H., Nicolls, M. R., Zamanian, et al  
2018
- **Association Between Anti-Citrullinated Fibrinogen Antibodies and Coronary Artery Disease in Rheumatoid Arthritis.** *Arthritis care & research*  
Hejblum, B. P., Cui, J., Lahey, L. J., Cagan, A., Sparks, J. A., Sokolove, J., Cai, T., Liao, K. P.  
2018; 70 (7): 1113–17
- **Phenome-Wide Association Study of Autoantibodies to Citrullinated and Noncitrullinated Epitopes in Rheumatoid Arthritis.** *Arthritis & rheumatology (Hoboken, N.J.)*  
Liao, K. P., Sparks, J. A., Hejblum, B. P., Kuo, I. H., Cui, J., Lahey, L. J., Cagan, A., Gainer, V. S., Liu, W., Cai, T. T., Sokolove, J., Cai, T.  
2017; 69 (4): 742–49
- **Identification of KRT16 as a target of an autoantibody response in complex regional pain syndrome.** *Experimental neurology*  
Tajerian, M., Hung, V., Khan, H., Lahey, L. J., Sun, Y., Birklein, F., Krämer, H. H., Robinson, W. H., Kingery, W. S., Clark, J. D.  
2016; 287: 14-20
- **Elevated IgA Plasmablast Levels in Subjects at Risk of Developing Rheumatoid Arthritis.** *Arthritis & rheumatology*  
Kinslow, J. D., Blum, L. K., Deane, K. D., Demoruelle, M. K., Okamoto, Y., Parish, M. C., Kongpachith, S., Lahey, L. J., Norris, J. M., Robinson, W. H., Holers, V. M.  
2016; 68 (10): 2372-2383
- **CCL19 as a Chemokine Risk Factor for Posttreatment Lyme Disease Syndrome: a Prospective Clinical Cohort Study.** *Clinical and vaccine immunology*  
Aucott, J. N., Soloski, M. J., Rebman, A. W., Crowder, L. A., Lahey, L. J., Wagner, C. A., Robinson, W. H., Bechtold, K. T.  
2016; 23 (9): 757-766
- **Increased inflammation and disease activity among current cigarette smokers with rheumatoid arthritis: a cross-sectional analysis of US veterans.** *Rheumatology*  
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2016: -?
- **B cell depletion with rituximab in patients with rheumatoid arthritis: Multiplex bead array reveals the kinetics of IgG and IgA antibodies to citrullinated antigens** *JOURNAL OF AUTOIMMUNITY*  
Cambridge, G., Leandro, M. J., Lahey, L. J., Fairhead, T., Robinson, W. H., Sokolove, J.  
2016; 70: 22-30
- **Local Joint Inflammation and Histone Citrullination in a Murine Model of the Transition From Preclinical Autoimmunity to Inflammatory Arthritis** *ARTHRITIS & RHEUMATOLOGY*  
Sohn, D. H., Rhodes, C., Onuma, K., Zhao, X., Sharpe, O., Gazitt, T., Shiao, R., Fert-Bober, J., Cheng, D., Lahey, L. J., Wong, H. H., Van Eyk, J., Robinson, et al  
2015; 67 (11): 2877-2887
- **Identification of anticitrullinated protein antibody reactivities in a subset of anti-CCP-negative rheumatoid arthritis: association with cigarette smoking and HLA-DRB1 'shared epitope' alleles.** *Annals of the rheumatic diseases*  
Wagner, C. A., Sokolove, J., Lahey, L. J., Bengtsson, C., Saevarsdottir, S., Alfredsson, L., Delanoy, M., Lindstrom, T. M., Walker, R. P., Bromberg, R., Chandra, P. E., Binder, S. R., Klareskog, et al  
2015; 74 (3): 579-586
- **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

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- **Peptidylarginine Deiminase 4 Contributes to Tumor Necrosis Factor alpha-Induced Inflammatory Arthritis** *ARTHRITIS & RHEUMATOLOGY*  
Shelef, M. A., Sokolove, J., Lahey, L. J., Wagner, C. A., Sackmann, E. K., Warner, T. F., Wang, Y., Beebe, D. J., Robinson, W. H., Huttenlocher, A.  
2014; 66 (6): 1482-1491
  
  - **Rheumatoid Factor as a Potentiator of Anti-Citrullinated Protein Antibody-Mediated Inflammation in Rheumatoid Arthritis** *ARTHRITIS & RHEUMATOLOGY*  
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  - **Serum inflammatory mediators as markers of human lyme disease activity.** *PloS one*  
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  - **Brief report: citrullination within the atherosclerotic plaque: a potential target for the anti-citrullinated protein antibody response in rheumatoid arthritis.** *Arthritis and rheumatism*  
Sokolove, J., Brennan, M. J., Sharpe, O., Lahey, L. J., Kao, A. H., Krishnan, E., Edmundowicz, D., Lepus, C. M., Wasko, M. C., Robinson, W. H.  
2013; 65 (7): 1719-1724
  
  - **Multiple cytokines and chemokines are associated with rheumatoid arthritis-related autoimmunity in first-degree relatives without rheumatoid arthritis: Studies of the Aetiology of Rheumatoid Arthritis (SERA)** *ANNALS OF THE RHEUMATIC DISEASES*  
Hughes-Austin, J. M., Deane, K. D., Derber, L. A., Kolfenbach, J. R., Zerbe, G. O., Sokolove, J., Lahey, L. J., Weisman, M. H., Buckner, J. H., Mikuls, T. R., O'Dell, J. R., Keating, R. M., Gregersen, et al  
2013; 72 (6): 901-907
  
  - **Autoantibody Epitope Spreading in the Pre-Clinical Phase Predicts Progression to Rheumatoid Arthritis** *PLOS ONE*  
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  - **Plasma proteins present in osteoarthritic synovial fluid can stimulate cytokine production via Toll-like receptor 4** *ARTHRITIS RESEARCH & THERAPY*  
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