

# Curriculum Vitae

Last Updated: 08/04/2023

## **PERSONAL DATA**

Name: Lisa K. Peterson, Ph.D.

Citizenship: United States

## **EDUCATION**

<b><u>Years</u></b>	<b><u>Degree</u></b>	<b><u>Institution (Area of Study)</u></b>
2014 - 2016	Fellow	University of Utah School of Medicine (Clinical Immunology) Salt Lake City, UT
2007 - 2014	Postdoctoral Fellow	University of Colorado Denver/National Jewish Health (Immunology) Denver, CO
2001 - 2007	Ph.D.	University of Utah School of Medicine (Experimental Pathology) Salt Lake City, UT
1995 - 2000	B.S.	University of Utah (Biology; Chemistry Minor) Salt Lake City, UT

## **BOARD CERTIFICATIONS**

10/06/2016 - Present American Board of Medical Laboratory Immunology, Certified

## **CURRENT LICENSES/CERTIFICATIONS**

2016 - Present Wadsworth Center, New York: State Department of Health/Certificate of Qualification (NY) - Laboratory Director

## **UNIVERSITY OF UTAH ACADEMIC HISTORY**

### **Pathology (Clinical Pathology), 07/01/2016 - Present**

07/01/2022 Associate Professor (Clinical)  
12/01/2016 - 06/30/2022 Assistant Professor (Clinical)  
07/01/2016 - 11/30/2016 Instructor (Clinical)

## **PROFESSIONAL EXPERIENCE**

### **Part-Time Positions**

2001 Teaching Assistant, University of Utah, Salt Lake City, UT  
2000 Research Assistant, University of Utah, Salt Lake City, UT  
1999 - 2000 Undergraduate Research Assistant, University of Utah, Salt Lake City, UT

### **Editorial Experience**

2022 - Present Editorial Board for the Journal of Immunological Methods  
2022 Guest Editor for Special Issue of the Journal of Applied Laboratory Medicine on Autoimmune Diagnostics.

### **Reviewer Experience**

Ad Hoc Reviewer for Journal of Neurology

Reviewer for ASCP Case Reports  
 Reviewer for Advances in Clinical Chemistry  
 Reviewer for Archives of Pathology & Laboratory Medicine  
 Reviewer for Case Reports in Immunology  
 Reviewer for Clinica Chimica Acta  
 Reviewer for Clinical Biochemistry  
 Reviewer for Journal of Clinical Immunology  
 Reviewer for Journal of Immunological Methods  
 Reviewer for Lab Medicine  
 Reviewer for Vaccine  
 Reviewer for the Journal of Applied Laboratory Medicine

### **SCHOLASTIC HONORS**

2021 - Present	Outstanding Teaching Award in Clinical Pathology
2016	Doctorate Award, Association of Medical Laboratory Immunologists 2016 Meeting, Pittsburgh, PA, USA
2015	William L. Roberts Memorial Fund Award, ARUP Institute for Clinical and Experimental Pathology/Department of Pathology, University of Utah, Salt Lake City, UT
2015	Association of Medical Laboratory Immunologists (AMLI) Travel Scholarship, AMLI Annual Meeting, New Orleans, LA
2013	Young Investigator Award, Colorado Immunology Conference, American Association of Immunologists, Vail, CO
2012	Postdoctoral Fellowship, Arthritis National Research Foundation
2012	Sontag Foundation Fellow Award, Arthritis National Research Foundation
2011	Fellowship, Easton M. Crawford Charitable Lead Unitrust
2010	Notable Poster Award, American College of Rheumatology Meeting, Atlanta, GA
2009	Postdoctoral Fellowship, Arthritis Foundation
2009	Philip S. Magaram Esq. Research Award, Arthritis Foundation
2005	Keystone Symposia Scholarship, Keystone Conference on Central Nervous System Inflammation, Snowbird, UT
2004	Weber Immunology Travel Award, Federation of American Societies for Experimental Biology (FASEB) Conference on Neuro-Immune Interactions, Tucson, AZ
2004	University of Utah Graduate Travel Award, Federation of American Societies for Experimental Biology (FASEB) Conference on Neuro-Immune Interactions, Tucson, AZ
1995	Honors at Entrance Scholarship, University of Utah, Salt Lake City, UT

### **ADMINISTRATIVE EXPERIENCE**

#### **Professional Organization & Scientific Activities**

2023 - Present	Committee Chair, Association of Medical Laboratory Immunologists, Chair, Continuing Education Committee
----------------	---

2022 - Present	Reviewer, American Association of Clinical Chemists, Poster Abstract Reviewer for AACC Annual Scientific Meeting
2021 - 2022	Committee Member, Association of Medical Laboratory Immunologists, Member, Continuing Education Committee
2021 - 2022	Reviewer, Association of Medical Laboratory Immunologists, Poster Abstract Reviewer for AMLI Annual Scientific Meeting
2020 - 2022	Secretary, Association of Medical Laboratory Immunologists
2019 - 2022	Chair & Member, Association of Medical Laboratory Immunologists, Membership Committee
2019 - 2020	Secretary-Elect, Association of Medical Laboratory Immunologists, Secretary Elect
2017	Reviewer, Association of Medical Laboratory Immunologists, Poster Abstract Reviewer for AMLI Annual Scientific Meeting
2016 - Present	Member, Association of Medical Laboratory Immunologists, Scientific Affairs Committee
2015 - 2019	Member, Association of Medical Laboratory Immunologists, Membership Committee

### **PROFESSIONAL COMMUNITY ACTIVITIES**

2015	CAP Inspector, Arkansas Children's Hospital, External inspection of immunology and flow cytometry labs
------	--

### **UNIVERSITY COMMUNITY ACTIVITIES**

#### **College Level**

2017 - Present	Reviewer, School of Medicine Admissions Committee, Standardized Video Interview Reviewer
----------------	--

#### **Department Level**

2022 - Present	Ad Hoc Committee Member, Pathology, Review the Department FARA files every year and make recommendations to the DAC (Department Advisory Committee).
2020 - Present	Applicant Interviewer, Pathology, Pathology Residency Applicant Interviewer
2018 - Present	Search Committee, Pathology, Clinical Immunology
2017 - 2018	Search Committee, Pathology, Clinical Chemistry

#### **Programs, Centers & Institutes**

2002 - 2003	Member, Molecular Biology Program, PhD/Graduate Student Advisory Committee
-------------	--

### **CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

American Academy of Neurology  
 American Association for Clinical Chemistry  
 American Society for Microbiology  
 Association of Medical Laboratory Immunologists  
 Clinical Immunology Society

### **TEACHING RESPONSIBILITIES/ASSIGNMENTS**

### **Courses Directed**

2016 - Present	Immunology Case Review, monthly review of cases from the Pathologist on Call service, Department of Pathology, clinical chemistry fellows and pathology residents, 6-8 trainees per month
2016 - Present	Autoimmune Neurology Laboratory Rotation, Departments of Neurology and Pathology, one month rotation, Autoimmune Neurology fellow, 1-2 trainees per year
2017 - Present	Clinical Immunology Rotation, Department of Pathology, one month rotations, pathology residents, clinical chemistry fellows and pathology graduate students, 6-12 trainees per year
2020 - Present	Immunology Case Conference, monthly presentation of cases from the Pathologist on Call service by clinical immunology fellows, Department of Pathology, clinical immunology fellows, clinical chemistry fellows, pathology residents, clinical immunology medical directors, clinical chemistry medical directors, and client service specialists involved in Pathologist on Call service, 6-8 trainees per month
2023 - Present	Autoimmune Neurology Laboratory Rotation for visiting fellows from the Department of Neurology at the University of Colorado, two-week rotation, Autoimmune Neurology fellow, 1-2 trainees per year

### **Course Lectures**

Spring 2021	Instructor, PATH-6900: Techniques In Lab Med, 36 students, University of Utah, MD, Instructor, PATH 6900: Techniques in Laboratory Medicine, University of Utah, Pathology. Annual course (1 lecture: Immunofluorescence Techniques; Master's level students and fellows, approximately 10 students per year
-------------	--

### **Clinical Teaching**

2022 - Present	ANCA-Associated Vasculitis Lecture, Department of Pathology, 1 hour lecture during Immunology rotation for pathology residents, clinical chemistry fellows and pathology graduate students, 6-12 trainees per year
2021	Autoimmune Liver Disease Lecture, Department of Pathology, 1 hour lecture during Immunology rotation for pathology residents, clinical chemistry fellows and pathology graduate students, 6-12 trainees per year
2018 - Present	Cellular Immunology Lectures, Department of Pathology, 3 one hour lectures during Cellular Immunology rotation for clinical immunology fellows, 1-2 trainees every other year
2018 - Present	Autoimmune Neurology Lectures, Department of Pathology, 3 one hour lectures during Autoimmune Serology rotation for clinical immunology fellows, 1-2 trainees every other year
2017 - Present	Cellular Immunology Lectures, Department of Pathology, 2 hours of lecture given during the Immunology rotation for pathology residents, clinical chemistry fellows and pathology graduate students, 6-12 trainees per year
2016 - Present	Autoimmune Neurology Lecture, Department of Pathology, 1 hour lecture during Immunology and Autoimmune Neurology Laboratory rotations, 8-14 trainees per year
2016 - Present	Immunology Lectures during the Clinical Chemistry Introductory Rotation, Department of Pathology, 3 hours of lecture yearly during the month of July, clinical chemistry fellows, 2-4 trainees

### **Laboratory Teaching**

- 2003 Molecular Evolution Lab, University of Utah, Led experimental sessions and graded homework, exams and laboratory notebooks for an undergraduate level laboratory course
- 2001 Molecular Evolution Lab, University of Utah, Led experimental sessions and graded homework, exams and laboratory notebooks for an undergraduate level laboratory course

### **Small Group Teaching**

- 2009 - 2011 Small Group Leader, Immunodeficiency, University of Colorado Denver, 2-hour sessions for first year medical students
- 2008 Small Group Leader, Systemic Onset Juvenile Idiopathic Arthritis, University of Colorado Denver, 4-hour session for fourth year medical students

### **Mentoring/Advising**

#### Fellow

- 2019 - 2020 Advisor/Mentor, Anu Maharjan, University of Utah, Acting Assistant Medical Directorship in Cellular Immunology  
*Trainee's Current Career Activities:* Assistant Professor (Clinical) at the University of Connecticut Health Sciences Center

#### Resident

- 2018 - 2019 Advisor/Mentor, Joshua Klonoski, University of Utah, Acting Assistant Medical Directorship in Clinical Immunology  
*Trainee's Current Career Activities:* Pathology Resident PGY4

#### PhD/Doctorate

- 2012 Mentor, Elizabeth Cheney, University of Colorado Denver/National Jewish Health, Graduate student rotation (8/12-11/12)
- 2011 Mentor, Kathryn Tuttle, University of Colorado Denver/National Jewish Health, Graduate student rotation (12/10-2/11)
- 2010 Mentor, Nathan Pennock, University of Colorado Denver/National Jewish Health, Graduate student rotation (11/09-2/10)
- 2009 Mentor, Courtney Fleenor, University of Colorado Denver/National Jewish Health, Graduate student rotation (11/08-2/09)
- 2008 Mentor, Staci Kearney, University of Colorado Denver/National Jewish Health, Graduate student rotation (6/08-8/08)

#### MD, PhD

- 2009 Mentor, Daphne Moutsoglou, University of Colorado Denver/National Jewish Health, Graduate student rotation (6/09-8/09)
- 2007 - 2013 Mentor, Samantha Friend, University of Colorado Denver/National Jewish Health, Medical Scientist Training Program (MSTP) student

#### Medical Student

2007 Mentor, Daniel Wells, University of Colorado Denver/National Jewish Health, AF/REF Medical Student Research Preceptorship

#### Undergraduate

2013 Mentor, Catherine McDermott, University of Colorado Denver/National Jewish Health, Undergraduate Summer Researcher (6/13-8/13)

2009 Mentor, Samiat Agunbiade, University of Colorado Denver/National Jewish Health, Undergraduate Summer Researcher (5/09-8/09)

#### **Graduate Student Committees**

2023 - Present Member, Ryley Peabody, University of Utah

#### **Internal Teaching Experience**

2003 Immunological Contributions Leading to Progressive vs. Relapsing Remitting EAE, Multiple Sclerosis Retreat for Trainees and Mentors, University of Utah, Park City, UT

#### **Additional Teaching Contribution**

2017 - Present Course director for ARUP Institute For Learning ([www.arup.utah.edu](http://www.arup.utah.edu))

#### **PEER-REVIEWED JOURNAL ARTICLES**

1. Smith TL, Haven TR, Zuromski LM, Luong K, Clardy SL, **Peterson LK**. (2023). High level of agreement in a fixed vs live cell-based assay for antibodies to myelin oligodendrocyte glycoprotein in a real-world clinical laboratory setting. *Front Neurol*, 14, 1192644.
2. Tebo AE, **Peterson LK**, Snyder MR, Lebiedz-Odrobina D (2023). Clinical Significance of Anti-U1 Ribonucleoprotein Antibody Is Analyte Dependent: Implications for Laboratory Reporting, Interpretation, and Interassay Correlations.(Epub ahead of print). *Arch Pathol Lab Med*.
3. **Peterson LK** (2022). Application of vaccine response in the evaluation of patients with suspected B-cell immunodeficiency: Assessment of responses and challenges with interpretation. *J Immunol Methods*, 510, 113350.
4. Kulasingam V, Booth RA, **Peterson LK**, Snyder MR (2022). The Journal of Applied Laboratory Medicine Special Issue on Autoimmune Diagnostics. *J Appl Lab Med*, 7(1), 1-2.
5. Williams JP, Abbatemarco JR, Galli JJ, Rodenbeck SJ, **Peterson LK**, Haven TR, Street M, Rose JW, Greenlee JE, Soldan MMP, Clardy SL (2021). Aquaporin-4 Autoantibody Detection by ELISA: A Retrospective Characterization of a Commonly Used Assay. *Mult Scler Int*, 2021, 8692328.
6. Lozier BK, Haven TR, Tebo AE, **Peterson LK** (2021). Performance evaluation of a radioimmunoprecipitation assay for the detection of N-type voltage-gated calcium channel antibodies. *J Immunol Methods*, 496, 113102.
7. Izadi N, Knight V, Strand M, Hill HR, **Peterson LK**, Hauk PJ (2021). An enzyme-linked immunospot assay to evaluate Pneumovax response when on intravenous immunoglobulin. *Ann Allergy Asthma Immunol*, 128, 61-67.e4.
8. Liu BM, Martins TB, **Peterson LK**, Hill HR (2021). Clinical significance of measuring serum cytokine levels as inflammatory biomarkers in adult and pediatric COVID-19 cases: A review. *Cytokine*, 142, 155478.

9. Knight V, Askar MZ, Ntrivalas E, Nandiwada SL, **Peterson LK**, Tebo AE, Kadkhoda K, Schmitz JL, Naides SJ, Snyder MR, Sadighi Akha AA (2021). Highlights of the 33rd annual scientific meeting of the Association of Medical Laboratory Immunologists (AMLI). *J Immunol Methods*, 492, 112994.
10. Jaffe SL, Carlson NG, **Peterson LK**, Greenlee JE (2021). Treatment-responsive primary autoimmune cerebellar ataxia in a patient with IgG and IgM anticerebellar antibodies. *Eur J Neurol*, 28(5), 1771-1773.
11. Tebo AE, Schmidt RL, Kadkhoda K, **Peterson LK**, Chan EKL, Fritzler MJ, Wener MH (2021). The antinuclear antibody HEp-2 indirect immunofluorescence assay: a survey of laboratory performance, pattern recognition and interpretation. *Auto Immun Highlights*, 12(1), 4.
12. **Peterson LK**, Tebo AE, Wener MH, Coppole SS, Fritzler MJ (2020). Assessment of antinuclear antibodies by indirect immunofluorescence assay: report from a survey by the American Association of Medical Laboratory Immunologists. *Clin Chem Lab Med*, 58(9), 1489-1497.
13. Ravkov EV, Charlton CM, Barker AP, Hill H, **Peterson LK**, Slev P, Tebo A, Voelkerding KV, Wittwer CT, Heikal N, Delgado JC, Lázár-Molnár E, Kumánovics A (2019). Evaluation of Mass Cytometry in the Clinical Laboratory. *Cytometry B Clin Cytom*, 96(4), 266-274.
14. Stefanski AL, Martinez N, **Peterson LK**, Callahan TJ, Treacy E, Luck M, Friend SF, Hermes A, Maltepe E, Phang T, Dragone LL, Winn VD. (2019). Murine trophoblast-derived and pregnancy-associated exosome-enriched extracellular vesicle microRNAs: Implications for placenta driven effects on maternal physiology. *PLoS One*, 14(2), e0210675.
15. Tuttle KD, Krovi SH, Zhang J, Bedel R, Harmacek L, **Peterson LK**, Dragone LL, Lefferts A, Halluszczak C, Riemondy K, Hesselberth JR, Rao A, O'Connor BP, Marrack P, Scott-Browne J, Gapin L (2018). TCR signal strength controls thymic differentiation of iNKT cell subsets. *Nat Commun*, 9(1), 2650.
16. **Peterson LK**, Jaskowski TD, La'ulu SL, Tebo AE (2018). Antibodies to small ubiquitin-like modifier activating enzyme are associated with a diagnosis of dermatomyositis: results from an unselected cohort. *Immunol Res*, 66(3), 431-436.
17. Kushnir MM, **Peterson LK**, Strathmann FG (2018). Parathyroid hormone related protein concentration in human serum and CSF correlates with age. *Clin Biochem*, 52, 56-60.
18. Nandiwada SL, **Peterson LK**, Mayes MD, Jaskowski TD, Malmberg E, Assassi S, Satoh M, Tebo AE (2016). Ethnic Differences in Autoantibody Diversity and Hierarchy: More Clues from a US Cohort of Patients with Systemic Sclerosis. *J Rheumatol*, 43(10), 1816-1824.
19. **Peterson LK**, Jaskowski TD, Mayes MD, Tebo AE (2016). Detection of anti-U3-RNP/fibrillarin IgG antibodies by line immunoblot assay has comparable clinical significance to immunoprecipitation testing in systemic sclerosis. *Immunol Res*, 64(2), 483-8.
20. **Peterson LK**, Willis R, Harris EN, Branch WD, Tebo AE (2016). Antibodies to Phosphatidylserine/Prothrombin Complex in Antiphospholipid Syndrome: Analytical and Clinical Perspectives. *Adv Clin Chem*, 73, 1-28.
21. **Peterson LK**, Pennington LF, Shaw LA, Brown M, Treacy EC, Friend SF, Hatlevik O, Rubtsova K, Rubtsov AV, Dragone LL (2014). SLAP deficiency decreases dsDNA autoantibody production. *Clin Immunol*, 150(2), 201-9.
22. Friend SF, **Peterson LK**, Kedl RM, Dragone LL (2013). SLAP deficiency increases TCR avidity leading to altered repertoire and negative selection of cognate antigen-specific CD8+ T cells. *Immunol Res*, 55(1-3), 116-24.
23. Friend SF, **Peterson LK**, Treacy E, Stefanski AL, Sosinowski T, Pennock ND, Berger AJ, Winn VD, Dragone LL (2013). The discovery of a reciprocal relationship between tyrosine-kinase signaling and cullin neddylation. *PLoS One*, 8(10), e75200.

24. Shaw LA, Stefanski AL, **Peterson LK**, Rumer KK, Vondracek A, Phang TL, Sakaguchi S, Winn VD, Dragone LL (2012). Pregnancy amelioration of arthritis in SKG mice corresponds with alterations in serum amyloid A3 levels. *Am J Clin Exp Immunol*, 1(1), 12-19.
25. **Peterson LK**, Shaw LA, Joetham A, Sakaguchi S, Gelfand EW, Dragone LL (2011). SLAP deficiency enhances number and function of regulatory T cells preventing chronic autoimmune arthritis in SKG mice. *J Immunol*, 186(4), 2273-81.
26. **Peterson LK**, Wells D, Shaw L, Velez MG, Harbeck R, Dragone LL (2009). Novel method for quantitative ANA measurement using near-infrared imaging. *J Immunol Methods*, 349(1-2), 1-8.
27. **Peterson LK**, Masaki T, Wheelwright SR, Tsunoda I, Fujinami RS (2008). Cross-reactive myelin antibody induces renal pathology. *Autoimmunity*, 41(7), 526-36.
28. **Peterson LK**, Tsunoda I, Fujinami RS (2008). Role of CD5+ B-1 cells in EAE pathogenesis. *Autoimmunity*, 41(5), 353-62.
29. **Peterson LK**, Tsunoda I, Libbey JE, Fujinami RS (2008). Role of B:T cell ratio in suppression of clinical signs: a model for silent MS. *Exp Mol Pathol*, 85(1), 28-39.
30. **Peterson LK**, Fujinami RS (2007). Inflammation, demyelination, neurodegeneration and neuroprotection in the pathogenesis of multiple sclerosis. *J Neuroimmunol*, 184(1-2), 37-44.
31. **Peterson LK**, Tsunoda I, Masaki T, Fujinami RS (2007). Polyreactive myelin oligodendrocyte glycoprotein antibodies: Implications for systemic autoimmunity in progressive experimental autoimmune encephalomyelitis. *J Neuroimmunol*, 183(1-2), 69-80.
32. Libbey JE, **Peterson LK**, Tsunoda I, Fujinami RS (2006). Monoclonal MOG-reactive autoantibody from progressive EAE has the characteristics of a natural antibody. *J Neuroimmunol*, 173(1-2), 135-45.

### **NON PEER-REVIEWED JOURNAL ARTICLES**

1. Kushnir MM, **Peterson LK**, Strathman FG (2020). Parathyroid hormone-related protein in cerebrospinal fluid in health and disease. *January 2020*, 16-18.

### **REVIEW ARTICLES**

1. Walker BS, **Peterson LK**, Koenig C, White SK, Schmidt RL, Tebo AE (2022). Performance of MPO-ANCA and PR3-ANCA immunoassays for the stratification of specific ANCA-associated vasculitis: A systematic review and meta-analysis. [Review]. *Autoimmun Rev*, 21, (6), 103100.
2. Friend SF, Deason-Towne F, **Peterson LK**, Berger AJ, Dragone LL (2014). Regulation of T cell receptor complex-mediated signaling by ubiquitin and ubiquitin-like modifications. [Review]. *Am J Clin Exp Immunol*, 3, (3), 107-23.

### **BOOK CHAPTERS**

1. Haven TR, **Peterson LK**. (2021). Antibody Detection Methods for Neuronal Autoantibodies and Introduction to Antibody Pathogenesis. In Piquet AL, Alvarez E. (Eds.), *Neuroimmunology: Multiple Sclerosis, Autoimmune Neurology and Related Diseases* (1st, pp. 15-28). Springer.
2. **Peterson LK**, Fujinami RS (2006). Molecular Mimicry. In *Autoantibodies* (2nd Edition, pp. 13-19). Elsevier B.V.

### **ADDITIONAL PUBLICATIONS**

#### **Others**

1. **Peterson LK**, Tebo AE (2017). Autoantibody Testing in Myositis. *LabQ* (2017). American Society for Clinical Pathology.



## **POSTER PRESENTATIONS**

- 2023 Luong K, Lozier BK, Novis C, Smith TL, **Peterson LK**. Comparison of three methods for the detection of antibodies against muscle-specific kinase. Poster presented at the 2023 American Association of Clinical Chemistry (AACC) Annual Meeting in Anaheim, CA
- 2023 Smith TL, Wong, K, **Peterson L**, Carlson N, Rose J, Horvat DE, Pittock SJ, Tagg NT, Clardy SL. Presymptomatic AQP4 autoantibody seropositivity in NMOSD: Analysis of the Department of Defense serum biorepository (DoDSR). Oral presentation at the 2023 American Academy of Neurology (AAN) Annual Meeting, Boston, MA.
- 2022 Smith TL, Haven TR, Zuromski LM, Liu S, Wright M, Clardy SL, **Peterson LK**. Agreement between fixed and live cell-based assays for anti-MOG in a clinical reference laboratory. Poster presented at the 2022 American Neurological Association Annual Meeting, Chicago, IL.
- 2022 Braun K, **Peterson LK**, Snyder MR, Lebiedz-Odrobina D, Tebo AE. Determination of Ro52 and Ro60 Antibodies in Patients At-Risk for Connective Tissue Disease: A Comparative Study. Poster presented at the 2022 Association of Medical Laboratory Immunologists Annual Meeting, Salt Lake City, UT.
- 2022 Tebo AE, Peterson LK, Jaskowski TD, Sales S, Knapp D, Craig C, Snyder MR, Lebiedz-Odrobina D. Analyte Dependent Performance Characteristics of Immunoassays for the Detection of U1RNP Antibody: Implications for Reporting, Interpretation, and Utilization. Poster presented at the 2022 Association of Medical Laboratory Immunologists Annual Meeting, Salt Lake City, UT.
- 2022 Smith TL, Haven TR, Zuromski LM, **Peterson LK**. Detection of Myelin Oligodendrocyte Glycoprotein Antibodies. Poster presented at the 2022 Association of Medical Laboratory Immunologists Annual Meeting, Salt Lake City, UT.
- 2022 Novis CL, **Peterson LK**. Method Comparison Study of a Novel Commercially Available ELISA versus the Traditional Radioactive Assay for the Detection of Autoantibodies Against MuSK. Poster presented at the 2022 Association of Medical Laboratory Immunologists Annual Meeting, Salt Lake City, UT.
- 2022 Moyle KA, **Peterson LK**, Guerra MM, Allshouse AA, Benson AE, Salmon JE, Branch DW. Anti-Domain 1 Antiphospholipid Antibodies as a Marker for Adverse Pregnancy Outcomes in SLE and APS. Poster presented at the 2022 Association of Medical Laboratory Immunologists Annual Meeting, Salt Lake City, UT.
- 2022 Martins TB, Hill HR, **Peterson LK**. Reevaluating Pneumococcal Polysaccharide Vaccine Response in Assessing Immunocompetence. Poster presented at the 2022 Association of Medical Laboratory Immunologists Annual Meeting, Salt Lake City, UT.
- 2022 Moyle KA, **Peterson LK**, Guerra MM, Allshouse AA, Benson AE, Salmon JE, Branch DW. Anti-Domain1 Antiphospholipid Antibodies as a Marker for Adverse Pregnancy Outcomes in SLE and APS. Oral presentation at the International Congress on Antiphospholipid Antibodies (ICAPA) meeting in Cordoba, Argentina, 2022. Received the Silvia Pierangli Young Scholarship Award from the APS Foundation of America.

- 2022 Liu S, Wright M, Wong K, Mizenko C, Kammeyer R, Schreiner T, Kadish R, Smith T, Galli J, Klein J, Greenlee J, Rose J, Paz Soldan M, Bennett J, Bonkowsky J, **Peterson L**, Piquet A, Clardy S. MOGAD in the Mountain West: Epidemiology and Outcomes in Pediatric and Adult Patients at Two Large Academic Referral Centers. Poster presented at the American Academy of Neurology (AAN) 2022 Annual Meeting, Seattle, WA.
- 2022 Rodenbeck S, Abbatemarco J, Poon JT, Liu S, Paz Soldan MM, Greenlee J, Rose J, **Peterson LK**, Johnson LJ, Clardy SL. Matched or Unique Cerebrospinal Fluid Oligoclonal Bands: Clinical Characteristics and Diagnostic Utility. Oral presentation at the American Academy of Neurology (AAN) 2022 Annual Meeting, Seattle, WA.
- 2021 Haven TR, Lozier BK, Tebo AE, **Peterson LK**. Performance Characteristics of a Radioimmunoprecipitation Assay for the Detection of Ganglionic Acetylcholine Receptor Antibodies. Poster session presented at the American Academy of Neurology 2021 Virtual Meeting Website.
- 2020 Pritchett Q, Overbury R, Lebiez-Odrobina D, Clardy SL, Thomas J, Braaten TJ, Martins TB, Elgort M, Spivak ES, Slev P, **Peterson LK**, Frech T. Assessing Cytokine Profiles and COVID Serology in Patients on Immunosuppression to Guide Care Recommendations. Poster session presented at American College of Rheumatology 2020 Annual Meeting, Virtual Meeting Website.
- 2020 Martins TB, Hill HR, Shah SS, **Peterson LK**. Specimen Type Validation and Establishment of Normal Cytokine Reference Intervals in Cerebrospinal Fluid. Poster presented at the Association of Medical Laboratory Immunologists 2020 Virtual Meeting and on the meeting website.
- 2020 Haven TR, Lozier BK, Tebo AE, **Peterson LK**. Evaluation of a Radioimmunoprecipitation Assay for the Detection of Ganglionic Acetylcholine Receptor Antibodies. Poster presented at Association of Medical Laboratory Immunologists 2020 Virtual Meeting and on the meeting website.
- 2020 Maharjan AS, Basker J, Hansen B, Willcox T, Martins TB, Pavlov I, Bandhauer M, **Peterson LK**. Evaluation of a liposome-based turbidimetric assay for measurement of total complement activity. Poster presented on the Association of Medical Laboratory Immunologists 2020 Virtual Meeting Website.
- 2020 - 2021 Haven TR, Klonowski JM, **Peterson LK**. Autoantibody Prevalence in Cerebrospinal Fluid in Autoimmune Encephalitis and Related Disorders: The Need for a More Targeted Screening Approach. Poster presentation on the American Academy of Neurology 2020 Meeting Website.
- 2020 - 2021 Lozier BK, Haven TR, Reynolds M, Grow C, Tebo AE, **Peterson LK**. Performance Evaluation of a Radioimmunoprecipitation Assay for the Detection of N-Type Voltage-gated Calcium Channel Antibodies in Patient and Control Groups. Poster presented on the American Academy of Neurology 2020 Meeting website.
- 2019 Ravkov EV, Charlton CM, Barker AP, Hill H, **Peterson LK**, Slev P, Tebo A, Voelkerding K, Wittwer CT, Heikal N, Delgado JC, Lázár-Molnár E, Kumánovics A. Evaluation of mass cytometry in the clinical laboratory. Poster session presented at the International Clinical Cytometry Society Annual Meeting, Atlanta, GA.
- 2019 Haven TR, Klonowski JM, **Peterson LK**. Autoantibody Prevalence in Cerebrospinal Fluid in Autoimmune Neurologic Syndromes and Related Diseases. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, Cleveland, OH.

- 2019 Lozier BK, Haven TR, Reynolds M, Grow C, Tebo AE, **Peterson LK**. Evaluation of a Radioimmunoprecipitation Assay for the Detection of N-Type Voltage-Gated Calcium Channel Antibodies. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, Cleveland, OH.
- 2019 Galli JR, Piquet A, Kresser J, Klein J, Warner J, Digre K, **Peterson LK**, Tebo AE, Haven TR, M. Soldan MP, Rose J, Greenlee J, Clardy SLGAD65 and Glycine Receptor-Associated Neurologic Autoimmunity and Stiff-Person Syndrome within the University of Utah Health Care System. Poster session presented at American Academy of Neurology Annual Meeting, Pittsburgh, PA.
- 2018 Haven TR, **Peterson LK**. *A retrospective evaluation of aquaporin-4 antibody testing*. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, Scottsdale, AZ.
- 2018 Martins TB, Hill HR, **Peterson LK**. *Evaluation of an Alternative Haemophilus Influenzae Type B Antigen for Measuring Vaccine Response in a Multiplexed Assay*. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, Scottsdale, AZ.
- 2018 Jaskowski TD, Knapp DD, Stromberg B, **Peterson LK**, Tebo AE. *Assessment of an Automated Indirect Immunofluorescence Reader for the Detection and Reporting of Antinuclear Antibodies*. Poster session presented at 11th International Congress on Autoimmunity, Lisbon, Portugal.
- 2018 Williams JP, Street M, Badger JK, **Peterson LK**, Greenlee J, Carlson NG, Rose JW, Paz Soldan MM, Clardy SL.. *Characterization and Alternative Diagnoses in Patients with False-Positive Aquaporin-4 Autoantibody Detection by Enzyme Linked Immunosorbent Assay (ELISA)*. Poster session presented at American Academy of Neurology Annual Meeting, Los Angeles, CA.
- 2018 Martins TB, Pasi BM, **Peterson LK**, Hill HR. *Establishment of Normal Cytokine Reference Intervals in Cerebral Spinal Fluid for Potential Biomarker Discovery in Neuroinflammatory Disorders*. Poster session presented at Western Medical Research Conference Annual Meeting, Carmel, CA.
- 2017 Haven TR, **Peterson LK**, Lozier BK, Cromar A, Hill HR. *Improvements in the detection of acetylcholine receptor antibodies*. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, Denver, CO.
- 2017 Jaskowski TD, Knapp DD, Stromberg B, **Peterson LK**, Tebo AE. *Evaluation of an Automated System for Detecting Antinuclear Antibodies by Indirect Immunofluorescence*. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, Denver, CO.
- 2017 Kish-Trier E, Ravkov E, Barker A, Couturier M, Delgado J, Heikal N, Hill H, Lazar-Molnar E, **Peterson LK**, Slev P, Tebo A, Voelkerding K, Kumanovics A. *Preliminary Evaluation of a Mass Cytometry Instrument at ARUP Laboratories*. Poster session presented at Mass Spectrometry Applications to the Clinical Lab, Palm Springs, CA.
- 2016 **Peterson LK**, Jaskowski TD, Tebo AE. *Antibodies to Small Ubiquitin-like Modifier Activating Enzyme: Frequency and Characteristics of Antibody-positive Patients in an Unselected Cohort*. Poster session presented at American College of Rheumatology Conference, Washington, DC.

- 2016 **Peterson LK**, Jaskowski TD, Tebo AE. *Detection of SAE Antibodies by Line Immunoblot Assay and Immunoprecipitation in Dermatomyositis*. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, Pittsburgh, PA.
- 2015 **Peterson LK**, Lozier BL, Hill HR. *Optimizing the Dihydrorhodamine (DHR) Neutrophil Oxidative Burst Assay to Decrease the Number of Indeterminate Results*. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, New Orleans, LA.
- 2015 Jaskowski, TD, **Peterson LK**, Mayes, MD, Tebo AE. *Prevalence of IgG Anti-U3-RNP/Fibrillarin in Systemic Sclerosis Patients Having Negative Results for Other Markers*. Poster session presented at Association of Medical Laboratory Immunologists Annual Meeting, New Orleans, LA.
- 2013 **Peterson LK**, Sokolove J, Lahey LJ, Jedlicka P, Robinson WH, Dragone LL. *Role of B cells and/or autoantibodies in pulmonary manifestations of inflammatory arthritis*. Poster session presented at American College of Rheumatology Conference, San Diego, CA.
- 2013 **Peterson LK**, Sokolove J, Lahey LJ, Jedlicka P, Robinson WH, Dragone LL. *Role of B cells and/or autoantibodies in pulmonary manifestations of inflammatory arthritis*. Poster session presented at American College of Rheumatology/Arthritis Foundation Rheumatology Research Workshop, Dallas, TX.
- 2012 Stefanski AL, Shaw LA, **Peterson LK**, Sakaguchi S, Winn VD, Dragone LL. *Pregnancy amelioration of arthritis in SKG mice correspond with SAA3 levels*. Poster session presented at 4th Annual National Clinical and Translational Sciences Predoctoral Programs Meeting at the Mayo Clinic, Rochester, MN.
- 2011 **Peterson LK**, Shaw LA, Joetham A, Sakaguchi S, Gelfand E, Dragone LL. *SLAP deficiency enhances number and function of Foxp3<sup>+</sup> Tregs inhibiting chronic arthritis in SKG mice*. Poster session presented at Keystone Conference on Immunoregulatory Networks, Breckenridge, CO.
- 2010 **Peterson LK**, Shaw LA, Pennington LF, Dragone, LL. *SLAP deficiency alters both central and peripheral B cell tolerance leading to decreased autoantibody production in two mouse models of autoimmunity*. Poster session presented at American College of Rheumatology Conference, Atlanta, GA.
- 2010 **Peterson LK**, Shaw LA, Pennington LF, Dragone, LL. *SLAP deficiency decreases autoantibody production in two mouse models of lupus-like autoimmunity*. Poster session presented at Keystone Conference on Tolerance and Autoimmunity, Taos, NM.
- 2010 **Peterson LK**, Shaw LA, Pennington LF, Sakaguchi S, Joetham A, Gelfand E, Dragone LL. *Loss of SLAP expression in SKG mice leads to the prevention of chronic arthritis by enhancing Treg numbers*. Poster session presented at Keystone Conference on Tolerance and Autoimmunity, Taos, NM.
- 2009 **Peterson LK**, Shaw LA, Dragone LL. *Src-like adaptor protein deficiency leads to decreased autoantibody production*. Poster session presented at American Association of Immunologists (AAI) Annual Meeting, Seattle, WA.
- 2009 Dragone LL, Shaw LA, Sakaguchi S, **Peterson LK**. *Src-like adaptor protein deficiency prevents chronic arthritis in SKG mice*. Poster session presented at American Association of Immunologists (AAI) Annual Meeting, Seattle, WA.

- 2009 **Peterson LK**, Shaw LA, Sakaguchi S, Dragone LL. *Src-like adaptor protein (SLAP)-deficiency alters thymocyte development and prevents the development of arthritis in SKG mice*. Poster session presented at Keystone Conference on the Many Faces of Ubiquitin, Copper Mountain, CO.
- 2005 **Peterson LK**, Tsunoda I, Tanaka T, Masaki T, Fujinami RS. *Polyreactivity, Lymphocytotoxicity and CNS Disease Modulation by Two MOG92-106 Monoclonal Antibodies*. Poster session presented at Keystone Conference on Central Nervous System Inflammation: Mechanisms, Consequences and Therapeutic Strategies, Snowbird, UT.
- 2004 **Peterson LK**, Tsunoda I, Masaki T, Fujinami RS. *Generation and Characterization of Natural Autoantibodies in an Animal Model for Multiple Sclerosis*. Poster session presented at FASEB Conference on Neuro-Immune Interactions: Physiological and Pathological Relevance, Tucson, AZ.

## **ORAL PRESENTATIONS**

### **Meeting Presentations**

#### International

- 2022 **Peterson LK**. Laboratory Testing of Autoimmune Encephalitis and Paraneoplastic Syndrome. Euroimmun Neuroimmunology Summit, 2022, Virtual Meeting.
- 2019 Tebo A, **Peterson LK**, Copple S, Wener M, Fritzler M. ANALYSIS of Results: 2019 AMLI ANA Survey. ICAP Workshop/Dresden Symposium on Autoantibodies. Dresden, Germany.

#### National

- 2022 **Peterson LK**. Autoantibody Testing: What is in a name? Oral presentation at the Association of Medical Laboratory Immunologists Annual Meeting, Salt Lake City, UT, USA.
- 2019 **Peterson LK**. ANALYSIS of Results from a Recent AMLI ANA Survey. Oral presentation at the Association of Medical Laboratory Immunologists Annual Meeting, Cleveland, OH, USA.

#### Local/Regional

- 2022 **Peterson LK**. Cytokines and COVID-19. Oral presentation at the 2022 Intermountain States Seminar (IMSS) for ASCLS region VIII, Jackson Hole, WY, USA.
- 2019 **Peterson LK**. Autoantibody Testing in the Diagnosis of Autoimmune Neurological Disorders (PNS). Oral presentation at the 2019 Hawaii Clinical Laboratory Conference, Honolulu, HI, USA.
- 2019 **Peterson LK**. Role of Functional Assays in the Diagnosis of Primary Immunodeficiency. Oral presentation at the 2019 Hawaii Clinical Laboratory Conference, Honolulu, HI, USA.