

<u>Date / Time / Location</u>	<u>Title of Session</u>	<u>Authors / Presenters / Abstract Information</u>
Sunday, October 21, 2018		
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: B Cell Biology and Targets in Autoimmune and Inflammatory Disease Poster Abstract # 12	12 Protein Phosphatase 2A, a Serine/Threonine Phosphatase, Is Essential for Optimal B Cell Function Esra Meidan ¹ , Hao Li ² , Christina Ioannidis ³ , Wenliang Pan ³ , Noe Rodriguez Rodriguez ⁴ , Jose Crispin ⁴ , Sokratis Apostolidis⁵ , John Manis ¹ , Amir Sharabi ³ , Maria G. Tsokos ³ and George C Tsokos ⁶ , ¹ Boston Children's Hospital, Boston, MA, ² Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, ³ Beth Israel Deaconess Medical Center, Boston, MA, ⁴ Instituto Nacional de Ciencias Médicas y Nutrición, Mexico City, Mexico, ⁵ University of Pittsburgh Medical Center, Pittsburgh, PA, ⁶ Department of Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, Boston, MA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Healthcare Disparities in Rheumatology Poster Abstract # 274	274 Socioeconomic Disparities in Disease Activity in Patients with Rheumatoid Arthritis Lei Zhu¹, Evelyn Talbott² and Larry W. Moreland¹ , ¹ Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ² University of Pittsburgh, Pittsburgh, PA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Muscle Biology, Myositis and Myopathies Poster I: Clinical Features and Disease Course Abstract # 380	380 A New Tool to Assess Muscle Strength in Polymyositis and Dermatomyositis: Hand-Held Dynamometry Didem Saygin¹, Chester V. Oddis², Siamak Moghadam-Kia³, Diane Koontz³, Nicole Marie Neiman³ and Rohit Aggarwal⁴ , ¹ University of Pittsburgh Medical Center, Pittsburgh, PA, ² University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA, ³ University of Pittsburgh, Pittsburgh, PA, ⁴ University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Orthopedics, Low Back Pain and Rehabilitation Poster – ACR/ARHP Abstract # 418 Abstract # 419	418 Dose-Response Relationship between Neuromuscular Electrical Stimulation and Muscle Function in Patients with Rheumatoid Arthritis Gustavo J. Almeida, Samannaaz S. Khoja and Sara R. Piva , University of Pittsburgh, Pittsburgh, PA 419 Effect of Changes in Physical Activity on Cartilage Degradation in Knee Osteoarthritis Gustavo J. Almeida¹, Charity Moore-Patterson¹, Clair N. Smith¹, Prakash Jayabalan² and Sara R. Piva¹ , ¹ University of Pittsburgh, Pittsburgh, PA, ² Northwestern Feinberg School of Medicine, Chicago, IL
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Rheumatoid Arthritis – Diagnosis, Manifestations, and Outcomes Poster I: Comorbidities Abstract # 511	511 Identifying Vulnerable Plaque in Rheumatoid Arthritis Using Novel Microbubble Contrast-Enhanced Carotid Ultrasonography and Serum Biomarkers of Inflammation and Atherosclerosis Linda F. Wang, Yaming Li, Douglas Landsittel, Suresh R. Mulukutla, Steven Reis, Marc Levesque, Donald M. Jones, Rachel Gartland, Jennifer Avolio, Ali Hakim Shoushtari, Flordeliza Villanueva, Larry W. Moreland and Kimberly P. Liang , University of Pittsburgh, Pittsburgh, PA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Systemic Lupus Erythematosus – Clinical Poster I: Clinical Manifestations and Comorbidity Abstract #724	724 Are Traditional Biomarkers of Lupus Associated with Renal Pathology in Lupus Nephritis? Kelly Liang, Kimberly P. Liang, Yaming Li, Alex Hurd, Douglas Landsittel and Sheldon Bastacky , University of Pittsburgh, Pittsburgh, PA

<p>9:00 AM - 11:00 AM</p> <p>McCormick Place, Poster Hall B</p>	<p>Session: Systemic Sclerosis and Related Disorders – Clinical Poster I</p> <p>Abstract # 806</p>	<p>806 Estradiol Levels Are Elevated in Older Men with Diffuse Cutaneous SSc and Are Associated with Decreased Survival</p> <p>DeAnna Baker Frost¹, Bethany J Wolf¹, Christine Peoples², Katherine Silver³, Maureen Laffoon⁴, Thomas A. Medsger Jr.² and Carol A. Feghali-Bostwick³, ¹Medical University of South Carolina, Charleston, SC, ²University of Pittsburgh, Division of Rheumatology and Clinical Immunology, Pittsburgh, PA, ³Medical University of South Carolina, Division of Rheumatology and Immunology, Charleston, SC, ⁴University of Pittsburgh Medical Center, Pittsburgh, PA</p>
<p>12:45 PM - 2:15 PM</p> <p>McCormick Place, S101a</p>	<p>Session: 3S049 MTP: 010 - Management of Difficult Raynaud's & Digital Ischemia</p>	<p>Thomas A. Medsger Jr., MD – Speaker</p>
<p>1:00 PM - 2:00 PM</p> <p>McCormick Place, W181c</p>	<p>Session: 3S066 Study Group: Interstitial Lung Disease and Rheumatic Diseases</p>	<p>Rohit Aggarwal MD, MS - Speaker</p>
<p>3:00 PM - 3:15 PM</p> <p>McCormick Place, W375a</p>	<p>Session: 3S086 ACR Abstract: RA–DX, Manifestations, & Outcomes I: Other Co-Morbidities (880–885)</p> <p>Abstract # 882</p>	<p>882 Predictors of Chronic Kidney Disease in US Veterans with Rheumatoid Arthritis</p> <p>J. Steuart Richards, Pittsburgh VA Medical Center and University of Pittsburgh, Pittsburgh, PA, Richard Amdur, George Washington University School of Medicine & Health Sciences, Washington, DC, Grant W. Cannon, Salt Lake City VA Medical Center and University of Utah, Salt Lake City, UT and Gail S. Kerr, Washington DC VAMC and Georgetown and Howard University, Washington, DC</p>
<p>3:00 PM - 3:15 PM</p> <p>McCormick Place, W178b</p>	<p>Session: 3S089 ACR Abstract: Systemic Sclerosis & Rel D/O– Clinical I: Clinical Trials I (898–903)</p> <p>Abstract # 900</p>	<p>900 Abatacept Vs. Placebo in Early Diffuse Cutaneous Systemic Sclerosis— Results of a Phase 2 Investigator Initiated, Double-Blind, Placebo-Controlled, Multicenter, Randomized Controlled Trial Study</p> <p>Dinesh Khanna¹, Cathie Spino², Erica Bush², Sindhu Johnson³, Lorinda Chung⁴, Jerry Molitor⁵, Virginia D. Steen⁶, Robert Lafyatis⁷, Robert W. Simms⁸, Christopher P. Denton⁹, Suzanne Kafaja¹⁰, Tracy M. Frech¹¹, Vivien Hsu¹², Robyn T. Domsic¹³, Janet E. Pope¹⁴, Jessica K. Gordon¹⁵, Maureen D. Mayes¹⁶, Elena Schioppa², Amber Young¹, Nora Sandorfi¹⁷, Jane Park¹⁸, Faye N. Hant¹⁹, Elana J. Bernstein²⁰, Soumya Chatterjee²¹, Flavia V. Castellino²², Ali Ajam²³, Yannick Allanore²⁴, Marco Matucci-Cerinic²⁵, Oliver Distler²⁶, Ora Singer², Haoyan Zhong², David Fox² and Daniel E. Furst²⁷, ¹Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI, ²University of Michigan, Ann Arbor, MI, ³Mount Sinai Hospital and University Health Network, Toronto, ON, ⁴Stanford University School of Medicine, Palo Alto, CA, ⁵University of Minnesota, Minneapolis, MN, ⁶MedStar Georgetown University Hospital, Washington, DC, ⁷Pittsburgh University Medical Center, Pittsburgh, PA, ⁸Boston University School of Medicine, Boston, MA, ⁹UCL Division of Medicine, Royal Free Campus, London, United Kingdom, ¹⁰University of California Los Angeles, David Geffen School of Medicine, Division of Rheumatology, Los Angeles, CA, ¹¹University of Utah, Salt Lake City, UT, ¹²Robert Wood Johnson University Scleroderma Program, New Brunswick, NJ, ¹³University of Pittsburgh, Pittsburgh, PA, ¹⁴Department of Medicine, University of Western Ontario, London, ON, ¹⁵Hospital for Special Surgery, New York, NY, ¹⁶University of Texas McGovern Medical School, Houston, TX, ¹⁷Perelman School of Medicine, University of Pennsylvania, Pittsburgh, PA, ¹⁸Seattle Rheumatology Associates, Seattle, WA, ¹⁹Medical University of South Carolina, Charleston, SC, ²⁰Columbia University, New York, NY, ²¹Cleveland Clinic, Cleveland, OH, ²²Harvard Medical School, Boston, MA, ²³The Ohio State University Wexner Medical Center, Columbus, OH, ²⁴Hôpital Cochin, Paris, France, ²⁵University of Florence, Florence, Italy, ²⁶University Hospital Zurich, Zurich, Switzerland, ²⁷UCLA, Los Angeles, CA</p>

<p>3:15 PM - 3:30 PM</p> <p>McCormick Place, W375a</p>	<p>Session: 3S086 ACR Abstract: RA–DX, Manifestations, & Outcomes I: Other Co- Morbidity (880–885) Abstract # 883</p>	<p>883 Evaluation of Fracture Risk and Osteoporosis in Males with Rheumatoid Arthritis</p> <p>Kanchana Herath¹, Melissa Saul¹, Lei Zhu² and Larry W. Moreland², ¹University of Pittsburgh, Pittsburgh, PA, ²Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA</p>
<p>4:30 PM - 5:00 PM</p> <p>McCormick Place, W183a</p>	<p>Session: 3S112 ACR: Autoimmune Pathogenesis & the Lung</p>	<p>Robert Lafyatis MD - Speaker</p> <p>Single Cell RNA-Sequencing Reveals Macrophage and Fibroblast Activation in Interstitial Lung Disease</p>
<p>5:15 PM - 5:30 PM</p> <p>McCormick Place, W183c</p>	<p>Abstract # 925</p>	<p>925 Abortive Viral Infection Becomes Macrophage Activation Syndrome in Mice with Chronically Elevated Interleukin-18: Evidence for Synergy with Cytotoxic Impairment</p> <p>Paul Tsoukas¹, Corinne Schneider², Lauren Van Der Kraak² and Scott Canna³, ¹Children’s Hospital of Pittsburgh, Pittsburgh, PA, ²RK Mellon Institute for Pediatric Research, University of Pittsburgh/Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, ³RK Mellon Institute for Pediatric Research, University of Pittsburgh/Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA</p>
<p>Monday, October 22, 2018</p>		
<p>9:00 AM - 11:00 AM</p> <p>McCormick Place, Poster Hall B</p>	<p>Session: Systemic Sclerosis and Related Disorders – Basic Science Poster II Abstract # 1119 Abstract # 1120</p>	<p>1119 Genetic Signatures from RNA Sequencing of Pediatric Localized Scleroderma (LS) Skin</p> <p>Emily Mirizio¹, Roosha Mandal², Qi Yan¹, William Horne³, Kaila Schollaert-Fitch¹ and Kathryn S. Torok¹, ¹University of Pittsburgh Med Ctr, Pittsburgh, PA, ²Carnegie Mellon University, Pittsburgh, PA, ³Health Sciences Sequencing Core at Children's Hospital of Pittsburgh, Pittsburgh, PA</p> <p>1120 Strong HLA and Novel Non-HLA Associations Identified By Auto-Antibody Subset Analysis of African Americans with Scleroderma from the Genome Research in African American Scleroderma Patients Cohort</p> <p>Pravitt Gourh¹, Elaine F. Remmers², Theresa Alexander³, Steven Boyden⁴, Nadia D. Morgan⁵, Ami A. Shah⁶, Maureen D. Mayes⁷, Ayo Doumatey², Amy Bentley², Daniel Shriner⁸, Robyn T. Domsic⁹, Thomas A. Medsger Jr.⁹, Virginia D. Steen¹⁰, Paula S. Ramos¹¹, Rick Silver¹², Benjamin D. Korman¹³, John Varga¹⁴, Elena Schiopu¹⁵, Dinesh Khanna¹⁶, Vivien Hsu¹⁷, Jessica K. Gordon¹⁸, Lesley Ann Saketkoo¹⁹, Heather Gladue²⁰, Brynn Kron²¹, Lindsey A. Criswell²¹, Chris T. Derk²², S. Louis Bridges Jr.²³, Victoria Shanmugam²⁴, Kathleen D. Kolstad²⁵, Lorinda Chung²⁶, Reem Jan²⁷, Elana J. Bernstein²⁸, Avram Goldberg²⁹, Marcin Trojanowski³⁰, Suzanne Kafaja³¹, Kathleen Maksimowicz-McKinnon³², Settara C Chandrasekharappa², Adebowale Adeyemo², Charles Rotimi², Fredrick M. Wigley⁵, Francesco Boin³³ and Daniel L. Kastner², ¹National Institutes of Health (NIH), National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, MD, ²National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, ³National Institutes of Health, Bethesda, MD, ⁴National Institutes of Health (NIH), National Institute on Deafness and Other Communication Disorders, Bethesda, MD, ⁵Johns Hopkins University School of Medicine, Baltimore, MD, ⁶Johns Hopkins University, Baltimore, MD, ⁷University of Texas McGovern Medical School, Houston, TX, ⁸National Human Genome Research Institute, National Institutes of Health (NIH), Bethesda, MD, ⁹University of Pittsburgh, Pittsburgh, PA, ¹⁰MedStar Georgetown University Hospital, Washington, DC, ¹¹Medical University of South Carolina, Charleston, SC, ¹²Medical University of SC, Charleston, SC, ¹³Division of Allergy/Immunology and Rheumatology and Center for Musculoskeletal Research, School of Medicine and Dentistry, University of Rochester Medical School, Rochester, New York, USA, Rochester, NY, ¹⁴Northwestern University, Chicago, IL, ¹⁵University of Michigan, Ann Arbor, MI, ¹⁶Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI, ¹⁷Robert Wood Johnson Medical School, New</p>

		Brunswick, NJ, ¹⁸ Hospital for Special Surgery, New York, NY, ¹⁹ Tulane, New Orleans, LA, ²⁰ Arthritis and Osteoporosis Consultants of the Carolinas, Charlotte, NC, ²¹ University of California San Francisco, San Francisco, CA, ²² University of Pennsylvania, Philadelphia, PA, ²³ Univ of Alabama, Birmingham, AL, ²⁴ The George Washington University, Washington, DC, ²⁵ Stanford University Medical Center, Stanford, CA, ²⁶ Stanford University School of Medicine, Palo Alto, CA, ²⁷ University of Chicago, Chicago, IL, ²⁸ Columbia University, New York, NY, ²⁹ NYU Langone Medical Center, New York, NY, ³⁰ Boston University, Boston, MA, ³¹ David Geffen School of Medicine, UCLA, Los Angeles, CA, ³² Henry Ford Hospital, Detroit, MI, ³³ University California, San Francisco, San Francisco, CA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Systemic Sclerosis and Related Disorders – Clinical Poster II Abstract # 1715	1715 Safety and Efficacy of Lenabasum in an Open-Label Extension of a Phase 2 Study in Diffuse Cutaneous Systemic Sclerosis Subjects Robert F. Spiera ¹ , Laura K. Hummers ² , Lorinda Chung ³ , Tracy M. Frech ⁴ , Robyn T. Domsic ⁵ , Vivien Hsu ⁶ , Daniel E. Furst ⁷ , Jessica K. Gordon ¹ , Maureen D. Mayes ⁸ , Robert W. Simms ⁹ , Elizabeth Lee ¹⁰ , Scott Constantine ¹⁰ and Barbara White ¹⁰ , ¹ Hospital for Special Surgery, New York, NY, ² Johns Hopkins University School of Medicine, Baltimore, MD, ³ Stanford University School of Medicine, Palo Alto, CA, ⁴ University of Utah, Salt Lake City, UT, ⁵ University of Pittsburgh, Pittsburgh, PA, ⁶ Robert Wood Johnson Medical School, New Brunswick, NJ, ⁷ Pacific Arthritis Associates, Los Angeles; University of California, Los Angeles; University of Washington, Seattle; University of Florence, Italy, Los Angeles, CA, ⁸ University of Texas McGovern Medical School, Houston, TX, ⁹ Boston University School of Medicine, Boston, MA, ¹⁰ Corbus Pharmaceuticals, Inc., Norwood, MA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Vasculitis – ANCA-Associated Poster I Abstract # 1762 Abstract # 1770	1762 Plasma iC3b Level As a Biomarker of Disease Relapse in ANCA-Associated Vasculitis Catherine E. Najem ¹ , Martin Schmidt ² , Chad Stiening ³ , David Cuthbertson ⁴ , Simon Carette ⁵ , Nader A. Khalidi ⁶ , Curry L. Koenig ⁷ , Carol Langford ⁸ , Carol A. McAlear ⁹ , Paul A. Monach ¹⁰ , Larry W. Moreland ¹¹ , Christian Pagnoux ⁵ , Philip Seo ¹² , Ulrich Specks ¹³ , Antoine G. Sreih ¹ , Steven R. Ytterberg ¹⁴ and Peter A. Merkel ¹ , ¹ Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ² Kypha, Inc., St. Louis, MO, ³ Kypha, Inc., St. Louis, MO, ⁴ Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁵ Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁶ McMaster University, Hamilton, ON, ⁷ Division of Rheumatology, University of Utah, Salt Lake City, UT, ⁸ Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ⁹ University of Pennsylvania; Perelman School of Medicine, Philadelphia, PA, ¹⁰ Section of Rheumatology, Boston University School of Medicine, Boston, MA, ¹¹ Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹² Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹³ Mayo Clinic College of Medicine, Rochester, MN, ¹⁴ Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN
		1770 Subglottic Stenosis and Endobronchial Disease in Granulomatosis with Polyangiitis Kaitlin Quinn ¹ , Cailin Sibley ² , Alexander Gelbard ³ , Arlene Sirajuddin ⁴ , Marcela A. Ferrada ⁴ , Marcus Chen ⁴ , David Cuthbertson ⁵ , Simon Carette ⁶ , Nader A. Khalidi ⁷ , Curry L. Koenig ⁸ , Carol Langford ⁹ , Carol A. McAlear ¹⁰ , Paul A. Monach ¹¹ , Larry W. Moreland ¹² , Christian Pagnoux ⁶ , Philip Seo ¹³ , Ulrich Specks ¹⁴ , Antoine G. Sreih ¹⁰ , Steven R. Ytterberg ¹⁵ , Peter A. Merkel ¹⁶ and Peter C. Grayson ¹⁷ , ¹ Georgetown University Hospital, Washington, DC, ² Oregon Health & Science University, Portland, OR, ³ Vanderbilt University Medical Center, Nashville, TN, ⁴ National Institutes of Health, Bethesda, MD, ⁵ Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁶ Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁷ McMaster University, Hamilton, ON, ⁸ Division of Rheumatology, University of Utah, Salt Lake City, UT, ⁹ Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ¹⁰ Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ¹¹ Section of Rheumatology, Boston University School of Medicine, Boston, MA, ¹² Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹³ Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹⁴ Mayo Clinic College of Medicine, Rochester, MN, ¹⁵ Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN, ¹⁶ University of Pennsylvania, Philadelphia, PA, ¹⁷ National Institute of Arthritis, Musculoskeletal and Skin Disease, National Institutes of Health, Bethesda, MD

12:45 PM - 2:15 PM McCormick Place, S101a	Session: 4M049 MTP: 037 - Management of Difficult Raynaud's & Digital Ischemia	Thomas A. Medsger Jr., MD – Speaker
2:30 PM - 2:45 PM McCormick Place, W185a	Session: 4M091 ACR Abstract: Vasculitis– Non-ANCA-Assocd & Rel D/Os I: Population- Based Studies(1881– 1886) Abstract # 1881	1881 Discovery and Validation of Novel Disease Subsets in 806 Patients with Takayasu's Arteritis across Four International Cohorts Ruchika Goel ¹ , Katherine B. Gribbons ² , Kathleen Maksimowicz-McKinnon ³ , Gary S. Hoffman ⁴ , Sathish Kumar ⁵ , George Joseph ⁵ , Raheesh Ravindran ⁵ , Aswin Nair ⁵ , David Cuthbertson ⁶ , Simon Carette ⁷ , Nader A. Khalidi ⁸ , Curry L. Koenig ⁹ , Carol Langford ¹⁰ , Carol A. McAlear ¹¹ , Paul A. Monach ¹² , Larry W. Moreland ¹³ , Christian Pagnoux ⁷ , Philip Seo ¹⁴ , Antoine G. Sreih ¹¹ , Kenneth J. Warrington ¹⁵ , Steven R. Ytterberg ¹⁵ , Peter A. Merkel ¹⁶ , Debashish Danda ¹⁷ and Peter C. Grayson ² , ¹ Christian Medical College, Vellore Tamilnadu, India, ² National Institute of Arthritis, Musculoskeletal and Skin Disease, National Institutes of Health, Bethesda, MD, ³ Henry Ford Hospital, Detroit, MI, ⁴ Cleveland Clinic, Cleveland, OH, ⁵ Christian Medical College, Vellore, India, ⁶ Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁷ Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁸ McMaster University, Hamilton, ON, ⁹ Division of Rheumatology, University of Utah, Salt Lake City, UT, ¹⁰ Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ¹¹ Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ¹² Section of Rheumatology, Boston University School of Medicine, Boston, MA, ¹³ Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹⁴ Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹⁵ Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN, ¹⁶ University of Pennsylvania, Philadelphia, PA, ¹⁷ Clinical Immunology & Rheumatology, Christian Medical College, Vellore, India, Vellore, India
Tuesday, October 23, 2018		
7:30 AM - 8:00 AM McCormick Place, W184a	Session: 5T008 ARHP: The Placebo Effect in Rheumatology	Terence Starz MD – Speaker Placebos: What Are They and What Do They Do in Rheumatic Disease
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Genetics, Genomics and Proteomics Poster Abstract # 1962	1962 HLA Contributions to Risk and Protection for Anti-Centromere Autoantibody-Positive Scleroderma Elaine F. Remmers ¹ , Theresa Alexander ² , Nadia D. Morgan ³ , Ami A. Shah ³ , Maureen D. Mayes ⁴ , Adebawale Adeyemo ¹ , Ayo Doumatey ¹ , Amy Bentley ¹ , Daniel Shriner ⁵ , Settara C Chandrasekharappa ¹ , Mary A. Carns ⁶ , Lorinda Chung ⁷ , Lindsey A. Criswell ⁸ , Chris T. Derk ⁹ , Robyn T. Domsic ¹⁰ , Heather Gladue ¹¹ , Avram Goldberg ¹² , Jessica K. Gordon ¹³ , Vivien Hsu ¹⁴ , Reem Jan ¹⁵ , Dinesh Khanna ¹⁶ , Thomas A. Medsger Jr. ¹⁰ , Paula S. Ramos ¹⁷ , Marcin A. Trojanowski ¹⁸ , Lesley Ann Saketkoo ¹⁹ , Elena Schiopu ²⁰ , Victoria Shanmugam ²¹ , Benjamin D. Korman ²² , Brynn Kron ⁸ , S. Louis Bridges Jr. ²³ , Kathleen D. Kolstad ²⁴ , Elana J. Bernstein ²⁵ , Suzanne Kafaja ²⁶ , Kathleen Maksimowicz-McKinnon ²⁷ , Rick Silver ²⁸ , Virginia D. Steen ²⁹ , John Varga ³⁰ , Charles Rotimi ¹ , Francesco Boin ³¹ , Fredrick M. Wigley ³² , Daniel L. Kastner ¹ and Pravitt Gourh ² , ¹ National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, ² National Institutes of Health, Bethesda, MD, ³ Johns Hopkins University School of Medicine, Baltimore, MD, ⁴ University of Texas McGovern Medical School, Houston, TX, ⁵ National Human Genome Research Institute, National Institutes of Health (NIH), Bethesda, MD, ⁶ Northwestern University, Feinberg School of Medicine Scleroderma Program, Chicago, IL, ⁷ Stanford University School of Medicine, Palo Alto, CA, ⁸ University of California San Francisco, San Francisco, CA, ⁹ University of Pennsylvania, Philadelphia, PA, ¹⁰ University of Pittsburgh, Pittsburgh, PA, ¹¹ Arthritis and Osteoporosis Consultants of the Carolinas, Charlotte, NC, ¹² NYU Langone Medical Center, New York, NY, ¹³ Hospital for Special Surgery, New York, NY, ¹⁴ Robert Wood Johnson University Scleroderma Program, New Brunswick, NJ, ¹⁵ University of Chicago, Chicago, IL, ¹⁶ Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI, ¹⁷ Medical University of South Carolina, Charleston, SC, ¹⁸ Boston University School of Medicine, Boston, MA, ¹⁹ Tulane University School of Medicine, New Orleans, LA, ²⁰ University of Michigan, Ann Arbor, MI, ²¹ The George Washington University, Washington, DC, ²² Division of

		Allergy/Immunology and Rheumatology and Center for Musculoskeletal Research, School of Medicine and Dentistry, University of Rochester Medical School, Rochester, New York, USA, Rochester, NY, ²³ Univ of Alabama, Birmingham, AL, ²⁴ Stanford University Medical Center, Stanford, CA, ²⁵ Columbia University, New York, NY, ²⁶ David Geffen School of Medicine, UCLA, Los Angeles, CA, ²⁷ Henry Ford Hospital, Detroit, MI, ²⁸ Medical University of SC, Charleston, SC, ²⁹ MedStar Georgetown University Hospital, Washington, DC, ³⁰ Northwestern University, Chicago, IL, ³¹ University California, San Francisco, San Francisco, CA, ³² Johns Hopkins University, Baltimore, MD
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Health Services Research Poster III – ACR/ARHP Abstract # 2178	2178 Provider Perceptions of Telerheumatology within the Veterans Health Administration: A National Survey Study Rachel A. Matsumoto ¹ , Bryant R. England ² , Ginnifer Mastarone ³ , Linda Ganzini ⁴ , J. Steuart Richards⁵ , Elizabeth Chang ⁶ , Patrick R. Wood ⁷ and Jennifer Barton ⁴ , ¹ VA Portland Health Care System, Portland, OR, ² VA Nebraska-Western Iowa Health Care System & University of Nebraska Medical Center, Omaha, NE, ³ Oregon Health & Science University - Portland State University School of Public Health, Portland, OR, ⁴ Oregon Health & Science University, Portland, OR, ⁵ Pittsburgh VA Medical Center and University of Pittsburgh, Pittsburgh, PA, ⁶ Phoenix VAHCS, Phoenix, AZ, ⁷ Rocky Mountain Regional Veterans Affairs Medical Center, Aurora, CO
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Muscle Biology, Myositis and Myopathies Poster III: Treatment and Classification Criteria Abstract # 2290 Abstract # 2294	2290 Long Term Follow-up Results of Myositis Patients Treated with H. P. Acthar Gel Didem Saygin¹ , Galina Marder ² , Chester V. Oddis³ , Siamak Moghadam-Kia⁴ , Preeya Nandkumar ⁵ , Zengbiao Qui ¹ , Diane Koontz⁴ and Rohit Aggarwal⁶ , ¹ University of Pittsburgh Medical Center, Pittsburgh, PA, ² Northwell Health, Manhasset, NY, ³ University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA, ⁴ University of Pittsburgh, Pittsburgh, PA, ⁵ Northwell Health, GREAT NECK, NY, ⁶ University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA 2294 Improving EULAR/Acr Classification Criteria for Idiopathic Inflammatory Myopathies Kylee Dawson¹ , Chester V. Oddis² , Siamak Moghadam-Kia² , Diane Koontz² , Nicole Niemen² and Rohit Aggarwal² , ¹ University of Pittsburgh Medical Center Mercy Hospital, Pittsburgh, PA, ² University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Patient Outcomes, Preferences, and Attitudes Poster II – ARHP Abstract # 2374	2374 Flare Warnings: People with Rheumatoid Arthritis' Perceptions of Their Flares Nancy A. Baker ¹ , Laurel Person Mecca² and Sara R. Piva² , ¹ Tufts University, Medford, MA, ² University of Pittsburgh, Pittsburgh, PA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Reproductive Issues in Rheumatic Disorders Poster Abstract # 2412	2412 Evaluating Gaps in Reproductive Health Knowledge Among Women with Rheumatic Diseases Mehret Birru Talabi¹ , Megan E. B. Clowse ² , Susan J. Blalock ³ , Lan Yu⁴ , Alaina Chodoff⁵ and Sonya Borrero ⁴ , ¹ University of Pittsburgh School of Medicine, Pittsburgh, PA, ² Duke University, Durham, NC, ³ University of North Carolina at Chapel Hill, Chapel Hill, NC, ⁴ University of Pittsburgh, Pittsburgh, PA, ⁵ UPMC, Pittsburgh, PA
9:00 AM - 11:00 AM McCormick Place, Poster Hall B	Session: Systemic Lupus Erythematosus – Animal Models Poster Abstract # 2094	2094 Examining T Cell Exhaustion in Murine Systemic Lupus Erythematosus Jeremy Tilstra¹ , Lyndsay Avery² , Ashley Menk² , Rachael Gordon² , Shuchi Smita² , Lawrence Kane² , Maria Chikina² , Greg Delgoffe² and Mark Shlomchik² , ¹ Univ of Pittsburgh Medical Center, Pittsburgh, PA, ² University of Pittsburgh, Pittsburgh, PA
9:00 AM - 11:00 AM	Session: Systemic Sclerosis and Related	2695 Progressive Skin Fibrosis, Internal Organ Involvement and All-Cause Mortality in an Early Diffuse Cutaneous Systemic Sclerosis United States Multicenter Registry

<p>McCormick Place, Poster Hall B</p>	<p>Disorders – Clinical Poster III Abstract # 2695 Abstract # 2708</p>	<p>Kate Homer¹, Benjamin Brennan¹, Shervin Assassi², Elana J. Bernstein³, Flavia V. Castelino⁴, Robyn T. Domsic⁵, Jessica K. Gordon⁶, Faye N. Hant⁷, Monique Hinchcliff⁸, Ami A. Shah⁹, Victoria Shanmugam¹⁰, Virginia D. Steen¹¹, Veronica J. Berrocal¹, Melanie Hemmrich¹², Tracy M. Frech¹³ and Dinesh Khanna¹⁴, ¹University of Michigan, Ann Arbor, MI, ²University of Texas McGovern Medical School, Houston, TX, ³Columbia University, New York, NY, ⁴Harvard Medical School, Boston, MA, ⁵University of Pittsburgh, Pittsburgh, PA, ⁶Hospital for Special Surgery, New York, NY, ⁷Medical University of South Carolina, Charleston, SC, ⁸Northwestern University, Chicago, IL, ⁹Johns Hopkins University School of Medicine, Baltimore, MD, ¹⁰The George Washington University, Washington, DC, ¹¹MedStar Georgetown University Hospital, Washington, DC, ¹²Bayer AG, Wuppertal, Germany, ¹³University of Utah, Salt Lake City, UT, ¹⁴Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI</p> <p>2708 Current Management of Early Diffuse Cutaneous Systemic Sclerosis in US Scleroderma Centers</p> <p>Rebecca B. Blank¹, Jessica K. Gordon², Jackie Szymonifka², Shervin Assassi³, Elana J. Bernstein⁴, Flavia V. Castelino⁵, Robyn T. Domsic⁶, Faye N. Hant⁷, Monique Hinchcliff⁸, Kate Homer⁹, Ami A. Shah¹⁰, Victoria Shanmugam¹¹, Virginia D. Steen¹², Tracy M. Frech¹³ and Dinesh Khanna¹⁴, ¹New York Presbyterian-Weill Cornell Hospital, New York, NY, ²Hospital for Special Surgery, New York, NY, ³University of Texas McGovern Medical School, Houston, TX, ⁴Columbia University, New York, NY, ⁵Harvard Medical School, Boston, MA, ⁶University of Pittsburgh, Pittsburgh, PA, ⁷Medical University of South Carolina, Charleston, SC, ⁸Northwestern University Medical School, Chicago, IL, ⁹University of Michigan, Ann Arbor, MI, ¹⁰Johns Hopkins University School of Medicine, Baltimore, MD, ¹¹The George Washington University, Washington, DC, ¹²MedStar Georgetown University Hospital, Washington, DC, ¹³University of Utah, Salt Lake City, UT, ¹⁴Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI</p>
<p>9:00 AM - 11:00 AM</p> <p>McCormick Place, Poster Hall B</p>	<p>Session: Vasculitis – ANCA-Associated Poster II Abstract # 2741</p>	<p>2741 Candidate Biomarkers in ANCA-Associated Vasculitis Identified Using a Proteomic Approach</p> <p>Paul A. Monach¹, Hemang Parikh², Laurie Conklin³, Jesse Damsker⁴, Peter C. Grayson⁵, David Cuthbertson⁶, Simon Carette⁷, Nader A. Khalidi⁸, Curry L. Koenig⁹, Carol Langford¹⁰, Carol A. McAlear¹¹, Larry W. Moreland¹², Christian Pagnoux⁷, Philip Seo¹³, Ulrich Specks¹⁴, Antoine G. Sreih¹⁵, Steven R. Ytterberg¹⁶, Eric Hoffman⁴ and Peter A. Merkel¹⁷, ¹VA Boston Healthcare System, Boston, MA, ²University of South Florida, Tampa, FL, ³ReveraGen BioPharma, Rockville, MD, ⁴ReveraGen Biopharma, Rockville, MD, ⁵National Institute of Arthritis, Musculoskeletal and Skin Disease, National Institutes of Health, Bethesda, MD, ⁶Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁷Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁸McMaster University, Hamilton, ON, ⁹Division of Rheumatology, University of Utah, Salt Lake City, UT, ¹⁰Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ¹¹University of Pennsylvania; Perelman School of Medicine, Philadelphia, PA, ¹²Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹³Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹⁴Mayo Clinic College of Medicine, Rochester, MN, ¹⁵Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ¹⁶Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN, ¹⁷Division of Rheumatology and the Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania, Philadelphia, PA</p>
<p>12:15 PM - 12:30 PM</p> <p>McCormick Place, W375c</p>	<p>Session: 5T046 ACR Abstract: Plenary Session III (2785–2790) Abstract # 2790</p>	<p>2790 Screening of Patients with Adult-Onset Idiopathic Polyarteritis Nodosa for Deficiency of Adenosine Deaminase 2</p> <p>Oskar Schnappauf¹, Monique Stoffels², Ivona Aksentijevich², Daniel L. Kastner², Peter C. Grayson³, David Cuthbertson⁴, Simon Carette⁵, Sharon A. Chung⁶, Lindsay J. Forbess⁷, Nader A. Khalidi⁸, Curry L. Koenig⁹, Carol Langford¹⁰, Carol A. McAlear¹¹, Paul A. Monach¹², Larry W. Moreland¹³, Christian Pagnoux⁵, Philip Seo¹⁴, Jason Springer¹⁵, Antoine G. Sreih¹¹, Kenneth J. Warrington¹⁶, Steven R. Ytterberg¹⁶ and Peter A. Merkel¹⁷, ¹National Institutes of Health, Bethesda, MD, ²National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, ³National Institute of Arthritis, Musculoskeletal and Skin Disease, National Institutes of Health, Bethesda, MD, ⁴Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁵Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁶University of California, San Francisco, San Francisco, CA, ⁷Cedars-Sinai Medical Center, Los Angeles,</p>

		CA, ⁸ McMaster University, Hamilton, ON, ⁹ Division of Rheumatology, University of Utah, Salt Lake City, UT, ¹⁰ Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ¹¹ Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ¹² Section of Rheumatology, Boston University School of Medicine, Boston, MA, ¹³ Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹⁴ Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹⁵ Division of Allergy, Clinical Immunology & Rheumatology, Kansas City, KS, ¹⁶ Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN, ¹⁷ Division of Rheumatology and the Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania, Philadelphia, PA
1:00 PM - 2:00 PM McCormick Place, W190a	Session: 5T078 Study Group: Veterans Affairs	J. Steuart Richards MBBS – Speaker
4:45 PM - 5:00 PM McCormick Place, W190a	Session: Abstract # 2857	2857 An Electronic Audit, Reporting, and Data Correction System Improves the Quantity and Quality of Observational Data Collected for US Veterans Enrolled in the Veterans Affairs Rheumatoid Arthritis Registry Grant W. Cannon ¹ , Jorge Rogas ¹ , Neill Bell ² , Joshua Baker ³ , Gail S. Kerr ⁴ , Angelo Gaffo ⁵ , J. Steuart Richards ⁶ , Jennifer Barton ⁷ , Pascale Schwab ⁷ , Ted R. Mikuls ⁸ , Namrata Singh ⁹ , Liron Caplan ¹⁰ , Deana Lazaro ¹¹ , Andreas Reimold ¹² and Brian Sauer ¹ , ¹ Salt Lake City VA Medical Center and University of Utah, Salt Lake City, UT, ² Dallas VA Medical Center, Dallas, TX, ³ Philadelphia VA Medical Center and University of Pennsylvania, Philadelphia, PA, ⁴ Washington VA Medical Center, Georgetown and Howard Universities, Washington, DC, ⁵ Birmingham VA and University of Alabama at Birmingham, Birmingham, AL, ⁶ Pittsburgh VA Medical Center and University of Pittsburgh, Pittsburgh, PA, ⁷ VA Portland Health Care System and Oregon Health and Science, Portland, OR, ⁸ VA Nebraska-Western Iowa Health Care System and University of Nebraska Medical Center, Omaha, NE, ⁹ Iowa City VA Medical Center and University of Iowa, Iowa City, IA, ¹⁰ Denver VA Medical Center and University of Colorado, Aurora, CO, ¹¹ Brooklyn VA Medical Center and SUNY Downstate, Brooklyn, NY, ¹² Dallas VA Medical Center and University of Texas - Southwestern, Dallas, TX
5:30 PM - 5:45 PM McCormick Place, W196b	Session: 5T108 ACR Abstract: RA–DX, Manifestations, & Outcomes V: Outcomes Measures (2868–2873)	2872 Variation in Predictors of Patient and Physician Defined Flares in Rheumatoid Arthritis Anna O'Connor ¹ , Joshua Baker ² , Bryant R. England ³ , Brian C. Sauer ⁴ , Grant W. Cannon ⁴ and J. Steuart Richards ⁵ , ¹ University of Pittsburgh Medical Center, Pittsburgh, PA, ² Philadelphia VA Medical Center and University of Pennsylvania, Philadelphia, PA, ³ VA Nebraska-Western Iowa Health Care System & University of Nebraska Medical Center, Omaha, NE, ⁴ Salt Lake City VA Medical Center and University of Utah, Salt Lake City, UT, ⁵ Pittsburgh VA Medical Center and University of Pittsburgh, Pittsburgh, PA

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	12 Protein Phosphatase 2A, a Serine/Threonine Phosphatase, Is Essential for Optimal B Cell Function	Esra Meidan ¹ , Hao Li ² , Christina Ioannidis ³ , Wenliang Pan ³ , Noe Rodriguez Rodriguez ⁴ , Jose Crispin ⁴ , Sokratis Apostolidis⁵ , John Manis ¹ , Amir Sharabi ³ , Maria G. Tsokos ³ and George C Tsokos ⁶ , ¹ Boston Children's Hospital, Boston, MA, ² Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, ³ Beth Israel Deaconess Medical Center, Boston, MA, ⁴ Instituto Nacional de Ciencias Médicas y Nutrición, Mexico City, Mexico, ⁵ University of Pittsburgh Medical Center, Pittsburgh, PA, ⁶ Department of Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, Boston, MA
	274 Socioeconomic Disparities in Disease Activity in Patients with Rheumatoid Arthritis	Lei Zhu¹, Evelyn Talbott² and Larry W. Moreland¹ , ¹ Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ² University of Pittsburgh, Pittsburgh, PA
	336 Physical Activity Monitors: New Tool to Assess Improvement in Myositis	Rohit Aggarwal¹, Chester V. Oddis², Siamak Moghadam-Kia³, Diane Koontz³, Nicole Marie Neiman³ and Bonny Rockette-Wagner³ , ¹ University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA, ² Unviersity of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA, ³ University of Pittsburgh, Pittsburgh, PA
	380 A New Tool to Assess Muscle Strength in Polymyositis and Dermatomyositis: Hand-Held Dynamometry	Didem Saygin¹, Chester V. Oddis², Siamak Moghadam-Kia³, Diane Koontz³, Nicole Marie Neiman³ and Rohit Aggarwal⁴ , ¹ University of Pittsburgh Medical Center, Pittsburgh, PA, ² University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA, ³ University of Pittsburgh, Pittsburgh, PA, ⁴ University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA
	418 Dose-Response Relationship between Neuromuscular Electrical Stimulation and Muscle Function in Patients with Rheumatoid Arthritis	Gustavo J. Almeida, Samannaaz S. Khoja and Sara R. Piva , University of Pittsburgh, Pittsburgh, PA
	419 Effect of Changes in Physical Activity on Cartilage Degradation in Knee Osteoarthritis	Gustavo J. Almeida¹, Charity Moore-Patterson¹, Clair N. Smith¹, Prakash Jayabalan² and Sara R. Piva¹ , ¹ University of Pittsburgh, Pittsburgh, PA, ² Northwestern Feinberg School of Medicine, Chicago, IL
	480 Analyze Myositis with Ultrasound and Exercise (AMUSE) Kids- Initial Analysis of Longitudinal Data	Laura Tasan¹, Emily Brunner¹, Judy Squires¹, Rohit Aggarwal², Chester V. Oddis², Christina K. Zigler³, Kaila Schollaert-Fitch³, Emily Mirizio³ and Kathryn S. Torok¹ , ¹ Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, ² University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA, ³ University of Pittsburgh Med Ctr, Pittsburgh, PA
	481 Stepping It up: The Use of Physical Activity Monitors As an Outcome Measure in Juvenile Myositis	Emily Brunner¹, Laura Tasan¹, Kathryn S. Torok², Bonny Rockette-Wagner³, Christina K. Zigler⁴, Kaila Schollaert-Fitch², Diane Koontz⁴, Chester V. Oddis⁵ and Rohit Aggarwal⁶ , ¹ Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, ² University of Pittsburgh Med Ctr, Pittsburgh, PA, ³ University of Pittsburgh Medical Center, Pittsburgh, PA, ⁴ University of Pittsburgh, Pittsburgh, PA, ⁵ Unviersity of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA, ⁶ University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA

	<p>511 Identifying Vulnerable Plaque in Rheumatoid Arthritis Using Novel Microbubble Contrast-Enhanced Carotid Ultrasonography and Serum Biomarkers of Inflammation and Atherosclerosis</p>	<p>Linda F. Wang, Yaming Li, Douglas Landsittel, Suresh R. Mulukutla, Steven Reis, Marc Levesque, Donald M. Jones, Rachel Gartland, Jennifer Avolio, Ali Hakim Shoushtari, Flordeliza Villanueva, Larry W. Moreland and Kimberly P. Liang, University of Pittsburgh, Pittsburgh, PA</p>
	<p>724 Are Traditional Biomarkers of Lupus Associated with Renal Pathology in Lupus Nephritis?</p>	<p>Kelly Liang, Kimberly P. Liang, Yaming Li, Alex Hurd, Douglas Landsittel and Sheldon Bastacky, University of Pittsburgh, Pittsburgh, PA</p>
	<p>806 Estradiol Levels Are Elevated in Older Men with Diffuse Cutaneous SSc and Are Associated with Decreased Survival</p>	<p>DeAnna Baker Frost¹, Bethany J Wolf¹, Christine Peoples², Katherine Silver³, Maureen Laffoon⁴, Thomas A. Medsger Jr.² and Carol A. Feghali-Bostwick³, ¹Medical University of South Carolina, Charleston, SC, ²University of Pittsburgh, Division of Rheumatology and Clinical Immunology, Pittsburgh, PA, ³Medical University of South Carolina, Division of Rheumatology and Immunology, Charleston, SC, ⁴University of Pittsburgh Medical Center, Pittsburgh, PA</p>
	<p>882 Predictors of Chronic Kidney Disease in US Veterans with Rheumatoid Arthritis</p>	<p>J. Steuart Richards, Pittsburgh VA Medical Center and University of Pittsburgh, Pittsburgh, PA, Richard Amdur, George Washington University School of Medicine & Health Sciences, Washington, DC, Grant W. Cannon, Salt Lake City VA Medical Center and University of Utah, Salt Lake City, UT and Gail S. Kerr, Washington DC VAMC and Georgetown and Howard University, Washington, DC</p>
	<p>883 Evaluation of Fracture Risk and Osteoporosis in Males with Rheumatoid Arthritis</p>	<p>Kanchana Herath¹, Melissa Saul¹, Lei Zhu² and Larry W. Moreland², ¹University of Pittsburgh, Pittsburgh, PA, ²Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA</p>
	<p>900 Abatacept Vs. Placebo in Early Diffuse Cutaneous Systemic Sclerosis— Results of a Phase 2 Investigator Initiated, Double-Blind, Placebo-Controlled, Multicenter, Randomized Controlled Trial Study</p>	<p>Dinesh Khanna¹, Cathie Spino², Erica Bush², Sindhu Johnson³, Lorinda Chung⁴, Jerry Molitor⁵, Virginia D. Steen⁶, Robert Lafyatis⁷, Robert W. Simms⁸, Christopher P. Denton⁹, Suzanne Kafaja¹⁰, Tracy M. Frech¹¹, Vivien Hsu¹², Robyn T. Domsic¹³, Janet E. Pope¹⁴, Jessica K. Gordon¹⁵, Maureen D. Mayes¹⁶, Elena Schioppa², Amber Young¹, Nora Sandorfi¹⁷, Jane Park¹⁸, Faye N. Hant¹⁹, Elana J. Bernstein²⁰, Soumya Chatterjee²¹, Flavia V. Castellino²², Ali Ajam²³, Yannick Allanore²⁴, Marco Matucci-Cerinic²⁵, Oliver Distler²⁶, Ora Singer², Haoyan Zhong², David Fox² and Daniel E. Furst²⁷, ¹Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI, ²University of Michigan, Ann Arbor, MI, ³Mount Sinai Hospital and University Health Network, Toronto, ON, ⁴Stanford University School of Medicine, Palo Alto, CA, ⁵University of Minnesota, Minneapolis, MN, ⁶MedStar Georgetown University Hospital, Washington, DC, ⁷Pittsburgh University Medical Center, Pittsburgh, PA, ⁸Boston University School of Medicine, Boston, MA, ⁹UCL Division of Medicine, Royal Free Campus, London, United Kingdom, ¹⁰University of California Los Angeles, David Geffen School of Medicine, Division of Rheumatology, Los Angeles, CA, ¹¹University of Utah, Salt Lake City, UT, ¹²Robert Wood Johnson University Scleroderma Program, New Brunswick, NJ, ¹³University of Pittsburgh, Pittsburgh, PA, ¹⁴Department of Medicine, University of Western Ontario, London, ON, ¹⁵Hospital for Special Surgery, New York, NY, ¹⁶University of Texas McGovern Medical School, Houston, TX, ¹⁷Perelman School of Medicine, University of Pennsylvania, Pittsburgh, PA, ¹⁸Seattle Rheumatology Associates, Seattle, WA, ¹⁹Medical University of South Carolina, Charleston, SC, ²⁰Columbia University, New York, NY, ²¹Cleveland Clinic, Cleveland, OH, ²²Harvard Medical School, Boston, MA, ²³The Ohio</p>

		State University Wexner Medical Center, Columbus, OH, ²⁴ Hôpital Cochin, Paris, France, ²⁵ University of Florence, Florence, Italy, ²⁶ University Hospital Zurich, Zurich, Switzerland, ²⁷ UCLA, Los Angeles, CA
	925 Abortive Viral Infection Becomes Macrophage Activation Syndrome in Mice with Chronically Elevated Interleukin-18: Evidence for Synergy with Cytotoxic Impairment	Paul Tsoukas¹, Corinne Schneider², Lauren Van Der Kraak² and Scott Canna³ , ¹ Children's Hospital of Pittsburgh, Pittsburgh, PA, ² RK Mellon Institute for Pediatric Research, University of Pittsburgh/Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, ³ RK Mellon Institute for Pediatric Research, University of Pittsburgh/Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA
	1119 Genetic Signatures from RNA Sequencing of Pediatric Localized Scleroderma (LS) Skin	Emily Mirizio¹, Roosha Mandal², Qi Yan¹, William Horne³, Kaila Schollaert-Fitch¹ and Kathryn S. Torok¹ , ¹ University of Pittsburgh Med Ctr, Pittsburgh, PA, ² Carnegie Mellon University, Pittsburgh, PA, ³ Health Sciences Sequencing Core at Children's Hospital of Pittsburgh, Pittsburgh, PA
	1120 Strong HLA and Novel Non-HLA Associations Identified By Auto-Antibody Subset Analysis of African Americans with Scleroderma from the Genome Research in African American Scleroderma Patients Cohort	Pravitt Gourh ¹ , Elaine F. Remmers ² , Theresa Alexander ³ , Steven Boyden ⁴ , Nadia D. Morgan ⁵ , Ami A. Shah ⁶ , Maureen D. Mayes ⁷ , Ayo Doumatey ² , Amy Bentley ² , Daniel Shriner ⁸ , Robyn T. Domsic⁹, Thomas A. Medsger Jr.⁹ , Virginia D. Steen ¹⁰ , Paula S. Ramos ¹¹ , Rick Silver ¹² , Benjamin D. Korman ¹³ , John Varga ¹⁴ , Elena Schiopu ¹⁵ , Dinesh Khanna ¹⁶ , Vivien Hsu ¹⁷ , Jessica K. Gordon ¹⁸ , Lesley Ann Saketkoo ¹⁹ , Heather Gladue ²⁰ , Brynn Kron ²¹ , Lindsey A. Criswell ²¹ , Chris T. Derk ²² , S. Louis Bridges Jr. ²³ , Victoria Shanmugam ²⁴ , Kathleen D. Kolstad ²⁵ , Lorinda Chung ²⁶ , Reem Jan ²⁷ , Elana J. Bernstein ²⁸ , Avram Goldberg ²⁹ , Marcin Trojanowski ³⁰ , Suzanne Kafaja ³¹ , Kathleen Maksimowicz-McKinnon ³² , Settara C Chandrasekharappa ² , Adebowale Adeyemo ² , Charles Rotimi ² , Fredrick M. Wigley ⁵ , Francesco Boin ³³ and Daniel L. Kastner ² , ¹ National Institutes of Health (NIH), National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, MD, ² National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, ³ National Institutes of Health, Bethesda, MD, ⁴ National Institutes of Health (NIH), National Institute on Deafness and Other Communication Disorders, Bethesda, MD, ⁵ Johns Hopkins University School of Medicine, Baltimore, MD, ⁶ Johns Hopkins University, Baltimore, MD, ⁷ University of Texas McGovern Medical School, Houston, TX, ⁸ National Human Genome Research Institute, National Institutes of Health (NIH), Bethesda, MD, ⁹ University of Pittsburgh, Pittsburgh, PA, ¹⁰ MedStar Georgetown University Hospital, Washington, DC, ¹¹ Medical University of South Carolina, Charleston, SC, ¹² Medical University of SC, Charleston, SC, ¹³ Division of Allergy/Immunology and Rheumatology and Center for Musculoskeletal Research, School of Medicine and Dentistry, University of Rochester Medical School, Rochester, New York, USA, Rochester, NY, ¹⁴ Northwestern University, Chicago, IL, ¹⁵ University of Michigan, Ann Arbor, MI, ¹⁶ Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI, ¹⁷ Robert Wood Johnson Medical School, New Brunswick, NJ, ¹⁸ Hospital for Special Surgery, New York, NY, ¹⁹ Tulane, New Orleans, LA, ²⁰ Arthritis and Osteoporosis Consultants of the Carolinas, Charlotte, NC, ²¹ University of California San Francisco, San Francisco, CA, ²² University of Pennsylvania, Philadelphia, PA, ²³ Univ of Alabama, Birmingham, AL, ²⁴ The George Washington University, Washington, DC, ²⁵ Stanford University Medical Center, Stanford, CA, ²⁶ Stanford University School of Medicine, Palo Alto, CA, ²⁷ University of Chicago, Chicago, IL, ²⁸ Columbia University, New York, NY, ²⁹ NYU Langone Medical Center, New York, NY, ³⁰ Boston University, Boston, MA, ³¹ David Geffen School of Medicine, UCLA, Los Angeles, CA, ³² Henry Ford Hospital, Detroit, MI, ³³ University California, San Francisco, San Francisco, CA
	1413 Safety of Tocilizumab in Patients Aged <2 Years with Active Systemic	Sunethra Wimalasundera ¹ , Inmaculada Calvo ² , Rubén J. Cuttica ³ , Hans-Iko Huppertz ⁴ , Rik Joos ⁵ , Diana Milojevic ⁶ , Margalit Rosenkranz⁷ , Kenneth Schikler ⁸ , Tamás Constantin ⁹ , Wendy Douglass ¹ , Chris Wells ¹ , Yukiko Kimura ¹⁰ and Carine Wouters ¹¹ , ¹ Roche Products Ltd., Welwyn Garden City, United Kingdom, ² Hospital Universitario La Fe, Valencia, Spain, ³ Hospital General de Niños Pedro de Elizalde, Buenos Aires, Argentina, ⁴ Professor Hess Children's Hospital, Bremen, Germany, ⁵ ZNA,

	Juvenile Idiopathic Arthritis Treated for One Year	Antwerp, and UZ, Gent, Belgium, ⁶ Tufts Medical Center, Boston, MA, ⁷ Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, ⁸ University of Louisville Medical School, Louisville, KY, ⁹ Semmelweis University, Budapest, Hungary, ¹⁰ Hackensack University Medical Center, Hackensack, NJ, ¹¹ University Hospital Gasthuisberg, Leuven, Belgium
	1422 Impact of Juvenile Localized Scleroderma on Longitudinal Quality of Life	Vidya Sivaraman, Nationwide Children's Hospital and The Ohio State University, Columbus, OH, Kathryn S. Torok , University of Pittsburgh Med Ctr, Pittsburgh, PA, Melissa Moore-Clingenpeel, Nationwide Children's Hospital, Dublin, OH, Fatma Dedeoglu, Boston Children's Hospital, Boston, MA, Polly Ferguson, University of Iowa, Iowa City, IA, Elena Pope, Hospital for Sick Children, Toronto, ON, Thomas G. Mason II, Mayo Clinic Rochester, Rochester, MN, Mara L Becker, Children's Mercy Kansas City, Kansas City, MO, Gloria Higgins, Nationwide Children's Hospital and The Ohio State University, Columbus, OH, C. Eglia Rabinovich, Duke University Medical Center, Durham, NJ, Sandy Hong, U of Iowa Children's Hosp, Iowa City, IA, Maria Ibarra, Children's Mercy Hospital, Kansas City, MO, Kansas City, MO, Ronald M. Laxer, The Hospital for Sick Children, Toronto, ON, Robert Fuhlbrigge, Children's Hospital Colorado, Aurora, CO, Katie Stewart, UT Southwestern, Dallas, TX, Marilyn Punaro, Texas Scottish Rite Hospital for Children, Dallas, TX and Suzanne Li, Hackensack University Medical Center, Hackensack, NJ
	1423 Autoantibody Testing in Pediatric Localized Scleroderma (LS)	Aidan Porter¹, Emily Mirizio¹ , Marvin J. Fritzler ² , Rachael Brown ² , May Choi ² , Kaila Schollaert-Fitch¹, Christopher Liu¹ and Kathryn S. Torok¹ , ¹ University of Pittsburgh Med Ctr, Pittsburgh, PA, ² Cumming School of Medicine, University of Calgary, Calgary, AB
	1424 After 24 Months Observation Period the Patients Related Outcomes Improve Significantly in the Juvenile Scleroderma Inceptions Cohorte	Ivan Foeldvari ¹ , Jens Klotsche ² , Ozgur Kasapcopur ³ , Maria Teresa Terreri ⁴ , Tadey Avcin ⁵ , Rolando Cimaz ⁶ , Mikhail Kostik ⁷ , Maria M. Katsicas ⁸ , Dana Nemkova ⁹ , Cristina Battagliotti ¹⁰ , Lillemor Berntson ¹¹ , Juergen Brunner ¹² , Liora Harel ¹³ , Tilmann Kallinich ¹⁴ , Kirsten Minden ¹⁵ , Maria José Santos ¹⁶ , Kathryn S. Torok¹⁷ and Nicola Helmus ¹ , ¹ Hamburg Center for Pediatric and Adolescent Rheumatology, Hamburg, Germany, ² German Rheumatism Research Center, Berlin, Germany, ³ Istanbul University, Cerrahpasa Medical School, Department of Pediatric Rheumatology, Istanbul, Turkey, ⁴ Federal University of São Paulo (UNIFESP - Universidade Federal de São Paulo), São Paulo, Brazil, ⁵ University Children's Hospital, Ljubljana, Slovenia, ⁶ Ospedale Pediatrico Anna Meyer, Florence, Italy, ⁷ Saint-Petersburg State Pediatric Medical University, Saint-Petersburg, Russian Federation, ⁸ Hospital de Pediatría Prof Dr JP Garrahan, Buenos Aires, Argentina, ⁹ General University Hospital in Prague, Prague, Czech Republic, ¹⁰ Hospital de Niños Dr Orlando Alasia, Santa Fé, Argentina, ¹¹ Dept. of Pediatrics, Uppsala University Hospital, Uppsala, Sweden, ¹² Medical University Innsbruck, Innsbruck, Austria, ¹³ Schneider Children's Medical Center of Israel, Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel, ¹⁴ Charité Berlin Campus Virchow, Berlin, Germany, ¹⁵ Charité-Universitätsmedizin Berlin, Berlin, Germany, ¹⁶ Reuma.pt, Almada, Portugal, Almada, Portugal, ¹⁷ University of Pittsburgh Med Ctr, Pittsburgh, PA
	1425 Update from the Juvenile Scleroderma Inception Cohort	Ivan Foeldvari ¹ , Jens Klotsche ² , Ozgur Kasapcopur ³ , Amra Adrovic ⁴ , Kathryn S. Torok⁵ , Valda Stanevicha ⁶ , Flavio Sztajnbock ⁷ , Maria Teresa Terreri ⁸ , Ekaterina Alexeeva ⁹ , Jordi Anton ¹⁰ , Maria M. Katsicas ¹¹ , Vanessa Smith ¹² , Tadey Avcin ¹³ , Rolando Cimaz ¹⁴ , Mikhail Kostik ¹⁵ , Thomas J. A. Lehman ¹⁶ , Walter A. Sifuentes-Giraldo ¹⁷ , Simone Appenzeller ¹⁸ , Mahesh Janarthanan ¹⁹ , Dana Nemkova ²⁰ , Maria José Santos ²¹ , Cristina Battagliotti ²² , Lillemor Berntson ²³ , Blanca Bica ²⁴ , Juergen Brunner ²⁵ , Patrícia Costa Reis ²⁶ , Despina Eleftheriou ²⁷ , Liora Harel ²⁸ , Gerd Horneff ²⁹ , Tilmann Kallinich ³⁰ , Dragana Lazarevic ³¹ , Kirsten Minden ³² , Susan Mary Nielsen ³³ , Yosef Uziel ³⁴ and Nicola Helmus ¹ , ¹ Hamburg Center for Pediatric and Adolescent Rheumatology, Hamburg, Germany, ² German Rheumatism Research Center, Berlin, Germany, ³ Istanbul University, Cerrahpasa Medical School, Department of Pediatric Rheumatology, Istanbul, Turkey, ⁴ Istanbul University, Cerrahpasa Medical School, Istanbul, Turkey, ⁵ Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, ⁶ Riga Stradiņš University, Riga, Latvia, ⁷ Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, ⁸ Federal University of São Paulo (UNIFESP - Universidade Federal de São Paulo), São Paulo, Brazil, ⁹ National Medical Research Center of Children's Health and Sechenov First Moscow State Medical University of the Ministry of Health of the Russian Federation, Moscow, Russian Federation, ¹⁰ Hospital Sant Joan de Deu, Barcelona, Spain, ¹¹ Hospital de Pediatría Prof Dr JP Garrahan, Buenos Aires, Argentina, ¹² Department of Rheumatology, Ghent University Hospital, Department of Internal Medicine, Ghent University, Ghent, Belgium, Ghent, Belgium, ¹³ University Children's Hospital, Ljubljana, Slovenia, ¹⁴ Ospedale Pediatrico Anna Meyer,

		Florence, Italy, ¹⁵ Saint-Petersburg State Pediatric Medical University, Saint-Petersburg, Russian Federation, ¹⁶ Hospital for Special Surgery Weill Cornell Medical College, New York, NY, ¹⁷ University Hospital Ramón y Cajal, Madrid, Spain, ¹⁸ Faculty of Medical Science State University of Campinas (UNICAMP), Sao Paulo, Brazil, ¹⁹ Pediatric Rheumatology, Chennai, India, ²⁰ General University Hospital in Prague, Prague, Czech Republic, ²¹ Reuma.pt, Almada, Portugal, Almada, Portugal, ²² Hospital de Niños Dr Orlando Alasia, Santa Fé, Argentina, ²³ Dept. of Pediatrics, Uppsala University Hospital, Uppsala, Sweden, ²⁴ "Chefe do Serviço de Reumatologia do Hospital Universitário Clementino Fraga Filho (HUCFF)Universidade Federal do Rio de Janeiro ", Rio de Janeiro, Brazil, ²⁵ Medical University Innsbruck, Innsbruck, Austria, ²⁶ Hospital De Santa Maria, Lisbon, Portugal, ²⁷ UCL Institute of Child Health, London, United Kingdom, ²⁸ Schneider Children's Medical Center of Israel, Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel, ²⁹ Asklepios Kinderklinik St. Augustin GmbH, Sankt Augustin, Germany, ³⁰ Charité Berlin Campus Virchow, Berlin, Germany, ³¹ Dept of Pediatric Rheumatology and Immunology Clinical Center Nis, Nis, Serbia, ³² Children's University Hospital Charite/German Rheumatism Research Centre Berlin, Berlin, Germany, ³³ Rigshospitalet, Copenhagen, Denmark, ³⁴ Meir Medical Center, Kfar Saba, Israel
	1715 Safety and Efficacy of Lenabasum in an Open-Label Extension of a Phase 2 Study in Diffuse Cutaneous Systemic Sclerosis Subjects	Robert F. Spiera ¹ , Laura K. Hummers ² , Lorinda Chung ³ , Tracy M. Frech ⁴ , Robyn T. Domsic ⁵ , Vivien Hsu ⁶ , Daniel E. Furst ⁷ , Jessica K. Gordon ¹ , Maureen D. Mayes ⁸ , Robert W. Simms ⁹ , Elizabeth Lee ¹⁰ , Scott Constantine ¹⁰ and Barbara White ¹⁰ , ¹ Hospital for Special Surgery, New York, NY, ² Johns Hopkins University School of Medicine, Baltimore, MD, ³ Stanford University School of Medicine, Palo Alto, CA, ⁴ University of Utah, Salt Lake City, UT, ⁵ University of Pittsburgh, Pittsburgh, PA, ⁶ Robert Wood Johnson Medical School, New Brunswick, NJ, ⁷ Pacific Arthritis Associates, Los Angeles; University of California, Los Angeles; University of Washington, Seattle; University of Florence, Italy, Los Angeles, CA, ⁸ University of Texas McGovern Medical School, Houston, TX, ⁹ Boston University School of Medicine, Boston, MA, ¹⁰ Corbus Pharmaceuticals, Inc., Norwood, MA
	1762 Plasma iC3b Level As a Biomarker of Disease Relapse in ANCA-Associated Vasculitis	Catherine E. Najem ¹ , Martin Schmidt ² , Chad Stiening ³ , David Cuthbertson ⁴ , Simon Carette ⁵ , Nader A. Khalidi ⁶ , Curry L. Koenig ⁷ , Carol Langford ⁸ , Carol A. McAlear ⁹ , Paul A. Monach ¹⁰ , Larry W. Moreland ¹¹ , Christian Pagnoux ⁵ , Philip Seo ¹² , Ulrich Specks ¹³ , Antoine G. Sreih ¹ , Steven R. Ytterberg ¹⁴ and Peter A. Merkel ¹ , ¹ Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ² Kypha, Inc., St. Louis, MO, ³ Kypha, Inc., St Louis, MO, ⁴ Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁵ Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁶ McMaster University, Hamilton, ON, ⁷ Division of Rheumatology, University of Utah, Salt Lake City, UT, ⁸ Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ⁹ University of Pennsylvania; Perelman School of Medicine, Philadelphia, PA, ¹⁰ Section of Rheumatology, Boston University School of Medicine, Boston, MA, ¹¹ Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹² Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹³ Mayo Clinic College of Medicine, Rochester, MN, ¹⁴ Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN
	1770 Subglottic Stenosis and Endobronchial Disease in Granulomatosis with Polyangiitis	Kaitlin Quinn ¹ , Cailin Sibley ² , Alexander Gelbard ³ , Arlene Sirajuddin ⁴ , Marcela A. Ferrada ⁴ , Marcus Chen ⁴ , David Cuthbertson ⁵ , Simon Carette ⁶ , Nader A. Khalidi ⁷ , Curry L. Koenig ⁸ , Carol Langford ⁹ , Carol A. McAlear ¹⁰ , Paul A. Monach ¹¹ , Larry W. Moreland ¹² , Christian Pagnoux ⁶ , Philip Seo ¹³ , Ulrich Specks ¹⁴ , Antoine G. Sreih ¹⁰ , Steven R. Ytterberg ¹⁵ , Peter A. Merkel ¹⁶ and Peter C. Grayson ¹⁷ , ¹ Georgetown University Hospital, Washington, DC, ² Oregon Health & Science University, Portland, OR, ³ Vanderbilt University Medical Center, Nashville, TN, ⁴ National Institutes of Health, Bethesda, MD, ⁵ Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁶ Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁷ McMaster University, Hamilton, ON, ⁸ Division of Rheumatology, University of Utah, Salt Lake City, UT, ⁹ Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ¹⁰ Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ¹¹ Section of Rheumatology, Boston University School of Medicine, Boston, MA, ¹² Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹³ Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹⁴ Mayo Clinic College of Medicine, Rochester, MN, ¹⁵ Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN, ¹⁶ University of Pennsylvania, Philadelphia, PA, ¹⁷ National Institute of Arthritis, Musculoskeletal and Skin Disease, National Institutes of Health, Bethesda, MD

<p>1881 Discovery and Validation of Novel Disease Subsets in 806 Patients with Takayasu's Arteritis across Four International Cohorts</p>	<p>Ruchika Goel¹, Katherine B. Gribbons², Kathleen Maksimowicz-McKinnon³, Gary S. Hoffman⁴, Sathish Kumar⁵, George Joseph⁵, Raheesh Ravindran⁵, Aswin Nair⁵, David Cuthbertson⁶, Simon Carette⁷, Nader A. Khalidi⁸, Curry L. Koenig⁹, Carol Langford¹⁰, Carol A. McAlear¹¹, Paul A. Monach¹², Larry W. Moreland¹³, Christian Pagnoux⁷, Philip Seo¹⁴, Antoine G. Sreih¹¹, Kenneth J. Warrington¹⁵, Steven R. Ytterberg¹⁵, Peter A. Merkel¹⁶, Debashish Danda¹⁷ and Peter C. Grayson², ¹Christian Medical College, Vellore Tamilnadu, India, ²National Institute of Arthritis, Musculoskeletal and Skin Disease, National Institutes of Health, Bethesda, MD, ³Henry Ford Hospital, Detroit, MI, ⁴Cleveland Clinic, Cleveland, OH, ⁵Christian Medical College, Vellore, India, ⁶Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁷Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁸McMaster University, Hamilton, ON, ⁹Division of Rheumatology, University of Utah, Salt Lake City, UT, ¹⁰Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ¹¹Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ¹²Section of Rheumatology, Boston University School of Medicine, Boston, MA, ¹³Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹⁴Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹⁵Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN, ¹⁶University of Pennsylvania, Philadelphia, PA, ¹⁷Clinical Immunology & Rheumatology, Christian Medical College, Vellore, India, Vellore, India</p>
<p>1953 Randomized Trial on Exercise at Late-Stage after Total Knee Replacement</p>	<p>Sara R. Piva¹, Michael Schneider¹, Charity Moore-Patterson¹, M. Beatriz Catelani¹, Alexandra Gil¹, Brian Klatt², Anthony DiGioia², Gustavo J. Almeida¹, Samannaaz S. Khoja¹, Gwendolin Sowa² and James Irrgang¹, ¹University of Pittsburgh, Pittsburgh, PA, ²University of Pittsburgh Medical Center, Pittsburgh, PA</p>
<p>1962 HLA Contributions to Risk and Protection for Anti-Centromere Autoantibody-Positive Scleroderma</p>	<p>Elaine F. Remmers¹, Theresa Alexander², Nadia D. Morgan³, Ami A. Shah³, Maureen D. Mayes⁴, Adebowale Adeyemo¹, Ayo Doumatey¹, Amy Bentley¹, Daniel Shriner⁵, Settara C Chandrasekharappa¹, Mary A. Carns⁶, Lorinda Chung⁷, Lindsey A. Criswell⁸, Chris T. Derk⁹, Robyn T. Domsic¹⁰, Heather Gladue¹¹, Avram Goldberg¹², Jessica K. Gordon¹³, Vivien Hsu¹⁴, Reem Jan¹⁵, Dinesh Khanna¹⁶, Thomas A. Medsger Jr.¹⁰, Paula S. Ramos¹⁷, Marcin A. Trojanowski¹⁸, Lesley Ann Saketkoo¹⁹, Elena Schiopu²⁰, Victoria Shanmugam²¹, Benjamin D. Korman²², Brynn Kron⁸, S. Louis Bridges Jr.²³, Kathleen D. Kolstad²⁴, Elana J. Bernstein²⁵, Suzanne Kafaja²⁶, Kathleen Maksimowicz-McKinnon²⁷, Rick Silver²⁸, Virginia D. Steen²⁹, John Varga³⁰, Charles Rotimi¹, Francesco Boin³¹, Fredrick M. Wigley³², Daniel L. Kastner¹ and Pravitt Gourh², ¹National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, ²National Institutes of Health, Bethesda, MD, ³Johns Hopkins University School of Medicine, Baltimore, MD, ⁴University of Texas McGovern Medical School, Houston, TX, ⁵National Human Genome Research Institute, National Institutes of Health (NIH), Bethesda, MD, ⁶Northwestern University, Feinberg School of Medicine Scleroderma Program, Chicago, IL, ⁷Stanford University School of Medicine, Palo Alto, CA, ⁸University of California San Francisco, San Francisco, CA, ⁹University of Pennsylvania, Philadelphia, PA, ¹⁰University of Pittsburgh, Pittsburgh, PA, ¹¹Arthritis and Osteoporosis Consultants of the Carolinas, Charlotte, NC, ¹²NYU Langone Medical Center, New York, NY, ¹³Hospital for Special Surgery, New York, NY, ¹⁴Robert Wood Johnson University Scleroderma Program, New Brunswick, NJ, ¹⁵University of Chicago, Chicago, IL, ¹⁶Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI, ¹⁷Medical University of South Carolina, Charleston, SC, ¹⁸Boston University School of Medicine, Boston, MA, ¹⁹Tulane University School of Medicine, New Orleans, LA, ²⁰University of Michigan, Ann Arbor, MI, ²¹The George Washington University, Washington, DC, ²²Division of Allergy/Immunology and Rheumatology and Center for Musculoskeletal Research, School of Medicine and Dentistry, University of Rochester Medical School, Rochester, New York, USA, Rochester, NY, ²³Univ of Alabama, Birmingham, AL, ²⁴Stanford University Medical Center, Stanford, CA, ²⁵Columbia University, New York, NY, ²⁶David Geffen School of Medicine, UCLA, Los Angeles, CA, ²⁷Henry Ford Hospital, Detroit, MI, ²⁸Medical University of SC, Charleston, SC, ²⁹MedStar Georgetown University Hospital, Washington, DC, ³⁰Northwestern University, Chicago, IL, ³¹University California, San Francisco, San Francisco, CA, ³²Johns Hopkins University, Baltimore, MD</p>

	<p>2023 Different Patterns of Interferon-Response-Gene Expression May Elucidate Different Pathomechanisms That Drive IFN-Response-Gene Activation in Patients with Presumed IFN-Mediated Autoinflammatory Diseases</p>	<p>Adriana Almeida de Jesus¹, Yanfeng Hou², Louise Malle³, Scott Canna⁴, Gina A. Montealegre Sanchez¹, Hanna Kim⁵, Rachel VanTries¹, Seza Ozen⁶, Samantha Dill⁷, Dawn C. Chapelle⁷, Bernadette Marrero¹, Yan Huang¹, Angelique Biancotto⁸ and Raphaela Goldbach-Mansky¹, ¹NIAID/NIH, Bethesda, MD, ²Shandong Provincial Qianfoshan Hospital, Shandong University, Shandong, China, ³Icahn School of Medicine at Mount Sinai, New York, NY, ⁴RK Mellon Institute for Pediatric Research, University of Pittsburgh/Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, ⁵NIAMS, NIH, Bethesda, MD, ⁶Hacettepe University Vasculitis Center (HUVAC), Ankara, Turkey, ⁷NIAMS/NIH, Bethesda, MD, ⁸NIAID, NIH, Bethesda, MD</p>
	<p>2033 Multiparameter Mass Cytometry By Time-of-Flight Spectrometry (CyTOF) Phenotyping in Pediatric Localized Scleroderma</p>	<p>Emily Mirizio¹, Elizabeth D. Mellins², Claudia Macaubas², Holden T. Maecker³, Fabian Gartner³, Liza Konnikova⁴, Kaila Schollaert-Fitch¹ and Kathryn S. Torok¹, ¹University of Pittsburgh Med Ctr, Pittsburgh, PA, ²Stanford University Med Ctr, Stanford, CA, ³Stanford University, Stanford, CA, ⁴Children's Hospital of Pittsburgh, Pittsburgh, PA</p>
	<p>2094 Examining T Cell Exhaustion in Murine Systemic Lupus Erythematosus</p>	<p>Jeremy Tilstra¹, Lyndsay Avery², Ashley Menk², Rachael Gordon², Shuchi Smita², Lawrence Kane², Maria Chikina², Greg Delgoffe² and Mark Shlomchik², ¹Univ of Pittsburgh Medical Center, Pittsburgh, PA, ²University of Pittsburgh, Pittsburgh, PA</p>
	<p>2178 Provider Perceptions of Telerheumatology within the Veterans Health Administration: A National Survey Study</p>	<p>Rachel A. Matsumoto¹, Bryant R. England², Ginnifer Mastarone³, Linda Ganzini⁴, J. Steuart Richards⁵, Elizabeth Chang⁶, Patrick R. Wood⁷ and Jennifer Barton⁴, ¹VA Portland Health Care System, Portland, OR, ²VA Nebraska-Western Iowa Health Care System & University of Nebraska Medical Center, Omaha, NE, ³Oregon Health & Science University - Portland State University School of Public Health, Portland, OR, ⁴Oregon Health & Science University, Portland, OR, ⁵Pittsburgh VA Medical Center and University of Pittsburgh, Pittsburgh, PA, ⁶Phoenix VAHCS, Phoenix, AZ, ⁷Rocky Mountain Regional Veterans Affairs Medical Center, Aurora, CO</p>
	<p>2290 Long Term Follow-up Results of Myositis Patients Treated with H. P. Acthar Gel</p>	<p>Didem Saygin¹, Galina Marder², Chester V. Oddis³, Siamak Moghadam-Kia⁴, Preeya Nandkumar⁵, Zengbiao Qui¹, Diane Koontz⁴ and Rohit Aggarwal⁶, ¹University of Pittsburgh Medical Center, Pittsburgh, PA, ²Northwell Health, Manhasset, NY, ³University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA, ⁴University of Pittsburgh, Pittsburgh, PA, ⁵Northwell Health, GREAT NECK, NY, ⁶University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA</p>
	<p>2294 Improving EULAR/Acr Classification Criteria for Idiopathic Inflammatory Myopathies</p>	<p>Kylee Dawson¹, Chester V. Oddis², Siamak Moghadam-Kia², Diane Koontz², Nicole Niemen² and Rohit Aggarwal², ¹University of Pittsburgh Medical Center Mercy Hospital, Pittsburgh, PA, ²University of Pittsburgh/University of Pittsburgh Medical Center, Pittsburgh, PA</p>
	<p>2374 Flare Warnings: People with Rheumatoid Arthritis'</p>	<p>Nancy A. Baker¹, Laurel Person Mecca² and Sara R. Piva², ¹Tufts University, Medford, MA, ²University of Pittsburgh, Pittsburgh, PA</p>

	Perceptions of Their Flares	
	2412 Evaluating Gaps in Reproductive Health Knowledge Among Women with Rheumatic Diseases	Mehret Birru Talabi ¹ , Megan E. B. Clowse ² , Susan J. Blalock ³ , Lan Yu ⁴ , Alaina Chodoff ⁵ and Sonya Borrero ⁴ , ¹ University of Pittsburgh School of Medicine, Pittsburgh, PA, ² Duke University, Durham, NC, ³ University of North Carolina at Chapel Hill, Chapel Hill, NC, ⁴ University of Pittsburgh, Pittsburgh, PA, ⁵ UPMC, Pittsburgh, PA
	2695 Progressive Skin Fibrosis, Internal Organ Involvement and All-Cause Mortality in an Early Diffuse Cutaneous Systemic Sclerosis United States Multicenter Registry	Kate Homer ¹ , Benjamin Brennan ¹ , Shervin Assassi ² , Elana J. Bernstein ³ , Flavia V. Castelino ⁴ , Robyn T. Domsic ⁵ , Jessica K. Gordon ⁶ , Faye N. Hant ⁷ , Monique Hinchcliff ⁸ , Ami A. Shah ⁹ , Victoria Shanmugam ¹⁰ , Virginia D. Steen ¹¹ , Veronica J. Berrocal ¹ , Melanie Hemmrich ¹² , Tracy M. Frech ¹³ and Dinesh Khanna ¹⁴ , ¹ University of Michigan, Ann Arbor, MI, ² University of Texas McGovern Medical School, Houston, TX, ³ Columbia University, New York, NY, ⁴ Harvard Medical School, Boston, MA, ⁵ University of Pittsburgh, Pittsburgh, PA, ⁶ Hospital for Special Surgery, New York, NY, ⁷ Medical University of South Carolina, Charleston, SC, ⁸ Northwestern University, Chicago, IL, ⁹ Johns Hopkins University School of Medicine, Baltimore, MD, ¹⁰ The George Washington University, Washington, DC, ¹¹ MedStar Georgetown University Hospital, Washington, DC, ¹² Bayer AG, Wuppertal, Germany, ¹³ University of Utah, Salt Lake City, UT, ¹⁴ Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI
	2708 Current Management of Early Diffuse Cutaneous Systemic Sclerosis in US Scleroderma Centers	Rebecca B. Blank ¹ , Jessica K. Gordon ² , Jackie Szymonifka ² , Shervin Assassi ³ , Elana J. Bernstein ⁴ , Flavia V. Castelino ⁵ , Robyn T. Domsic ⁶ , Faye N. Hant ⁷ , Monique Hinchcliff ⁸ , Kate Homer ⁹ , Ami A. Shah ¹⁰ , Victoria Shanmugam ¹¹ , Virginia D. Steen ¹² , Tracy M. Frech ¹³ and Dinesh Khanna ¹⁴ , ¹ New York Presbyterian-Weill Cornell Hospital, New York, NY, ² Hospital for Special Surgery, New York, NY, ³ University of Texas McGovern Medical School, Houston, TX, ⁴ Columbia University, New York, NY, ⁵ Harvard Medical School, Boston, MA, ⁶ University of Pittsburgh, Pittsburgh, PA, ⁷ Medical University of South Carolina, Charleston, SC, ⁸ Northwestern University Medical School, Chicago, IL, ⁹ University of Michigan, Ann Arbor, MI, ¹⁰ Johns Hopkins University School of Medicine, Baltimore, MD, ¹¹ The George Washington University, Washington, DC, ¹² MedStar Georgetown University Hospital, Washington, DC, ¹³ University of Utah, Salt Lake City, UT, ¹⁴ Division of Rheumatology, Department of Internal Medicine, University of Michigan Scleroderma Program, University of Michigan, Ann Arbor, MI
	2741 Candidate Biomarkers in ANCA-Associated Vasculitis Identified Using a Proteomic Approach	Paul A. Monach ¹ , Hemang Parikh ² , Laurie Conklin ³ , Jesse Damsker ⁴ , Peter C. Grayson ⁵ , David Cuthbertson ⁶ , Simon Carette ⁷ , Nader A. Khalidi ⁸ , Curry L. Koenig ⁹ , Carol Langford ¹⁰ , Carol A. McAlear ¹¹ , Larry W. Moreland ¹² , Christian Pagnoux ⁷ , Philip Seo ¹³ , Ulrich Specks ¹⁴ , Antoine G. Sreih ¹⁵ , Steven R. Ytterberg ¹⁶ , Eric Hoffman ⁴ and Peter A. Merkel ¹⁷ , ¹ VA Boston Healthcare System, Boston, MA, ² University of South Florida, Tampa, FL, ³ ReveraGen BioPharma, Rockville, MD, ⁴ ReveraGen Biopharma, Rockville, MD, ⁵ National Institute of Arthritis, Musculoskeletal and Skin Disease, National Institutes of Health, Bethesda, MD, ⁶ Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁷ Division of Rheumatology, Mount Sinai Hospital, Toronto, ON, ⁸ McMaster University, Hamilton, ON, ⁹ Division of Rheumatology, University of Utah, Salt Lake City, UT, ¹⁰ Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ¹¹ University of Pennsylvania; Perelman School of Medicine, Philadelphia, PA, ¹² Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹³ Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹⁴ Mayo Clinic College of Medicine, Rochester, MN, ¹⁵ Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ¹⁶ Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN, ¹⁷ Division of Rheumatology and the Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania, Philadelphia, PA
	2790 Screening of Patients with Adult-Onset Idiopathic Polyarteritis Nodosa for Deficiency of Adenosine Deaminase 2	Oskar Schnappauf ¹ , Monique Stoffels ² , Ivona Aksentijevich ² , Daniel L. Kastner ² , Peter C. Grayson ³ , David Cuthbertson ⁴ , Simon Carette ⁵ , Sharon A. Chung ⁶ , Lindsay J. Forbess ⁷ , Nader A. Khalidi ⁸ , Curry L. Koenig ⁹ , Carol Langford ¹⁰ , Carol A. McAlear ¹¹ , Paul A. Monach ¹² , Larry W. Moreland ¹³ , Christian Pagnoux ⁵ , Philip Seo ¹⁴ , Jason Springer ¹⁵ , Antoine G. Sreih ¹¹ , Kenneth J. Warrington ¹⁶ , Steven R. Ytterberg ¹⁶ and Peter A. Merkel ¹⁷ , ¹ National Institutes of Health, Bethesda, MD, ² National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, ³ National Institute of Arthritis, Musculoskeletal and Skin Disease, National Institutes of Health, Bethesda, MD, ⁴ Department of Biostatistics and Informatics, Department of Pediatrics, University of South Florida, Tampa, FL, ⁵ Division of Rheumatology, Mount Sinai

		Hospital, Toronto, ON, ⁶ University of California, San Francisco, San Francisco, CA, ⁷ Cedars-Sinai Medical Center, Los Angeles, CA, ⁸ McMaster University, Hamilton, ON, ⁹ Division of Rheumatology, University of Utah, Salt Lake City, UT, ¹⁰ Department of Rheumatic and Immunologic Diseases, Cleveland Clinic, Cleveland, OH, ¹¹ Division of Rheumatology, University of Pennsylvania, Philadelphia, PA, ¹² Section of Rheumatology, Boston University School of Medicine, Boston, MA, ¹³ Division of Rheumatology, University of Pittsburgh, Pittsburgh, PA, ¹⁴ Division of Rheumatology, Johns Hopkins University, Baltimore, MD, ¹⁵ Division of Allergy, Clinical Immunology & Rheumatology, Kansas City, KS, ¹⁶ Division of Rheumatology, Mayo Clinic College of Medicine, Rochester, MN, ¹⁷ Division of Rheumatology and the Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania, Philadelphia, PA
	2857 An Electronic Audit, Reporting, and Data Correction System Improves the Quantity and Quality of Observational Data Collected for US Veterans Enrolled in the Veterans Affairs Rheumatoid Arthritis Registry	Grant W. Cannon ¹ , Jorge Rogas ¹ , Neill Bell ² , Joshua Baker ³ , Gail S. Kerr ⁴ , Angelo Gaffo ⁵ , J. Stuart Richards ⁶ , Jennifer Barton ⁷ , Pascale Schwab ⁷ , Ted R. Mikuls ⁸ , Namrata Singh ⁹ , Liron Caplan ¹⁰ , Deana Lazaro ¹¹ , Andreas Reimold ¹² and Brian Sauer ¹ , ¹ Salt Lake City VA Medical Center and University of Utah, Salt Lake City, UT, ² Dallas VA Medical Center, Dallas, TX, ³ Philadelphia VA Medical Center and University of Pennsylvania, Philadelphia, PA, ⁴ Washington VA Medical Center, Georgetown and Howard Universities, Washington, DC, ⁵ Birmingham VA and University of Alabama at Birmingham, Birmingham, AL, ⁶ Pittsburgh VA Medical Center and University of Pittsburgh, Pittsburgh, PA, ⁷ VA Portland Health Care System and Oregon Health and Science, Portland, OR, ⁸ VA Nebraska-Western Iowa Health Care System and University of Nebraska Medical Center, Omaha, NE, ⁹ Iowa City VA Medical Center and University of Iowa, Iowa City, IA, ¹⁰ Denver VA Medical Center and University of Colorado, Aurora, CO, ¹¹ Brooklyn VA Medical Center and SUNY Downstate, Brooklyn, NY, ¹² Dallas VA Medical Center and University of Texas - Southwestern, Dallas, TX
	2872 Variation in Predictors of Patient and Physician Defined Flares in Rheumatoid Arthritis	Anna O'Connor ¹ , Joshua Baker ² , Bryant R. England ³ , Brian C. Sauer ⁴ , Grant W. Cannon ⁴ and J. Stuart Richards ⁵ , ¹ University of Pittsburgh Medical Center, Pittsburgh, PA, ² Philadelphia VA Medical Center and University of Pennsylvania, Philadelphia, PA, ³ VA Nebraska-Western Iowa Health Care System & University of Nebraska Medical Center, Omaha, NE, ⁴ Salt Lake City VA Medical Center and University of Utah, Salt Lake City, UT, ⁵ Pittsburgh VA Medical Center and University of Pittsburgh, Pittsburgh, PA