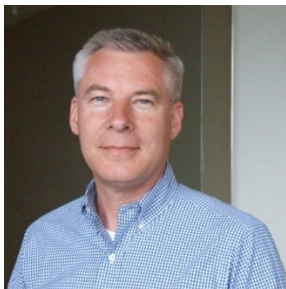


Dr. Tomas Mustelin Recipient of Maury Endowed Professorship



Dr. Tomas Mustelin has been selected as the recipient of the Herndon and Esther Maury Endowed Professorship in Rheumatology. This professorship was created to enhance the University's ability to attract and retain distinguished faculty members in the area of rheumatoid arthritis research.

Dr. Mustelin joined the Division of Rheumatology in 2018. He received his MD and D. Med. Sci. (PhD equivalent) from the University of Helsinki, Finland. Dr. Mustelin completed his postdoctoral training at the Research Institute of Scripps Clinic, La Jolla, California. Between 1991 and 2007, Dr. Mustelin had a very successful academic career, achieving the rank of full professor in just seven years before transitioning to industry work.

Dr. Mustelin has published over 230 original articles and reviews. His early career research focused on the molecular mechanisms of T cell antigen receptor signaling. He was the first to show that phosphorylation of proteins in tyrosine residues by the Lck kinase initiates T cell activation and co-discovered the enzyme, PTPN22, that is implicated in several autoimmune diseases. In November 2019, Dr. Mustelin was appointed Associate Director of the UW Center for Innate Immunity and Immune Disease (CIID).

Additionally, Dr. Mustelin has an extensive and productive mentorship and training record. He has served as a mentor for over 37 postdoctoral trainees (MD and PhD fellows). Many of his trainees have gone on to become leaders within their field.

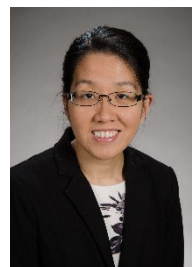
Dr. Elkon, Division Head, stated "I believe that Dr. Mustelin's combined academic and industrial background will be instrumental in bridging basic science research with the clinical research priorities and interests of trainees and faculty."

Dr. Lee Nelson Named ACR Master



Dr. J. Lee Nelson was chosen to receive a Mastership Award from the American College of Rheumatology (ACR). Recognition as a Master of the ACR is one of the "highest honors the College bestows to members who have made outstanding contributions to the field of rheumatology through scholarly achievement and/or service to their patients, students, and profession." Dr. Nelson was presented with the award at the ACR Annual Meeting in Atlanta in November 2019.

Dr. Jean Liew Receives 2019 ACR Distinguished Fellow Award



Dr. Jean Liew, third year Fellow and Acting Instructor in the Division of Rheumatology, received the 2019 ACR Distinguished Fellow Award. This award is given to clinical and research fellows who demonstrate excellence while in a rheumatology fellowship training program.

Dr. Liew has been awarded multiple successful grants, helped her cohort win the 2018 & 2019 ACR/ARHP Knowledge Bowl, and conducted research on Spondyloarthritis. She is currently pursuing a MS in Epidemiology and is completing a thesis under the direction of Dr. Susan Heckbert. Dr. Liew studies the association of continuous nonsteroidal anti-inflammatory drug use and the development of incident hypertension.

Dr. Liew is a member of the Spondyloarthritis Research and Treatment Network and the Assessment of Spondyloarthritis International Society; and has received grant funding for her research from both organizations. She is also funded by the Division's NIH T32 training grant.

ACR 2019 HIGHLIGHTS:

- > ACR Knowledge Bowl Champions!
- > 67 accepted abstracts
- > 6 oral presentations
- > 2 plenary sessions
- > 10 invited speakers

Dr. Namrata Singh Appointed as Assistant Professor



Dr. Namrata Singh, MD, MSCI, FACP was appointed Assistant Professor on the Physician Scientist pathway within the Division of Rheumatology on October 1, 2019.

She received her MD at the All India Institute of Medical Sciences (AIIMS) in New Delhi, India in 2006 and completed her residency at

Mount Sinai Medical Center in Miami Beach, FL. She graduated from the Rheumatology Fellowship program Temple University Hospital in Philadelphia, PA in 2013. Dr. Singh joins us from the University of Iowa, where she worked from 2013- 2019.

Her research interests include Rheumatoid Arthritis and Lupus. Dr. Singh also hopes to collaborate on her research with the Veteran Affairs Puget Sound Health Services. Dr. Singh's clinical practice will be at the University of Washington Medical Center Bone & Joint Clinic.

Save the Date: 2020 Lane Lecture



On March 19th and 20th, the Division will hold our 2020 annual Lane Lecture & Reception. The Division will host **Dr. Kesihi Fujio** as the 2020 Visiting Speaker. Dr. Fujio is a Professor at the Graduate School of Medicine and head of the Division of Rheumatology at the University of Tokyo.

Dr. Fujio will present at the Department of Medicine Grand Rounds on Thursday March 19th, 2020 as well as a Division of Rheumatology Grand Rounds on Friday March 20th, 2020. The Rheumatology Grand Rounds on March 20th will be hosted in partnership with the UW Center for Innate Immunity and Immune Disease (CIID). This annual event is honor of James J. Lane Jr, M.D., who was the first fellowship trainee of the UW Division of Rheumatology in 1958.

North American Workshop on Vascular Ultrasound in Large Vessel Vasculitis

The first North American Workshop on vascular ultrasound for Large Vessel Vasculitis took place at the University of Washington on October 25-27, 2019.

The goal was to educate rheumatologists experienced in ultrasound on how to detect Large Vessel Vasculitis.



This workshop was organized by **Dr. Elizabeth Jernberg, Dr. Alison Bays, Dr. Ingeborg Saksen,** and **Dr. Scott Pollock**. Twenty-five participants from all over the United States learned from experienced sonographers from the U.S., Norway, and Germany. A core feature was four scanning sessions in which the participants were able to use ultrasound to evaluate the large vessels in patients with large vessel vasculitis. The next North American Workshop on Vascular Ultrasound in Large Vessel Vasculitis is planned for August 14-16, 2020.

Division Awards & Grants

Alison Bays, MD was awarded the following grants:

- \$20,000 by Genentech for "Ultrasound in Large Vessel Vasculitis Conference Project".
- \$50,000 by AbbVie Inc. for "UW Fellowship in Ankylosing Spondylitis Research" which supports postdoctoral scholar Ting Wang's research.

Keith Elkon, MD was awarded the following grants:

- \$92,500 grant by the NIH for a project titled "HTS Assays for Targeting the cGAS-STING Pathway in Autoimmune Diseases and Cancer"
- \$102,949 by the Omeros Corporation for a study on Seronegative Rheumatoid Arthritis (SRA)
- \$375,000 by the Rheumatology Research Foundation for a project titled "Impact of Early therapy with tumor necrosis factor inhibitors on Lymphoma Risk in Patients with Rheumatoid Arthritis"
- \$404,764 by the NIH for a project titled "Mechanisms of End Organ Damage in Novel Polygenic Lupus Models"

Christian Lood, PhD was awarded the following grants:

- \$57,151 from Horizon Pharma for the project "NET-Mediated Inflammation in Gout"
- \$100,000 from the Arthritis National Research Foundation (ANRF) for the project "Clinical Utility of Neutrophil and Mitochondrial Biomarkers in Rheumatoid Arthritis"
- \$10,622 from Exagen Diagnostics, Inc. for the project "Clinical utility of biomarkers of immune complex-mediated NETosis in Eystemic Lupus Erythematosus"

Grant Hughes, MD and Jean Liew, MD were awarded the following grants in support of Dr. Liew's research on cardiovascular risk in Ankylosing Spondylitis:

- \$28,151 from the Assessment of SpondyloArthritis International Society
- \$50,000 from Janssen Biotech, Inc.
- \$72,355 from Pfizer US Pharmaceuticals Group

Postdoctoral scholars Ting Wang and Bhargavi Duvvuri have each received Early Investigator Catalyst Awards from the Institute of Translational Health Sciences (ITHS) Pilot Translational and Clinical Studies program. Dr. Wang's project is titled, "The Role of Neutrophils in Abnormal B cells Development in Systemic Lupus Erythematosus Patients". Dr. Duvvuri's project title is

"Characterization of CD11b as a DNA Binding Receptor to Study mtDNA-Mediated Inflammation in Systemic Lupus Erythematosus."

2019 Walk to End Lupus

The UW Division of Rheumatology took part in the 2019 Walk to End Lupus Now organized by the Lupus Foundation of America on Saturday September 21st, 2019.

Our team of 20 members raised \$1,145 for increasing Lupus awareness as well as critical research of the disease. In addition to our walking team, the Division had a table at the event packed with information on our clinical services and research activities as well as an array of UW branded items for walk participants to take home with them. We had a great time and enjoyed the opportunity for patients to connect with our clinicians and researchers.



Opportunities for Giving

You can support programs and initiatives in the Division of Rheumatology. We have established four Professorships and eight endowments through generous donations. In addition, several gift funds target specific programs such as the Rheumatology Fellowship Fund, the Rheumatology Discretionary Fund, and the Rheumatology Research Fund for Junior Faculty.

Send Checks to:

Division of Rheumatology, Campus Box 356428,
1959 NE Pacific St, Seattle, WA 98195

To learn more about these opportunities for giving, please visit:
<http://rheumatology.uw.edu>

Division Publications

High TLR7 Expression Drives the Expansion of CD19+CD24hiCD38hi Transitional B Cells and Autoantibody Production in SLE Patients. **Wang T, Marken J, Chen J, Tran VB, Li QZ, Li M, Cerosaletti K, Elkon KB, Zeng X, Giltiay NV.** *Front Immunol.* 2019 Jun 4;10:1243. doi: 10.3389/fimmu.2019.01243. eCollection 2019. PMID: 31231380

Neutrophil Extracellular Traps in Tissue and Periphery in Juvenile Dermatomyositis. **Duvvuri B, Pachman LM, Morgan G, Khojah AM, Klein-Gitelman M, Curran ML, Doty S, Lood C.** *Arthritis Rheumatol.* 2019 Aug 12. doi: 10.1002/art.41078. [Epub ahead of print] PMID: 31403247

A Neutrophil Activation Biomarker Panel in Prognosis and Monitoring of Patients With Rheumatoid Arthritis. **Bach M, Moon J, Moore R, Pan T, Nelson JL, Lood C.** *Arthritis Rheumatol.* 2019 Jul 28. doi: 10.1002/art.41062. [Epub ahead of print]. PMID: 31353807

High prevalence and disease correlation of autoantibodies against p40 encoded by long interspersed nuclear elements (LINE-1) in systemic lupus erythematosus. **Carter V, LaCava J, Taylor MS, Liang SY, Mustelin C, Ukadike KC, Bengtsson A, Lood C, Mustelin T.** *Arthritis Rheumatol.* 2019 Jul 24. doi: 10.1002/art.41054. [Epub ahead of print]. PMID: 31342656

Establishment of an international autoantibody reference standard for human anti-DFS70 antibodies: proof-of-concept study for a novel Megapool strategy by pooling individual specific sera. **Dellavance A, Baldo DC, Zheng B, Mora RA, Fritzier MJ, Hiepe F, Rönnelid J, Satoh M, Garcia-De La Torre I, Wener MH, Chan EKL, Andrade LEC.** *Clin Chem Lab Med.* 2019 Oct 25;57(11):1754-1763. doi: 10.1515/cclm-2019-0087. PMID: 31005948

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UW Medicine

DEPARTMENT OF MEDICINE

DIVISION OF RHEUMATOLOGY

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Division Publications – continued

Macrophage Migration Inhibitory Factor Regulates U1 Small Nuclear RNP Immune Complex-Mediated Activation of the NLRP3 Inflammasome. Shin MS, Kang Y, **Wahl ER**, Park HJ, Lazova R, Leng L, Mamula M, Krishnaswamy S, Bucala R, Kang I. *Arthritis Rheumatol*. 2019 Jan;71(1):109-120. doi: 10.1002/art.40672. Epub 2018 Dec 4. PMID: 30009530

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High prevalence and disease correlation of autoantibodies against p40 encoded by long interspersed nuclear elements (LINE-1) in systemic lupus erythematosus. **Carter V**, LaCava J, Taylor MS, Liang SY, Mustelin C, **Ukadike KC**, Bengtsson A, **Lood C**, **Mustelin T**. *Arthritis Rheumatol*. 2019 Jul 24. doi: 10.1002/art.41054. [Epub ahead of print] PMID: 31342656

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Antibiotics inhibit tumor and disease activity in cutaneous T-cell lymphoma. Lindahl LM, Willerslev-Olsen A, Gjerdrum LMR, Nielsen PR, Blümel E, Rittig AH, Celis P, Herpers B, Becker JC, Stausbøl-Grøn B, Wasik MA, Gluud M, Fredholm S, Buus TB, Johansen C, Nastasi C, Peiffer L, Kubat L, Bzorek M, Eriksen JO, Krejsgaard T, Bonfeld CM, Geisler C, **Mustelin T**, Langhoff E, Givskov M, Woetmann A, Kilian M, Litman T, Iversen L, Odum N. *Blood*. 2019 Sep 26;134(13):1072-1083. doi: 10.1182/blood.2018888107. Epub 2019 Jul 22. PMID: 31331920

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Takayasu's arteritis compared to giant cell arteritis. **Michailidou D**, Rosenblum JS, Rimland CA, Marko J, Ahlman MA, Grayson PC. *Ann Rheum Dis*. 2019 Oct 24. pii: annrheumdis-2019-216145. doi: 10.1136/annrheumdis-2019-216145. [Epub ahead of print] PMID: 31649025