

## CURRICULUM VITAE !

### MARGRIT WIESENDANGER, MD, PHD !

margrit.wiesendanger@mssm.edu

#### **APPOINTMENTS/EMPLOYMENT**

- 07/2008 – 06/2009 ! Instructor of Medicine, Division of Rheumatology, Department of Medicine, Columbia University Medical Center, New York, NY
- 07/2009 – 06/2010 ! Instructor of Medicine, Divisions of Rheumatology and General Medicine, Dept. of Medicine, Columbia University Medical Center, New York, NY
- 07/2010 – 04/2015 Assistant Professor of Medicine, Division of General Medicine, Dept. of Medicine, Columbia University Medical Center, New York, NY
- 04/2015 – present ! Assistant Professor of Medicine, Division of Rheumatology, Department of Medicine, Mount Sinai Health System, New York, NY
- 07/2015 – present ! Program Director, Fellowship Training, Division of Rheumatology, Department of Medicine, Icahn School of Medicine at Mount Sinai, New York, NY

#### **GAPS IN EMPLOYMENT**

Not applicable

#### **EDUCATION**

- 08/1987 – 06/1991 ! Bachelor of Arts in East Asian Studies, *magna cum laude* with Honors, Brown University, Providence RI
- 08/1992 – 06/2000 ! Doctorate in Medicine and Philosophy, Medical Scientist Training Program in Cell Biology/Immunology, Albert Einstein College of Medicine, Bronx, NY. Thesis Advisor: Matthew Scharff, MD
- 07/2000 – 06/2002 ! Resident in Internal Medicine, ABIM Research Pathway, Department of Medicine, Columbia University Medical Center, New York, NY
- 07/2002 – 04/2003 ! Post-Doctoral Research Fellow, Laboratory of Yongrui Zou, PhD, Department of Microbiology, Columbia University, New York, NY
- 05/2003 – 06/2005 ! Clinical Scholar/Post-Doctoral Research Fellow, Laboratory of Robert Darnell, MD, PhD, Rockefeller University, New York, NY
- 07/2005 – 06/2007 ! Clinical Fellow in Rheumatology, Laboratory of Betty Diamond, MD, Division of Rheumatology, Department of Medicine, Columbia University Medical Center, New York, NY
- 07/2007 – 06/2008 ! Research Fellow in Rheumatology, Laboratory of Robert Winchester, MD, Division of Rheumatology, Department of Medicine, Columbia University Medical Center, New York, NY

## **CERTIFICATION**

08/2004, 12/2014                      Diplomate – American Board of Internal Medicine (Internal Medicine)  
08/2008, 12/2018                      Diplomate – American Board of Internal Medicine (Rheumatology)

## **LICENSURE**

06/2001                                      Physician License – State of New York, 222037  
07/2003                                      Drug Enforcement Administration License – Department of Justice

## **HONORS/AWARDS**

05/2000                                      Alpha Omega Alpha – Albert Einstein College of Medicine, New York, NY  
06/2010                                      Ambulatory Teacher of the Year – Department of Medicine Residency Training Program, Columbia University Medical Center, New York, NY  
06/2011                                      Keynote Speaker – Commencement Ceremony, Department of Medicine Residency Training Program, Columbia University Medical Center, New York, NY  
04/2012                                      Daniel V. Kimberg Memorial Junior Faculty Teaching Award and Lecture – Department of Medicine, Columbia University Medical Center, New York, NY  
04/2012                                      Volunteer Attending Award – Columbia Student Medical Outreach (CoSMO) Clinic, Columbia University College of Physicians and Surgeons, New York, NY  
04/2013                                      Partnership Award – CoSMO Clinic, Columbia University College of Physicians and Surgeons, New York, NY  
06/2013                                      Ewig Clinical Scholar Award for Outstanding Teaching, Department of Medicine, Columbia University Medical Center, New York, NY  
05/2014                                      Morning Report Discussant Award – Department of Medicine Residency Training Program, Columbia University Medical Center, New York, NY

## **PATENTS**

Not applicable

## **OTHER PROFESSIONAL ROLES**

12/2009 - present !	<u>Fellow</u> , American College of Rheumatology
06/2011 - present !	<u>Fellow</u> , American College of Physicians
09/2017 – present !	<u>Medicine Residency Selection Committee Member</u> , Department of Medicine, Icahn School of Medicine at Mount Sinai, New York, NY
06/2018 - present !	<u>Abstract Review Committee Member</u> , Section on Healthcare Disparities, American College of Rheumatology
06/2018 – present !	<u>Planning Committee Member</u> , Graduate Medical Education Conference, Icahn School of Medicine at Mount Sinai, New York, NY

## **RESEARCH PROFILE**

### A Peptide Mimic of Double-Stranded DNA: a Protective Effect in a Murine Model of Lupus Nephritis? ! (Laboratory of Betty Diamond, MD, Columbia University) !

Previous studies had identified a short peptide (DWEYS) as a mimic of double-stranded DNA. In this ! study, I determined the bioavailability and half-life of modified versions of the peptide in mouse, ! administered via different routes. My role was to then challenge a murine model of spontaneous lupus ! nephritis (NZB/NZW F1) with soluble peptide or vehicle control, in order to evaluate whether the peptide ! could delay the onset of proteinuria or decrease the amount of immunoglobulin deposits in renal tissue. ! While these studies showed that the 5 amino acid peptide had no discernible effect (not published), subsequent attempts, using the full length decapeptide coupled to an antibody targeting the Fc $\gamma$ RIII receptor, CD35 or CD22 were successful in delaying or abrogating nephritis in lupus-prone mice. !

### T Cell Spectratype Profiles in Inflammatory Disease: Calcific Aortic Stenosis and Lupus Nephritis (Laboratory of Robert Winchester, MD, Columbia University)

In these studies, we tested the hypothesis that cytotoxic T cells may become activated in response to a limited number of antigens. Two distinct disease entities were evaluated: calcific aortic stenosis, a common valve disorder that has been linked to immunosenescence, and lupus nephritis, in which the RNA encoding the T cell receptor variable region could be microdissected from infiltrating T cells. I performed sequence analysis on T cells sorted from the peripheral blood, isolated from valve tissue removed at surgery, and from renal biopsy samples, in order to characterize the T cell response. These studies were published (see bibliography) and submitted as NIH grant progress reports.

### Synovial biopsy for the discovery of novel genes and biomarkers in inflammatory arthritis (Laboratory of Percio Gulko, MD, Icahn School of Medicine at Mount Sinai)

Previous studies in the Gulko Lab have identified a number of genes responsible for regulating the severity of rheumatoid arthritis and joint damage. The lab has also studied the behavior of synoviocytes *ex vivo*, and plans to expand on this research through participation in the NIH sponsored Accelerating Medicines Partnership program grant. I have completed training in musculoskeletal ultrasound-guided synovial biopsy through the AMP-approved skills training site at the University of Birmingham, UK, and we are currently working on the IRB submission for our site.

## **CLINICAL PROFILE**

### Clinical Practice

My practice focuses on ambulatory patients with rheumatologic disease, who are evaluated in the Faculty Practice Associates (4 sessions weekly) or at the Center for Advanced Medicine (2 sessions weekly). Dividing my time between these two clinical sites permits to serve a diverse patient population, in terms of clinical syndromes and insurance types. I also serve as attending preceptor for the fellows' New Patient Rheumatology clinic (1 session weekly) and as consultation attending at the Mount Sinai Hospital (2-3 months per year).

## Medical Education

Since July 2015, I have served as Program Director for the rheumatology fellowship. In this role, I have expanded the program complement, fortified and diversified the clinical experience for the fellows by adding clinics and providing ambulatory experiences in allied fields, and am currently working on restructuring the scholarly activities component. In the Department of Medicine, I have participated in the housestaff didactics as a moderator for case-based presentations, and have welcomed medicine residents in my clinics, to provide clinical exposure to rheumatologic diseases. I also provide specialized lectures for the fellows in the Divisions of Pulmonary Medicine, Gastroenterology, and Allergy and Immunology. I am a regular participant in Review Courses organized by the Richmond University Medical Center, in Staten Island. For the Icahn School of Medicine at Mount Sinai, since 2016 I have moderated a small group series for the Molecules, Cells and Genes course, and for the Immunology course, in which I also serve as a lecturer.

## **IMPACT**

### Clinical Practice Impact

Over the past three years, I have built a successful clinical practice for outpatient rheumatology consultations and longitudinal care. I have received consistently positive reviews from patient satisfaction surveys, leading to a 4.9 star rating on my Mount Sinai Doctors Faculty Practice webpage. My enthusiasm and dedication to patient care has earned me the trust of several colleagues in other divisions of the Department of Medicine, who have requested my consultative opinion on their patients with challenging clinical situations. I have also been asked by the President's Office and the Executive Health Program to provide outpatient consultations on patients with special relationships to our institution. In the hospital-based Center for Advanced Medicine rheumatology clinic, I have increased my personal commitment to patient care to 2 sessions weekly, thus enhancing our group's ability to serve patients in our community, who would otherwise not have access to state of the art rheumatology care.

### Medical Education Impact

My background in immunology and basic research has greatly enriched my skills as an educator, bringing another level of understanding to the often complex pathophysiology of autoimmune diseases, and their treatment. This has benefited both my patients and my trainees, and provided multiple opportunities for teaching across the continuum of medical education. First and foremost, I am dedicated to the training of rheumatology fellows, currently in my 4<sup>th</sup> year as the Program Director. Reviews have been consistently positive, as the fellows appreciate my enthusiasm for their learning and dedication to their well-being. We have been tackling different themes, from clinical service, didactics and research, in order to strengthen the program and diversify the portfolio for our trainees, and with the goal of nurturing careers in academic rheumatology. As for the first year medical students, according to the comments and reviews I have received for the Immunology and the Molecules, Cells and Genes courses, my passion for the discipline of rheumatology and for teaching disease pathophysiology is clearly apparent. For most students, this is their first foray into the multiple ways that the immune system relates to health and disease.

## **GRANTS, CONTRACTS, FOUNDATION SUPPORT**

### **PAST GRANTS**

<u>List Funding Source, Project Title &amp; Number</u>	<u>Role in Project</u>	<u>Dates</u>	<u>Direct Costs</u>	<u>Supplemental Info</u>
Lucille P. Markey Trust	Post-Doctoral Fellow, ABIM Research Pathway	07/2002 – 06/2003	Stipend support	Laboratory of Yongrui Zou, PhD
Clinical Scholar Program Ruth and Jerome Siegel Advanced Traineeship in Rheumatology	Post-Doctoral Research Fellow	07/2007 – 06/2008	Salary support	Laboratory of Robert Winchester, MD
Primary Care Faculty Development Mini-Grant	Faculty, curricular development	07/2012 – 06/2013	2,000.00	Musculoskeletal Medicine Workshop for Residents in Internal Medicine

## CURRENT GRANTS

Not applicable

## PENDING GRANTS

List Funding Source, Project Title & Number	Role in Project	Dates	Direct Costs	Supplemental Info
Accelerating Medicines Partnership (AMP) for Lupus and Rheumatoid Arthritis, NIH Program Grant	Sub-investigator	10/2018 – present		Laboratory of Percio Gulko, MD

## CLINICAL TRIALS PARTICIPATION !

Project	Role in Project	Dates	Award	Other Info
EMBRACE	Co-Investigator	10/2015 – present		Site Investigator: Yousaf Ali, MD
TULIP-1	Co-Investigator	10/2016 – present		Site Investigator: Kirk Campbell, MD

## TRAINEES !

Name	Level of Trainee	Role in Training and Inclusive Dates of Training	Training Venue	Trainees' Current Status/Employment
Varun Bhalla, MD	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2018 -06/30/2020)	Rheumatology outpatient clinic, Inpatient consultation service	In training
Seema Malkana, DO	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2018 -06/30/2020)	Rheumatology outpatient clinic, Inpatient consultation service	In training
Emilie Chan, MD	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2017 -06/30/2019)	Rheumatology outpatient clinic, Inpatient consultation service	In training
Anna Kazaryan, MD	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2017 -06/30/2019)	Rheumatology outpatient clinic, Inpatient consultation service	In training
Jennifer Ben Shimol, MD	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2016 -06/30/2018)	Rheumatology outpatient clinic, Inpatient consultation service	Staff Rheumatologist, Meuhedet Medical Practice, Giv'at Shmuel, Israel
Weiwei Chi, MD	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2016 -06/30/2018)	Rheumatology outpatient clinic, Inpatient consultation service	Assistant Professor of Medicine, Icahn School of Medicine at Mount Sinai
Micaela Bayard, MD	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2015 -06/30/2017)	Rheumatology outpatient clinic, Inpatient consultation service	Assistant Professor of Medicine, Mount Sinai Queens Rheumatology
Daniel Bunker, MD	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2014 -06/30/2016)	Rheumatology outpatient clinic, Inpatient consultation service	Associate Program Director and Assistant Professor of Medicine, Georgetown University, Washington, DC

Nana Jinjolava, MD	Rheumatology Fellow	Program Director, Supervising Physician (07/01/2014 -06/30/2016)	Rheumatology outpatient clinic, Inpatient consultation service	Staff Rheumatologist, Saint Barnabas Hospital, Bronx, NY
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## **TEACHING ACTIVITIES !**

<u>Teaching Activity/Topic</u>	<u>Level</u>	<u>Role</u>	<u>Indicate Level and Number of Learners Taught, and Venue</u>	<u>Number of hours week/month/year</u>	<u>Evaluation Summary</u>	<u>Years Taught</u>
Ambulatory Care, Rheumatology Continuity Clinic	Department Level	Physician-in-Charge/ Teaching	Rheumatology Fellows (3), MSH Center for Advanced Medicine	4 hours per week	Excellent to outstanding	09/2015 – present
Inpatient Consultation Service, Rheumatology	Department Level	Teaching/ Attending	Rheumatology Fellow (1), Mount Sinai Hospital	3 months per year	Excellent to outstanding	08/2015 – present
Fellows Conference, Pulmonary/Critical Care Medicine	Department Level	Guest Faculty Lecturer	Fellows (8), Mount Sinai Hospital	2 hours per year	Excellent to outstanding	01/2016 – present
Immunology Course, ISMMS	Medical School Course	Small Group Preceptor, Lecturer	12 First Year Medical Students, ISMMS	1 hour per week (6 sessions)	Excellent	01/2016, 01/2017, 01/2018
Molecules, Cells and Genes Course, ISMMS	Medical School Course	Small Group Preceptor	16 First Year Medical Students, ISMMS	3 hours per week (4 sessions)	Excellent	11/2016, 11/2017, 11/2018
Specialty Teaching Rounds, Dept of Medicine	Department Level	Course Director for Rheumatology, Discussant	4 Resident Physicians, Mount Sinai Hospital, and 2 Third Year Medical Students, ISMMS	1 hour per week (40 sessions)		10/2017-present
Fellows Conference, Division of Allergy and Immunology	Department Level	Guest Faculty Lecturer	Fellows (6), Mount Sinai Hospital	2 hours per year	Outstanding	03/2018 – present
Richmond University Medical Center Review Course	Regional Level	Guest Faculty Lecturer	Resident Physicians (40), RUMC, Staten Island, NY	2 hours per year	Outstanding	05/2017 – present

## **ADMINISTRATIVE LEADERSHIP APPOINTMENTS**

### **INTERNAL:**

#### **Research or Clinical:**

05/2015 - present

Medical Informatics Champion, Division of Rheumatology, Mount Sinai Hospital

Teaching:

07/2015 – present                      Program Director, Division of Rheumatology Fellowship Training Program, Department of Medicine, Mount Sinai Hospital, New York, NY

10/2016 – 06/2017 !                      Co-Director, Immunology Course, Icahn School of Medicine at Mount Sinai, New York, NY

General Administration:

None

**EXTERNAL:**

09/2018 – present                      Trustee, Board of Directors of the Jewish Community Project (JCP Downtown), New York, NY

**PUBLICATIONS**

**Peer Reviewed Original Contributions**

Winchester, R, Wiesendanger, M, Zhang, HZ, Steshenko, V, Peterson, K, Geraldino-Pardilla, L, Ruiz-Vazquez, E, and D'Agati, V. Immunologic Characteristics of Intrarenal T Cells: Trafficking of Expanded CD8 T Cell  $\beta$ -Chain Clonotypes in Progressive Lupus Nephritis, Arthr Rheum 64(5): 1589-1600 (2012)

Winchester, R, Wiesendanger, M, O'Brien, W, Zhang, HZ, Maurer, MS, Gillam, LD, Schwartz, A, Marboe, S and Stewart, AS. Circulating Activated and Effector Memory T Cells Are Associated with Calcification and Clonal Expansions in Bicuspid and Tricuspid Valves of Calcific Aortic Stenosis, in J Immunol 187(2): 1006-14 (2011)

Wiesendanger, M, Kneitz, B, Edelmann, W and Scharff, MD. Somatic Hypermutation in MSH3, MSH6 and MSH3/MSH6-Deficient Mice Reveals that the MSH2-MSH6 Heterodimer Modulates the Base Substitution Pattern, in J Exp Med 191(3): 579-584 (2000)

**Other Peer Reviewed Publications**

Wiesendanger, M, Stanevsky, A, Kovsky, S and Diamond, B. Novel Therapeutics in Systemic Lupus Erythematosus, in Curr Opin Rheum 18(3): 227-235 (2006)

Iruretagoyena, MI, Wiesendanger, M, and Kalergis, AM. The dendritic cell-T cell synapse as a determinant of autoimmune pathogenesis, in Curr Pharm Des 12(2):131-47 (2006)

Wiesendanger, M, Scharff, MD, and Edelmann, W. Somatic Hypermutation, Transcription, and DNA Mismatch Repair, in Cell 94: 415-418 (1998)

**Invited Contributions**

None

**Books and Book Chapters**

None

**Non-Peer Reviewed Publications**

None

**INVITED LECTURES/PRESENTATIONS**

06/2010 !                      Pri-Med Conference 2010, Jacob Javits Convention Center, New York, NY  
Lecture Title: Osteoarthritis -- A Stitch in Time

05/2011 !                      IX Symposium of the Dominican Medical Association, Malcolm and Betty Shabazz Cultural Center, New York, NY  
Lecture Title: Osteoarthritis and Rheumatoid Arthritis: Impact on the Community

06/2012 ! Pri-Med Conference 2012, Jacob Javits Convention Center, New York, NY  
Lecture Title: Gout -- Something Old and Something New

05/2014 ! CPC14 Conference, Jacob Javits Convention Center, New York, NY  
Lecture Title: Gout -- Tending the Fire

08/2015 ! Department of Medicine Grand Rounds, Icahn School of Medicine at Mount Sinai, New York, NY  
Lecture Title: Systemic Sclerosis – a Toxic Brew of Inflammation, Vasculopathy and Fibrosis

10/2015 ! State of the Art Rheumatology for Primary Care Physicians, Icahn School of Medicine at Mount Sinai, New York, NY  
Lecture Title: Overuse Syndromes

11/2015 ! Pri-Med Conference 2015, Jacob Javits Convention Center, New York, NY  
Session Moderator: Evaluation of Anemia / Shoulder and Back Pain

03/2016 ! Inflammatory Bowel Disease Fellows Conference, Icahn School of Medicine at Mount Sinai, New York, NY  
Lecture Title: Tumor Necrosis Factor Induced Lupus

03/2016 ! Division of General Medicine Grand Rounds, Icahn School of Medicine at Mount Sinai, New York, NY  
Lecture Title: Approach to Acute Monoarthritis and Chronic Polyarthritis

07/2016 ! Division of General Medicine Grand Rounds, Icahn School of Medicine at Mount Sinai, New York, NY  
Lecture Title: Rheumatoid Arthritis: New Therapeutics and Peri-Operative Optimization

10/2016 ! State of the Art Rheumatology for Primary Care Physicians, Icahn School of Medicine at Mount Sinai, New York, NY  
Lecture Title: Scleroderma 101

04/2017, 05/2018 ! Pulmonary Fellows Didactic Conference Series, Icahn School of Medicine at Mount Sinai, New York, NY  
Lecture Title: Rheumatology for the Pulmonologist

05/2017 ! Nephrology Division Grand Rounds, Mount Sinai Saint Luke’s and West, New York, NY  
Lecture Title: Systemic Lupus: An Update for the Nephrologist

05/2017 ! Department of Physical Medicine and Rehabilitation Didactics, Icahn School of Medicine, New York, NY  
Lecture Title: Approach to Chronic Polyarthritis

05/2017 ! Spring Review in Internal Medicine 2017, Department of Medicine, Richmond University Medical Center, Staten Island, NY  
Lecture Title: Familial Mediterranean Fever

09/2017 ! State of the Art Rheumatology for Primary Care Physicians, Icahn School of Medicine at Mount Sinai, New York, NY  
Lecture Title: Scleroderma 101

09/2017 ! Department of Medicine Grand Rounds, Bronx Lebanon Hospital Center, Bronx, NY  
Lecture Title: Familial Mediterranean Fever

12/2017 ! Scleroderma Patient Education Symposium, Tri-State Scleroderma Foundation, hosted by the Mount Sinai Hospital, New York, NY  
Lecture Title: Scleroderma: Symptoms and Management



01/2018	Grand Rounds, Department of Medicine, Richmond University Medical Center, Staten Island, NY <u>Lecture Title:</u> Sarcoidosis: Evolution of a Diagnosis
03/2018 !	Department of Physical Medicine and Rehabilitation Didactics, Icahn School of Medicine, New York, NY <u>Lecture Title:</u> Approach to Chronic Polyarthritis
03/2018, 02/2019 !	Department of Allergy and Immunology Didactics, Icahn School of Medicine, New York, NY <u>Lecture Title:</u> Systemic Vasculitis – Definitions and Clinical Challenges
04/2018 !	Medical Housestaff Noon Conference, Department of Medicine, Icahn School of Medicine, New York, NY <u>Lecture Title:</u> Sarcoidosis: Evolution of a Diagnosis
05/2018 !	Medical Housestaff Noon Conference, Department of Medicine, Icahn School of Medicine, New York, NY <u>Lecture Title:</u> Familial Mediterranean Fever
05/2018 !	Spring 2018 Update in Internal Medicine, Department of Medicine, Richmond University Medical Center, Staten Island, NY <u>Lecture Title:</u> Update in Rheumatology -- Biologic Treatments
06/2018 !	Department of Allergy and Immunology Didactics, Icahn School of Medicine, New York, NY <u>Lecture Title:</u> Rheumatoid Arthritis – Definitions and Clinical Challenges
12/2018 !	Rheumatology Update 2018, Department of Medicine, Richmond University Medical Center, Staten Island, NY <u>Lecture Title:</u> Rheumatoid Arthritis – Challenges in Early and Accurate Diagnosis
02/2019 !	Inflammatory Bowel Diseases Fellows Conference, Division of Gastroenterology, Department of Medicine, Icahn School of Medicine at Mount Sinai, New York, NY <u>Lecture Title:</u> Rheumatic Manifestations of Inflammatory Bowel Disease
05/2019 (anticip.) !	Medical Housestaff Noon Conference, Department of Medicine, Icahn School of Medicine at Mount Sinai, New York, NY <u>Lecture Title:</u> Introduction to Immunology
06/2019 (anticip.) !	Division of Hospital Medicine Grand Rounds, Department of Medicine, Icahn School of Medicine at Mount Sinai, New York, NY <u>Lecture Title:</u> Biologic Therapies – Challenges and Perioperative Management

## **VOLUNTARY PRESENTATIONS**

None

## **MEDIA RESOURCE EDUCATIONAL MATERIALS**

01/2018 !	Scleroderma Patient Education Symposium, Tri-State Scleroderma Foundation, hosted by the Mount Sinai Hospital, New York, NY <u>Lecture Title:</u> Scleroderma: Symptoms and Management (English and Spanish versions), uploaded on sclerodermavideo.org
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