

CURRICULUM VITAE
ANTHONY MARCELO REGINATO, Ph.D., M.D.

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EDUCATION

Franklin and Marshall College, Lancaster, PA.
B.A. Dean's List,
Biology, 1984.

University of Pennsylvania, Philadelphia, PA.
Ph.D., 1988.
Human Anatomy and Structural Biology.

University of Pennsylvania, Philadelphia, PA.
M.D., 1994.

POST-GRADUATE TRAINING

Post-doctoral Research Fellow, Department of Biochemistry and Molecular Biology
Jefferson Institute of Molecular Medicine, Thomas Jefferson University, Philadelphia, PA.
June 1988-July 1990.

Intern, Internal Medicine
Yale-New Haven Hospital, New Haven, CT.
July 1994-June 1995.

Resident, Internal Medicine
Yale-New Haven Hospital, New Haven, CT.
July 1995-June 1997.

Clinical and Research Fellowship, Department of Rheumatology, Allergy and Immunology
Massachusetts General Hospital, Boston, MA.
July 1997-June 2001.

Post-doctoral Research Fellow, Department of Cell Biology
Harvard Medical School, Boston, MA.
July 2001-June 2003.

POSTGRADUATE HONORS AND AWARDS

<i>Dates</i>	<i>Name of Award</i>	<i>Institution</i>
1986	Cell and Molecular Biology Course Travel Award	Marine Biological Laboratory (MBL), Woods Hole, MA.
1986-1988	Analysis of Development Pre-doctoral Training Award	University of Pennsylvania
1988-1990	Post-doctoral Fellowship Award.	Arthritis Foundation.
1991	Outstanding Medical Student Award	American College of Rheumatology
1991	Young Scientist Travel Award	The Fourth International Conference of Chemistry and Biology of Mineralized Tissues
1992	The John G. Clark Award. Medical Student Research Award.	University of Pennsylvania
1994	The Roy G. Williams Award. Medical Student Research Award.	University of Pennsylvania
1999	ACR Fellow Reporter Program	Wyeth-Ayerst
1999	Young Scientist Travel Award	Federation of Clinical Immunology Societies (FOCIS)
1999	Arthritis Investigator Award	Arthritis Foundation
1999	“Write a Winning Grant Award” Program	The Federation of American Societies for Experimental Biology (FASEB)/Minority Access to Research Careers (MARC)
2000	The Pfizer Postdoctoral Fellowship Grant in Rheumatology/Immunology	Pfizer Pharmaceuticals
2000	Young Investigator Award	Osteoarthritis Research Society International (OARSI)
2000	Rheumatology Fellow Award	American College of Rheumatology (ACR)
2001	Arthritis Foundation 50 th Anniversary Postdoctoral Research Fellow Hero	Arthritis Foundation
2003	Junior Career Development Award in Geriatric	American College of Rheumatology (ACR)
2003	Harvard/Hartford Junior Faculty Aging Development Award.	Harvard Medical School
2003	The Franklin Williams Scholars Award	American Geriatric Society
2005	Junior Faculty Exchange Program (ACR)/ European League Against Rheumatism (EULAR)	American College of Rheumatology (ACR)
2005	Castle Connolly Regional Top Doctors:1st Edition	
2006	Harold Amos Medical Faculty Development Award	Robert Wood Johnson Foundation
2008	Harvard/ Hartford Center of Excellence Career Development Award	Harvard Medical School
2011	Honorary Member, Venezuelan Society of Rheumatology	Venezuela Society of Rheumatology

2011	Visiting Professor, Mexican Society of Rheumatology	Mexican Society of Rheumatology
2014	Visiting Professor, Argentinian Society of Rheumatology	Argentinian Society of Rheumatology

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Diplomate of the National Board of Medical Examiners: 1996.
 Diplomate in Internal Medicine, American Board of Internal Medicine: 2000.
 Massachusetts Board of Registration in Medicine, license number; issued in 1997.
 Diplomate in the Subspecialty of Rheumatology, American Board of Internal Medicine: 2001, 2013.
 Rhode Island Board of Registration in Medicine, license number; issued in 2009.

ACADEMIC APPOINTMENTS

<i>Dates</i>	<i>Positions</i>	<i>Institutions</i>
7/88-6/90	Instructor in Human Gross Anatomy	Temple University School of Dentistry
7/97-6/01	Clinical and Research Fellow	Massachusetts General Hospital
7/03-6/09	Instructor in Medicine	Harvard Medical School
9/09-7/16	Assistant Professor in Medicine	Alpert Medical School of Brown University
6/10-6/15	Associate Rheumatology Fellowship Program Director	Alpert Medical School of Brown University
10/13-9/15	Acting Chief, Division of Rheumatology	Providence VA Medical Center
10/15-	Chief, Division of Rheumatology	Providence VA Medical Center
7/15-6/20	Rheumatology Fellowship Program Director	Alpert Medical School of Brown University
7/16-	Associate Professor in Medicine	Alpert Medical School of Brown University
7/16-	Associate Professor in Dermatology	Alpert Medical School of Brown University
7/18-	Interim Director, Division of Rheumatology	Alpert Medical School of Brown University

HOSPITAL APPOINTMENTS

<i>Dates</i>	<i>Positions</i>	<i>Institutions</i>
7/94-6/95	Internal Medicine Internship	Yale-New Haven Hospital
7/95-6/97	Internal Medicine Residency	Yale-New Haven Hospital
7/97-6/01	Clinical and Research Fellow	Massachusetts General Hospital
7/98-6/09	Staff Physician After-Hours	Massachusetts Institute of Technology-MIT
7/01-6/03	Graduate Medical Assistant	Massachusetts General Hospital
7/03-7/09	Assistant in Medicine	Massachusetts General Hospital
9/09-	Director, Rheumatology Research and Musculoskeletal Ultrasound	Brown Physicians/Rhode Island Hospital
10/09-	Staff Physician	Rhode Island Hospital
10/09-	Staff Physician	Miriam Hospital
1/11-	Staff Physician	Providence VA Medical Center
4/11-	Staff Physician	Roger William Medical Center

OTHER APPOINTMENTS

Major Administrative Responsibilities

<i>Dates</i>	<i>Name of Committee</i>	<i>Role</i>	<i>Institution</i>
6/05-	Osteoarthritis (OA) Study Group	Member	Pan-American League of Association for Rheumatology (PANLAR)
7/07-	Musculoskeletal Ultrasound Study Group	Member	Pan-American League of Association for Rheumatology (PANLAR)
8/07-11/10	Musculoskeletal Ultrasound Task Force	Member	American College of Rheumatology (ACR)
6/08-5/09	Musculoskeletal Ultrasound Practice Forum Task Force	Member	American Institute of Ultrasound Medicine (AIUM)
7/08-	Musculoskeletal Ultrasound Educational Task Force	Member	Pan-American League of Association for Rheumatology (PANLAR)
11/09-12/12	Musculoskeletal Ultrasound Guided Procedure Forum Task Force	Member	American Institute of Ultrasound Medicine (AIUM)
8/08-11/10	Osteoarthritis (OA) Study Group	Co-Chair	Pan-American League of Association for Rheumatology (PANLAR)
6/10-12/12	Musculoskeletal Ultrasound Credentialing Task Force	Member	American College of Rheumatology (ACR)
11/10-4/12	Vice-President for PANLAR North America Executive Committee		Pan-American League of Association for Rheumatology (PANLAR)
11/10-12	Musculoskeletal Ultrasound Appropriateness Criteria Development Task Force	Member	American College of Rheumatology (ACR)
5/12-5/14	Vice-Secretary for PANLAR North America Executive Committee		Pan-American League of Association for Rheumatology (PANLAR)
11/12-10/17	American College of Rheumatology (ACR) Musculoskeletal Ultrasound Study Group	Coordinator	American College of Rheumatology (ACR)
4/13-10/13	Musculoskeletal Ultrasound Certification in Rheumatology (RhMUS) Task Force	Member	American College of Rheumatology (ACR)
8/12-	RIH-APC Rheumatology Clinic Coordinator		Rhode Island Hospital
3/13-	Dermatology-Rheumatology Clinic	Co-director	Providence VA Medical Center
3/14-7/20	PANLAR Musculoskeletal Ultrasound Study Group	Treasurer	Pan-American League of Association for Rheumatology (PANLAR)
5/14-	Brown/Lifespan Combined Dermatology-Rheumatology Clinic	Co-director	Rhode Island Hospital
6/14	GRAPPA	Member	GRAPPA
8/14	AIUM Practice Guideline for the Performance of Selected Ultrasound-Procedure	Member	American Institute of Ultrasound Medicine (AIUM)

1/15	OMERACT Ultrasound Gout Task Force	Member	OMERACT
6/15	SPARTAN	Member	SPARTAN
11/15	OMERACT Ultrasound CPPD Task Force	Member	OMERACT
11/17-	ACR/EULAR/ILAR/PANLAR Musculoskeletal Ultrasound Study Group	Coordinator	American College of Rheumatology (ACR)
4/18-8/20	PANLAR Musculoskeletal Ultrasound Study Group	Co-director	Pan-American League of Association for Rheumatology (PANLAR)
9/20-	PANLAR Musculoskeletal Ultrasound Study Group	Director	Pan-American League of Association for Rheumatology (PANLAR)
9/20-	PANLAR Musculoskeletal Certification Committee	Co-Chair	Pan-American League of Association for Rheumatology (PANLAR)
9/21-	American College of Rheumatology, Division Director Special Committee	Member	American College of Rheumatology (ACR)

National Peer Review Committees:

<i>Dates</i>	<i>Name of Committee</i>	<i>Role</i>	<i>Institution</i>
2004-2007	Molecular Biology Study Section Review Committee	Member	Arthritis Foundation
2005-2008	Osteoarthritis (OA) Study Group Review Committee	Member	Pan-American League of Association for Rheumatology (PANLAR)
2007-2009	Research and Education Foundation (REF), Member Medical Student and Resident Research Study Section Review Committee	Member	American College of Rheumatology (ACR)
2007-2009	Molecular Biology Study Section Review Committee	Chair	Arthritis Foundation
2009	Abstract Selection Committee (Metabolic and Crystal Arthropathies)	Member	American College of Rheumatology (ACR)
2016	Abstract Selection Committee (Small Molecules, Biologics and Gene Therapy and Sjogren's Syndrome)	Member	American College of Rheumatology (ACR)

International Peer Review Committees:

<i>Dates</i>	<i>Name of Committee</i>	<i>Role</i>	<i>Institution</i>
2006-2008	Abstract Selection Committee (Miscellaneous Rheumatic Diseases and Back Pain)	Member	European League Against Rheumatism (EULAR)
2007	Molecular Biology Study Section (International Reviewer)	Member	Arthritis Research Campaign, UK.
2008	Molecular Genetics Study Section (International Reviewer)	Member	Arthritis Foundation of New Zealand, NZ.

2013-	International PhD Committee Member Program in the Medical Sciences	Member	University of Chile
2013-	International Committee Member for Musculoskeletal Ultrasound Program	Member	University of Chile
2015	Abstract Selection Committee Imaging	Chair	Pan-American League of Association for Rheumatology (PANLAR)

Local Peer Review Committees:

Dates	Name of Committee	Role	Institution
2017-	Program Evaluation Committee for the Rheumatology Fellowship	Member	Roger William Medical Center
2017-	Clinical Competence Committee for the Rheumatology Fellowship	Member	Roger William Medical Center

MEMBERSHIP IN SOCIETIES

American Medical Association, 1990-1994.
 American College of Physician, 1994-2000.
 Osteoarthritis Research Society International (OARSI), 2000-2009
 Member, American College of Rheumatology (ACR), 1999-Present
 New England Rheumatism Society, 2000-Present
 American Institute of Ultrasound in Medicine (AIUM), 2007-Present

MANUSCRIPT REVIEWER FOR:

Matrix Biology
Arthritis and Rheumatism
Osteoarthritis and Cartilage
Journal of Clinical Rheumatology
Journal of Rheumatology
Journal of Human Genetics
Arthritis Research and Therapy
Human Mutation
Annals of Rheumatic Diseases
Up to Date
Clinical and Experimental Rheumatology
Journal of Neurology
Arthritis Care and Research
Bone
Rheumatology
Seminars Rheumatic Diseases
Journal Orthopedic Surgery
Journal of Forensic Toxicology & Pharmacology
Clinical Rheumatology
The American Journal of Forensic Medical Science
International Journal of Clinical Rheumatology

Journal of Oral Pathology and Medicine
OMICS Medical Science
British Medical Journal
Ultrasound Medicine

PUBLICATION LIST

Original Publications in Peer-Reviewed Journals:

1. Jimenez SA, Yankowski R, **Reginato AM**. Quantitative analysis of type X collagen biosynthesis by embryonic chick sternal cartilage. *Biochem J*. 1986 Jan 15; 233(2):357-367.
2. **Reginato AM**, Lash JW, Jimenez SA. Biosynthetic analysis of type X collagen in embryonic chick sternum during development. *J Biol Chem*. 1986 Feb 25; 261(6):2897-2904.
3. **Reginato AM**, Lash JW, Jimenez SA. Expression of type X collagen mRNA levels in embryonic chick sternum during development. *Biophys Biochem Res Commun*. 1986 Jun 30;137(2):1125-32.
4. Jimenez SA, Rao VH, **Reginato AM**, Yankowski R: Identification of a 70 Kd type X procollagen in embryonic sternum cartilage. *Biophys Biochem Res Commun*. 1986 Jul 31;138(3):835-41.
5. **Reginato AM**, Shapiro IM, Lash JW, Jimenez SA. Type X collagen alterations in rachitic chick epiphyseal cartilage. *J Biol Chem*. 1988 Jul 15; 263(2):9938-45.
6. Silvertown SF, Matsumoto K, DeBolt K, **Reginato AM**, Shapiro IM: Pentose phosphate shunt metabolism by cells of the chick growth plate cartilage. *Bone* 1989; 10(1):45-51.
7. Baldwin CT, **Reginato AM**, Smith C, Jimenez SA, Prockop DJ. Structure of cDNA clones coding for human type II procollagen. The $\alpha 1(\text{II})$ chain is more similar to the $\alpha 1(\text{I})$ chain than two other alpha chains of fibrillar collagens. *Biochem J*. 1989 Sep 1; 262(2):521-8.
8. Baldwin CT, **Reginato AM**, Prockop DJ. A new EGF-like domain in the human core protein for the large cartilage-specific proteoglycan. *J Biol Chem*. 1989 Sep 25; 264:15747-15759.
9. **Reginato AM**, Jimenez SA. Biochemical characterization of the tissue form of Type X collagen from embryonic chick sternal cartilage and identification of a chymotrypsin sensitive site within the triple helical domain. *Biochem J*. 1991 Jan 15;273(Pt2):333-8.
10. Bashey RI, Iannotti JP, Rao VH, **Reginato AM**, Jimenez SA. Comparison of morphological and biochemical characteristics of cultured chondrocytes isolated from proliferative and hypertrophic zones of bovine growth plate cartilage. *Differentiation* 1991 Apr;46(3):199-207.
11. Rosselot G, **Reginato AM**, Leach R. Development of serum-free system to study the effect of growth hormone and insulin growth factor-I on cultured post-embryonic growth plate chondrocytes. *In Vitro Cell Dev Biol*. 1992 Apr28A:235-244.

12. Diaz A, **Reginato AM**, Jimenez SA. Alternate splicing of human prostaglandin G/H synthetase mRNA and evidence of differential regulation of the resulting transcripts by transforming growth factor- β , interleukin-1 α , and tumor necrosis factor- α . *J Biol Chem*. 1992 May 25;267(5):10816-22.
13. Reginato AJ, Maldonado I, **Reginato AM**, Falasca GF, O'Connor CR: Supravital staining of synovial fluid with tests simples. *Diagn Cytopathol*. 1992; 8(2):147-52.
14. Dharmavaram RM, Baldwin CT, **Reginato AM**, Jimenez SA. Amplification of cDNAs for human cartilage-specific types II, IX, and XI collagens from chondrocytes and Epstein-Barr virus-transformed lymphocytes. *Matrix* 1992 March;13(2):125-33.
15. **Reginato AM**, Sanz-Rodriguez C, Diaz A, Dharmavaram RM, Jimenez SA. Transcriptional modulation of cartilage-specific collagen gene expression by interferon- γ and tumor necrosis factor- α in cultured human chondrocytes. *Biochem J*. 1993 Sep 15; 294(Pt 3):761-9.
16. **Reginato AM**, Tuan RS, Tomao O, Jimenez SA, Jacenko O. Effects of calcium deficiency on chondrocyte hypertrophy and type X collagen expression in chick embryonic sternum. *Dev Dyn*. 1993 Dec;198(4):284-95.
17. **Reginato AM**, Iozzo RV, Jimenez SA. Formation of nodular structures resembling mature articular cartilage in long-term primary cultures of human fetal epiphyseal chondrocytes on a hydrogel substrate. *Arthritis Rheum*. 1994 Sep;37(9):1338-49.
18. **Reginato AM**, Sanz-Rodriguez C, Jimenez SA. Biosynthesis and characterization of type X collagen in human epiphyseal growth plate cartilage during fetal development. *Osteoarthritis and Cartilage* 1995 Jun;3(2):105-16.
19. Dodge GR, Diaz A, Sanz-Rodriguez C, **Reginato AM**, Jimenez SA. Effects of interferon- γ and tumor necrosis factor- α on the expression of the genes encoding aggrecan, biglycan, and decorin core proteins in cultured human chondrocytes. *Arthritis & Rheum*. 1998 Feb;41(2):274-83.
20. **Reginato AM**, Bashey RI, Rosselot G, Leach RM, Gay CV, Jimenez SA. Type X collagen biosynthesis and gene expression in avian tibial dyschondroplasia. *Osteoarthritis and Cartilage*. 1998 March; 6(2):125-36.
20. Diaz D, Chepenik KP, Korn JH, **Reginato AM**, Jimenez SA. Differential regulation of cyclooxygenase 1 and 2 by interleukin-1 α , tumor necrosis factor- α , and transforming growth factor- β in human lung fibroblasts. *Exp. Cell Res*. 1998 May 25;241(1):222-9.
22. Gong Y, Slee RB, Fukai N, Rawaldi G, Roman-Roman S, **Reginato AM**, Wang H, Cundy T, Glorieux F, Lev D, Zacharin M, Oexle K, Marcelino J, Suwairi W, Hegger S, Sabatakos G, Apte S, Adkins W, Allgrove J, Batch J, Beighton P, Black GCM, Boles RG, Boon L, Borrone C, Brunner H, Carle GF, Dallapiccola B, De Paeppe A, Floege B, Lees Halhide H, Hall B, Hennekam RC, Hirose T, Jans A, Juppner H, Kim CA, Keppler-Noreuil K, Lambert M, Lemyre E, Letteboer T, Peltonen L, Ramesar RS, Romanengo M, Somer H, Steichen-Gersdorf E., Steinmann B, Sullivan B, Superti-Furga A, Swodoba W, van der Boogard M, Van

Hul W, Vikkula M, Votruba M, Zabel B, Gracia T, Baron R, Olsen BR, Warman ML. LDL receptor-related protein 5 (LRP5) affects bone accrual and eye development. *Cell*. 2001 Nov 16;107(4):513-23.

23. Wang WF, Wang YG, **Reginato AM**, Olsen BR. Skeletal growth defects in *grg5* null mice is associated with reduced in *Ihh* signaling in growth plate cartilage. *Dev Dyn*. 2002 May; 224(1):79-89.

24. Zelzer E, McLean W, Ng E, Fukai N, **Reginato AM**, Lovejoy S, D'Amore PD, Olsen BR. Skeletal defects in VEGF 120/120 mice reveal multiple roles for VEGF in bone development. *Development*. 2002 Apr; 129(8):1893-904.

25. Sharov AA, Weiner L, Sharova TY, Siebenhaar F, Atoyian R, **Reginato AM**, McNamara CA, Funa K, Gilchrist BA, Brissette JL, Botchkarev VA. Noggin overexpression inhibits eyelid opening by altering epidermal apoptosis and differentiation. *EMBO J*. 2003 June 16;22(12):2992-3003.

26. Zeggini E, **Reginato AM**, Prais A, Thomson W, McLean W, and Donn R. Linkage and association studies of discoidin domain receptor 1 (DDR1) single nucleotide polymorphisms (SNPs) in juvenile oligoarthritis. *Rheumatology (Oxford)*. 2004 Sep; 43(9):1138-41.

27. Wang WF, Wang YG, **Reginato AM**, Glotzer DJ, Fukai N, Plotkina S, Karsety G, and Olsen BR. Groucho homologue *Grg5* interacts with transcriptional factor *Runx2/Cbfa1* and modulates its activity during postnatal growth in mice. *Dev Biol*. 2004 Jun 15;270(2):364-81.

28. Diaz A, Hu C, Kastner DL, Schaner P, **Reginato AM**, Richards N, Gumucio DL. Lipopolysaccharide-induced expression of multiple alternatively spliced MEFV transcripts in human synovial fibroblasts: a prominent splice isoform lacks the C-terminal domain that is highly mutated in familial Mediterranean fever. *Arthritis Rheum*. 2004 Nov;50(11):3679-89.

29. Wu D, Reginato AJ, Torriani M, Robinson D, and **Reginato AM**. The Crowned Dens Syndrome as a Cause of Neck Pain: Report of Three New Cases and Review of the Literature. *Arthritis and Rheumatism*. 2005 Feb 15;53(1):133-7.

30. Chou RC, Henson JW, Tian D, Hedley-Whyte ET, **Reginato AM**. Successful treatment of rheumatoid meningitis with cyclophosphamide but not infliximab. *Ann Rheum Dis*. 2006 Aug;65(8):1114-6.

31. Pineda C*, **Reginato AM***, Aliste M, Alva-Linares M, Aragón-Lainez RA, Bernal A, Bouffard A, Caballero-Urbe CV⁷, Chávez-López M, Chávez-Pérez N, Collado P, Díaz-Coto JF, Duarte M, Filippucci E, Flores V, Galarza-Maldonado C, Godoy FJ, González E, Guimarães-da S, Gutiérrez RM, Hernández-Díaz C, Hernández J, Marcos JC, Marín Arriaga N, Mendonça JA, Michaud J Möller I, Moya C, Naredo-Sánchez E, Neubarth F, Quintero M, Reyes-B, Ruta S, Solano C, Ventura-Ríos L. Recommendations and Guidelines for Musculoskeletal Ultrasound Training in the Americas for Rheumatologists. *J Clin Rheumatol*. 2010Apr;16(3):113-8.*Contributed equally to this work.

32. Robert I, Arnold E, Arnold W, Craig-Muller J, Kaeley G, Alindon M, MD, Nazarian L, **Reginato AM**. Ultrasound in American Rheumatology Practice. American College of Rheumatology Musculoskeletal Ultrasound Task Force. *Arthritis Care Res (Hoboken)*. 2010 Sep;62(9):1206-19.

33. Poon SP, Baliog CR, Jr, Sams RN, Robinson-Bostom L, Telang GH, **Reginato AM**. Syndrome of Cocaine-Levamisole Induced Cutaneous Vasculitis and Immune Mediated Leukopenia. *Semin Arthritis Rheum*. 2011 Dec;41(3):434-44.
34. Rho YH, Zhu Y, Zhang Y, **Reginato AM**, Choi H. Risk Factors for Pseudogout in the General Population. *Rheumatology (Oxford)*. 2012 Nov;51(11):2070-4.
35. **Reginato AM**, Mount DB, Yang I, Choi HK. Update in Genetics and Pathogenesis of Gout. *Nature Rheumatology Reviews*. *Nat Rev Rheumatol*. 2012 Oct;8(10):610-21.
36. **Reginato AM**, Checa A, Audisto MJ, Bertoli A, Moya C. Musculoskeletal Ultrasound in Crystal-Induced Arthropathy: Role and Recent Advances. *Rev Chil. Reumatol*. 2013;29(1):14-31.
37. Guinsburg M, **Reginato AM**, Saavedra J, Rodriguez-Henriquez, Todriguez JA, Rillo OL, Gutierrez M, Pineda C, Qintero M. Utility of ultrasound in osteoarthritis (OA). *Rev Chil. Reumatol*. 2013;29(2):69-84.
38. Najem C, Sfeir M, Estrada E, Mbuyi N, Valicenti D, **Reginato AM**. An unusual case of hematuria. *Arthritis Care Res (Hoboken)*. 2014 Jul;66(7):1281-1285.
39. Ramirez DM, Ramirez MR, **Reginato AM**, Medici D. Molecular and cellular mechanisms of heterotopic ossification. *Histol Histopathol*. 2014 Oct;29(10): 1281-5.
40. Pineda C, Fuentes-Gómez AJ, Hernández-Díaz C, Zamudio-Cuevas Y, Fernández-Torres J, López-Macay A, Alba-Sánchez I, Camacho-Galindo J, García-Vázquez F, Ventura L, **Reginato AM**, Gutiérrez M, Gómez-Quiroz L, Gutiérrez-Ruiz MA, López-Reyes A. Intra-articular in vivo model rabbit of acute gouty inflammatory arthritis reproduces the gout ultrasonographic findings. *Arthritis Research & Therapy*. 2015 Feb 26;17:37.
41. Zhou Y, Moore D, Lin L, Wu Q, **Reginato AM**, Qin YX, Chen Q, Ehrlich MG, Yang W. Sph2 regulates osteoclastogenesis by promoting pre-osteoclast fusion via RANK/NAFTc1 signaling axis. *FASEB J*. 2015 May;29(5):1635-45.
42. Cazenave T, Pineda C, **Reginato AM**, Gutierrez M. Ultrasound guided procedures in rheumatology. What is the evidence? *J Clin Rheumatol*. 2015 Jun;21(4):201-10.
43. Zamudio-Cuevas Y, Hernández-Díaz C, Pineda C, **Reginato AM**, Cerna-Cortés JF, Ventura-Ríos L, López-Reyes A. Molecular basis of oxidative stress in gouty arthropathy. *Clin Rheumatol*. 2015 Oct;34(10):1667-72.
44. Gutierrez M, Schmidt WA, Thiele RG, Keen HI, Kaeley, GS, Naredo E, Iagnocco A, Bruyn, GA, Balint PV, Filippucci E, Mandl P, Kane D, Pineda C, Delle Sedie A, Hammer HB, Christensen R, D'Agostino MA, Terslev L, Bong D, De Miguel E, Dejaco C, Kissin E, Gandjbakhch F, Freeston, J, Koski J, Moller I, Szkudlarek M, Swen N, **Reginato A**, Epis O, Aydin SZ, Ravagnani V, Wakefield R, Hanova P, Mardenly G, Sharp V. International consensus for ultrasound lesions in gout: Results of delphi process and web-reliability exercise. *Rheumatology (Oxford)*. 2015 Oct;54(10):1797-805.

45. Terslev L, Gutierrez M, Schmidt SA, Keen HI, Filippucci E, Kane D, Thiele R, Kaeley G, Balint P, Mandl P, Delle Sedie A, Hammer HB, Christensen R, Möller I, Carlos Pineda C, Kissin E, Bruyn GA, Iagnocco A, Naredo E, D'Agostino MA, Aegerter P, Aydin S, Backhaus M, Bong D, Chary-Valckenaere I, Collado P, De Miguel E, Dejaco C, Epis O, Freeston JE, Gandjbakhch F, Grassi W, Hanova P, Jousse-Joulin S, Joshua F, Koski J, Loeuille D, Ravagnani V, **Reginato A**, Sharp V, Swen N, Szkudlarek M, Wakefield RJ, and Hans-Rudolf Ziswiler on behalf of OMERACT Ultrasound Working Group. Ultrasound as an Outcome Measure in Gout. A Validation Process by the OMERACT Ultrasound Working Group. *J Rheumatol*. 2015 Nov;42(11):2177-81.
46. **Reginato AM**, Riera H, Vera M, Torres RA, Espinosa R, Esquivel JA, Jair Felipe O, Blas JR, Rillo O,⁷ Papasidero S, Rossi C, Souto R, Molina JF, Ballesteros F, Radrigan F, Guibert M, Chico A, Gil ML, Camacho W, Urioste L, Gutierrez C, Garcia A, Iraheta I, Méndez M, Castañeda O, Coimbra I, Muñoz R, Reveille J, Quintero M. Osteoarthritis in Latin America: Study of epidemiological and clinical characteristics in 3040 patients. *J Clinical Rheum*. 2015 Dec;21(8):391-7.
47. Du G, Zhan H, Ding D, Wang S, Wei X, Wei F, Zhang J, Bilgen B, **Reginato AM**, Fleming BC, Deng J, Wei L. Abnormal Mechanical Loading Induces Cartilage Degeneration by Accelerating Meniscus Hypertrophy and Mineralization After ACL Injuries In Vivo. *Am J Sports Med*. 2016 Mar;44(3):652-63.
48. Ventura-Ríos L, Hernandez-Diaz C, Gutierrez M, Solano C, Py GE, Navarta DA, Cazenave T, Bertoli AM, Aerny R, Diaz-Cortes ME, Sedano O, Alva-Linares M, Aliste M, **Reginato AM**, Ceron, C, Rosa J, Saaibi-Solano DL, Pineda C, Castillo-Gallego C, Falcao S, De-Miguel E. Is enthesi ultrasound reliable? A Latin American reading exercise. *Clin Rheumatol*. 2016 May;35(5):1353-7.
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74. Mbuyi N, Steven Reinert S, Ross Hilliard R, **Reginato AM**, Deepan Dalal Emergency Department Length of Stay in Patients with Acute Gout. 2019 ACR/ARHP Annual Meeting. Atlanta, GA. (Abstract # 343).

75. Gutierrez M, Pineda C, Vazquez-Mellado J, Alvarez MM, Javier Rosa ⁴, **Reginato AM**, Chavez M, Linares MA, Audisio M, Mendonca JA, Cazenave T, Sedano O, Ventura Ríos L, de Miguel E, Gurjit Kaeley ¹⁴, Scheines E, Hofmann F, Aguilar G, Waimann C, Marengo F, Ruta S. PANLAR Ultrasound Study Group Recommendations for the Use of Imaging in the Management of Patients with Gout. 2019 ACR/ARHP Annual Meeting. Atlanta, GA. (Abstract # 301).

76. Orbai AM, Julie B, Holdsworth E , Booth N, Hufford MM, William M, Sprabery AT, **Reginato AM**. Impact of Enthesitis on Patient Reported Outcomes and Physician Satisfaction with Treatment: Data from a Multinational Patient and Physician Survey. 2019 ACR/ARHP Annual Meeting. Atlanta, GA. (Abstract # 2455).

77. Mbuyi N, Reinhart S, Hillard R, **Reginato AM**, Dalal D. Emergency Department Length of Stay for Patients with Acute Gout. 2020 Presented at the EULAR Meeting. Ann Rheum Dis. 79 (Suppl 1): 1880.1-1881.
78. Tajalli M, Vance TM, **Reginato AM**, Qureshi AA. Dermatomyositis: A Retrospective Study. Presented at the 2020 Medical Dermatology Society Annual Meeting. Virtual. Boston, MA.
79. Elkiran B, Tajalli M, Vance TM, Qureshi AA, **Reginato AM**. Dermatomyositis: A Dermatology-Rheumatology Clinic Retrospective Analysis. 2020 ACR/ARHP Convergence. Virtual. (Abstract # 1062).
80. Maher L, Qureshi AA, Elco C, Reginato AM. Right Under Our Nose: An Unexpected Facial Lesion Finding. 2021 ACR/ARHP Convergence. Virtual. (TM20).

INVITED PRESENTATIONS

Regional, National, and International Contributions

- 1985 Invited speaker on “Biosynthetic Expression of type X collagen during development”. Gordon Research Conference Bones and Teeth, Meriden, NH.
- 1986 Invited speaker on “Role of type X and other collagens in calcification and ossification”. The Federation of European Connective Tissue Societies, Manchester, England.
- Invited speaker on “In vivo form, localization and possible function of type X collagen”. The European Connective Tissue Societies, Manchester, England.
- 1988 Invited speaker on “Type X collagen alterations in rachitic chick epiphyseal cartilage”. The European Connective Tissue Societies, Amsterdam, Netherlands.
- Invited speaker on “Calcium deficiency and type X collagen expression in embryonic Chick cartilage during development”. The European Connective Tissue Societies, Amsterdam, Netherlands.
- 2003 Invited speaker on “Happy ending? The role of ANKH gene in craniometaphyseal dysplasia (CMD) and familial chondrocalcinosis. Advances in Rheumatology. Chilean Society of Rheumatology. Santiago, Chile
- Invited speaker on “Still’s Disease, TRAPS, and Other Chronic Febrile Syndromes”. Advances in Rheumatology. Chilean Society of Rheumatology, Santiago, Chile
- Invited speaker on “Indications of TNF-inhibitors in Rheumatoid Arthritis and Other Rheumatic Diseases”. Advances in Rheumatology. Chilean Society of Rheumatology, Santiago, Chile
- 2004 Invited speaker on “Genetics for Rheumatologist”. XII Venezuelan Congress of Rheumatology Margarita Island, Venezuela

Invited speaker on “Genetics Determinants of Bone Mass”.
XII Venezuelan Congress of Rheumatology Margarita Island, Venezuela.

Invited speaker on “Genetics in Osteoarthritis (OA)”.
XII Venezuelan Congress of Rheumatology Margarita Island, Venezuela.

Invited speaker on “Role of Structural Genes in the Pathogenesis of Osteoarthritis (OA)”.
Wyeth Pharmaceutical Laboratory, Cambridge, MA.

2005 Invited speaker on “Genetic Determinants of Bone Mass”.
Division of Rheumatology, University of Vienna, Vienna, Austria.

Invited speaker on “Genetics Determinants of Bone Mass”.
German Rheumatism Research Centre (DRFZ), Charite Medical School, Berlin, Germany.

Invited speaker on “Role of Structural Genetics of Osteoarthritis (OA)”.
Department of Rheumatology, Lund University, BMC Lund, Sweden.

Invited speaker on “Genetics Determinants of Bone Mass”.
Department of Rheumatology, University of Manchester Manchester, England

Invited speaker on “Role of structural genes in the Pathogenesis of Osteoarthritis (OA)”.
Kennedy Institute of Rheumatology, Imperial College of London and the Pediatric and Adolescent Rheumatology Centre, Institute of Child Health, University College London, London, England.

2006 Invited speaker on “Update in Crystal-induced Arthritis”.
Genzyme Pharmaceutical, Cambridge, MA.

Invited speaker on “Gout: Is it all crystal clear?”.
Genzyme Pharmaceutical, Cambridge, MA

2007 Invited speaker on “Pseudogout-Update”.
Regeneron Pharmaceuticals, Tarrytown, NY.

Invited speaker on “Genetics of Gout”.
European League Against Rheumatism (EULAR), European Congress of Rheumatology, Barcelona, Spain

Spaulding Hospital-Rehabilitation of Orthopedic & Rheumatologic Disorder
Conference, on “Calcium Pyrophosphate Deposition Disorders”
Spaulding Rehabilitation Hospital, Boston, MA.

2008 Moderator, “Amyloidosis” EULAR 2008: European Congress of Rheumatology
Paris, France

Invited Speaker on “Aging and Osteoarthritis (OA)”.
XV Congress of Panamerican League for Rheumatologist (PANLAR), Guatemala City, Guatemala.

2009 ACR/ARHP Poster Tour Guide on “Metabolic and Crystal Arthropathies”.
73st Annual Meeting, American College of Rheumatology (ACR)/Association of Rheumatology Health Professionals (ARHP) Annual Scientific Meeting, Phila, PA.

Invited Speaker on “Recent Genetic Advances in Rheumatic Diseases”.
XII Jornadas Internationals de Rheumatologic, Merida, Venezuela.

Invited Speaker on “New Concepts in the Pathogenesis of Osteoarthritis (OA)”.
XII Tornados Internationals de Rheumatologic, Merida, Venezuela.

Invited Speaker on “Osteoarthritis (OA)”.
New England Arthritis Foundation, Providence, RI.

2010 Invited Speaker on “Osteoarthritis (OA)”.
New England Arthritis Foundation. Providence, RI.

Invited Speaker on “Geriatric Rheumatology: Crystal-induced arthritis”.
XVI Congress of Pan-American League of Associations for Rheumatology, Santiago, Chile.

Invited Speaker on “Physical Therapy and Rehabilitation”. XVI Congress of Pan-American League of Rheumatology (PANLAR), Santiago, Chile.

Moderator on “Physical Therapy and Rehabilitation”.
XVI Pan American League Congress of Rheumatologist (PANLAR), Santiago, Chile.

Invited Speaker on “Musculoskeletal Ultrasound: A Rheumatologist Dream”.
Rheumatism Society of the District of Columbia. Bethesda, DC.

Invited Speaker on “Synovial Fluid Analysis”.
The Annual Mexican School of Musculoskeletal Ultrasound of the Mexican College of Rheumatology (ECOMER) Meeting, Mexico City, Mexico.

Hands-on instructor “Diagnostic and Interventional Musculoskeletal Ultrasound of the Shoulder and Hip “at The Annual Mexican School of Musculoskeletal Ultrasound of the Mexican College of Rheumatology (ECOMER) Meeting, Mexico City, Mexico.

2011 Invited Speaker on “Calcium-Crystal Deposition Diseases in the Elderly”.
Best Practices in the Continuum of Care: Rheumatic Disorders in the Elderly.
Little Rock, Arkansas.

Hands-on instructor at the American College of Rheumatology (ACR) Musculoskeletal Ultrasound Course for Rheumatologist. Hands-on Instructor, Chicago, IL.

Invited Speaker on “Role IL-1 beta in Development of Osteoarthritis (OA)”.
VI International Symposium of Rheumatology, Caracas, Venezuela.

Invited Speaker on “Inflammatory Caspases and the Inflammasome:
Master switches of Inflammation, Role of IL-1 beta”.
XII International Rheumatology, New Challenges in Rheumatology, Merida, Venezuela.

Invited hands-on musculoskeletal ultrasound instructor for the University of Los Andes
School of Medicine, Musculoskeletal Ultrasound Basic and Intermediate Course,
Merida, Venezuela.

Hands-on instructor at the American College of Rheumatology (ACR) Musculoskeletal
Ultrasound Course for Rheumatologist. Hands-on Instructor, Chicago, IL.

Invited Speaker on “Crystal Associated Arthritis in the Elderly”.
XXVIII Chilean Rheumatology Congress, Antofagasta, Chile.

Invited Speaker on “Use of non-biologic and biologic-DMARDs in the Elderly”.
XXVIII Chilean Rheumatology Congress, Antofagasta, Chile.

Invited Speaker on “Iatrogenic Rheumatic Syndromes in the Elderly”.
XXVIII Chilean Rheumatology Congress, Antofagasta, Chile.

Invited Speaker on “Crystal-related Arthropathies: Is it crystal clear?”.
Rheumatology Grand Rounds. Guadalajara General Hospital, Guadalajara, Mexico.

Invited Speaker on “Calcium-Crystal Deposition Diseases in the Elderly”.
Rheumatology Grand Rounds at the Mexico City General Hospital, Mexico City, Mexico.

Invited Speaker “Update on Crystal-induced Arthritis: Is it Crystal Clear?”.
Mexican College of Rheumatology Monthly Rounds, Mexico City, Mexico.

2012 Invited Speaker Invited Speaker on “Basic Sonographic Musculoskeletal Lesions in
Rheumatology”.
PANLAR-Pre-Congress Musculoskeletal Ultrasound (MSUS) Course,
XVII Congress of Pan American League of Associations for Rheumatology (PANLAR),
Punta Cana, Dominican Republic.

Invited Speaker on “Anatomy and Sonoanatomy of the Shoulder”.
PANLAR-Pre-Congress Musculoskeletal Ultrasound (MSUS) Course,
XVII Congress of Pan American League of Associations for Rheumatology (PANLAR),
Punta Cana, Dominican Republic.

Invited hand-on-instructor for the Basic Musculoskeletal Ultrasound Course.

PANLAR-Pre-Congress Musculoskeletal Ultrasound (MSUS) Course, XVII Congress of Pan American League of Associations for Rheumatology (PANLAR), Punta Cana, Dominican Republic.

Invited Speaker on “New Therapies in Gouty Arthritis”.

XVII Congress of Pan American League of Associations for Rheumatology (PANLAR), Punta Cana, Dominican Republic.

Invited Speaker on “Difficult Cases in OA”.

XVII Congress of Pan American League of Associations for Rheumatology (PANLAR), Punta Cana, Dominican Republic.

Invited Speaker on “Musculoskeletal Ultrasound Applications: Rheumatologist Dream”.

American College of Rheumatology (ACR) Research Workshop, Denver, CO.

Invited Speaker on “Peculiarities of Vasculitis in the Elderly” in Management of the Critical Patient with Rheumatic Diseases, The Chilean Society of Rheumatology and Society of Intensive Care Medicine, Santiago, Chile.

Invited Speaker on “Autoinflammatory Syndromes” in Management of the Critical Patient with Rheumatic Diseases, The Chilean Society of Rheumatology and Society of Intensive Care Medicine, Santiago, Chile.

Invited Speaker on “Osteoarthritis (OA): Management, Therapeutic Goals and Guidelines”.

Arthritis Foundation, Providence, RI.

2014 Invited Speaker on “Semiology of sonopathology of hyaline and fibrocartilage and crystal induced arthritis”.

PANLAR-Pre-Congress Musculoskeletal Ultrasound (MSUS) Course, XVIII Congress of Pan American League of Associations for Rheumatology (PANLAR), Punta del Este, Uruguay.

Invited hand-on-instructor for the Intermediate Musculoskeletal Ultrasound Course, PANLAR-Pre-Congress Musculoskeletal Ultrasound (MSUS) Course, XVIII Congress of Pan American League of Associations for Rheumatology (PANLAR), Punta del Este, Uruguay

Invited hand-on-instructor for the Advanced Musculoskeletal Ultrasound Course, PANLAR-Pre-Congress Musculoskeletal Ultrasound (MSUS) Course, XVIII Congress of Pan American League of Associations for Rheumatology (PANLAR), Punta del Este, Uruguay.

Visiting Professor Argentinian Society of Rheumatology, Buenos Aires, Argentina.

Lectured on “Iatrogenic Rheumatic Syndromes in the Elderly”.

Lecture on “Update on Crystal-induced Arthritis: Is it Crystal Clear?”.

Discussant in “Difficult Cases in Rheumatology: Buenos Aires, Argentina”

Visiting Professor Argentinian Society of Rheumatology, Rosario, Argentina.

Lectured on “Iatrogenic Rheumatic Syndromes in the Elderly”.
Lecture on “Update on Crystal-induced Arthritis: Is it Crystal Clear?”.
Discussant in “Difficult Cases in Rheumatology: Rosario, Argentina”

Visiting Professor Argentinian Society of Rheumatology, Cordoba, Argentina
Lectured on “Iatrogenic Rheumatic Syndromes in the Elderly”.
Lecture on “Update on Crystal-induced Arthritis: Is it Crystal Clear?”.
Discussant in “Difficult Cases in Rheumatology: Cordoba, Argentina”

The Arthritis Foundation 3rd Annual Better Living with Arthritis. Invited Speaker on
“Research Update: What a Rheumatologist has to Say”. Providence, RI.

2015 Invited Speaker on “Treat-to-target in rheumatoid arthritis (RA) and ultrasound. Do they speak the same language”. First PANLAR Rheumatology Review Course in “Challenges and solutions of Rheumatoid Arthritis in Latin America. Pre-Congress Course-Ultrasound in Rheumatology PANLAR 2015. Barranquilla, Colombia.

Invited hand-on-instructor for the PANLAR Musculoskeletal Ultrasound Course, First PANLAR Rheumatology Review Course in “Challenges and solutions of Rheumatoid Arthritis in Latin America. Pre-Congress Course-Ultrasound in Rheumatology PANLAR 2015. Barranquilla, Colombia.

Invited Speaker “Sonographic Evaluation of Crystal-Related Diseases: Synovial Fluid Analysis” Musculoskeletal Ultrasound Study Group. American College of Rheumatology. San Francisco, CA.

2016 Invited Speaker on “Direct from Derm-Rheum Clinic: Practical Tips and Advances in Management of Lupus and Dermatomyositis” 74th Annual Meeting. American Academy of Dermatology. Washington, D.C.

Invited Speaker on “New Ultrasound Measure in Nail Psoriasis” GRAPPA Adjacent to the 74th Annual Meeting. American Academy of Dermatology. Washington, D.C.

Invited Speaker on “Role of US in Treat-to-target (T2T) in Psoriatic Arthritis (PsA). Myth or Reality?”. Integrated Imaging in Spondyloarthropathies (SpA). Pre-Congress Ultrasound Course in Rheumatology PANLAR 2016. Panama City, Panama.

Invited Speaker on Microcrystal Arthropathies “Update in Calcium Pyrophosphate Crystals Disease (CPPD)”. XIX Congress of Pan American League of Associations for Rheumatology (PANLAR), 2016. Panama City, Panama.

Invited Speaker on “What is New in Psoriatic Arthritis (PsA): Focus on Nail Changes, Enthesitis, Dactylitis, and State of the Art in Imaging”. DREA. Novartis, Newark, NJ.

Invited Speaker on “Nail Ultrasound”. 2016 GRAPPA Annual Meeting and Trainees Symposium. Miami, FL.

2017 Invited Speaker on “Incorporating Musculoskeletal Ultrasound in Rheumatology Clinic at the VAMC”. VA Rheumatology Consortium (VARC). St Louis, MO.

Invited Speaker on “Treatment Challenges from Dermatology/Rheumatology Clinics”. DREA. Lilly, Indianapolis, IN.

Invited Speaker on “Psoriatic arthritis (PsA): Imaging in the Real World”. DREA. Lilly, Indianapolis, In.

2018 Invited Speaker on “Common High-Frequency Ultrasound Applications in Rheumatology”. American Ultrasound Institute of Medicine (AIUM) National Meeting. 2018. New York City, NY.

Coordinator for PANLAR Pre-congress Musculoskeletal Ultrasound Course: Intensive Ultrasound Course applied to Rheumatology "The hand and foot in rheumatoid arthritis and the entheses in spondyloarthritis". XX Congress of Pan American League of Associations for Rheumatology (PANLAR), 2018. Buenos Aires, Argentina.

Coordinator for PANLAR Course entitled “Imaging and Synovial Fluid Analysis in the Evaluation of Crystal-Induced Arthritis”. XX Congress of Pan American League of Associations for Rheumatology (PANLAR), 2018. Buenos Aires, Argentina.

Speaker on “General aspects of synovial fluid and microscopic analysis in microcrystalline arthropathies”. PANLAR Imaging and Synovial Fluid Analysis in the Evaluation of Crystal-Induced Arthritis Course. XX Congress of Pan American League of Associations for Rheumatology (PANLAR), 2018. Buenos Aires, Argentina.

Hand-on ultrasound instructor in PANLAR Imaging and Synovial Fluid Analysis in the Evaluation of Crystal-Induced Arthritis Course. XX Congress of Pan American League of Associations for Rheumatology (PANLAR), 2018. Buenos Aires, Argentina.

Invited Speaker on “The Role of Ultrasound in Osteoarthritis and Crystal-Related Arthropathies. Where we are?”. PANLAR Round Table Study Group Impact of Ultrasound. XX Congress of Pan American League of Associations for Rheumatology (PANLAR), 2018. Buenos Aires, Argentina.

Invited Speaker on “Role of Ultrasound in Crystal-Induced Arthritis”. PANLAR Round Table Sickness through Crystals. XX Congress of Pan American League of Associations for Rheumatology (PANLAR), 2018. Buenos Aires, Argentina.

Invited Speaker on “Anti-Inflammatory Mechanism(s) of Lubricin/Proteoglycan-4 (PRG4) in Gout”. 2018 Rhode Island NIH IDEa Symposium. Warren Alpert School of Medicine of Brown University. Providence, RI.

Invited Speaker on “Fundamentals of Psoriatic Arthritis (PsA)”. Dermatology-Rheumatology Trainee Symposium. National Psoriasis Foundation. Omni Hotel. Providence, RI.

Invited Speaker and Hands on “Dermatology Residents: Inflammatory vs Non-Inflammatory Joint Exam”. Dermatology-Rheumatology Trainee Symposium. National Psoriasis Foundation. Omni Hotel. Providence, RI.

Invited Speaker on “ Update from the Combined Rheumatology Dermatology-Rheumatology Clinics from the Brown/Rhode Island Hospital. Psoriasis and Psoriatic Arthritis Clinics Multicenter Advancement Network (PPACMAN). Ney York City. NY.

2019 Invited Speaker on “Ultrasound Evaluation of Structural Damage in Early and Established Rheumatoid Arthritis (RA)”. XXI Congress of Pan American League of Associations for Rheumatology (PANLAR), 2019. Quito, Ecuador.

Invited Speaker on “What is New in Synovial Fluid Analysis”. XXI Congress of Pan American League of Associations for Rheumatology (PANLAR), 2019. Quito, Ecuador.

Hands-On Musculoskeletal Ultrasound Coordinator. Pediatric Ultrasound Workshop Applied to Rheumatology: Joints. Tendons and Enthesis. XXI Congress of Pan American League of Associations for Rheumatology (PANLAR), 2019. Quito, Ecuador.

Invited Speaker on “Direct from the Combined Dermatological-Rheumatological Combined Clinics: Practical Tips and Advances in Management”. XXI Congress of Pan American League of Associations for Rheumatology (PANLAR), 2019. Quito, Ecuador.

Invited Speaker on “ Treatment Challenges from the Derm/Rheum Clinics”. XXI Congress of Pan American League of Associations for Rheumatology (PANLAR), 2019. Quito, Ecuador.

Theoretical and Practical Symposium of Microcrystalline Diseases and Synovial Fluid Analysis. Invited Speaker on “General Aspects of the Synovial Fluid Analysis. From the Cellular Study to the Differential Diagnosis of the Different Types of Crystals”. Dominican Republic Rheumatology Society. 2019. Santo Domingo, Dominican Republic.

Theoretical and Practical Symposium of Microcrystalline Diseases and Synovial Fluid Analysis. Invited Speaker on “Integration of ultrasound and synovial fluid study in the evaluation of microcrystalline arthropathies. Clinical Cases”. Dominican Republic Rheumatology Society. 2019. Santo Domingo, Dominican Republic.

Invited Speaker on “Crystalline Arthropathies: Update in Rheumatologic Manifestations of Calcium Metabolic Disorders”. XVII Bolivian Congress in Rheumatology. 2019. Sucre, Bolivia.

Invited Speaker on ““Determining Factors in the Development and Diagnosis of gout”. XVII Bolivian Congress in Rheumatology. 2019. Sucre, Bolivia.

Invited Speaker on “Moving the Needle: Update on Therapeutic Approaches and Personalized Medicine of Gout”. XVII Bolivian Congress in Rheumatology. 2019. Sucre., Bolivia.

2020 Invited Speaker on “Moving the Needle: Role of Biologics in Gout”. XXII Congress of Pan American League of Associations for Rheumatology (PANLAR), 2020. (Virtual). Miami, USA.

PATENTS

2021 Ex-vivo Expansion of Myeloid-derived Suppressor Cells (MDSCs) for Autologous Cell for the Treatment of Rheumatoid Arthritis (**Pending**)

GRANT SUPPORT

Past:

- 1988-1990 Arthritis Foundation. Post-doctoral Fellowship.
"Biochemistry and Molecular Biology of Type X Collagen".
Principal Investigator: Anthony M. Reginato, PhD, MD.
- 1999-2004 Arthritis Foundation Investigator Award.
"Identification of mutations in type IX and type XI collagens in primary osteoarthritis (OA)".
Principal Investigator: Anthony M. Reginato, PhD, MD.
- 2000-2003 The Pfizer Postdoctoral Fellowship Grant in Rheumatology/Immunology.
"Molecular genetics of multiple spinal disc herniation (MSDH)".
Principal Investigator: Anthony M. Reginato, PhD, MD.
- 2003-2004 Harvard/Hartford Junior Faculty Development Award
"Low density lipoprotein receptor related protein 5 (LRP5) mutations in patients with high bone mass".
Principal Investigator: Anthony M. Reginato, PhD, MD.
- 2003-2005 American College of Rheumatology (ACR), Research and Education Foundation (REF) Career Development Award in Geriatric Medicine.
"Low density lipoprotein receptor related protein 5 (LRP5) mutations in patients with low bone mass, a risk factor for osteoporosis".
Principal Investigator: Anthony M. Reginato, PhD, MD.
- 2008-2009 Harvard/Hartford Center of Excellence Career Development Award.
"Calcium-induced arthritis in the elderly".
Principal Investigator: Anthony M. Reginato, PhD, MD.
- 2006-2010 The Harold Amos Medical Faculty Development Program
The Robert Wood Johnson Foundation.
"Role of extracellular matrix in crystal-induced arthritis".
Principal Investigator: Anthony M. Reginato, PhD, MD.
Total Direct Costs =\$365,318.

- 2009-2010 Pan-American League of Association for Rheumatology (PANLAR).
 “Prevalence and development of osteoarthritis (OA) in Latin America”.
 Co-principal Investigator: Anthony M. Reginato, PhD, MD.
 Total Direct Cost=\$50,000
- 2010-2012 Center of Biomedical Research Excellence (COBRE) for Skeletal Health and
 Repair-Pilot Project Grant Program. Brown University.
 “Genetics of Hydroxyapatite Deposition Disease (HADD) of the shoulder
 (Milwaukee Shoulder).
 Principal Investigator: Anthony M. Reginato, PhD, MD.
 Total Direct-Cost=\$55,000.
- 2011-2012 Rhode Island Foundation.
 “Role of Granzyme A in Early Rheumatoid Arthritis (EARA).
 Principal Investigator: Anthony M. Reginato, PhD, MD.
 Total Direct-Cost=\$15,000.
- 2015 American College of Rheumatology/Research Education Foundation
 Medical Resident Preceptorship.
 Awardee: Nicole Yang, MD.
 Role: Mentor
 “Monosodium Urate Monohydrate (MSU)-Crystals Induces the Expression
 of Ihh: Implications in Osteoarthritis (OA) Development”
 Total Direct-Cost: \$15,000.
- 2014-2016 Arthritis National Research Foundation.
 “Mobilizing Ctsk+ Cartilaginous Stem Cells for Cartilage Generation and Repair”
 Co-Investigator: Anthony M. Reginato, PhD, MD.
 Total Direct-Cost=\$200,000.
- 2013-2017 Center of Biomedical Research Excellence (COBRE) for Skeletal Health and
 Repair-Project Grant Program. Brown University.
 “Calcification of Articular Cartilage”
 Sub-investigator: Anthony M. Reginato, PhD, MD.
 Total Direct-Cost=\$250,000.
- 2013-2017 Veterans Administration.
 “Discontinuing NSAIDs in Veterans with Knee of Osteoarthritis (OA).
 Site-Investigator Providence VA Medical Center Site.
 Investigator:
 Total Direct-Cost=\$250,000.
- Present**
- 2021-2022 Center of Biomedical Research Excellence (COBRE) for Skeletal Health and

Repair-Project Grant Program. Brown University.
“Effect of Aging Hematopoiesis in the Development of Rheumatoid Arthritis (RA)”
Principal Investigator: Anthony M. Reginato, PhD, MD.
Total Direct-Cost=\$25,000/year.

2020-2022 Center of Biomedical Research Excellence (COBRE) for Skeletal Health and Repair-Project Grant Program. Brown University.
“A Novel strategy for Modulation of Myeloid-derived Suppressor Cells to Control RA”.
PI: Eui Young So PhD.
Role: Mentor.
Total Direct-Cost=\$50,000/year.

2021-2022 Pilot Project Grant by the Skeletal Health and Repair COBRE of Rhode Island Hospital, entitled "A Novel Strategy for Modulation of Myeloid-Derived Suppressor Cells to Control Rheumatoid Arthritis".
PI: Eui Young So PhD.
Role: Mentor.
Total Direct-Cost=\$50,000/year.

2021 -2021 Pilot Project Grant by the Skeletal Health and Repair COBRE of Rhode Island Hospital, entitled “Effects of Aging Hematopoiesis on Rheumatoid Arthritis.
Principal Investigator: Anthony M. Reginato, PhD, MD
Total Direct=\$25,000.

Pending

2022-2027 National Institute on Aging.
“Confluence of Sexual Dimorphism in Aging Hematopoiesis and Rheumatoid Arthritis”.
Co-Investigator: Anthony M. Reginato, PhD, MD
Total Direct-Cost=\$350,000/year

2021-2022 Pfizer Independent Medical Education Grant
Virtual Programs for Rheumatology Education
“Update in Point of Care Ultrasound (POCUS) Education Program in Rheumatology.”
Principal Investigator: Anthony M. Reginato, PhD, MD
Total Directs=\$250,000

2022-2024 VA Biomedical Laboratory R&D Service (BLR&D).
Pilot/SPIRE
“Targeting Senescent T-cells as a Novel Treatment Modality for Rheumatoid Arthritis (RA).
Principal Investigator: Anthony M. Reginato, PhD, MD

Total Directs=\$250,000

Clinical Trials:

- 2011-2012 Schwartz Biosciences/UCB
“A Phase 3B, Open-Label, Multicenter, Exploratory Study to Assess Changes in Joint Inflammation Using Ultrasonography in Subjects with Rheumatoid Arthritis”.
Principal Investigator: Anthony M. Reginato, PhD, MD.
- 2017-2019 Abbvie
Protocol H15-457 “Cross-sectional Study Evaluating Clinical Specialty Setting as Determinants of Management in Patients with Psoriatic Arthritis”.
Principal Investigator: Anthony M. Reginato, PhD, MD.
- 2019- AMGEN
A phase 4, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study to Evaluate the Efficacy, Safety, and Tolerability Study of Apreilast (CC-1004) in Subjects with Early, Oligoarticular Psoriatic Arthritis Despite Initial Stable Treatment with Either NSAIDs and/or <1 Conventional Synthetic DMARD (FOREMOST).
Co- Principal Investigator: Anthony M. Reginato, PhD, MD.

UNIVERSITY TEACHING ROLES

1. Local Contributions:

a. Medical School Courses:

University of Pennsylvania School of Medicine

1983-1984 **Histology and Molecular Biology**.-Teaching Assistant.

1985 **Embryology**-Teaching Assistant.

1985-1988 **Human Gross Anatomy**-Teaching Assistant.

1990 **Human Gross Anatomy**-Instructor.

Temple University School of Dental Medicine

1988-1989 **Human Gross Anatomy**-Teaching Assistant.

1988-1990 **Human Gross Anatomy**-Visiting Instructor.

Yale University School of Medicine

1996-1997 **Physical Examination and Diagnosis.** -Preceptor for physical examination and diagnosis.

Harvard Medical School

1997-2003 **Clerkship in Rheumatology.**-Preceptor in Rheumatology.

1997-2004 **Introduction to Clinical Medicine.**- Preceptor for examination of the rheumatology patient.

2000-2005 **Patient-doctor II Preceptor.**
-Preceptor for history taking and physical exam.

2000-2009 **Pathophysiology of the Musculoskeletal System.**
Tutor, small group rheumatological case conference discussion.

2001 **Classroom to Clerkship Transition Course.**
Preceptor on medical case presentations.

2003 **Chemistry and Biology of the Cell.**
Tutor, small group medical students conference discussion

2005 **Pathophysiology of the Musculoskeletal System.**
Lecturer on "Infectious Arthritis (IA)".

2006-2009 **Pathophysiology of the Musculoskeletal System.**
Lecturer on "Osteoarthritis (OA) and Infectious Arthritis (IA)".

Brown University

2009 **The Warren Alpert Medical School of Brown University**
3665 Supporting Structures-Pathophysiology.
Lecturer on "Crystal-Induced Arthropathies".

2010 **3665 Supporting Structures-Pathophysiology.**
Lecturer on "Crystal-Related Arthropathies".

2011 **3665 Supporting Structures-Pathophysiology.**
Lecturer on "Crystal-Related Arthropathies".

2012 **3665 Supporting Structures-Pathophysiology.**
Lecturer on "Crystal-Related Arthropathies".

2013 **3665 Supporting Structures-Pathophysiology.**
Lecturer on "Crystal-Related Arthropathies".

2014 **3665 Supporting Structures-Pathophysiology**
Lecturer on "Crystal-Related Arthropathies".

- Lecturer on “Vasculitis”.
- 2016 **3665 Supporting Structures-Pathophysiology.**
Lecturer on “Crystal-Related Arthropathies”.
- 3665 Supporting Structures-Pathophysiology.**
Lecturer on “Vasculitis: Signs, Symptoms and Pathology”.
- 2017 **3665 Supporting Structures-Pathophysiology.**
Lecturer on “Crystal-Related Arthropathies”.
- 2018 **3665 Supporting Structures-Pathophysiology.**
Lecturer on “Crystal-Related Arthropathies”.
- 2019 **3665 Supporting Structures-Pathophysiology.**
Lecturer on “Crystal-Related Arthropathies”.
- 2020 **3665 Supporting Structures-Pathophysiology**
Lecturer on “Crystal-Related Arthropathies”. (Virtual)
- 2021 **3665 Supporting Structures-Pathophysiology**
Lecturer on “Crystal-Related Arthropathies”. (Virtual)
Lecturer on “Pharmacotherapy of Inflammatory Disorders II: Disease Modifying Rheumatic Drugs”. (Virtual)

b. Continuing Medical Education (CME)

American College of Rheumatology (ACR)

- 2006 **Meet the Professor** on “Crystal-induced arthritis: Pseudogout”.
70th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Washington, DC.
- 2007 **Meet the Professor** on “Crystal-induced arthritis: Pseudogout”.
71st Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Boston, MA.
- 2008 **Meet the Professor** on “Crystal-induced arthritis: Pseudogout”.
72nd Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, San Francisco, CA.
- 2009 Invited Speaker on “Ultrasound Issues in Geriatric Rheumatology”.
73st Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)

Annual Scientific Meeting, Phila, PA.

- 2010 **ACR 1st Musculoskeletal Ultrasound Course for Rheumatologist.**
74th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Chicago, IL.
MSUS instructor in hands-on sessions.
- ACR 2nd Musculoskeletal Ultrasound Course for Rheumatologist.**
74th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Atlanta, GA.
MSUS instructor in hands-on sessions.
- Invited Speaker on “Genetics of Hyperuricemia and Gout”.
74st Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Atlanta, GA.
- 2011 **ACR 3rd Musculoskeletal Ultrasound Course for Rheumatologist**
75th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Chicago, IL.
MSUS instructor in hands-on sessions.
- Musculoskeletal Ultrasound Course for Rheumatologist-
Fundamentals**
American College of Rheumatology (ACR)/Association of
Rheumatology Health Professionals (ARHP), Chicago, IL.
MSUS instructor in hands-on sessions.
- 2012 **ACR Musculoskeletal Ultrasound Course for Rheumatologist
with Interventional Cadaver Workshop-Intermediate**
American College of Rheumatology (ACR)/Association of
Rheumatology Health Professionals (ARHP), Jacksonville, FL.
MSUS instructor in hands-on sessions.
- ACR 4th Musculoskeletal Ultrasound Course for Rheumatologist**
76th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Washington, DC.
MSUS instructor in hands-on sessions.
- 2013 **ACR Musculoskeletal Ultrasound Course for Rheumatologist
with Interventional Cadaver Workshop-Intermediate**
American College of Rheumatology (ACR)/Association of

Rheumatology Health Professionals (ARHP), Chicago, IL.
MSUS instructor in hands-on sessions.

The 5th Musculoskeletal Ultrasound Course for Rheumatologist-Fundamentals

77th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, San Diego, CA.
MSUS instructor in hands-on sessions.

2014 **ACR Musculoskeletal Ultrasound Course for Rheumatologist with Interventional Cadaver Workshop-Intermediate**

American College of Rheumatology (ACR)/Association of
Rheumatology Health Professionals (ARHP), Jacksonville, FL.
MSUS instructor in hands-on sessions.

Musculoskeletal Ultrasound Course for Rheumatologist with Interventional Cadaver Workshop-Intermediate.

Invited speaker on “Sonoanatomy of crystalline arthropathies”.
Jacksonville, FL.

The 6th Musculoskeletal Ultrasound Course for Rheumatologist-Fundamentals

78th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Boston, MA.
MSUS instructor in hands-on sessions.

2015 **The 7th Musculoskeletal Ultrasound Course for Rheumatologist-Fundamentals**

79th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, San Francisco, CA.
MSUS instructor in hands-on sessions.

2016 **The 8th Musculoskeletal Ultrasound Course for Rheumatologist-Fundamentals**

80th Annual Meeting, American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Washington, DC.
MSUS instructor in hands-on sessions.

2019 **Sports Medicine Problems of the Lower Extremity + Ultrasound Findings.**

2019 American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)

Annual Scientific Meeting, Atlanta, GA.

Sports Medicine Problems of the Lower Extremity + Ultrasound Findings.

2019 American College of Rheumatology (ACR)/
Association of Rheumatology Health Professionals (ARHP)
Annual Scientific Meeting, Atlanta, GA.

2021 **Progress of Musculoskeletal Ultrasound in the Americas. Past, Present, and Future.**

American College of Rheumatology (ACR) Convergence 2021.

Beth-Israel Medical Center (BIDMC)

2013 **BIDC-Rheumatology Grand Rounds**

Lectured on "Calcium-crystal Deposition Disease in the Elderly".

2019 **BIDC-Rheumatology Grand Rounds**

Lectured on "Ultrasound in Crystal Induced Diseases".

2021 **BIDMC-Harvard Musculoskeletal Ultrasound: Hands-On Diagnostic and Guided Interventional Skills. (Virtual)**

Lectured on "Ultrasound in Crystal Induced Arthritis"

Cleveland Clinic

2011 **Cleveland Clinic WED CME**

Lecturer on "Musculoskeletal Ultrasonography in Rheumatology".

Drexel University College of Medicine

2010 **Department of Medicine Grand Rounds**

Lecturer on "Crystal-induced arthritis: Is it crystal clear?".

Clinical Case Presentation

Lecturer and discussant on "Management of complicated crystal-induced arthritis".

Harvard Medical School

2004-2006 **MGH Internal Medicine CME Course**

Lecturer on "Gout and Pseudogout".

Medscape

2010 **Medscape Rheumatology**

Management of Difficult Rheumatoid Arthritis Cases.

NYU School of Medicine

2014

**Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Shoulder Anatomy and Pathology”.
NYU School of Medicine, New York, NY.

**Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Sonoanatomy Cases: Crystal Arthropathies”.
NYU School of Medicine, New York, NY.

Invited hand-on-instructor for Musculoskeletal Ultrasound for
Rheumatologist: Beginner and Intermediate. NYU School of Medicine. New
York, NY.

2015

**Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Shoulder Anatomy and Pathology”.
NYU School of Medicine, New York, NY.

**Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Sonoanatomy Cases: Crystal Arthropathies”.
NYU School of Medicine, New York, NY.

Invited hand-on-instructor for Musculoskeletal Ultrasound for
Rheumatologist: Beginner and Intermediate. NYU School of Medicine. New
York, NY.

2016

**Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Shoulder Anatomy and Pathology”.
NYU School of Medicine, New York, NY.

**Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Sonoanatomy Cases: Crystal Arthropathies”.
NYU School of Medicine, New York, NY.

Invited hand-on-instructor for Musculoskeletal Ultrasound for
Rheumatologist: Beginner and Intermediate. NYU School of Medicine. New
York, NY.

2017

**Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Shoulder Anatomy and Pathology”.

NYU School of Medicine, New York, NY.

**Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Sonoanatomy Cases: Crystal Arthropathies”.
NYU School of Medicine, New York, NY.

Invited hand-on-instructor for Musculoskeletal Ultrasound for
Rheumatologist: Beginner and Intermediate. NYU School of Medicine. New
York, NY.

2018 **Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Shoulder Anatomy and Pathology”.
NYU School of Medicine, New York, NY.

Invited speaker on “Sonoanatomy Cases: Crystal Arthropathies”.
NYU School of Medicine, New York, NY.

Invited hand-on-instructor for Musculoskeletal Ultrasound for
Rheumatologist: Beginner and Intermediate. NYU School of Medicine. New
York, NY.

2019 **Musculoskeletal Ultrasound for Rheumatologist:
Beginner and Intermediate.**

Invited speaker on “Shoulder Anatomy and Pathology”.
NYU School of Medicine, New York, NY.

Invited speaker on “Sonoanatomy Cases: Crystal Arthropathies”.
NYU School of Medicine, New York, NY.

Invited hand-on-instructor for Musculoskeletal Ultrasound for
Rheumatologist: Beginner and Intermediate. NYU School of Medicine. New
York, NY.

2021 **Advanced Topics for Ultrasound in Rheumatology and
Musculoskeletal Medicine.**

Invited Speaker on “Crystal Diseases”. (Virtual)

NYU Winthrop Hospital

2017 **Rheumatology Grand Rounds.**

Invited speaker on “Rheumatologic manifestations of Calcium Metabolic
Disorders”

Roger Williams Medical Center

2017 **Rheumatology Grand Rounds.**

Invited speaker on “Musculoskeletal Ultrasound: A Rheumatologist
Dream”.

Robert Wood Johnson Medical School

2010

**The 16th Musculoskeletal Ultrasound for Rheumatologist
The Antonio J. Reginato Course. Basic and Intermediate Levels**
Lecturer on “History of Musculoskeletal Ultrasound”.

**The 16th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels**
Lecturer on “Principles of Musculoskeletal Ultrasound”.

**The 16th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels**
MSUS instructor in hands-on sessions.

**The 17th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels.**
Lecturer on “History of Musculoskeletal Ultrasound”.

**The 17th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels.**
Lecturer on “Principles of Musculoskeletal Ultrasound”.

**The 17th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels.**
MSUS instructor in hands-on sessions.

2011

**The 18th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels.**
Lecturer on “History of Musculoskeletal Ultrasound”.

**The 18th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels.**
Lecturer on “Principles of Musculoskeletal Ultrasound”.

**The 18th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels.**
MSUS instructor in hands-on sessions.

2012

**The 19th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels.**
Lecturer on “History of Musculoskeletal Ultrasound”.

**The 19th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels.**
Lecturer on “Principles of Musculoskeletal Ultrasound”.

**The 19th Musculoskeletal Ultrasound for Rheumatologist.
The Antonio J. Reginato Course. Basic and Intermediate Levels .**

MSUS instructor in hands-on sessions.

2013 **The 20th Musculoskeletal Ultrasound for Rheumatologist. The Antonio J. Reginato Course. Basic and Intermediate Levels.**
Lecturer on “History of Musculoskeletal Ultrasound”.

The 20th Musculoskeletal Ultrasound for Rheumatologist. The Antonio J. Reginato Course. Basic and Intermediate Levels.
Lecturer on “Ultrasound in Osteoarthritis”.

The 20th Musculoskeletal Ultrasound for Rheumatologist. The Antonio J. Reginato Course. Basic and Intermediate Levels.
MSUS instructor in hands-on sessions.

2014 **The 21th Musculoskeletal Ultrasound for Rheumatologist. The Antonio J. Reginato Course. Basic and Intermediate Levels.**
Lecturer on “The Ankle/Foot: Standard Scans, Sonographic Anatomy, and Sonographic Pathology”.

The 21th Musculoskeletal Ultrasound for Rheumatologist. The Antonio J. Reginato Course. Basic and Intermediate Levels.
MSUS instructor in hands-on sessions.

RACME.TV

2010 **Rheumatoid Arthritis CME Webcast Library.**
Lecturer on “Role of imaging in rheumatoid arthritis (RA)”.

The Rheumatism Society of the District of Columbia.

2016 Ultrasound for Rheumatologist: Shoulder, Elbow, Hip, and Knees
Invited speaker on “Practical Demonstration of the Knee”.

Invited hand-on-instructor for Musculoskeletal Ultrasound for Rheumatologist: Shoulder, Elbow, Hip, and Knees. Margaret Diekhoner Media Center. Wheaton, MD.

2018 Ultrasound for Rheumatologist: Shoulder, Elbow, Hip, and Knees
Invited speaker on “Practical Demonstration of the Knee”.

Invited hand-on-instructor for Musculoskeletal Ultrasound for Rheumatologist: Shoulder, Elbow, Hip, and Knees. Margaret Diekhoner Media Center. Wheaton, MD.

Ultimate Medical Academy/CMM

2017 A Virtual Reality Tour: Diagnostic Strategies. Evolving Treatments, and Individualized Management of Psoriatic Arthritis. Symposium presented during 2017 ACR/ARHP Annual Meeting. San Diego, CA.

University of Arkansas Medical Center

2011 **Best Practices in the Continuum of Care: Rheumatic Disorders in the Elderly.**

Lectured on: "Calcium-Crystal Deposition Diseases in the Elderly".

University of Massachusetts Medical Center

2013 **UMASS-Rheumatology Grand Rounds.**

Lectured on: "Musculoskeletal Ultrasound: A Rheumatologist Dream".

Universidad Peruana Cayetano Heredia, Lima, Peru.

Hospital Nacional Cayetano Heredia

2016 **"1st Musculoskeletal Ultrasound Course for Rheumatologist"
Course Organizer/Lecturer/ Hand-on Instructor.**

Lecture on "Musculoskeletal sonographic principles for the rheumatologists".

Lecture on "Standard scan, sonoanatomy and sonopathology- The knee".

Lecture on "Standard scan, sonoanatomy and sonopathology- The shoulder".

Lecture on "Documentation and reporting of musculoskeletal ultrasound findings: Comparison between the USA and Peru".

Lecture on "Sonographic findings in osteoarthritis (OA) and crystal induced arthritis".

Hands on instructor on:

"Knobology and optimization of sonographic images"

"Standard sonographic scan: The knee".

"Standard sonographic scan: The hip".

"Standard sonographic scan: The ankle and foot".

"Standard sonographic scan: The knee, elbow, and ankle and foot".

"Standard sonographic scan: The wrist".

"Standard sonographic scan: The elbow".

"Standard sonographic scan: The shoulder".

"Ultrasound guided procedures".

"Standard sonographic scan: The wrist, elbow, and shoulder".

University of Rochester School of Medicine & Dentistry

2009 **Musculoskeletal Ultrasound (MSUS) in Rheumatology**

MSUS instructor in hands-on sessions.

2011 **Musculoskeletal Ultrasound in Rheumatology Master's**

Lectured on "Elbow Sonoanatomy".

Warren Alpert Medical School at Brown University

2016 **1st Annual Dermatology-Rheumatology Update**

Co-director

Lectured on: Lupus
Lectured on: Dermatomyositis
Discussant: Update in Biological Therapy
Panel Discussion & Question and Answer Sessions

2017 **2nd Annual Dermatology-Rheumatology Update**
Co-director
Lectured on: Lupus
Lectured on: Dermatomyositis
Discussant: Update in Biological Therapy
Panel Discussion & Question and Answer Sessions

2018 **Multidisciplinary Autoimmune Disease Summit**
Lectured on: Dermatomyositis
Lectured on: Lupus
Discussant: Update in Biological Therapy
Panel Discussion & Question and Answer Sessions

2019 **Update in Psoriatic Arthritis: Improving Patient Outcomes Through Personalization of Therapy.**
Brown CME-MedPoints

2020 **Istanbul Derm-Rheum Update Summit 2020.**
Lectured on: Dermatomyositis: Musculoskeletal Updates.
Lectured on: Meet the Professor: Practical Tips on Adjuvant Therapy-Rheumatic Diseases.

2021 **Voices in Psoriatic Arthritis.**
Brown CME-MedPoints

2021 **Istanbul Derm-Gastro-Rheum Update Summit 2021.**
Lectured on: Meet the Professor: Challenging Cases from the Combined Dermatology-Rheumatology Clinic.

2021 **Brown Internal Medicine Grand Rounds.**
Lectured on: "Lessons Learned Working Together in a Multidisciplinary Dermatology-Rheumatology Clinic"

HOSPITAL TEACHING ROLES

Yale-New Haven Hospital

1997 **Medical Resident Grand Rounds**
Department of Internal Medicine
Lecturer on "Pathogenesis of Goodpasture Syndrome".

Massachusetts General Hospital

- 1997 **Arthritis Unit Grand Rounds.**
-Lecturer on “Relapsing Polychondritis”.
-Lecturer on “Neurological manifestations of systemic lupus erythematosus”
-Lecturer on “Adult Onset Still’s Disease”.
- 1999 **Podiatry Grand Rounds.**
Lecturer on “Advances in Rheumatoid Arthritis”.
- 2003 **Rheumatology Grand Rounds.**
Lecturer on “From wingless to boneless: The role of LRP5 gene in determining bone mass”.
- 2004 **Bulfinch Medical Group. Department of Internal Medicine.**
-Lecturer on “Up-to-date in Osteoarthritis (OA)”.
-Lecturer, on “Pseudogout and gout”.
- 2005 **Medicine Clinicopathologic Case Conference.**
Case Discussant and Lecturer on “Behcet’s Disease”.
- Rheumatology Fellowship Summer Teaching Conference.**
Lecturer on “Infectious Arthritis (IA)”.
- 2006 **Rheumatology Fellowship Summer Teaching Conference.**
Lecturer on “Infectious Arthritis (IA)”.
- 2007 **MGH-Internal Medicine Resident Noon Conference.**
Lecturer on “Crystal-Induced Arthritis”.
- Partners Rheumatology Fellows Summer Teaching Conference.**
Lecturer on “Infectious Arthritis (IA)”
- Knee Arthrocentesis Workshop.**
Lecturer and hands-on instructor on knee diagnostic arthrocentesis
- MGH-Swedish Rheumatology Educational Exchange Program.**
Organizer and lecturer on “MSU-crystal induced arthritis: Is it crystal clear”
- 2008 **MGH-Rheumatology, Allergy and Immunology Grand Rounds.**
Lecturer on “Musculoskeletal ultrasound in rheumatology practice and fellowship training program”.
- MGH-Internal Medicine Resident Noon Conference.**
Lecturer on “Scleroderma and related disorders”.

Partners Rheumatology Fellows Teaching Summer Conference.
Lecturer on “Osteoarthritis (OA) and cartilage related disorders”.

Partners Rheumatology Fellows Teaching Summer Conference.
Lecturer on “Infectious Arthritis (IA)”.

Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellow.
-Lecture on “Basic of Musculoskeletal Ultrasound”.
-Lecture and hands-on training on “The hip”.
-Lecture and hands-on training on “The knee”.
-Lecture and hands-on training on “The shoulder”.

Spaulding Rehabilitation Hospital

2007 **Neuromuscular Rehabilitation and Electrodiagnosis Conference.**
Lecturer on “Calcium Pyrophosphate Deposition Disorders”.

Rhode Island Hospital

2008 **Brown University Rheumatology Grand Rounds.**
Lectured on “Pseudogout- Update”.

2009 **Brown University Rheumatology Grand Rounds.**
Lectured on “Musculoskeletal Ultrasound in Rheumatology:
State of the Arts”.

RIH Housestaff Noon Conference
Lectured on “Crystal-arthropathies”.

2010 **COBRE Orthopaedic Research Meeting.**
Lectured on “Inflammation in Crystal-Induced Arthritis”.

RIH Housestaff Noon Conference.
-Lectured on “Septic Arthritis and Bursitis” (Fall and Spring).
-Lectured on “Spondyloarthropathies”.
-Lectured on “Crystal-Related Arthropathies”.

Orthopedic Basic Research Conference.
Lecturer on “Rheumatic Diseases: Crystal-Related Arthropathies”

RIH Medical Grand Rounds.
Lectured on “Musculoskeletal Ultrasound in Rheumatic Diseases”.

Brown University Rheumatology Grand Rounds.
Lectured on “Musculoskeletal Ultrasound in Rheumatology:
State of the Arts”.

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lecture on "Imaging Modalities in Rheumatic Disease".
- Lecture on "Infectious Arthritis".
- Lectured on "MSU-crystal Induced Arthritis"
- Lecture on "Other Crystal Arthropathies".

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lecture on "Basic of Musculoskeletal Ultrasound".
- Lecture on "Power Doppler and Knobology".
- Lecture on "Sonoanatomy and sonopathology"
- Lecture on "Shoulder Ultrasound".
- Hands on* "Shoulder ultrasound scanning technique".
- Lecture on "Elbow Ultrasound".
- Hands on* "Elbow ultrasound scanning technique".
- Lecture on "Wrist Ultrasound".
- Hands on "Wrist ultrasound scanning technique".
- Lecture on "Knee Ultrasound".
- Hands on* "Knee ultrasound scanning technique".
- Lecture on "Hip Ultrasound".
- Hands on* "Hip ultrasound scanning technique".
- Lecture on "Ankle ultrasound scanning technique".
- Hands on* "Ankle ultrasound scanning technique".

2011

RIH Medical Grand Rounds.

Lectured on "Approach to Management of Early Inflammatory Arthritis (EIA)".

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lecture on "Imaging Modalities in Rheumatic Disease".
- Lecture on "Infectious Arthritis".
- Lectured on "MSU-crystal Induced Arthritis"
- Lecture on "Other Crystal Arthropathies".
- Lecture on "Vasculitis".

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on "Basic of Musculoskeletal Ultrasound".
- Lectured on "Power Doppler and Knobology".
- Lectured on "Sonoanatomy and sonopathology"
- Lectured on "Shoulder Ultrasound".
- Hands on* "Shoulder ultrasound scanning technique".
- Lectured on "Elbow Ultrasound".
- Hands on* "Elbow ultrasound scanning technique".
- Lectured on "Wrist Ultrasound".
- Hands on "Wrist ultrasound scanning technique".

- Lectured on “Knee Ultrasound”.
- Hands on* “Knee ultrasound scanning technique”.
- Lectured on “Hip Ultrasound”.
- Hands on* “Hip ultrasound scanning technique”.
- Lectured on “Ankle ultrasound scanning technique”.
- Hands on* “Ankle ultrasound scanning technique”.

Brown University Rheumatology Grand Rounds.

Lectured on “Genetic disorders of connective tissue: State of the Arts”.

2012

COBRE Orthopedic Research Conference.

Lectured on “Articular Cartilage Calcification in Osteoarthritis (OA).”

RIH Housestaff Noon Conference.

Lectured on: “Septic Arthritis and Bursitis” (Fall and Spring).

Lectured on “Crystal-Related Arthropathies” (Fall and Spring).

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lectured on “Imaging Modalities in Rheumatic Disease”.
- Lectured on “Infectious Arthritis”.
- Lectured on “Management of Early Rheumatoid Arthritis (RA)”.
- Lectured on “MSU-crystal Induced Arthritis”
- Lectured on “Other Crystal Arthropathies”.
- Lectured on “Vasculitis”.

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on “ Basic Introduction to Musculoskeletal Ultrasound”
- Lectured on “Basic Physical Principles of Musculoskeletal Ultrasound”
- Lectured on “Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings”.
- Hands on* “Knobology and basic scanning techniques”.
- Lectured on “Power Doppler and Knobology”.
- Lectured on “Shoulder Ultrasound”.
- Hands on* “Shoulder ultrasound scanning technique”.
- Lectured on “Elbow Ultrasound”.
- Hands on* “Elbow ultrasound scanning technique”.
- Lecture on “Wrist Ultrasound”.
- Hands on* “Wrist ultrasound scanning technique”.
- Lectured on “Knee Ultrasound”.
- Hands on* “Knee ultrasound scanning technique”.
- Lectured on “Hip Ultrasound”.
- Hands on* “Hip ultrasound scanning technique”.
- Lectured on “Ankle ultrasound scanning technique”.
- Hands on* “Ankle ultrasound scanning technique”.

2013

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lectured on "Imaging Modalities in Rheumatic Disease".
- Lectured on "Management of Early Rheumatoid Arthritis (RA)".
- Lectured on "MSU-crystal Induced Arthritis"
- Lectured on "Other Crystal Arthropathies".
- Lectured on "Infectious Arthritis".
- Lectured on "Vasculitis".

RIH Housestaff Noon Conference.

- Lectured on "Septic Arthritis and Bursitis"(Fall and Spring).
- Lectured on "Vasculitis, Diagnosis and Management" (Fall and Spring).

Orthopedic Basic Research Conference.

Lectured on "Rheumatic Diseases: Crystal-Related Arthropathies".

RIH Morbidity and Mortality Conference.

Discussant on: "Thirty-six-year-old female with Recurrent Raynaud's Phenomenon".

Miriam Hospital Morbidity and Mortality Conference.

Discussant on: "Sixty-year-old male with Chrugg-Strauss Syndrome".

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on " Basic Introduction to Musculoskeletal Ultrasound"
- Lectured on "Basic Physical Principles of Musculoskeletal Ultrasound"
- Lectured on "Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings".
- Hands on* "Knobology and basic scanning techniques".
- Lectured on "Power Doppler and Knobology".
- Lectured on "Shoulder Ultrasound".
- Hands on* "Shoulder ultrasound scanning technique".
- Lectured on "Elbow Ultrasound".
- Hands on* "Elbow ultrasound scanning technique".
- Lectured on "Wrist Ultrasound".
- Hands on* "Wrist ultrasound scanning technique".
- Lectured on "Knee Ultrasound".
- Hands on* "Knee ultrasound scanning technique".
- Lectured on "Hip Ultrasound".
- Hands on* "Hip ultrasound scanning technique".
- Lectured on "Ankle ultrasound scanning technique".
- Hands on* "Ankle ultrasound scanning technique".

2014

Brown/RWMC Rheumatology Fellows Core Lecture Series.

- Lectured on "Imaging Modalities in Rheumatic Disease".

- Lectured on “Infectious Arthritis”.
- Lectured on “Management of Early Rheumatoid Arthritis (RA)”.
- Lectured on “MSU-crystal Induced Arthritis”
- Lectured on “Other Crystal Arthropathies”.
- Lectured on “Vasculitis”.

RIH Housestaff Noon Conference.

- Lectured on “Septic Arthritis and Bursitis” (Fall and Spring).
- Lectured on “Vasculitis, Diagnosis and Management”.
- Lectured on “Acute monoarthritis”.

COBRE Orthopedic Basic Research Conference.

Lectured on “Mechanism of Structural Joint Damage in Gout”.

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

Lecture on “ Basic Introduction to Musculoskeletal Ultrasound”

- Lectured on “Basic Physical Principles of Musculoskeletal Ultrasound”
- Lectured on “Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings”.
- Hands on* “Knobology and basic scanning techniques”.
- Lectured on “Power Doppler and Knobology”.
- Lecture on “Shoulder Ultrasound”.
- Hands on* “Shoulder ultrasound scanning technique”.
- Lectured on “Elbow Ultrasound”.
- Hands on* “Elbow ultrasound scanning technique”.
- Lectured on “Wrist Ultrasound”.
- Hands on* “Wrist ultrasound scanning technique”.
- Lectured on “Knee Ultrasound”.
- Hands on* “Knee ultrasound scanning technique”.
- Lectured on “Hip Ultrasound”.
- Hands on* “Hip ultrasound scanning technique”.
- Lectured on “Ankle ultrasound scanning technique”.
- Hands on* “Ankle ultrasound scanning technique”.

2015

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lectured on “Imaging Modalities in Rheumatic Disease”.
- Lectured on “Management of monoarthritis”.
- Lectured on “Management of Early Rheumatoid Arthritis (RA)”.
- Lectured on “Gout-related arthritis”.
- Lectured on “Calcium containing crystal-induced arthritis”.
- Lectured on “Infectious Arthritis”.
- Lectured on “Vasculitis”.

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on “ Basic Introduction to Musculoskeletal Ultrasound”
- Lectured on “Basic Physical Principles of Musculoskeletal Ultrasound”
- Lectured on “Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings”.
- Hands on* “Knobology and basic scanning techniques”.
- Lectured on “Power Doppler and Knobology”.
- Lectured on “Shoulder Ultrasound”.
- Hands on* “Shoulder ultrasound scanning technique”.
- Lectured on “Elbow Ultrasound”.
- Hands on* “Elbow ultrasound scanning technique”.
- Lectured on “Wrist Ultrasound”.
- Hands on* “Wrist ultrasound scanning technique”.
- Lectured on “Knee Ultrasound”.
- Hands on* “Knee ultrasound scanning technique”.
- Lectured on “Hip Ultrasound”.
- Hands on* “Hip ultrasound scanning technique”.
- Lectured on “Ankle ultrasound scanning technique”.
- Hands on* “Ankle ultrasound scanning technique”.
- Lectured on “Treat to Target (T2T) and Ultrasound. Do they Speak the Same Language? Point of Care Ultrasound in Rheumatoid Arthritis (RA).

RIH Housestaff Noon Conference.

- Lectured on “Osteoarthritis (OA): Diagnosis and Management”.
- Lectured on “Acute arthritis and bursitis” (Fall and Spring).
- Lectured on “Crystal-related arthropathies”.

Brown Rheumatology Grand Rounds.

- Lectured on “Treat-to-Target in Rheumatoid Arthritis (RA) and Ultrasound, Do they speak the same language”?

2016

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lectured on “Imaging Modalities in Rheumatic Disease”.
- Lectured on “Management of monoarthritis”.
- Lectured on “Management of Early Rheumatoid Arthritis (RA)”.
- Lectured on “Gout-related arthritis”.
- Lectured on “Calcium containing crystal-induced arthritis”.
- Lectured on “Infectious Arthritis”.
- Lectured on “Vasculitis”.

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on “ Basic Introduction to Musculoskeletal Ultrasound”
- Lectured on “Basic Physical Principles of Musculoskeletal Ultrasound”
- Lectured on “Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings”.

- Hands on* “Knobology and basic scanning techniques”.
- Lectured on “Power Doppler and Knobology”.
- Lectured on “Shoulder Ultrasound”.
- Hands on* “Shoulder ultrasound scanning technique”.
- Lectured on “Elbow Ultrasound”.
- Hands on* “Elbow ultrasound scanning technique”.
- Lectured on “Wrist Ultrasound”.
- Hands on* “Wrist ultrasound scanning technique”.
- Lectured on “Knee Ultrasound”.
- Hands on* “Knee ultrasound scanning technique”.
- Lectured on “Hip Ultrasound”.
- Hands on* “Hip ultrasound scanning technique”.
- Lectured on “Ankle ultrasound scanning technique”.
- Hands on* “Ankle ultrasound scanning technique”.
- Lectured on “Treat to Target (T2T) and Ultrasound. Do they Speak the Same Language? Point of Care Ultrasound in Rheumatoid Arthritis (RA).
- Role of Ultrasound in Treat-to-Target (T2T) in Psoriatic Arthritis (PsA). Myth or Reality?
- Lectured

RIH Housestaff Noon Conference.

- Lectured on “Acute Inflammatory Arthritis’ (Fall and Spring).
- Lectured on “Vasculitis: Presentation, Diagnosis, and Treatment”. (Fall and Spring).

COBRE Orthopedic Basic Research Conference.

Lecturer on “Anti-inflammatory effects of PRG4/Lubricin in Gout”.

Providence VAMC Housestaff Noon Conference.

- Lectured on “Acute Arthritis and Bursitis”.
- Lectured on “Vasculitis: Presentation, Diagnosis, and Treatment”.
- Lectured on “ Polymyalgia Rheumatica (PMR) and Giant Cell Arteritis (GCA).
- Lectured on “Rheumatic Manifestations of Calcium Metabolic Disorders”

2017

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lectured on “Imaging Modalities in Rheumatic Disease”.
- Lectured on “Management of monoarthritis”.
- Lectured on “Management of Early Rheumatoid Arthritis (RA)”.
- Lectured on “Gout-related arthritis”.
- Lectured on “Calcium containing crystal-induced arthritis”.
- Lectured on “Infectious Arthritis”.
- Lecture on “Vasculitis”.

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on “ Basic Introduction to Musculoskeletal Ultrasound”
- Lectured on “Basic Physical Principles of Musculoskeletal Ultrasound”
- Lecture on “Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings”.
- Hands on* “Knobology and basic scanning techniques”.
- Lectured on “Power Doppler and Knobology”.
- Lectured on “Shoulder Ultrasound”.
- Hands on* “Shoulder ultrasound scanning technique”.
- Lectured on “Elbow Ultrasound”.
- Hands on* “Elbow ultrasound scanning technique”.
- Lectured on “Wrist Ultrasound”.
- Hands on* “Wrist ultrasound scanning technique”.
- Lectured on “Knee Ultrasound”.
- Hands on* “Knee ultrasound scanning technique”.
- Lectured on “Hip Ultrasound”.
- Hands on* “Hip ultrasound scanning technique”.
- Lectured on “Ankle ultrasound scanning technique”.
- Hands on* “Ankle ultrasound scanning technique”.

Providence VAMC Housestaff Noon Conference.

- Lectured on “Acute Inflammatory Arthritis” (Fall and Spring).
- Lectured on “Polymyalgia Rheumatica/Giant Cell Arteritis”.
- Lectured on “Vasculitis: Presentation, Diagnosis and Treatment”.

RIH Housestaff Noon Conference.

- Lectured on “Acute Inflammatory Arthritis’ (Fall and Spring).
- Lectured on “Vasculitis: Presentation, Diagnosis, and Treatment”. (Fall and Spring).

Brown/RWMC Research Conference.

Title: “From Bench to Bedside”: Brown Rheumatology Basic Science Research Projects.

Brown/RIH Orthopedic Surgery COBRE for Skeletal Health and Repair Lecture Series.

Lectured on “PRG4/Lubricin in Gout: Anti-inflammatory Effects Mediated by NALP3 Inflammasome”.

2018

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lectured on “Imaging Modalities in Rheumatic Disease”.
- Lectured on “Management of monoarthritis”.
- Lectured on “Management of Early Rheumatoid Arthritis (RA)”.
- Lectured on “Gout-related arthritis”.
- Lectured on “Calcium containing crystal-induced arthritis”.
- Lectured on “Infectious Arthritis”.
- Lectured on “Vasculitis”.

-Lectured on "Vasculitis: 2018 Treatment Update".

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on "Basic Introduction to Musculoskeletal Ultrasound"
- Lectured on "Basic Physical Principles of Musculoskeletal Ultrasound"
- Lectured on "Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings".
- Hands on* "Knobology and basic scanning techniques".
- Lectured on "Power Doppler and Knobology".
- Lectured on "Shoulder Ultrasound".
- Hands on* "Shoulder ultrasound scanning technique".
- Lectured on "Elbow Ultrasound".
- Hands on* "Elbow ultrasound scanning technique".
- Lectured on "Wrist Ultrasound".
- Hands on* "Wrist ultrasound scanning technique".
- Lectured on "Knee Ultrasound".
- Hands on* "Knee ultrasound scanning technique".
- Lectured on "Hip Ultrasound".
- Hands on* "Hip ultrasound scanning technique".
- Lectured on "Ankle ultrasound scanning technique".
- Hands on* "Ankle ultrasound scanning technique".

Providence VAMC Housestaff Noon Conference.

- Lectured on "Polymyalgia Rheumatica (PMR) and Giant Cell Arteritis (GCA)".
- Lectured on "Vasculitis: Presentation, Diagnosis and Treatment".
- Lectured on "Acute Inflammatory Arthritis".
- Lectured on "Rheumatologic Manifestations of Calcium Metabolic Disorders".

RIH Housestaff Noon Conference.

- Lectured on "Acute Inflammatory Arthritis" (Fall and Spring).
- Lectured on "Vasculitis: Presentation, Diagnosis, and Treatment". (Fall and Spring).

2019

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lectured on "Imaging Modalities in Rheumatic Disease".
- Lectured on "Management of monoarthritis".
- Lectured on "General Aspects of Synovial Fluid Analysis in Rheumatic Diseases".
- Lectured on "Management of Early Rheumatoid Arthritis (RA)".
- Lectured on "Gout-related arthritis".
- Lectured on "Calcium containing crystal-induced arthritis".
- Lectured on "Infectious Arthritis".
- Lectured on "Vasculitis".

- Lectured on “Vasculitis: 2019 Treatment Update”.
- Lectured on “Update in Psoriatic Arthritis: Improving Patient Outcomes Through Personalization of Medicine”.

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on “Basic Introduction to Musculoskeletal Ultrasound”
- Lectured on “Basic Physical Principles of Musculoskeletal Ultrasound”
- Lectured on “Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings”.
- Hands on* “Knobology and basic scanning techniques”.
- Lectured on “Power Doppler and Knobology”.
- Lectured on “Shoulder Ultrasound”.
- Hands on* “Shoulder ultrasound scanning technique”.

Providence VAMC Housestaff Noon Conference.

- Lectured on “Appropriate Use and Interpretation of Laboratory Testing in Rheumatology”.
- Lectured on “Vasculitis: Presentation, Diagnosis and Treatment”.
- Lectured on “Acute Inflammatory Arthritis”.
- Lectured on “Rheumatologic Manifestations of Calcium Metabolic Disorders”.

RIH Housestaff Noon Conference.

- Lectured on “Acute Inflammatory Arthritis’ (Fall and Spring).
- Lectured on “Vasculitis: Presentation, Diagnosis, and Treatment”. (Fall and Spring).

2020

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series.

- Lectured on “Imaging Modalities in Rheumatic Disease”.
- Lectured on “Management of monoarthritis”.
- Lectured on “General Aspects of Synovial Fluid Analysis”
- Lectured on “Management of Early Rheumatoid Arthritis (RA)”.
- Lectured on “Gout-related arthritis”.
- Lectured on “Calcium containing crystal-induced arthritis”.
- Lectured on “Infectious Arthritis”.
- Lectured on “Vasculitis”.
- Lectured on “Vasculitis: 2020 Treatment Update”.

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows.

- Lectured on “Basic Introduction to Musculoskeletal Ultrasound”
- Lectured on “Basic Physical Principles of Musculoskeletal Ultrasound”
- Lectured on “Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings”.
- Hands on* “Knobology and basic scanning techniques”.

- Lectured on “Power Doppler and Knobology”.
- Lectured on “Shoulder Ultrasound”.
- Lectured on: “Sport Medicine Problems of the Lower Extremity and Ultrasound Findings”.

Providence VAMC Housestaff Noon Conference.

- Lectured on “Appropriate Use and Interpretation of Laboratory Testing in Rheumatology”.
- Lectured on “Vasculitis: Presentation, Diagnosis and Treatment”.
- Lectured on “Acute Inflammatory Arthritis”.
- Lectured on “Rheumatologic Manifestations of Calcium Metabolic Disorders”.

RIH Housestaff Noon Conference.

- Lectured on “Acute Inflammatory Arthritis’ (Fall and Spring).
- Lectured on “Vasculitis: Presentation, Diagnosis, and Treatment”. (Fall and Spring).

2021

Brown/RWMC Rheumatology Fellows Core Clinical Lecture Series (Virtual).

- Lecture on “Imaging Modalities in Rheumatic Disease”.
- Lecture on “Management of monoarthritis”.
- Lectures on “Acute Inflammatory Arthritis”.
- Lectured on “General Aspects of Synovial Fluid Analysis”
- Lectured on “Management of Early Rheumatoid Arthritis (RA)”.
- Lectured on “MSU-crystal Induced Arthritis”.
- Lectured on “Rheumatic Manifestations of Calcium Metabolic Diseases”.
- Lectured on “Infectious Arthritis”.
- Lectured on “Vasculitis”.
- Lectured on “Vasculitis: 2021 Treatment Update”.
- Lectured on “IIM: Dermatomyositis (DM) Extramuscular Update”.

Brown/RWMC Core Musculoskeletal Ultrasound Lecture Series for Rheumatology Fellows (Virtual).

- Lectured on “Basic Introduction to Musculoskeletal Ultrasound”
- Lectured on “Basic Physical and Ultrasound Knobology”
- Lectured on “Musculoskeletal Sonoanatomy/OMERACT Definitions of Sonographic Findings”.
- Hands on* “Knobology and basic scanning techniques”.
- Lectured on “Power Doppler and Knobology”.
- Lectured on “Shoulder Ultrasound”.
- Lectured on “Upper Extremity Point of Care Ultrasound.”
- Lectured on “Lower Extremity Point of Care Ultrasound.”
- Lectured on “Ultrasound Guided Procedures: A Quick Overview.”

RIH/TMH/PRVAMC Internal Medicine Resident Noon Conference.

- Lectured on “Acute Inflammatory Arthritis” (RIH).
- Lectured on “Acute Inflammatory Arthritis” (TMH Virtual).
- Lectured on “Vasculitis: Presentation, Diagnosis and Treatment” (TMH Virtual).

GRADUATE AND POST-GRADUATE MENTEES

Students/Trainees Supervised

1986-1988 Supervised medical and undergraduate students in various independent basic science research projects in the Collagen Research Laboratory, Rheumatology Section Department of Internal Medicine, University of Pennsylvania School of Medicine, Philadelphia, PA.
(3 undergraduates and 1 medical student).

1988-1993 Supervised medical students in various independent basic science research project(s) in the Rheumatology Section Department of Internal Medicine, Thomas Jefferson University School of Medicine, Philadelphia, PA.
(2 medical students)

Thomas Jefferson University

<i>Years</i>	<i>Student/Trainee Name</i>	<i>Program Type</i>	<i>Resulting Publications</i>
1988-1990	Cesar Sanz-Rodriguez MD,	MD, Student	Three publications

Harvard School of Dental Medicine

<i>Years</i>	<i>Student/Trainee Name</i>	<i>Program Type</i>	<i>Resulting Publications</i>
2005-2007	Hyanna Su	DDS, Dental Student	None

Harvard Medical School

<i>Years</i>	<i>Student/Trainee Name</i>	<i>Program Type</i>	<i>Resulting Publications</i>
1998-2000	Eric Spade,	MD, Student	None
2002-2003	David Wu, MD	Rheumatology Fellow	One publication
2004-2005	Richard Chou, MD	Rheumatology Fellow	One publication
2005-2006	Robert Friday, MD	Rheumatology Fellow,	One publication
2005-2006	Pasha Sarraf,MD	Rheumatology Fellow	Three publications
2006-2008	Ryan Antolini, MD	Rheumatology Fellow	Four publications

2007-2008	Flavia Castelino, MD	Rheumatology Fellow	Three publications
2008-2009	Greg Emkey, MD	Rheumatology Fellow	One publication

Brown Medical School

<i>Years</i>	<i>Student/Trainee Name</i>	<i>Program Type</i>	<i>Resulting Publications</i>
2009	Sam Poon, MD	Rheumatology Fellow	1 publication
2009-2011	Elisabeth Matson, MD	Rheumatology Fellow	Three chapters
	Crisostomo Bialog, MD	Rheumatology Fellow	1 chapter, 1 publication, 2 posters
2010-2012	Candice Yuvienco, MD	Rheumatology Fellow	Three Publications
2011-2012	Irene Yang, MD	Medical Resident	One publication Second Site Preceptor
2013-2015	Joanne P. Cunha, MD	Rheumatology	1 poster, 2 publications
2013-2015	Patrick T Gleason, MD	Medical Resident	Second Site Preceptor
2013-2015	Amar R Oza, MD	Medical Resident	Research Rotation
2014-2015	Steve Schaub, MD	Medical Resident	Third Site Rotation
2014-2016	Delaney Conway, MD	Medical Resident	Second Site Preceptor 2 Posters One publication in Preparation
2014-2016	Laura Amorese-O'Connel, MD	Rheumatology Fellow	1 chapter, 1 publication
2015-2017	Alisha Lakhani, MD	Medical Resident Mentor	
2015-2017	Charis S Gn, MD	Rheumatology Fellow	2 Posters One publication in preparation
2015-2017	Rashid Ahmed	Graduate Student	Research Rotation. Two Posters, one paper in preparation, and several research awards:

2015 REF Medical and Graduate Student Preceptorship

2016 REF Student Achievement Award

2016 Student and Resident ACR/ARHP Annual Meeting Scholarship

2016 Gout, Hyperuricemia and Crystal-Associated Disease Network (G-CAN) Young Investigator Award for Abstract entitled "Differential Effect of Lubricin/Proteoglycan 4 (PRG4) in Monosodium Urate (MSU)-Crystal Induced

Inflammation on Mφ, M1, and M2 Macrophages". Presented at G-CAN Meeting, Washington, DC, 2016

2015-2017	Tina Brar, MD	Rheumatology Fellow	1 poster
2016-2018	Nadine Mbuyi, MD	Rheumatology Fellow	2 posters, 2 publication,
2017-2019	Charis Gn, MD	Rheumatology Fellow	2 Posters, 1 publication in preparation
2018-2020	Zuhal Arzomand, MD	Rheumatology Fellow	1 chapter, 2 posters
2019-2021	Burak Elkiran, MD	Rheumatology Fellow	2 posters, 1 publication in press
2020-	Pooja Reddy, MD	Rheumatology Fellow	1 publications in preparation

Roger William Hospital

<i>Years</i>	<i>Student/Trainee Name</i>	<i>Program Type</i>	<i>Resulting Publications</i>
2010-2012	Daniel Mendez, MD	Rheumatology Fellow	1 publication
2011-2013	Dan Cristescu, MD	Rheumatology Fellow	1 publication
2013-2015	Mathew J Stanishewski, MD	Rheumatology Fellow	2 posters
2013-2015	Catherine Najem, MD	Medical Resident	Two publications, 1 ACR thieves market, PRVAMC Clinical Trial
2014-2016	Pinky Yaidya, MD	Rheumatology	1 poster
2018-2020	Mathew White, MD	Rheumatology Fellow	1 chapter, 1 publication in preparation
2019-2021	Ishah Shah, MD	Rheumatology Fellow	1 paper, 1 poster
2020-2021	Lewena Maher, MD	Rheumatology Fellow	1 chapter, 1publication

Memorial Hospital

<i>Years</i>	<i>Student/Trainee Name</i>	<i>Program Type</i>	<i>Resulting Publications</i>
2014	Rasha Alqadi	Medical Resident	Research Rotation
2014-2016	Nicole Yang	Medical Resident	Research Rotation

Two publication, two abstract, and research awards:

2015-2016 REF Resident Preceptorship Grant entitled “*Monosodium Urate Monohydrate (MSU)-Crystals Induces the Expression of Ihh: Implications in Osteoarthritis (OA) Development*”.

2016 REF Marshall J. Schiff, MD Memorial Research Award for Abstract entitled “*Monosodium Urate Monohydrate (MSU) Crystals Induces Cartilage Degeneration by Accelerating Hypertrophy and Mineralization*” Presented at the 80th Annual Scientific Meeting of the American College of Rheumatology, Arthritis & Rheum. Washington, DC, 2016. (Abstract # 2281).

Miriam Hospital

<i>Years</i>	<i>Student/Trainee Name</i>	<i>Program Type</i>	<i>Resulting Publications</i>
2015	Pranav Oza, MD	Hospitalist	One publication