
BIOGRAPHICAL SKETCH

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NAME Filemon K. Tan, MD PhD	POSITION TITLE Associate Professor Department of Medicine, Division of Rheumatology UT Houston Medical School		
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Texas at Arlington, Arlington, TX	BS	1984	Biochemistry
UT-Houston Health Science Center Graduate School of Biomedical Sciences, Houston, TX	PhD	1990	Molecular Biology
UT-Houston Medical School, Houston, TX	MD	1990	Medicine

A. Positions and Honors.

Positions and employment

1991-1994 Internship and Residency, Internal Medicine, UT–Houston Medical School, Houston, TX
1994-1995 Clinical Instructor, UT–Houston Medical School, Houston, TX
1995-1998 Fellowship in Rheumatology, UT–Houston Medical School, Houston, TX
1998–2004 Assistant Professor, Division of Rheumatology, UT–Houston Medical School, Houston, TX
9/2004- Associate Professor, Division of Rheumatology, UT–Houston Medical School, Houston, TX
9/2005- Rheumatology Fellowship Program Director, UT–Houston Medical School, Houston, TX

Other Experience and Professional Memberships

1992- Texas License no. J0874
1995-2015 Board certified in Internal Medicine, American Board of Internal Medicine
1995-present Fellow member, American College of Rheumatology
1998-2008 Board certified in Rheumatology, American Board of Internal Medicine, 1998-2008
2001-2005 Advisory Editorial Board *Arthritis and Rheumatism*
2002-2004 NIH-NIAMS Special Emphasis Panel, ZAR1 JRL-D (M1); ZAR1 GHN-B (M1)
2003-2005 Scleroderma Foundation Peer Review Committees
7/2004 Invited speaker, 8th International Workshop on Scleroderma Research (Cambridge, UK)
2005 Autoimmune diseases section, American Institute of Biological Sciences, PRMRP-05, 2005
2005 NIH-NIAMS P60 MCRC Review Committee
2006 NIH-NIAMS Special Emphasis Panel, ZAR1 EHB-J M1
2006 External reviewer, Northwestern University MCRC
2006 Invited reviewer, Arthritis Research Campaign (UK)
8/2006 Invited speaker, 9th International Workshop on Scleroderma Research (Boston)
5/2007 Invited speaker, Professor E. Carwile LeRoy Memorial International Workshop on Scleroderma (Tokyo)

Ad Hoc reviewer for New England Journal of Medicine; Journal of Rheumatology; Tissue and Antigens; Journal of Musculoskeletal Diseases; American Journal of Medicine; Arthritis Therapy and Research

Honors

1994 -1995 Chief Medical Resident, Internal Medicine
1998 Outstanding Senior Rheumatology Scholar Award, American College of Rheumatology
2000 Outstanding Clinical Associate Physician Award, NIH General Clinical Research Centers
2004-2006 Dean's Teaching Excellence Award (awarded annually)
2006 Alpha Omega Alpha Honor Medical Society
2005-2007 UT-Houston Medical School Master Teacher Award

A. Selected peer-reviewed publications (in chronological order).

1. Arnett FC, Howard FR, **Tan F**, Moulds J, Bias WB, Durban E, Cameron HD, Paxton G, Hodge TJ, Weathers DO, Reveille JD: Increased prevalence of systemic sclerosis (scleroderma) in a Native American tribe in Oklahoma: Association with an Amerindian haplotype. *Arthritis Rheum.* 1996, 39: 1362-1370
2. **Tan F**, Stivers DN, Chakraborty R, Foster MW, Howard RF, Milewicz DM, Arnett FC: Association of microsatellite markers near the fibrillin 1 gene on human chromosome 15q with scleroderma in a Native American population. *Arthritis Rheum.* 1998, 41:1729-1737
3. **Tan F**, Stivers DN, Arnett FC, Chakraborty R, Howard RF, Reveille JD: HLA haplotypes and microsatellite polymorphisms in and around the MHC region in a Native American population with a high prevalence of scleroderma (systemic sclerosis). *Tissue Antigens* 1999, 53:74-80
4. **Tan FK**, Arnett FC, Stephan S, Sinichiro S, Mirachi A, Speira H, Takeshi S, Shoichi O, LeRoy C, Postlewaite AE, Bona C: Autoantibodies to the extra-cellular matrix microfibrillar protein, fibrillin-1 in patients with scleroderma and other connective tissue diseases. *J Immunol* 1999, 163: 1066-1072
5. Arnett FC, **Tan FK**, Uziel Y, Krafchik BR, Laxer RM, Antohi S, Bona, CA: Autoantibodies to the extracellular matrix microfibrillar protein, fibrillin-1 in patients with localized scleroderma. *Arthritis Rheum* 1999, 42:2656-2659
6. Zhou X, **Tan FK**, Stivers DN, Arnett FC: Microsatellites and intragenic polymorphisms of transforming growth factor β and platelet derived growth factor and their receptor genes in Native Americans with systemic sclerosis (scleroderma): a preliminary genetic analysis showing no genetic association. *Arthritis Rheum* 2000, 43: 1068-1073
7. **Tan FK**, Reveille JD, Arnett FC, Stivers DN and Tsao BP: Poly (ADP)-ribose polymerase and susceptibility to systemic lupus erythematosus. *Arthritis Rheum* 2000, 43: 1421
8. **Tan FK**, Arnett, FC, Reveille JD, Ahn, C, Antohi, S, Kasturi, K., Sasaki, T, Nishioka, K, Bona CA: Autoantibodies to fibrillin-1 in systemic sclerosis: ethnic differences in antigen recognition and lack of correlation with specific clinical features or HLA alleles. *Arthritis Rheum* 2000, 43: 2464-2471
9. Tew MB, Ahn C, Friedman AW, Reveille JD, **Tan FK**, Alarcon GS, Bastian HM, Fessler BJ, McGwin G, Lisse J: Systemic lupus erythematosus in three ethnic groups: VIII. Glutathione S-transferase null alleles lack association with disease manifestations. *Arthritis Rheum* 2001, 44: 981-983
10. **Tan FK**, Wang N, Kuwana M, Chakraborty R, Bona C, Milewicz D, Arnett FC: Association of fibrillin-1 single nucleotide polymorphisms (SNP) haplotypes with systemic sclerosis in Native American and Japanese populations. *Arthritis Rheum* 2001, 44: 893-901
11. Guo D, **Tan FK**, Cantu A, Plon SE, Milewicz: FBN1 exon 2 splicing error in a patient with Marfan syndrome. *Am J Med Genet* 2001, 101: 130-134
12. Wallis DD, **Tan FK**, Kielty CM, Arnett FC, Milewicz DM: Abnormalities in fibrillin-1 containing microfibrils in dermal fibroblasts cultures from patients with systemic sclerosis (scleroderma). *Arthritis Rheum* 2001, 44:1855-1864
13. Tew MB, Reveille JD, Arnett FC, Friedman AW, McNearney T, Fischbach M, Ahn C, **Tan FK**: Glutathione-S-transferase genotypes in systemic sclerosis. *Genes Immunity* 2001, 2:236-238
14. Johnson RW, Reveille, JD, McNearney T., Fischbach M., Friedman AF, Ahn C, Arnett FC, **Tan FK**: Lack of association of a functionally relevant single nucleotide polymorphism in the metalloproteinase 1 promoter with systemic sclerosis, *Genes Immunity* 2001, 2:273-275
15. Tew MB, Johnson RW, Reveille JD, **Tan FK**: A molecular analysis of low serum deoxyribonuclease activity in lupus patients I. *Arthritis Rheum* 2001, 44:2446-2447
16. Zhou XD, **Tan FK**, Xiong M, Milewicz DM, Feghali C, Fritzler M, Arnett FC: Systemic Sclerosis (Scleroderma) - specific autoantigen genes are selectively over-expressed in scleroderma fibroblasts, *J Immunol* 2001, 167:7126-7133
17. Tew MB, Johnson RW, Reveille JD, **Tan FK**: A molecular analysis of low serum deoxyribonuclease activity in lupus patients II. *Arthritis Rheum* 2002, 46:1976-1977
18. Tew MB, Arnett FC, Reveille JD, **Tan FK**: Mutations of the bone morphogenetic protein receptor 2 (*BMPR2*) are not found in patients with pulmonary hypertension and underlying connective tissue disease. *Arthritis Rheum* 2002, 46:2829-2830
19. Zhou XD, **Tan FK**, Reveille JD, Wallis D, Milewicz DM, Ahn C, Wang A, Arnett FC: Association of novel polymorphisms with the expression of SPARC in normal fibroblasts and with susceptibility to scleroderma.. *Arthritis Rheum* 2002, 46: 2990-2999

20. Kodera T, **Tan FK**, Sasaki T, Arnett FC, Bona CA. Association of 5'-untranslated region of the Fibrillin-1 gene with Japanese scleroderma. *Gene* 2002; 297:61-67.
21. Zhou X, **Tan FK**, Wang, Chakraborty R, Arnett FC: Genome-wide association study for systemic sclerosis susceptibility regions in a Native American population with a high disease prevalence. *Arthritis Rheum* 2003, 48: 2585-2592
22. **Tan FK**, Tercero G, Wang N, Chakraborty R, Arnett FC. Association of fibrillin-1 single nucleotide polymorphisms (SNP) haplotypes with systemic sclerosis in Native American and Japanese populations: Examination of biologically relevant candidates around FBN1, *Arthritis Rheum*, 2003 48:3295-3296
23. Wang N, Zhou X, **Tan FK**, Foster MW, Arnett FC, Chakraborty R: Genetic signatures of pre-expansion bottleneck in the Choctaw population of Oklahoma. *Am J Phys Anthropol* 2004, 124:373-379
24. Wallis DD, **Tan FK**, Keasler R, Milewicz DM. Fibrillin-1 abnormalities in dermal fibroblast cultures from first degree relatives of patients with systemic sclerosis (Scleroderma). *Arthritis Rheum* 2004, 50:329-332
25. Zhou XD, Dimachkie MM, Xiong M, **Tan FK**, Arnett, FC. cDNA microarrays reveal distinct gene expression clusters in idiopathic inflammatory myopathies. *Med Sci Monit* 2004, 10:191-197
26. Caserta TM, Knisley AM, **Tan FK**, Arnett FC, Brown TL. Genotypic analysis of the TGF beta-509 allele in patients with systemic lupus erythematosus and Sjögren's syndrome. *Annales de Genetique* 2004 47:359-363
27. Zhou X, **Tan FK**, Guo X, Wallis D, Milewicz DM, Xue S, Arnett FC. Short interfering RNA inhibition of SPARC attenuates the profibrotic effect of transforming growth factor β 1 in cultured normal human fibroblasts. *Arthritis Rheum* 2005 52:257-261
28. **Tan FK**, Hildebrand BA, Lester M, Stivers DN, Pounds S, Zhou X, Wallis DD, Milewicz DM, Reveille JD, Mayes MD, Jin L, Arnett FC. Classification analysis of the transcriptome of non-lesional cultured dermal fibroblasts from scleroderma patients with early disease. *Arthritis Rheum*, 2005 52:865-876
29. Ho KT, Ahn CW, Alarcon GS, Baethge BA, **Tan FK**, Roseman J, Bastian HM, Fessler BJ, McGwin G Jr, Vila LM, Calvo-Alén, Reveille JD for the LUMINA Study Group. Systemic lupus erythematosus in a multiethnic cohort (LUMINA): XXVIII. Factors predictive of thrombotic events. *Rheumatology* 2005, Advance Access published online on July 19, 2005
30. Assassi S, Reveille JD, Arnett FC, Mayes MD, McNearney T, Fischbach M, **Tan FK**. Polymorphisms of the endothelial nitric oxide synthase and angiotensin-converting enzyme show no association with systemic sclerosis. *Am J Med*, 2005, 118: 907-911 37.
31. Zhou X, **Tan FK**, Wallis D, Bona C, Milewicz DM, Arnett FC: Autoantibodies to fibrillin-1 activate normal human fibroblasts in culture through the TGF beta pathway and recapitulate the "scleroderma phenotype" *J Immunol*, 2005, 175:4555-4560
32. Zhou X, **Tan FK**, Xiong M, Arnett FC, Feghali-Bostwick CA. Clinically discordant scleroderma monozygotic twins show concordance for fibroblast gene expression profiles. *Arthritis Rheum*, 2005, 52:3305-3314
33. Alarcon GS, Beasley TM, Roseman JM, McGwin G Jr, Fessler BJ, Bastian HM, Vila LM, **Tan F**, Reveille JD; LUMINA Study Group. Ethnic disparities in health and disease: the need to account for ancestral admixture when estimating the genetic contribution to both (LUMINA XXVI). *Lupus*, 2005, 14:867-8.
34. **Tan FK**, Zhou X, Mayes MD, Gourh P, Guo X, Marcum C, Jin J, Arnett FC. Signatures of differentially regulated interferon gene expression and vasculotropism in the peripheral blood cells of systemic sclerosis patients. *Rheumatology (Oxford)* 2006, 45: 694-702
35. Alarcon GS, Calvo-Alén J, McGwin G, Uribe AG, Toloza SMA, Roseman J, Fernandez M, Fessler BJ, Luis Vila, Ahn C, **Tan FK**, Reveille JD. Systemic lupus erythematosus in a multiethnic cohort: LUMINA XXXV. Predictive factors of high disease activity over time. *Ann Rheum Dis* Published Online First: 31 January 2006.
36. Alarcon GS, Bastian HM, Beasley TM, Roseman JM, **Tan FK**, Fessler BJ, Vila LM, McGwin G Jr; LUMINA Study Group. Systemic lupus erythematosus in a multi-ethnic cohort (LUMINA): contributions of admixture and socioeconomic status to renal involvement. *Lupus*, 2006, 15:26-31
37. Bertoli AM, Fernandez M, McGwin G Jr, Alarcon GS, **Tan FK**, Reveille JD, Vila LM. Systemic lupus erythematosus in a multiethnic US cohort: XXXVI. Influence of mannose-binding lectin exon 1 polymorphisms in disease manifestations, course, and outcome. *Arthritis Rheum*. 2006, 54:1703-1704

38. Calvo-Alen J, Alarcon GS, Tew MB, **Tan FK**, McGwin G Jr, Fessler BJ, Vila LM, Reveille JD. Systemic lupus erythematosus in a multiethnic US cohort: XXXIV. Deficient mannose-binding lectin exon 1 polymorphisms are associated with cerebrovascular but not with other arterial thrombotic events. *Arthritis Rheum*. 2006, 25;54:1940-1945
39. Gardner H, Shearstone J, Bandaru R, Crowell T, Lynes M, Trojanowska M, Pannu J, Kubo M, Smith E, Jablonska S, Blaszczyk, **Tan FK**, Mayes MD. Gene profiling of scleroderma skin reveals robust signatures of disease which are imperfectly reflected in the transcript profiles of explanted fibroblasts. *Arthritis Rheum* 2006, 43:1961-1973
40. Tashkin DP, Elashoff R, Clements PJ, Goldin J, Roth MD, Furst DE, Arriola E, Silver R, Strange C, Bolster M, Seibold JR, Riley DJ, Hsu VM, Varga J, Schraufnagel DE, Theodore A, Simms R, Wise R, Wigley F, White B, Steen V, Read C, Mayes M, Parsley E, Mubarak K, Connolly MK, Golden J, Olman M, Fessler B, Rothfield N, Metersky M; Scleroderma Lung Study Research Group. Cyclophosphamide versus placebo in scleroderma lung disease. *N Engl J Med*, 2006 354:2655-2666
41. Ahmed SS, **Tan FK**, Arnett FC, Jin L, Geng YJ. Induction of apoptosis and fibrillin-1 expression in human dermal endothelial cells by scleroderma sera containing anti-endothelial cell antibodies. *Arthritis Rheum*, 2006 54:2250-2262
42. Zhou X, **Tan FK**, Guo X, Arnett FC. Attenuation of collagen production with small interfering RNA of SPARC in cultured fibroblasts from the skin of patients with scleroderma. *Arthritis Rheum*. 2006 54:2626-2631
43. Alarcon GS, Calvo-Alen J, McGwin G Jr, Uribe AG, Toloza SM, Roseman JM, Fernandez M, Fessler BJ, Vila LM, Ahn C, **Tan FK**, Reveille JD. Systemic lupus erythematosus in a multiethnic cohort: LUMINA XXXV. Predictive factors of high disease activity over time. *Ann Rheum Dis*. 2006, 5:1168-74.
44. Arnett, FC. Is scleroderma an autoantibody mediated disease? *Curr Opin Rheumatol*, 2006 18: 579-581
45. Zhou XD, Xiong M, Tan FK, Guo XJ, Arnett FC. *SPARC*, an upstream regulator of connective tissue growth factor to transforming growth factor beta stimulation. *Arthritis Rheum*, 2006 54:3885-388
46. Gourh P, **Tan FK**, Assassi S, Ahn CW, McNearney TA, Fischbach M, Arnett FC, Mayes MD. Association of the PTPN22 R620W polymorphism with topoisomerase I and centromere autoantibody positive systemic sclerosis. *Arthritis Rheum* 2006, 54:3945-2953
47. Mcnearny TA, Reveille JD, Fischbach M, Friedman AF, Lisse JR, Goel N, **Tan FK**, Zhou X, Ahn C, Feghali-Bostwick CA, Fritzler M, Arnett FC, Mayes MD. Pulmonary involvement in systemic sclerosis: Associations with genetic, serologic, sociodemographic, and behavioral factors. *Arthritis Care Res*, 2007 57: 318-326

B. Invited Reviews

1. **Tan FK**, Arnett, FC: Genetics factors in the etiology of systemic sclerosis and Raynaud's phenomenon. *Curr Opin Rheum*, 12:511-519, 2000
2. **Tan, FK**. Systemic sclerosis: the susceptible host (genetics and environment). *Rheum Dis Clin North America* 2003, 29:211-237
3. Ahmed S, **Tan FK**. Identification of Novel Targets in Scleroderma - Update on Population Studies, cDNA arrays, SNP Analysis and Mutations. *Current Opin Rheum* 2003, 15:766-771
4. Assassi S, **Tan FK**. Genetics of scleroderma. Update on SNP analysis and microarrays. *Current Opin Rheum* 2005, 17:761-767
5. **Tan FK**. Autoantibodies to PDGF receptor in systemic sclerosis. *N Engl J Med* 2006, 354: 2709-2711