

**CURRICULUM VITAE  
WILLIAM D. RATNOFF, MD**

**Personal Data**

Professional Address:

Division of Rheumatology and Clinical Immunogenetics  
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**Education**

1978 The Johns Hopkins University School of Medicine  
M.D.

1974 Harvard College  
A.B., magna cum laude in History and Science

**Postdoctoral Training**

1978 - 1979 **Assistant Resident [Intern] in Medicine**  
1979 - 1981 **Resident in Medicine**  
University Hospitals of Cleveland  
Cleveland, OH 44106

1981 - 1985 **Research Fellow, Department of Rheumatology and Immunology**  
Brigham and Women's Hospital  
Boston, Massachusetts

1981 - 1984 **Research Fellow in Medicine**  
Harvard Medical School

1985 - 1987 **Immunology Postdoctoral Scholar**  
University of California School of Medicine  
San Francisco, California

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1987 - 1990

**Research Associate in Pathology**  
Case Western Reserve University School of Medicine  
Cleveland, Ohio

**Faculty Appointments**

2008-Present

**Associate Professor of Medicine**  
University of Texas HSC Medical School at Houston  
**Chief of Rheumatology**  
LBJ General Hospital – Harris County  
Houston, TX

1998 – 2008

**Associate Professor of Medicine**  
**Chief, Division of Rheumatology**  
Texas Tech University Health Sciences Center School of Medicine  
Lubbock, Texas

1991 - 1997

**Assistant Professor of Medicine**  
Emory University School of Medicine  
Atlanta, Georgia

1990 - 1991

**Senior Instructor in Medicine**  
Case Western Reserve University School of Medicine

1984 - 1985

**Instructor in Medicine**  
Harvard Medical School

**Licensure**

2001- present

Texas Physician Permit (License) #L3086

1998-2001

Texas (Faculty Temporary) # 33787

1988- present

Ohio Medical License #35-05-6858

1986-2008(Not renewed)California Physician's and Surgeon's License #G057369

1991-2003 (Lapsed)

Georgia Medical License #034930

1981-2003 (Lapsed)

Massachusetts Physician's License #48645

**Certification**

November 11, 1986

American Board of Internal Medicine, Rheumatology

September 16, 1981

American Board of Internal Medicine

1979

Diplomate of the National Board of Medical Examiners

2001-2004; 2005-2010

Diplomate, International Society for Clinical Densitometry

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**Professional Societies**

2008	Harris County Medical Society
2008	Houston Academy of Medicine
2006	West Texas Rheumatology Association
2003	American Medical Association
2003	Texas Medical Association
2002-2008	Lubbock Crosby Garza County Medical Society
2000	Sigma Xi, the Scientific Research Society
2000	The Southern Society for Clinical Investigation
1992-1997	Georgia Society of Rheumatology
1991	American Association of Immunologists
1991	<b>Fellow</b> , American College of Rheumatology
1986	<b>Fellow</b> , American College of Physicians
1984	The American Federation for Clinical Research (now American Federation for Medical Research)
1982	The Massachusetts Medical Society
1982	The American College of Physicians

**Editorial Board**

1977 - 1978      **Assistant Editor**, *The Johns Hopkins Medical Journal*

**Awards and Honors**

1984 - 1987	Arthritis Foundation Postdoctoral Fellowship
1977	The Henry Strong Denison Scholarship for Medical Research
	The Johns Hopkins University School of Medicine
1974	The Leonard J. Siff Prize
	Harvard University (Department of the History of Science)
1970 - 1974	Honorary Harvard National Scholarship

**Grants (Investigator-initiated)**

5/1/99-4/30/2000	Texas Tech University Health Sciences Center School of Medicine Clinical Research Seed Grant Program - MFY 1999 "Soluble B7-1 and Costimulatory Proteins in Rheumatoid Arthritis" William D. Ratnoff, MD - Principal Investigator
1993 - 1997	National Institutes of Health F.I.R.S.T. Award R29 #AR41047 "The Role of CD59 in Rheumatic Diseases" William D. Ratnoff, MD - Principal Investigator

**Grant (Not funded)**

2003	Texas Tech University Health Sciences Center Institute for Healthy Aging. A Pilot Study: Comparison of Tai Chi and Physical Therapy for Osteoarthritis of the Knee. William D. Ratnoff, MD – Principal Investigator
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**Public Service**

2003-2005 State of Texas Department of Health Statewide Arthritis Task Force  
2006-2009 State of Texas Arthritis Advisory Committee

**Committee Service**

1998 -2007 Postgraduate Medical Education Committee, Department of Internal Medicine, Texas Tech University Health Sciences Center School of Medicine  
1999-2002 Chairman, Finance Committee, Department of Internal Medicine, Texas Tech University Health Sciences Center School of Medicine  
2000-2001 Faculty representative, Policy Committee Medical Practice Income Plan, Texas Tech University Health Sciences Center School of Medicine  
2001- 2003 Faculty Appointments Committee, Texas Tech University Health Sciences Center School of Medicine  
2001- 2002; 2008 Admissions Committee, Texas Tech University Health Sciences Center School of Medicine  
2001 - 2007 Lubbock Library Committee, Chair (2002-2003), Texas Tech University Health Sciences Center  
2002 - 2003 Managed Care Contracting Advisory Committee, Texas Tech University Health Sciences Center  
2004-2006 Society of Texas Academic Rheumatologists organizing committee  
2004-2007 Faculty Research Committee, Co-chair (2005-2006), Texas Tech University Health Sciences Center School of Medicine  
2005-2006 Organizing committee for the first and second annual Lubbock, TX, Arthritis Walk (Arthritis Foundation, North Texas Chapter)  
2006-2007 Lubbock Library Committee, Chair, Texas Tech University Health Sciences Center School of Medicine

**Teaching**

**Teaching, precepting and curricular development**

1998-2007 Internal Medicine Grand Rounds presentations (annual)  
1998-2008 Rheumatology Elective for resident physicians  
1998-2008 Third-year medical student core clerkship rheumatology lectures- problem-based learning method (active learning)  
1998-2008 Second-year medical student courses: (Introduction to Clinical Medicine) – 5 lectures)  
1998-2008 Rheumatology Medical Student preceptor  
1998-2008 Rheumatology Subspecialty Lectures – 5 hours  
1998-2006 University Medical Center Internal Medicine Faculty Attending Physician  
1998-2002 First-year medical student courses: Physicians in Society, Beginning Physicianing Foundations of Medical Practice courses, others, – faculty mentor

- 1998-2007 Teaching rheumatology to resident physicians in specialties other than Internal Medicine (Family Medicine, dermatology, various surgical subspecialties, pediatrics, obstetrics-gynecology), various
- 2001 Organized, invited and coordinated outside speakers, and chaired a daylong continuing medical education rheumatology conference at Texas Tech University Health Sciences Center, Lubbock, directed at primary physicians from Texas and New Mexico. Obtained support from the Lupus Foundation, West Texas Chapter.
- 2001 Inflammatory myopathies, Internal Medicine Grand Rounds presentation, Texas Tech University Health Sciences Center at El Paso, TX
- 2001 Inflammatory myopathies, Internal Medicine Grand Rounds, William Beaumont Army Medical Center, El Paso, TX
- 2004-2005 Team Learning Task Force, Texas Tech University Health Sciences Center, School of Medicine
- 2004-2005 Integration & Analysis Course- Devised and presented an active-learning session to the second-year medical student class, based on Team Learning pedagogy, in collaboration with a basic-science faculty member
- 2005-2006 First-year medical student course: Chronic illness –rheumatoid arthritis. Including a panel discussion with patients and their spouses. 4 hours. Presented in February and November, 2005.
- 2006-2007 Second-year medical student course: ECEII- Humanities small group faculty leader (9 sessions/ 12 students/group)
- 2007-2008 First-year medical student course: ECEI- Humanities small group faculty leader (6 sessions, 12 students/group)
- 2006-2007 Re-designed expanded preclinical musculoskeletal curriculum

**Continuing education and personal development**

- 1998-2008 Internal Medicine Grand Rounds (weekly)
- 1998-2008 Morbidity and Mortality conferences (monthly)
- 1998-2007 Faculty Development conferences- various
- 1998-2008 American College of Rheumatology Annual Scientific Meetings
- 1998-2008 Faculty training courses for clinical research -various
- 1998-2007 Biosafety training courses, various
- 2004, 2007 CITI training/certification (Human Research Subjects Training)
- 2001, 2005 International Society for Clinical Densitometry certification courses
- 2005 Consultation regarding clinic operations with Robert Wortmann, MD (University of Oklahoma College of Medicine, Tulsa)
- 2006 Faculty training courses for conduct of human research
- 2006-2008 West Texas Rheumatology Association conferences - quarterly

## Clinical

### Clinical and patient care activities

- 1998-2008 Sole fulltime faculty rheumatologist at Texas Tech University Health Sciences Center, Lubbock
- Sole responsibility for all rheumatologic patient care– Inpatient, Ambulatory, Telemedicine
  - Cachment area from Eastern New Mexico to Dallas, from Oklahoma to El Paso.
  - Benchmark analysis of my academic rheumatology practice against national private practice standards (American College of Rheumatology)
- 1998-2008 University Medical Center Internal Medicine Faculty Attending Physician
- 1998-2008 University Medical Center Rheumatology Inpatient Consultation Staff Physician

## Medical Staff Memberships

- 1991-1995 Emory University Hospital and Affiliated Hospitals, Atlanta, GA
- 1991-1997 Grady Memorial Hospital, Atlanta, GA
- 1998-present University Medical Center, Lubbock, TX

## Presentations

### National

- Ratnoff, W.D., Matthay, M.A., Wong, M.Y.S., Vu, K., Wiener-Kronish, J., and Goetzl, E.J. C-6 peptide leukotriene converting activities of pulmonary edema fluid in adult respiratory distress syndrome. Clin. Res. 34:582A. [Presented in part at the Clinical Research Meeting, American Federation for Medical Research, Washington, DC, May, 1986]
- Ratnoff, W.D., Knez, J.J., Prince, G.M., and Medof, M.E. Structural properties of the glycoplasmanylinositol anchor structure of the complement membrane attack complex inhibitor CD59. Blood 76: (Suppl. 1):389A, 1990. [Presented in part at the annual meeting of the American Society of Hematology, Boston, MA, November, 1990]
- Ratnoff, W.D., McCord, M.C., Meri, S., Okada, N., Lachmann, P.J. Soluble CD59 is present in human plasma. Molecular Immunol 30 (Suppl. 1):46, 1993. [Presented in part at the XVth International Complement Workshop, Kyoto, Japan, September, 1993]
- Ratnoff, W.D., McCord, M.C., Lawley, T.J., Swerlick, R.A. Human microvascular endothelial cell CD59 partially resists cleavage by phosphatidylinositol-specific phospholipase C. FASEB J 9 #4):A1048, (abstract 6075) 1995. [Presented in part at the Experimental Biology 95 meeting, Atlanta, GA, April 9-13, 1995]

Ratnoff, W.D., McCord, M.C., Someren, A., Seiler, J.G. III. Synovial endothelial expression of the terminal complement inhibitory protein CD59 in rheumatoid arthritis and osteoarthritis. *J. Investigative Med.* 43 (Suppl. 2):361A, 1995 [Clinical Research Meeting, [American Federation for Clinical Research], San Diego, CA May 5-8, 1995)

**Regional**

Ratnoff WD, Padilla-Vazquez AA, Smith JL, Kimbrough III RC. Occurrence of cutaneous vasculitis after treatment of pneumonitis with azathioprine and methotrexate in a young woman with mixed connective tissue disease and rheumatoid arthritis. *Journal of Investigative Medicine* 54 (Supplement 1): S301,2006. [Southern Regional Meeting, American Federation for Medical Research, Atlanta, GA, February, 2006]

Ratnoff WD, Freedman KA. Atypical Wegener's granulomatosis presenting as lacrimal gland enlargement and ophthalmic venous outflow obstruction causing secondary glaucoma in a man with a prior parotidectomy. *Journal of Investigative Medicine.* 55 (Supplement 1): S253, 2007. [Southern Regional Meeting, American Federation for Medical Research, New Orleans, LA, February, 2007]

Ratnoff WD, Stetson CL. Fatal necrotizing fasciitis with methicillin-resistant staphylococcus aureus (MRSA) complicating therapy of rheumatoid arthritis with infliximab. *J Investigative Medicine* 56 (Issue 1): 360-361, 2008 [Southern Regional Meeting, American Federation for Medical Research, New Orleans, LA February, 2008]

**Local**

Fibromyalgia. Lubbock, Crosby, Garza County Medical Society, Lubbock, TX, 2007

2001 Fibromyalgia lecture to community internists and family physicians, El Paso, TX

**Bibliography**

**Original Articles**

1. Bennett, B., and Ratnoff, W.D. Immunologic relationship of anti-hemophilic factor of different species detected by specific human and rabbit antibodies. *Proc. Soc. Exp. Biol. Med.* 143:701-706, 1973.
2. Naff, G.B., Hedrick, S.W., Ratnoff, W.D., Novak, M.A., Smith, M.C., Steiner, C., and Todd, E.W. The rabbit properdin system: I. Identification of a new factor and purification of rabbit properdin. *J. Immunol.* 124:2625-2631, 1980.
3. Ratnoff, W.D., and Gress, R.E. The familial occurrence of polycythemia vera: report of a father and son, with consideration of the possible etiologic role of exposure to organic solvents, including tetrachloroethylene. *Blood* 56:233-236, 1980.

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4. Ratnoff, W.D., Pepple, J.M., and Winklestein, J.A. Activation of the alternative complement pathway by Histoplasma capsulatum. *Infect. Immun.* 30: 147-149, 1980.
5. Wilson, J.G., Ratnoff, W.D., Schur, P.H., and Fearon, D.T. Decreased expression of the C3b/C4b receptor (CR1) and the C3d receptor (CR2) on B lymphocytes and of CR1 on neutrophils of patients with systemic lupus erythematosus. *Arthritis Rheum.* 29:739-747, 1986.
6. Walker, K.B., Serwonska, M.H., Valone, F.H., Harkonen, W.S., Frick, O.L., Scriven, K.H., Ratnoff, W.D., Browning, J.G., Payan, D.G., and Goetzl, E.J. Distinctive patterns of release of neuroendocrine peptides after nasal challenge of allergic subjects with ryegrass antigen. *J. Clin. Immunol.* 8:108-113, 1988.
7. Cheung, N-K. V., Walter, E.I., Smith-Mensah, W.H., Ratnoff, W.D., Tykocinski, M.L., and Medof, M.E. Decay-accelerating factor protects human tumor cells from complement-mediated cytotoxicity in vitro. *J. Clin. Invest.* 81:1122-1128, 1988.
8. Ratnoff, W.D., Matthay, M.A., Wong, M.Y.S., Ito, Y., Vu, K.H., Wiener-Kronish, J., and Goetzl, E.J. Sulfidopeptide-leukotriene peptidases in pulmonary edema fluid from patients with the adult respiratory distress syndrome. *J. Clin. Immunol.* 8:250-258, 1988.
9. Atkins, P.C., Valenzano, M., Goetzl, E.J., Ratnoff, W.D., Graziano, F.M., and Zweiman, B. Identification of leukotriene B<sub>4</sub> as the neutrophil chemotactic factor released by antigen challenge from passively sensitized guinea pig lungs. *J. Allergy Clin. Immunol.* 83: 136-143, 1989.
10. Walter, E.I., Roberts, W.L., Rosenberry, T.L., Ratnoff, W.D., and Medof, M.E. Structural basis for variations in the sensitivity of human decay accelerating factor to phosphatidylinositol-specific phospholipase C cleavage. *J. Immunol.* 144:1030-1036, 1990.
11. Walter, E.I., Ratnoff, W.D., Long, K.E., Kazura, J.W., and Medof, M.E. Effect of glycoinositolphospholipid anchor lipid groups on functional properties of decay-accelerating factor protein in cells. *J. Biol. Chem.* 267:1245-1252, 1992.
12. Ratnoff, W.D., Knez, J.J., Prince, G.M., Okada, H., Lachmann, P.J., and Medof, M.E. Structural properties of the glycoplasmanylinositol anchor phospholipid of the complement membrane attack complex inhibitor CD59. *Clin. Exp. Immunol.* 87:415-421, 1992.
13. Ratnoff, W.D., Brockman, W.W., Hasty, L.A. Immunohistochemical localization of C9 neoantigen and the terminal complement inhibitory protein CD59 in human endometrium. *Am. J. Reprod. Immunol.* 34:72-79, 1995.
14. McHugh, R.S., Ratnoff, W.D., Gilmartin, R., Sell, K.W., Selvaraj, P. Detection of a soluble form of B7-1 (CD80) in synovial fluid from patients with arthritis using monoclonal antibodies against distinct epitopes of human B7-1. *Clin. Immunol. and Immunopathology.* 87:50-59, 1998.
15. Diri E, Tello W, Ratnoff WD, Nugent K. Infliximab-induced SLE-like syndrome involving the lung and pleura (Letter to the Editor). *Lupus* 16(9):764-6, 2007

**Reviews**

1. Ratnoff, W.D. A war with the molecules: Louis Pillemer and the history of properdin. *Perspect. Biol. Med.* 23:638-657, 1980.
2. Ratnoff, W.D., Fearon, D.T., and Austen, K.F. The role of antibody in the activation of the alternative complement pathway. *Springer Semin. Immunopathol.* 6:361-367, 1983.
3. Goetzl, E.J., Sherman, J.W., Ratnoff, W.D., Harvey, J. P., Eriksson, E., Seaman, W.E., Baud, L. and Koo, C.H. Receptor-specific mechanisms for the responses of human leukocytes to leukotrienes. In *Biology of the Leukotrienes, Annals New York Academy of Sciences* 524:345-355, 1988.
4. Ratnoff, W.D. Inherited deficiencies of complement in rheumatic diseases. *Rheum. Dis. Clin. N. Amer.* 22:75-94, 1996 (Invited Review)

**Abstracts**

1. Naff, G.B., Todd, E.W., Novak, M.A., and Ratnoff, W.D. The rabbit properdin system: Identification of two new early acting components and purification of rabbit properdin. *Fed. Proc.* 34:955, 1975.
2. Wilson, J.G., Ratnoff, W.D., Schur, P.H., and Fearon, D.T. C3b (CR1) and C3d (CR2) receptor expression of B lymphocytes in systemic lupus erythematosus (SLE) and rheumatoid arthritis (RA). *Arthritis Rheum.* 28 (Suppl.): S71, 1985.
3. Ratnoff, W.D., Matthay, M.A., Wong, M.Y.S., Vu, K., Wiener-Kronish, J., and Goetzl, E.J. C-6 peptide leukotriene converting activities of pulmonary edema fluid in adult respiratory distress syndrome. *Clin. Res.* 34:582A,
4. Atkins, P., Valenzano, M., Zweiman, B., Goetzl, E., Ratnoff, W., and Graziano, F. Neutrophil chemotactic activity from antigen challenge of passively sensitized guinea pig lungs. *Fed. Proc.* 46:931, 1987.
5. Walker, K.B., Serwonska, M.H., Payan, D.G., Valone, F.H., Ratnoff, W.D., Goetzl, L.M., and Goetzl, E.J. Primary afferent enuromediation of the acute response to antigen challenge in allergic rhinitis. *Clin. Res.* 35: 641A, 1987.
6. Walter, E.I., Roberts, W.L., Rosenberry, T.L., Ratnoff, W.D., Medof, M.E. Structural basis for variations in the sensitivity of human decay accelerating factor to phosphatidylinositol-specific hospholipase C cleavage. *Comp. Infl.* 6:411, 1989.
7. Ratnoff, W.D., Knez, J.J., Prince, G.M., and Medof, M.E. Structural properties of the glycoplasmanylinositol anchor structure of the complement membrane attack complex inhibitor CD59. *Blood* 76: (Suppl. 1):389A, 1990.

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8. Ratnoff, W.D., McCord, M.C., Meri, S., Okada, N., Lachmann, P.J. Soluble CD59 is present in human plasma. *Molecular Immunol* 30 (Suppl. 1):46, 1993.
9. Ratnoff, W.D., McCord, M.C., Lawley, T.J., Swerlick, R.A. Human microvascular endothelial cell CD59 partially resists cleavage by phosphatidylinositol-specific phospholipase C. *FASEB J* 9:A1048, 1995.
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11. Ratnoff WD, Padilla-Vazquez AA, Smith JL, Kimbrough III RC. Occurrence of cutaneous vasculitis after treatment of pneumonitis with azathioprine and methotrexate in a young woman with mixed connective tissue disease and rheumatoid arthritis. *Journal of Investigative Medicine* 54 (Supplement 1): S301, January 2006.
12. Ratnoff WD, Freedman KA. Atypical Wegener's granulomatosis presenting as lacrimal gland enlargement and ophthalmic venous outflow obstruction causing secondary glaucoma in a man with a prior parotidectomy. *Journal of Investigative Medicine.* 55 (Supplement 1): S253, January 2007.
13. Ratnoff WD, Stetson CL. Fatal necrotizing fasciitis with methicillin-resistant staphylococcus aureus (MRSA) complicating therapy of rheumatoid arthritis with infliximab. *J Investigative Medicine* 56 (Issue 1): 360-361, 2008