CURRICULUM VITAE

William L. Clapp, M.D.

Current Position:	Clinical Associate Professor Department of Pathology, Immunology and Laboratory Medicine University of Florida College of Medicine Gainesville, Florida
Office Addresses:	Department of Pathology, Immunology and Laboratory Medicine University of Florida College of Medicine P.O. Box 100275, Health Science Center Gainesville, Florida 32610-0275
	Department of Pathology and Laboratory Medicine (113 E) Malcolm Randall VA Medical Center North Florida- South Georgia Veterans Health System 1601 SW Archer Road Gainesville, Florida 32608-1197
Date of Birth:	November 5, 1950
Place of Birth:	Roswell, New Mexico

Education:

1968-1972	B.S. (History)	University of Tennessee, Knoxville, Tennessee
1973-1976	M.D.	University of Tennessee School of Medicine, Memphis, Tennessee

Postgraduate Training:

1976-1980	Pathology Residency (AP/CP), National Naval Medical Center, Bethesda, Maryland
1980-1981	Hematopathology Fellowship, National Naval Medical Center, Bethesda, Maryland
1984-1988	Renal Research Fellow, Division of Nephrology, University of Florida College of Medicine, Gainesville, Florida
Military Service:	Lieutenant Commander, Medical Corps, U.S. Navy; 1976-1984 (Active Duty)

Positions:

2002-Present	Chief, Anatomic Pathology, Department of Pathology and Laboratory Medicine, Malcolm Randall VA Medical Center, Gainesville, Florida
2001-Present	Clinical Associate Professor, Department of Pathology, Immunology and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida
1993-Present	Pathologist, Malcolm Randall VA Medical Center, Gainesville, Florida
1995-Present	Chief, Section of Hematology, Department of Pathology and Laboratory Medicine, Malcolm Randall VA Medical Center, Gainesville, Florida
1993-2001	Clinical Assistant Professor, Department of Pathology, Immunology and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida
1991-1993	Instructor, Division of Nephrology, University of Florida College of Medicine, Gainesville, Florida
1988-1991	Assistant Professor, Department of Pathology, Schools of Medicine and Dentistry, University of Alabama at Birmingham, Birmingham, Alabama
1988-1991	Staff Pathologist, Veteran Affairs Medical Center, Birmingham, Alabama
1981-1984	Chief, Section of Hematology and Staff Pathologist, Naval Regional Medical Center, Portsmouth, Virginia

Board Certification:

1981 (November)	Diplomate, American Board of Pathology (Anatomic and Clinical Pathology)
1983 (June)	Diplomate, American Board of Pathology (Hematopathology)

Licensure:

1988 (August)	Alabama Board of Medicine, Medical License No. 14307
1997 (July)	Florida Board of Medicine, Medical License No. ME-0073657

Honors and Awards:

2003-2004	Exemplary Teacher Award, University of Florida College of Medicine
2001-2002	Basic Science Teacher of the Year, University of Florida College of Medicine
2001-2009	Teaching Awards (various, Pathology Banquet: "Fungus Ball" for 2nd year medical students)
1984-1987	Individual National Research Service Award, National Institutes of Health
1976	Alpha Omega Alpha Medical Honor Society, University of Tennessee College of Medicine
1976	Mosby Award, Department of Pathology, University of Tennessee College of Medicine
1974-1975	Medical Student Fellow (externship), Department of Pathology, University of Tennessee College of Medicine

Membership in Professional Societies:

1976	Alpha Omega Alpha Medical Honor Society
1981	U.S. and Canadian Academy of Pathology
1988	American Society of Nephrology
1988	International Society of Nephrology
1991	American Association for the Advancement of Science
1993	Renal Pathology Society
1993	Alachua County Medical Society

Committee and Administrative Positions:

U.F. College of Medicine:

2002-2008	College of Medicine Medical Selection Committee
1996-2000	Developmental Biology Section Curriculum Committee
1996-2000	Interdisciplinary Graduate Program in Genetics, Member
1996-2000	Interdisciplinary Graduate Program, Biochemistry and Molecular Biology, Member
1998-1999	College of Medicine Intramural Grant Program, Ad Hoc Reviewer

Gainesville VAMC:

2005-Present	VAMC Cancer Committee
1994-Present	VAMC Library Committee

U.F. Department of Pathology:

1994-Present	Renal Pathology Service Committee
1996-Present	Curriculum Committee, General and Systemic Pathology Courses
1998-Present	Clinical Research Committee
2002-Present	Chair, Clinical Research Committee
2007-Present	Executive Committee

VA Department of Pathology:

1993-Present	Pathology Quality Assurance Committee
1995-Present	Head, Section of Hematology, Department of Pathology and Laboratory Medicine
1999-Present	Chair, Pathology Faculty Recruitment Committee

Teaching Responsibilities and Experience:

1993-Present	Clinical teaching of surgical pathology, renal pathology, cytopathology, hematopathology, ultrastructural pathology and autopsy pathology to *pathology residents*
1993-Present	Clinical teaching of renal pathology to *residents*, *fellows* and *faculty members* in Division of Nephrology, Department of Internal Medicine
1995-Present	Director, Renal Pathology Section of Systemic Pathology Course for *medical students* (lectures and laboratory sessions)
1997-Present	Teaching of cancer biology, molecular genetics and cancer syndromes in General Pathology Course for *medical students* (lectures and laboratory sessions)
2007-Present	Teaching of acute inflammation and vascular disorders (ex. vasculitis) in General Pathology Course
1999-2003	Mentor for *medical student* case study and presentation on hepatitis C and membranoproliferative glomerulonephritis
1998-Present	Director, Cancer Section of Pathology Course for *dental students* (lectures on cancer epidemiology, diagnosis, biology and genetics)
2006-Present	Teaching of renal pathology for dental students
1996-Present	Teaching of molecular mechanisms of kidney development (lectures) and assays for protein-protein interactions (small group discussion) in Fundamentals in Biomedical Science Course for *graduate students*
1994	Faculty Sponsor for laboratory research rotations of *graduate students* (JoAnne Tardieu, Joe Chapo and Sally Litherland); Member of Supervisory Committee for JoAnne Tardieu

1993	Faculty Mentor and Sponsor for *undergraduate student* (Anu Gupta) in University of Florida Undergraduate Laboratory Research Program

Reviewer for Grants:

National:

2001	U.S. Department of Defense Study Section, Prostate Cancer, Ad Hoc Reviewer
Gainesville VAMC 2004	VA Merit Award
U.F. College of Medicine 1998, 1999	Research Incentive Awards

Ad Hoc Reviewer for Scholarly Journals:

American Journal of Physiology
Laboratory Investigation
Kidney International
Journal of American Society of Nephrology

Research Funding:

1984-1987	NIH National Research Service Award, (NIH F32 AM- 0714), University of Florida, Division of Nephrology; Title: "Endocytosis in the Proximal Tubule"; Total Award: $90,000
1993-1994	University of Florida, Division of Sponsored Research, New Faculty Research Support Program; Title: "Molecular Characterization and Microlocalization of Hoxc-12 and Hoxd-12 in the Developing Murine Kidney"; Total Award: $20,000
1994-1995	University of Florida, Division of Sponsored Research, Research Development Award; Title: "Identification of Proteins that Interact with the Wilms Tumor Gene (WT1) Product"; Total Award: $19,500
1995-1995	U.S. Veteran Affairs Administration, Research Advisory Group Summary; Title: "Expression of Wilms Tumor Gene (WT1) Isoforms in Nephrogenesis"; Total Award: $21,468
1995-1997	American Heart Association, Florida Affiliate, Grant-In-Aid, Title: "Function of WT1 Isoforms During Nephrogenesis"; Total Award: $ 80,000

1996-2001	Howard Hughes Medical Institute Research Resources Program, Pilot Project Award, Title: "WT1 Interacting Proteins"; Total Award: $4000
1998-2001	American Heart Association, Florida Affiliate, Grant-In-Aid, Title: "WT1-Interacting Proteins"; Total Award: $ 82,500
2000-2001	University of Florida, Department of Pathology, Title: "Proteomic Exploration of WT1-Interacting Protein Complexes"; Total Award: $20,000

Publications:

1. Pitcock JA, Brown B, Brooks B, **Clapp WL**, Brosius WL, Muirhead EE. Renomedullary deficiency in partial nephrectomy-salt hypertension. *Hypertension* 2: 281-290, 1980

2. Schumacker HR, **Clapp WL**, Thomas WJ, Mandavia SG, Pitts LL, Holloway ML, Stass SA. Acute lymphoblastic leukemia:hand mirror variant. *Arch Pathol Lab Med* 104:134-136, 1980

3. **Clapp WL**, Madsen KM, Verlander JW, Tisher CC. The intercalated cells of the rat inner medullary collecting duct. *Kidney Int* 31: 1080-1087, 1987

4. Larsson L, **Clapp WL**, Park CH, Cannon JK, Tisher CC. Localization of acidic compartments in cells of isolated rabbit proximal convoluted tubules. *Amer J Physiol* 253: F95-F103, 1987

5. **Clapp WL**, Park CH, Madsen KM, Tisher CC. Axial heterogeneity in the handling of albumin by the rabbit proximal tubule. *Laboratory Invest* 58: 549-558, 1988

6. Madsen KM, **Clapp WL**, Verlander JW. Structure and function of the inner medullary collecting duct. *Kidney Int* 34: 441-454, 1988

7. **Clapp WL**, Madsen KM, Verlander JW, Tisher CC. Morphologic heterogeneity of the rat inner medullary collecting duct. *Laboratory Invest* 60: 219-230, 1989

8. Butt AG, **Clapp WL**, Frizzell RA. Potassium conductances in tracheal epithelium activated by secretion and cell swelling. *Amer J Physiol* 258: C630- C638, 1990

9. **Clapp WL**, Abrahamson DR. Regulation of kidney organogenesis: Homeobox genes, growth factors and Wilms tumor. *Current Opinion in Nephrology and Hypertension* 2: 419-429, 1993

10. **Clapp WL**, Bowman PP,Shaw GS,Patel P, Kone BC. Segmental localization of mRNAs encoding α and β isoforms of Na-K-ATPase in rat kidney using RT-PCR. *Kidney Int* 46: 627-638, 1994

11. Mohaupt M, Elzie JL, Ahn KY, **Clapp WL**, Wilcox CS, Kone BC. Differential expression of mRNAs encoding two inducible nitric oxide synthases in rat kidney. *Kidney Int* 46: 653-665, 1994

12. Ramos EL, Barri YM, Croker BP, **Clapp WL**, Peterson JC, Wilcox CS. Thromboxane synthase expression in renal transplant patients with rejection. *Transplantation* 59: 490-494, 1995

13. Croker BP, **Clapp WL**, Kone BC, Peterson JC. Macrophages and chronic renal allograft nephropathy. *Kidney Int* 50 (Suppl. 57) S42-S49, 1996

14. Wingo CS, **Clapp WL**. Proteinuria: Potential causes and approach to evaluation. *Am J Med Sci* 320: 188-194, 2000

15. Scornik JC, **Clapp WL**, Patton PR, Van der Werf WJ, Hemming AW, Reed AI, Howard RJ. Prospective flow cytometry cross matching: Outcome of kidney transplants in patients known to be flow cytometry crossmatch positive. *Transplantation* 71: 1098-1102, 2001

16. Iczkowski K, Katz, G, Zander D, **Clapp WL**. Malignant mesothelioma of tunica vaginalis testis: a fatal case with liver metastasis that lacks expression of WT1. *J Urology* 167: 645-646, 2002

17. Ross EA, Batich CD, **Clapp WL**, Sallustio JE, Lee NC. Tissue adhesion to bioactive glass-coated silicone tubing in a rat model of PD catheters. *Kidney International* 63: 702-708, 2003

17. Araya C, **Clapp WL**, Redman RS, Dharnidharka VR. Acute-onset hearing loss with renal failure: differential diagnosis. *Am J Kidney Dis* 47: 553-558, 2006

18. Han KH, Croker BP, **Clapp WL**, Werner D, Kim J, Sahni M, Kim J, Kim HY, Handlogten ME, Weiner ID, Expression of the ammonium transporter, rh C Glycoprotein, in normal and neoplastic human kidney. *J Amer Soc Nephrol* 17: 2670-2779, 2006

20. Cheng S, Clancy CJ, Nguyen KT, **Clapp WL**, Nguyen MH. A Candida albicans petite mutant strain with uncoupled oxidative phosphorylation overexpresses MDR1 and has diminished susceptibility to fluconazole and voriconazole. *Antimicrob Agents Chemother* 51:1855-1858, 2007

21. Kazory A, **Clapp WL**, Ejaz AA, Ross EA. Shortened hemofilter survival time due to lipid infusion in continuous renal replacement therapy. *Nephron Clin Pract* 108: 5-9, 2008

22. Redman R, Shunkwiler SM, Harris NS, Kedar A, **Clapp WL**. Sebastian syndrome with abnormal platelet response to ristocetin. *Lab Hematol* 14: 19-23, 2008

23. Stacy NI, Nabity MB, Hackendahl N, Buote M, Ward J, Ginn P, Vernau W, **Clapp WL**, Harvey JW. B-cell lymphoma with Mott cell differentiation in two young adult dogs. *Vet Clin Pathol 38:113-120, 2009*

24. Harvey JW, Harr KE, Murphy D, Walsh MT, Nolan EC, Bonde RK, Pate MG, Deutsch CJ, Edwards HH, **Clapp WL**. Hematology of healthy Florida manatees (Tricechus manatus). *Vet Clin Pathol* 38:183-193, 2009

25. Ross EA, Williams MJ, Hamazaki T, Terada N, **Clapp WL**, Adin C, Ellison GW, Jorgensen M, Batich CD. Embryonic stem cells proliferate and differentiate when seeded into kidney scaffolds. *J Am Soc Nephrol* 20:2338-2347, 2009

26. Dana A-P, Ahmar CA, **Clapp WL**, Ross EA. A new form of myeloma 'kidney": Shortened hemofilter survival and implications for membrane filtration plasmapheresis. *Clinical Nephrology* 2010 (accepted)

27. Jeung J, **Clapp WL**, Allan RW. Carcinoid tumors of the kidney. *Human Pathology* (2010, submitted)

***Book Chapters*:**

1. **Clapp WL**, Tisher CC. Gross anatomy and development of the kidney. In: *Renal Pathology*, edited by Tisher CC, Brenner BM, Philadelphia: J. B. Lippincott Co, pp 67-89, 1989

2. **Clapp WL**. Adult kidney. In: *Histology for Pathologists*, edited by Sternberg S, New York: Raven Press, pp 776-807, 1992

3. **Clapp WL**, Tisher CC. Anatomie der Niere. In: *Klinische Nephrologie. Handbuch fur Klinik und Praxis*, edited by Franz HE, Risler T, Bavaria: Ecomed, pp 1-22, 1993

4. **Clapp WL**, Abrahamson DR. Development and gross anatomy of the kidney. In: *Renal Pathology*, 2nd edition, edited by Tisher CC, Brenner BM, Philadelphia: J B Lippincott Co, pp 3- 59, 1994

5. Mohaupt MG, Madsen KM, Wilcox CS, **Clapp WL**, Kone BC. Molecular characterization and localization of three nitric oxide synthase isoforms in rat kidney. In: *The Biology of Nitric Oxide*, Part 4, edited by Moncada S, Feelish R, Busse T, Higgs EA, New York, Portland Press, pp 137-141, 1995

6. Abrahamson DR, Vanden Heuval GB, **Clapp WL**. Nephritogenic antigens in the glomerular basement membrane. In: *Immunologic Renal Diseases*, edited by Neilson EG, Couser WG, New York: Raven Press, pp 217-234, 1996

7. **Clapp WL**, Croker BP. Adult Kidney. In: *Histology for Pathologists*, 2nd edition, edited by Sternberg S, New York: Raven Press, pp 799-834, 1997

8. **Clapp WL**, Croker BP. Kidney. In: *Histology for Pathologists*, 3rd edition, edited by Mills, SE, Lippincott Williams & Wilkins, pp 839-907, 2007

9. **Clapp WL**. Renal Anatomy In: *Silva's Diagnostc Renal Pathology*. Zhou XJ, Laszik Z, Nadasdy T, D'Agati VD, Silva FG, eds. New York, NY: Cambridge University Press: pp 1-46, 2009

10. **Clapp WL**, Croker BP. Kidney. In: Histology for Pathologists, 4th edition, edited by Mills, SE, Lippincott Williams & Wilkins (2011, in preparation)

Abstracts:

1. Pitcock JA, Brown P, Brooks B, Brosius WL, **Clapp WL**, Muirhead EE. Partial-nephrectomy-salt hypertension. *Fed Proc* 36: 438, 1977

2. Muirhead EE, **Clapp WL**, Pitcock JA, Brown P, Brosius WL. Renomedullary interstitial cell(RIC) damage and the evolution of salt dependent hypertension. *Kidney Int* 12: 505, 1977

3. Muirhead EE, Pitcock JA, **Clapp WL**, Brooks B, Brown P. Renomedullary antihypertensive deficiency in partial nephrectomy-salt hypertension. *Kidney Int* 14: 699, 1978

4. Pitcock JA, Brown P, Brooks B, **Clapp WL**, Muirhead EE. Renomedullary deficiency in partial nephrectomy-salt hypertension. *Fed Proc* 38: 1438, 1979

5. Madsen KM, **Clapp WL**, Tisher CC. Intercalated cells are present in rat inner medullary collecting duct. *Clin Res* 33(2): 492, 1985

6. **Clapp WL**, Park CH, Tisher CC. Axial heterogeneity in the tubular handling of protein in rabbit proximal tubule. *Clin Res* 34(2): 592, 1986

7. Verlander J, Larsson L, **Clapp WL**, Madsen KM, Wingo C, Tisher CC. Localization of acidic compartments of rat outer medullary collecting duct (OMCD). *Kidney Int* 31: 417, 1987

8. **Clapp WL**, Park CH, Tisher CC. Effect of monensin on morphology and function of the endosomal- lysosomal system in the proximal tubule. *Clin Res* 35(3): 544, 1987

9. **Clapp WL**, Park CH, Tisher CC. Proximal tubular handling of protein: Axial heterogeneity. *10th International Congress of Nephrology*, London, 1987

10. Park CH, **Clapp WL**, Madsen KM, Tisher CC. Effects of monensin and chloroquine on morphology and function of the endosomal lysosomal system in the proximal tubule. *10th International Congress of Nephrology*, London, 1987

11. **Clapp WL**, Madsen KM, Verlander JW, Tisher CC. Structural heterogeneity along the rat inner medullary collecting duct. *Kidney Int* 33: 432, 1988

12. **Clapp WL**, Bowman PR, Patel P, Kone BC. Localization of mRNAs encoding Na/K-ATPase subunit isoforms in rat kidney using RT-PCR. *J Amer Soc Nephrol* 3: 805, 1992

13. Kone BC, Bowman PR, Patel P, Andaloro VJ, Guzman NJ, **Clapp WL**. Differential expression of the α and β isoforms of the Na/K-ATPase in cultured rat mesangial cells. *J Amer Soc Nephrol* 3: 811, 1992

14. Ahn KY, **Clapp WL**, Zhang L, Bowman P, Madsen KM, Tisher CC, Kone BC. Cellular distribution of Na/K-ATPase isoforms in rat kidney. *J Amer Soc Nephrol* 4: 862, 1993

15. **Clapp WL**, Rowald D, Smith J, Lopez C, Baker H. Identification of WT1- interacting proteins (WIPs). *J Amer Soc Nephrol* 7(9): A1721, 1996

16. Croker BP, Madsen KM, Corpier CL, **Clapp WL**, Massey JK. Macrophages and renal allograft failure. *Banff International Conference on Transplantation Pathology*, 1997

17. Marcussen N, Croker BP, **Clapp WL**. Reproducibility of the Banff classification of chronic allograft nephropathy. *Banff International Conference on Transplantation Pathology*, 1997

18. **Clapp WL**, Rowald D, Lopez C, Baker H. A novel protein that interacts with the WT1 protein. *Amer Cancer Society* (Florida Division) Annual Meeting,1997

19. Corpier CL, Croker BP, **Clapp WL**, Massey KJ. Pathogenesis of chronic renal failure (CRF) in renal allografts. *J Amer Soc Nephrol* 8: A3159, 1997

20. Ross EA, Batich CD, Clapp WL, Sallustio JE, Lee NC. Tissue adhesion to bioactive glass-coated silicone tubing in a rat model of PD catheters. *J Amer Soc Nephrol* 12: A1620, 2001

21. Redman R, Harris NS, Clapp WL. Giant platelets and absent response to ristocetin on platelet aggregation: The need for electron microscopy. *Modern Pathology* 19 (Supp. 1) 340A, 2006 (USCAP Annual Meeting, 2006)

22. Williams M, Batich C, Clapp W, Hamazaki T, Ellison G, Nao T, Ross E. Differentiation of murine embryonic stem cells in decellularized rat kidney scaffold. (*Amer Soc Nephrol Annual Meeting, 2007)*

23. Gersch M, Heinig M, Clapp W, Rodriquez-Iturbe B, Johnson R. The immune response is required for the development of salt sensitive hypertension. (*Amer Soc Nephrol Annual Meeting*, 2007)

24. Dana A-P, Ahmar CA, **Clapp WL**, Ross EA. A new form of myeloma 'kidney": Shortened hemofilter survival and implications for membrane filtration plasmapheresis. (*National Kidney Foundation Meeting*, 2010)

25. Indahyung R, Shafiu M, **Clapp W**, Segal M. Cryoglobulinemic membranoproliferative glomerulonephritis in a patient with scleroderma and Sjogren syndrome. (*National Kidney Foundation Meeting*, 2010)