

CURRICULUM VITAE

David W. Ploth, M.D.

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1088 Johnnie Dodds Blvd.
Mt. Pleasant, SC 29464

EDUCATION:

1959 -1962 (Honors Program); Creighton University,
Omaha, NE
1967 - M. D.; University of Iowa, College of Medicine,
Iowa City, IA

EXPERIENCE:

2006 - Present Editor-in-Chief, *The American Journal of The Medical Sciences*
2006 – Present Medical Director; East Cooper Dialysis Clinic, Mt. Pleasant, SC
1989 - Present Co-Director, Nephrology Program at Veterans
Administration, Medical Center, Charleston, SC
1989 - Present Medical Director, Dialysis Clinics Inc, Charleston, SC
1987 - 1989 Director, Nephrology Program, Ralph H. Johnson Veterans
Administration Medical Center, Charleston, SC
1987 - 1989 Co-Medical Director, Dialysis Clinics Inc, Charleston, SC
1987 - Present Director, Division of Nephrology and A.V. Williams
Professor of Medicine, Medical University of South
Carolina; Staff Physician, MUSC Hospitals; Charleston, SC
1986 - 1987 Co-Director; Nephrology Program at Veterans Administration
Medical Center, Birmingham, AL
1985 - 1987 Professor of Medicine; University of Alabama at
Birmingham, AL
1981 - 1985 Associate Professor of Medicine; Division of Nephrology,
University of Alabama at Birmingham, AL
1981 - 1986 Director; Dialysis Facilities and Nephrology Program,
Veterans Administration Medical Center, Birmingham, AL
1975 - 1981 Assistant Professor of Medicine; University of Alabama at Birmingham, AL
1974 - 1975 Research Associate; Physiologisches Institut, Universitat
Munchen, Munich, Germany
1972 - 1974 Nephrology Fellow and Instructor; University of Iowa
Hospitals, Iowa City, IA
1971 - 1972 Medical Resident; University of Iowa Hospitals, Iowa City, IA
1969 - 1971 Medical Officer, U.S. Navy, U.S. Naval Hospital, Portsmouth,
VA
1968 - 1969 Medical Resident; University of Iowa Hospitals, Iowa City, IA
1967 - 1968 Medical Intern; University of Chicago Hospitals, Chicago, IL
1962 - 1967 Medical Student & Graduate Assistant; Department of Physiology, Iowa City, IA

CERTIFICATION:

Iowa State Board of Medical Examiners
Virginia State Board of Medical Examiners
Diplomate, American Board of Internal Medicine, 1972
Alabama State Board of Medical Examiners
Diplomate, American Board of Internal Medicine, Nephrology Subspecialty, 1978
South Carolina State Board of Medical Examiners, 1987

AWARDS:

American Chemical Society Award, 1960
NIH Student Research Assistantship, Department of Physiology, University of Iowa, College of Medicine, 1963 - 1965
National Kidney Foundation Research Fellowship, University of Iowa, College of Medicine, 1973 - 1974

NIH Special Research Grant, Principal Investigator: David W. Ploth, M.D., Sponsor: G.F. DiBona, M.D., 1974 - not activated

Deutsche Forschungsgemeinschaft Research Associate, Physiologisches Institut, Universität München, Munich, West Germany, 1974 - 1975

National Research Council Travel Award to XXVII International Congress of Physiological Sciences, Paris, France, July, 1977

American Society of Nephrology Travel Award to VII International Congress of Nephrology, Montreal, Canada, June, 1978

American Society of Nephrology Travel Award to VIII International Congress of Nephrology, Athens, Greece, June, 1981

Veterans Administration Clinical Investigator Career Development Award, 1982 - 1985

DuPont-Merck Pharmaceuticals Travel Award to Spring F.A.S.E.B. Atlanta, Georgia, 1995

President's Award, South Carolina Affiliate of the National Kidney Foundation, 1998-1999

Founder's Award, Southern Society for Clinical Investigation, 2007

RESEARCH SUPPORT:

American Heart Association (Alabama Affiliate) Research Grant: Feedback regulation of nephron filtration rate. Principal Investigator: David W. Ploth, M.D. Total Award: \$55,000. 1978-1980.

VA Merit Review Award: Renal autoregulatory control in hypertension.

PI: David W. Ploth, M.D. 1976 (5 years); renewed (3 years), 1982; renewed (2 years) 1985; renewed (2 years), 1987.

NIH-P 50 HL 25451; Hypertension-SCOR; USPHS: Component V: Glomerular

hemodynamic and tubular absorptive function in renal vascular hypertension; Principal Investigator: H. Dustan, M.D. Principal Investigator: Component V & Co-Principal Investigator Component VII: David W. Ploth, M.D.

Total Component V Award: \$509,400. 1980 - 1985

NIH-RO-1 HL-35537; USPHS: Single nephron mechanisms in renal vascular hypertension. Principal Investigator: David W. Ploth, M.D. Total Award

1987 - 1990 - \$369,300

NIH-P 50-DK39258; USPHS: Kidney and Urological Disease Research Center Grant: Mechanisms and

Consequences of Renal Hypertension: Principal Investigator: R. Luke, M.D. Principal Investigator Component VII: Tubuloglomerular feedback mechanisms in renal vascular hypertension.

Co-Principal Investigator Components III and IX. Total Component VII award: \$265,400. 1987 - 1992.

NIH-P 50 HL 35051; Hypertension-SCOR; USPHS: Component V: Single nephron mechanisms in renal vascular hypertension; Principal Investigator: S.

Oparil, M.D. Principal Investigator: Component V & Co-Principal Investigator: Component VI: David W. Ploth, M.D. Total Component V Award: \$610,500. 1987 - 1991

Pfizer Pharmaceuticals: GITS Delivery of Nifedipine to Control Hypertension

Clinical Trial: Principal Investigator: David W. Ploth, M.D. Total Project Funding: (approx)\$ 30,000. 1990 - 1992. Project Funding:\$ 40,000.

NIH - USPHS: Member of Hypertension Training Grant Faculty: Principal

Investigator: H. Dustan, M.D. and Nephrology Training Grant Faculty: Principal Investigator: R. Luke, M.D. 1980 - 1987.

Pfizer Pharmaceuticals: GITS Delivery of Nifedipine to Control Hypertension Clinical Trial: Principal Investigator: David W. Ploth, M.D. Total Project Funding: (approx)\$ 30,000. Project Funding: (approx)\$ 40,000. 1990-1992.

Pfizer Pharmaceuticals: A.C.T.Study: Amlodipine Community Trial. Principal

Investigator: David W. Ploth, M.D. Project Funding: \$ 40,000. 1991-1993.

NIH UO-1 DK48659; USPHS: African American Study of Kidney Disease and Hypertension, Charleston. Principal Investigator: D. Cheek, M.D. ; Co-

Principal Investigators: F. Hutchison, M.D. and D. W. Ploth, M.D. Total Award 1994 - 2001- \$1,908,300.

Smith-Kline & Beecham Pharmaceuticals: S K & B 108566-J: Comparison of SK & F 108566 and Enalapril on Cough and Blood Pressure in Patients with

Essential Hypertension (Protocol 014). Principal Investigator: David W. Ploth, M.D. Total Project Funding: \$ 80,000. 1995-1996. Local

Subprotocol Study: Effects of Enalapril and SK & F 108566 on Plasma Concentrations of Kinins, Angiotensin II, and Plasma Renin Activity.

Principal Investigator: David W. Ploth, M.D. Project Funding: \$ 110,000. 1995-1996.

SmithKline & Beecham Pharmaceuticals: SB 209670: Intravenous SB 209670

Compared to Placebo to Prevent Radiocontrast Induced Acute Renal Failure in Patients at Risk (Study 009). Principal Investigator: David W. Ploth, M.D. Project Funding: \$ 80,000. 1997-1998.

Veterans Administration Merit Review Application: Mechanisms of bradykinin mediated inhibition of absorption in the kidney. PI: D.W. Ploth. 1st year budget: \$149,000. Total budget: \$630,900. 1999-2003; renewal pending, 2003

South Carolina Affiliate of the National Kidney Foundation: Research Fellowship application: Renal blood flow responses to COX-2 inhibition in normal and 2-K, 1C HT rats. Peter Jensen, M.D. Mentor and sponsor: D.W. Ploth. Research Fellowship salary support. Award budget: \$24,600. for two years.

Dialysis Clinics, Inc./Paul Teschan Research Fund: Prospective analysis of costs for global management of a select population of patients with end stage renal disease on hemodialysis. PI: D.W. Ploth. 1st year budget: \$ 65,000. Total budget: \$130,000. 2005-2007

Cato-Medical: SRA Life Sciences: A Phase 1-2 Multicenter, Randomized, Double Blind, Placebo Controlled, Dose Escalation Study of a Locally Acting Antithrombotic Agent, CCI-1004, in Hemodialysis Patients with Vascular Access Occlusion. Contract approx \$200,000. 2000-01.

Marine Polymer Technology: PVAT (Prevention of Thrombosis in Vascular Access Trial) 2005-2006; Total costs, \$170,000.

Amgen: Anemia Clinical Trial involving Bioreactor generated EPO; 2005-2006; approx total budget \$100,000.

SOCIETIES:

Mount Desert Island Biological Association, Salisbury Cove, Maine, 1963 - 1967

American Federation for Clinical Research, 1973 -

National Kidney Foundation, 1973; National Medical Advisory Board of NKF 1990 National NKF Nominating Committee 1993 - 1995

Member, American College of Physicians, 1973

American Society of Nephrology, 1976

Jefferson County (AL) Medical Society, 1976 - 1987

Medical Association of the State of Alabama, 1976 - 1987

American Physiological Society, 1977; National Nominating Committee (Committee on Committees), 1993 - 1996

Fellow, American College of Physicians, 1977

International Society of Nephrology, 1977

Southern Society for Clinical Investigation, 1978; Nominating Committee, 1992 - 1994; Council 1994 –present; secretary-treasurer, 1998-2003; President, 2003-2004;

Birmingham Society of Internal Medicine, 1979 - 1987

Central Society for Clinical Research, 1981 -

South Carolina Affiliate of the National Kidney Foundation, 1987 - present

Charleston County Medical Society, 1989 - present

Medical Association of the State of South Carolina, 1993 -

ACTIVITIES:

1979-1987 Director, Renal Pathophysiology Core Teaching Program, UAB School of Medicine, Birmingham, AL

1980,'84,'87 Abstract Reviewer, Program Committee and Session Chair, American Society of Nephrology Meeting (several other years)

1984 & '86 Abstract Reviewer, Program Committee and Session Chair, American Federation for Clinical Research

1984-1987 Veterans Administration Research and Development Committee, Birmingham VA Medical Center, Birmingham, AL

1985 Chairman, Subspecialty Program for Hypertension, XVIII American Society of Nephrology Meetings, New Orleans, LA

1987- Director, Nephrology Training Program, and Co-Director Charleston Veterans Administration Medical Center and MUSC

1987- Renal Teaching Program, Medical University of South Carolina, School of Medicine

1987- Member, Graduate School Faculty, Medical University of South Carolina

1987- Member, Molecular-Cell Biology Graduate Faculty Program

1988-1989 Member, Veterans Administration Research and Development Committee, Charleston VA Medical Center

1989-1991 Chairman, Veterans Administration Research and Development Committee, Charleston VA Medical Center

1989-1992 National Public Relations Committee, The American Society of Nephrology

1989-1990 Search Committee for Chairman, Department of Urology, MUSC

1989-1990 Selection Committee for Developing Faculty Scholar, MUSC

1989-1999 Member, Executive Board of South Carolina Affiliate National Kidney Foundation

1989-1966 Member, Medical Advisory Board of South Carolina Affiliate
National Kidney Foundation

1990-1996 Chairman, Medical Advisory Board of South Carolina Affiliate
National Kidney Foundation

1989-1997 Member, Low Country Cadillac Golf Committee; SC Affiliate
National Kidney Foundation

1990-1994 Chairman, Low Country Cadillac Golf Committee; SC Affiliate
National Kidney Foundation

1990-1996 Hospital Credentials Committee, Medical Univeristy of South
Carolina

1990-1991 Chairman, Selection Committee for Developing Faculty Scholar,
MUSC

1991-1994 Member, Dean's Executive Curriculum Committee, MUSC

1992-1996 Member, Faculty Promotions and Tenure Committee, College of
Medicine, MUSC

1993-1996 Member, Committee on Committees, Am. Physiological Society

1994-1995 Member, Search Committee for Dean, College of Nursing, MUSC

1994-1998 Member, Council, The Southern Society for Clinical Investigation

1995-1996 President, South Carolina Affiliate National Kidney Foundation

1996-present Member, Editorial Board, American Journal of Medical Sciences

1997-2000 Member, Public Policy Committee, Am. Society of Nephrology

1998-2003 Secretary-Treasurer, Southern Society for Clinical Investigation

1998- Member, Dialysis Clinic Inc. Paul Teschan Grant Review Committee

2002-2003 Pres. Elect, Southern Society for Clinical Investigation

2002-present Chair and Co-Chair, Amgen Young Investigators' Research Forum

2003-2004 President, Southern Society for Clinical Investigation

2005- Editor, The American Journal of The Medical Sciences

Editorial Board, American Journal of Medical Sciences, Ad Hoc reviewer for Hypertension, Kidney Internat., J. of Clin. Invest. J. Lab. Clin. Med., Am. J. Clin. Sci., Am. Journ. Physiol. and others. Ad Hoc reviewer for NIH site visits. Invited International Symposia and Seminars including FASEB Symposia, International Symposia at Lund, Sweden; Tegernsee, Germany; San Deigo, CA; and Seminars at Kiel, Germany; SUNY, Stony Brook; Bowman Gray Univ. School of Med.; Tulane Univ. School of Med.; and others.

RESEARCH INTERESTS:

Control of renal hemodynamics, autoregulation and renal tubule absorptive function in normal and hypertension;
Role of single nephron tubuloglomerular feedback mechanism in control of autoregulation;
Angiotensin control of renal function in stenotic and nonstenotic kidneys in renal vascular hypertension;
Role of renin-angiotensin, kallikrein-kinin and COX systems in the control of renal and single nephron function in normal and hypertensive states;
Kinin control of signaling pathways and cellular transport mechanisms in collecting duct absorption;
Resource utilization and financial costs for maintenance hemodialysis;
Urea transport and mechanisms of osmoregulation in marine species

PUBLICATIONS:

1. Ploth, D.W., and C.A.M. Hogben. 1967. Ion transport in the isolated frog cornea. Invest. Ophthalmology 6:340-347.
2. Ploth, D.W., L.L. Sawin, and G.F. DiBona. 1976. Effect of magnesium on rat nephron sodium reabsorption: A segmental analysis. Am. J. Physiol. 230:398-402.
3. Schnermann, J., D.W. Ploth, and M. Hermle. 1976. Activation of tubuloglomerular feedback by chloride transport. Pflug. Arch. 362:229-239.
4. Schnermann, J., D.W. Ploth, and H. Dahlheim. 1976. Interrelationship between autoregulation of a glomerular filtration rate, tubuloglomerular feedback and juxtaglomerular renin activity in normotensive and hypertensive rats. Clin. Sci. Mol. Med. 51:105s-107s.
5. Schnermann, J., D.W. Ploth, and H. Dahlheim. 1976. Adjustment of renal vascular resistance to acute changes of blood pressure in spontaneously hypertensive rats (SHR). Clin. Exp. Pharmacol. Physiol. Suppl. 3:169-172.
6. Ploth, D.W., J. Schnermann, H. Dahlheim, M. Hermle, and E. Schmidmeier. 1977. Autoregulation and tubuloglomerular feedback in normotensive and hypertensive rats. Kidney Int. 12:253-267.
7. Ploth, D.W., A. Fitz, D. Schnetzler, J. Seidenfeld, and C.B. Wilson. 1978. Thyroglobulin-anti-thyroglobulin immune complex glomerulonephritis complicating radio-iodine therapy. Clin. Immunopathol. 9:327-334.
8. Ploth, D.W., J. Rudolph, C.E. Thomas, and L.G. Navar. 1978. Renal and tubuloglomerular feedback responses to plasma expansion in the rat. Am. J. Physiol. 235 (Renal Fluid Electrolyte Physiol. 4): F156-F162.
9. Ploth, D.W., H. Dahlheim, E. Schmidmeier, M. Hermle, and J. Schnermann. 1978. Tubuloglomerular feedback and autoregulation of glomerular filtration rate in Wistar-Kyoto spontaneously hypertensive rats. Pflug. Arch., 375:261-267.

10. Navar, L.G., P.D. Bell, C.E. Thomas, and D.W. Ploth. 1978. Influence of perfusate osmolality on stop-flow pressure feedback responses in the dog. *Am. J. Physiol.* 235 (Renal Fluid Electrolyte Physiol. 4) :F352-358.
11. Ketter, K.A., G.L. Slick, D.W. Ploth, and G.F. DiBona. 1978. Effect of hypermagnesemia on the urine concentrating mechanism in the rat and the dog. *Nephron* 22: 20-28.
12. Ploth, D.W., C.E. Thomas, R.N. Roy, and J.R. Rudolph. 1978. Ischemic acute renal failure in DOCA-salt loaded Goldblatt hypertensive rats. *J. Lab. Clin. Med.* 92:1009-1018.
13. Nadel, S., J. Jackson, and D.W. Ploth. 1979. Hypokalemic rhabdomyolysis and acute renal failure: Occurrence following total parenteral nutrition. *J. Am. Med. Assoc.* 241:2294-2296.
14. Navar, L.G., R. LaGrange, D. Bell, C. Thomas, and D.W. Ploth. 1979. Glomerular and renal hemodynamics during converting enzyme inhibition (SQ 20881) in the dog. *Hypertension.* 1: 371-377.
15. Ploth, D.W., and L.G. Navar. 1979. Intra-renal effects of the renin-angiotensin system. *Fed. Proc.* 38(9):2280-2285.
16. Navar, L.G., D.W. Ploth, and P.D. Bell. 1980. Distal tubular feedback control of renal hemodynamics and autoregulation. *Ann. Rev. Physiol.* 42:557-71.
17. Shanklin N., and D.W. Ploth. 1980. Evaluation of a new activated blotting time technique for use in hemodialysis. *Dialysis and Transplantation* 9:955-8.
18. Bell, P.D., L.G. Navar, D.W. Ploth, and C.B. McLean. 1980. Tubuloglomerular feedback responses during perfusion with nonelectrolyte solutions in the rat. *Kidney Int* 18:460-71.
19. Navar, L.G., W.C. Huang, and D.W. Ploth. 1980. Influence of the renin angiotensin system on sodium excretion in normal and Goldblatt hypertensive rats. In: *Humoral Regulation of Sodium Excretion*, edited by B. Lichardus, R.W. Schrier and J. Ponec. New York: Elsevier/North Holland Biomedical Press, pp. 73-81.
20. Ploth, D.W., R.N. Roy, W.C. Huang, and L.G. Navar. 1980. Impaired autoregulatory responses in contralateral kidneys of two-kidney, one-clip hypertensive rats. *Clin. Sci.* 59:381S-384S.
21. Navar, L.G., P.D. Bell, and D.W. Ploth. 1981. Feedback control of nephron filtration rate: Role of feedback mechanism in renal autoregulation and sensing step in feedback pathway. *Fed. Proc.* 40:93-98.
22. Ploth, D.W., R.N. Roy, W.C. Huang, and L.G. Navar. 1981. Impaired renal blood flow and cortical pressure autoregulation contralateral kidneys of Goldblatt hypertensive rats. *Hypertension* 3:67-74.
23. Huang, W.C., D.W. Ploth, P.D. Bell, J. Work, and L.G. Navar. 1981. Bilateral renal function responses to converting enzyme inhibitor (SQ 20881) in two-kidney, one-clip Goldblatt hypertensive rats. *Hypertension* 3:285-293.
24. Navari, R.M., D.W. Ploth, and R.K. Tatum. 1981. Hypernephroma in a kidney with multiple simple cysts. *J. Am. Med. Assoc.* 246: 1807-293.
25. Ploth, D.W., and R.N. Roy. 1982. Renal and tubuloglomerular feedback effects of [Sar¹, Ala⁸] angiotensin II in the rat. *Am. J. Physiol.* 242(2):F149-157.
26. Huang, W.C., D.W. Ploth, and L.G. Navar. 1982. Effects of saralasin infusion on bilateral renal function in two-kidney, one-clip Goldblatt hypertensive rats. *Clin. Sci.* 62(6):573-579.
27. Ploth, D.W., and R.N. Roy. 1982. Renin-angiotensin influences on tubuloglomerular feedback activity in the rat. *Kidney Int.* 22(12):S114-121.
28. Huang, W.C., D.W. Ploth, and L.G. Navar. 1982. Angiotensin-mediated alterations in nephron function in Goldblatt hypertensive rats. *Am. J. Physiol.* 243(6):F553-560.
29. Navar, L.G., D.J. Marsh, R.C. Blantz, J. Hall, D.W. Ploth, and A. Nasjletti. 1982. Intrinsic control of renal hemodynamics. *Fed. Proc.* 41(14):3022-3030.
30. Treasure, J., J. Work, C. Palmer, and D.W. Ploth. 1983. Dietary potassium and the development of hypertension in two-kidney, one-clip Goldblatt hypertensive rats. *Hypertension* 5:521-528.
31. Ploth, D.W. 1983. Editorial Review. Angiotensin-dependent renal mechanisms in two-kidney, one-clip renal vascular hypertension. *Am. J. Physiol.* 245(2):F131-141.
32. Ploth, D.W., and L.G. Navar. 1983. Physiologic control of arterial blood pressure and mechanisms of hypertension. In: Clinical Approaches to High Blood Pressure in the Young, Kotchen T.A. and J.M. Kotchen (eds.) Boston: John Wright-PSG Inc., pp. 23-78.
33. Treasure, J., and D.W. Ploth. 1983. Role of dietary potassium in the treatment of hypertension. *Hypertension* 5: 864-872.
34. Harris, P.J., L.G. Navar, and D.W. Ploth. 1984. Evidence for angiotensin-stimulated proximal tubular fluid reabsorption in normotensive and hypertensive rats: Effect of acute administration of captopril. *Clin. Sci.* 66: 541-544.
35. Bell, P.D., M. Reddington, D.W. Ploth, and L.G. Navar. 1984. Tubuloglomerular feedback mediated decreases in glomerular pressure in Munich Wistar rats. *Am. J. Physiol. (Renal Fluid Electrolyte Physiol)* 16:F877-F880.
36. Mackenzie, H.S., A.L. Morrill, and D.W. Ploth. 1984. Pressure dependence of exaggerated natriuresis in two-kidney, one-clip Goldblatt hypertensive rats. *Kidney Int.* 27: 731-738.
37. Treasure, J.L., D.W. Ploth, and T. Treasure. 1985. Continuous measurement of potassium concentration in blood during hemodialysis with an Ion-Specific Electrode. In: Ion Measurements in Physiology and Medicine, M. Kessler (ed.) Springer-Verlag Berlin Heidelberg, pp 297-300.

38. Treasure, J., D.W. Ploth, and T. Treasure. 1986. Measurement of potassium concentration on line with an ion specific electrode during hemodialysis. *Mineral Electrolyte Metab.* 12: 161-164.
39. Ploth, D.W., K. Kleeman, L. Morrill, and R. Rademacher. 1987. Effects of verapamil on bilateral renal function of two-kidney, one-clip hypertensive rats. *Clin. Sci. Mol. Med.* 72:657-667.
40. Rademacher, R., K. Berecek, and D.W. Ploth. 1986. Effects of angiotensin inhibition and renal denervation in two-kidney, one-clip hypertensive rats. *Hypertension* 8:1127-1134.
41. Zimmerman, B., W. Arendshorst, G.F. DiBona, T.H. Hostetter, L. Raij, and D.W. Ploth. 1986. Renal functional derangements in hypertension. *Fed. Proc.* 45:2661-2664.
42. Navar, L.G., W.C. Huang, K.D. Mitchell, C.A. Jackson, and D.W. Ploth. 1987. Renal mechanisms of hypertension. In *Proc. of 1st Congr. of Asian and Oceanic Physiol. Soc.* Ed. C. Pholpramool and R. Sudsuang. *Publ. Physiol. Soc. (Thailand)* pp. 253-261.
43. Ploth, D.W., K. Kleeman, L. Morrill, and R.R. Rademacher. 1987. Effects of Verapamil and converting enzyme inhibition on bilateral renal function of two-kidney, one-clip hypertensive rats. *Clin. Sci. Mol. Med.* 72:657-667.
44. Ploth, D.W., and R.V. Paul. 1988. Role of the renin angiotensin system in tubuloglomerular feedback control of single nephron function. In: The Juxtaglomerular Apparatus, A.E.G. Persson and U. Boberg (eds.) Elsevier Science Publishers (Biomedical Division), pp. 257-269.
45. Mackenzie, H.S. and D.W. Ploth. 1989. Effects of low dose converting enzyme inhibitor on renal function in two-kidney, one-clip hypertensive rats. In: Current Advances in ACE Inhibition. Gardiner-Caldwell Communication Ltd.:London pp. 203-207.
46. Hawthorne, H., R. Qualheim, and D.W. Ploth. 1989. Mechanisms of hyperkalemia during treatment with indomethacin. (submitted for publication).
47. Ploth, D. W. and H. Mackenzie. 1990. Angiotensin dependent mechanisms in renovascular hypertension. In: Urology Annual, S. Rous (ed.) Appleton and Lange: East Norwalk. pp.213-233.
48. Ploth, D.W. 1990. Influences of Angiotensin on renal function in renal vascular hypertension. *Kidney International* 38(S-30) S-97-S-101.
49. Ploth, D.W. 1990. Hypertension and Renal Disease:Basic research in renal mechanisms and pathophysiology of hypertension. (NIH Committee testimony) In: *Nephrology News and Issues.* 4(2):38-40.
50. Ploth, D.W. 1991. Renovascular hypertension. In:Principles and Practice of Nephrology, H. Jacobson, G. Striker, and S. Klahr (eds.), R. Luke (sect. ed.) B C Decker: Philadelphia. pp. 517-525.
51. Ploth, D.W., R. Ingram and H.S. Mackenzie. 1991. Mechanisms of acute renal failure in kidney, 1 clip hypertension during converting enzyme inhibition or reduced blood pressure. In: Current Advances in ACE Inhibition. Gardiner-Caldwell Communication Ltd: London. pp.209-212.
52. Fitzgibbon, W.R., Ploth, D. W. and H.S. Margolius. 1993. Kinins as vasoactive peptides. In: *Current Opinion in Nephrology and Hypertension* 2(2) 283-290.
53. Rinder, C., P.V. Halushka, M.A. Sens and D.W. Ploth. 1994. Thromboxane A-2 receptor blockade improves renal function and histopathology in the post obstructive kidney following relief of unilateral ureteral obstruction. *Kidney International.* 45: 185-192.
54. Ploth, D.W. and W.R. Fitzgibbon. 1994. Pathophysiology of altered renal function in renal vascular hypertension. (NIH Conference on pathophysiology of ischemic renal disease). *Am Journ of Kidney Dis.* 24: 652-659.
55. Ploth, D.W. 1995. Renovascular hypertension. In: Principles and Practice of Nephrology, H. Jacobson, G. Striker, and S. Klahr (eds.), R. Luke (sect. ed.) B C Decker: Philadelphia.(2nd Ed.). pp 379-386
56. Imamura, A., H.S. Mackenzie, E.R. Lacy, F.N. Hutchison, W.R. Fitzgibbon and D.W. Ploth 1995. Effects of chronic treatment with angiotensin converting enzyme inhibitor or angiotensin receptor antagonist in two-kidney, one clip hypertensive rats. *Kidney International* 47:1394-1402.
57. Fitzgibbon, W.R., Jaffa, A.A., Mayfield, R.K., and D.W. Ploth. 1996. Role of kinins in the renal responses to enalaprilat in normotensive and hypertensive rats. *Hypertension.* 27:235-244.
58. Mukai, H., Fitzgibbon, W.R., Margolius, H.S., and D.W. Ploth. 1996. Bradykinin antagonist increases chloride reabsorption in rat papillary collecting duct. *Am. Journ. Physiol.* 271 (Regulatory Physiol. 40): R352-R360.
59. Fitzgibbon, W.R., Webster, S. K., Imamura, A, Ploth, D.W., and F.N. Hutchison. 1996. Effect of dietary protein and enalapril on the proximal tubular delivery and tubular absorption of albumin in nephrotic rats. *Am. Journ. Physiol: Renal, Fluid, Electrolyte Physiology* 39: F986-996.
60. Budisavljevic, M.N., Cheek, D., and D.W. Ploth. 1996. Calciphylaxis in Chronic Renal Failure. *Journ. Am. Soc. Nephrol.* 7: 978-982.
61. Mukai, H., Fitzgibbon, W.R., Ploth, D.W., H.S. Margolius. 1998. Effect of chronic treatment with the bradykinin receptor antagonist, HOE 140 on blood pressure in Dahl salt-resistant (SR/Jr) rats. *British Journ. of Pharmacology.* 124: 197-205.
62. Mukai, M., Fitzgibbon, W.R., Bozeman, G., Margolius, H.S. and Ploth, D.W. (1996). Bradykinin B₂ receptor antagonist increases chloride and water absorption in rat medullary collecting duct. *American Journal of Physiology* 271 (Regulatory, Integrative and Comparative Physiology 40): R352-R360.

63. Mukai, M., Fitzgibbon, W.R., Ploth, D.W. and Margolius, H.S. (1998). Effect of chronic treatment with the bradykinin receptor antagonist, HOE140, on blood pressure in Dahl salt resistant (SR/Jr) rats. *British Journal of Pharmacology* 124: 197-205.
64. Mukhin, Y.V., Vlasova, T., Jaffa, A.A., Collinsworth, G., Bell, J.L., Tholanikunnel, B., Pettus, T., Fitzgibbon, W.R., Ploth, D.W., Raymond, J.R. and Garnovskaya, M.N. (2001). Bradykinin B2 receptors activate Na⁺/H⁺ Exchange in mIMCD-3 cells via janus kinase 2 and Ca²⁺/calmodulin. *Journal of Biological Chemistry* 276: 17339-17346.
65. Janech, M.G., Chen, R., Paul R.V., Nowak, M., McFee, W., Fitzgibbon, W.R. and Ploth, D.W. (2002) Physiological and molecular characterization of a urea transporter from the kidney of the short-finned pilot whale, *Globicephala macrorhynchus*. *American Journal of Physiology (Regulatory and Comparative Physiology)* 282: R1490-R1500.
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