

8/26/2004

08/26/04

CURRICULUM VITAE

NAME: Christine Baylis
BIRTHPLACE: London, England
CITIZENSHIP: US (Naturalized 12/15/92)
EDUCATION:
University: Undergraduate and Graduate: Leeds University
Department of Physiology, Leeds, Yorkshire, England
BSc Hons. 1st Class 1971. Ph.D. 1974.

FELLOWSHIPS:

Science Research Council of Great Britain NATO fellowship	1974-1976
National Kidney Foundation Fellowship (US)	1976-1977
Wellcome Trust Senior Biomedical Research Fellowship (UK)	1977-1981

POSTDOCTORAL EXPERIENCE:

Postdoctoral fellow in Nephrology, UCSF, San Francisco, CA(Laboratory of Dr. Brenner, VA Hospital)	1974-1976
Postdoctoral fellow in Nephrology, Department of Medicine, Brigham and Womens Hospital/Harvard Medical School, Boston, MA	1976-1977

UNIVERSITY APPOINTMENTS:

Assistant Professor, Department of Physiology, Manchester University, Manchester, England	1977-1981
Assistant Professor, Department of Medicine, Division of Nephrology, Brigham and Womens Hospital/Harvard Medical School, Boston, MA	1982-1983
Assistant Professor, Department of Medicine, Division of Nephrology, University of California, San Diego, CA	1983-1987
Associate Professor, Department of Physiology, West Virginia University, Morgantown, WV	1987-1990
Professor, Department of Physiology, West Virginia University, Morgantown, WV	1990-2004
Professor of Physiology and Functional Genomics, Professor of Medicine University of Florida.	2004

HONORS AND AWARDS:

Hungarian Society of Nephrology, Koranyi Sandor award for contributions to Nephrology	1996
Benedum award for Biomedical Research at WVU	1997
Elected Fellow of the Council for High Blood Pressure Research	2002
Invited Lecturer for "Michael A Kirschenbaum" Lecture series.	2003
Barry M. Brenner endowed lecture, ASN	2004

SOCIETIES AND ORGANIZATIONS:

Physiological Society of Great Britain	1978-86
International Society of Nephrology	1979
American Federation of Clinical Research	1985
International Society for the study of Hypertension in Pregnancy	1985
American Society of Nephrology	1986
Women in Nephrology	1990
American Physiological Society	1992
American Heart Association, Kidney Council	1992

RESEARCH SUPERVISION OF STUDENTS AND FELLOWS:**UNDERGRADUATE STUDENTS:**

1. Sam Shube. UCSD.	1984
2. Sam Girardi. UCSD.	1984
3. Tammy McAllister. UCSD.	1985
4. Kevin Reese. UCSD.	1986
5. Christine Zimmerman. UCSD.	1986
6. Derryl Depriest. UCSD.	1986,1987
7. Kevin Engels. WVU.	1989
8. Paul Harton. WVU.	1990

GRADUATE STUDENTS:

1. Daisy K. Shum. University of Manchester. 1 yr research rotation.	1980-81
2. Joyce Takeyasu. USCD. 2 quarters research rotations.	1983
3. Karen Munger. UCSD. Ph.D.	1984-87
4. Emma David. WVU. 2 semester rotations.	1989
5. Shyama Masilamani. WVU. Ph.D.	1990-93
6. Aihua Deng. WVU. Ph.D.	1990-93
7. Maria Gutierrez. WVU. 2 semester rotation.	1990-91
8. Changbin Qiu. WVU. Ph.D.	1991-94
9. Joan Bloch. West Virginia University. MS.	1994-96
10. Shen Xiao. WVU. Ph.D.	1995-99
11. Beth Santymire. WVU MD, PhD	1996-99
12. Aaron Erdely. WVU. PhD.	1999-2002
13. You-Lin Tain	2003-present

POSTDOCTORAL FELLOWS:

1. Kamal F. Badr, M.D. Boston. (Co-Supervisor with B.M. Brenner)	1982-83
2. Stephen Nadler, M.D. Boston. (Co-Supervisor with B.M. Brenner)	1982-83
3. Michael Fredericks, M.D. UCSD.	1985-86
4. Jane Reckelhoff, Ph.D. WVU.	1987-90
5. Cheryl Hill, Ph.D. WVU	1992-94
6. Zhang Xin-Zhou MD	1996
7. Atiya Malik Lateef MD (Nephrology fellow)	1995-1996
8. Ziv Greenfeld PhD	1996-1999
9. Laszlo Wagner MD	1998-01
10. Aaron Erdely, PhD	2003
11. Cheryl Smith	2003 -present
12. Sarah Knight	2004

VISITING SCIENTISTS:

1. Bridget Slangen, M.D. (Maastricht, Netherlands) 2 months	1993/1995
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2. George Losoncy, M.D. (Budapest, Hungary) 2 months	1993
2 months	1995
8 months	1996
3. Tamas Suto, M.D. (Budapest, Hungary) 6 months	1994
4. Ernst Beinder, M.D. Erlangen/Nuremberg, Germany) 3 months	1997
5. Eileen Gallery, M.D. (Sydney, Australia) 5 months	1999
6. Lushen Sun PhD. (PRC) 3 months	2000
7. Veronika Muller, M.D. (Budapest, Hungary) 18 months	2000-2002
8. Attila Szabo, M.D. (Budapest, Hungary) 18 months	2000-2002
9. Weimin Peng, M.S. (PRC) 1 month	2003

JOURNAL REVIEWER FOR:

American Journal of Medical Sciences
 American Journal of Obstetrics and Gynecology
 American Journal of Physiology F, H, E and R series
 Circulation Research
 Clin. Exp. Hypertension, Part B. Hypertension in Pregnancy
 Diabetes
 Hypertension
 Journal of American Society of Nephrology (JASN)
 Journal of Cardiovascular Pharmacology
 Journal of Clinical Investigation
 Kidney International
 Nephron
 Pharmacological Reviews
 Renal Physiology

JOURNAL EDITORIAL BOARD:

Guest Co-Editor with Marshall Lindheimer of April 1987 edition of Am. J. Kidney Diseases.
 Proc. of Symposium on the Kidney and Pregnancy. Held in Chicago, 1986.

Editorial Board:

American Journal of Physiology, Regulatory, Integrative and Comparative Physiology, 7/93-present

American Journal of Physiology, Renal, Fluid and Electrolyte Physiology, 7/93-6/95

Hypertension, 1997-present

Journal of American Society of Nephrology (JASN), 7/94-2001

JOURNAL EDITOR

Section Editor, Current Opinion in Nephrology and Hypertension, Circulation and Hemodynamics Section, 3/96-3/99.

Associate Editor of American Journal of Physiology; Renal 11/96-2001

GRANT REVIEWER FOR:

Member Cardiovascular & Renal NIH study section 1990-1994

Member, VA Merit Review Board, Nephrology 2000-2002

Chair 2003

Member, PBKD NIH study section 2003-2007

OTHER:

NIH special study section on "Dietary factors in Hypertension" 1986

National Kidney Foundation for Young Investigator awards 1986,87

Reviewer for NIH Nephrology Training Program (T32) 1988

Ad-hoc reviewer for Cardiovascular and Renal NIH study section 1988,89

Cardiovascular & Renal NIH study section Reviewers Reserve 1990-96

Reviewer for March of Dimes, Birth Defects Foundation	1990
Reviewer for Kidney Foundation of Canada	1990
Grant agency of the Czech Republic	1993,2002
VA Merit Review, external reviewer	1992,94,95,99
AHA WV-Ohio Affiliates Grant reviewer	1996
Ad-hoc reviewer for General Medicine B NIH study section	1997
Reviewer for Israel Science Foundation.	1996, 97, 2003
NIH K08 awards	2000
NHMRC (Australia)	2002
Wellcome Trust of Great Britain	2003

GRANTS AWARDED:

CURRENT	NIH RO1 DK 45517: PI. \$154,000/yr (direct)	1992-2004
	NIH R01 DK 56843: PI. \$154,000/yr (direct)	2001-2005
	Biopure Corp. Contract. PI. Total \$36,379 (direct)	2002-2004
	NIH R01 NIDDK/NICHD. \$225,000/yr direct	2004 - 2009
	"IMCD phosphodiesterase in pregnancy; role in ECFVE " PI:	

EXPIRED

Wellcome Trust Senior Fellowship in Basic Biomedical Sciences Full salary, technician salary, equipment, travel and supplies in sterling. Equivalent to \$40,000-50,000/yr (PI)	1977-1981
North West Kidney Foundation of Great Britain. \$10,000 (in sterling) for equipment (PI)	1980
American Heart Association Grant-in Aid. \$95,040 Declined in favor of overlapping NIH grant (PI)	1982-1985
NIH R01 HL29478: \$63,875 (direct) (PI)	1982-1983
NIH R01 HL31933: ~\$120,000/yr direct) (PI)	1983-1999
American Heart Association Grant-in Aid (local S. CA). \$23,792 (PI)	1984-1986
UCSD Academic Senate: \$6,507 (PI)	1983-1985
NIH R01 DK39963: \$240,000 (direct) (PI)	1987-1990
WVU BRSG: \$4,950 (PI)	1988-1989
American Heart Association Grant-in Aid: \$14,634 (Co-Investigator)	1988-1989
WVU BRSG: \$7,870 (PI)	1990-1991
Baxter Healthcare Corp.: \$40,000/year (PI)	1991-1998
American Heart Association local WV Chapter Postdoctoral Fellowship: \$50,000. Sponsor for Dr. C. Hill	1992-1994
SmithKline Beecham (Contract): \$21,000 (PI)	1991-1993
National Research Council: \$10,300 fellowship to host Visiting Scientist, Dr. T. Suto (PI)	1994
March of Dimes, Basic Research Grant: ~\$90,000 direct (PI)	1995-1997
West Virginia University Health Sciences Centre Team Development Grant: ~\$63,000 direct (PI)	1995-1997
Hoffman La Roche Contract 4/1/98-4/1/99. \$70,330/yr direct. PI C Baylis.	1998-99

LECTURES, PRESENTATIONS AND INVITED SEMINARS AT NATIONAL/INTERNATIONAL MEETINGS:

1. Co-organizer and speaker at the symposium on the glomerulus, a satellite symposium of the 1984 Int. Congr. of Nephrology, held in San Diego.
2. Co-organizer and speaker at an International Symposium on "Renal Function and Hypertension in Pregnancy", Chicago, 1986
3. Invited speaker at Int. Soc. Nephrol., Montreal, 1978. "Acute Renal Failure" symposium.
4. Invited speaker Int. Soc. Biochem., Oxford, 1979. "Biochemical Aspects of Renal Function".

5. Invited Chairperson at Int. Union. Physiol. Sci., Budapest, 1980. "Renal Hemodynamic Session"
6. Invited speaker at Int. Soc. Nephrol., Athens, 1981. Symposium on "Control of Glomerular Filtration"
7. Invited speaker at Ann. meeting of Am. Soc. of Nephrol. Washington, 1981. Symposium on "The Kidney in Pregnancy"
8. Invited speaker at Int. Union. Physiol. Sci. Sydney, 1983. Symposium on "Renal Hemodynamics and proximal Tubular Reabsorption".
9. Invited Chairperson at Ann. meeting of Am. Soc. Nephrol., Washington, 1984. "Renal Hemodynamics Session"
10. Invited speaker to Ann. meeting of Mexican Soc. Nephrol., Acapulco, 1985. Guest lectures on; "The Kidney in Pregnancy" "Control of Glomerular Hemodynamics"
11. Invited Chairperson at Ann. meeting of Am. Soc. Nephrol. Washington, 1986. "Renal Hemodynamics Session".
12. Invited speaker at the Annual meeting of the International Society for the study of hypertension in pregnancy held in Montreal, May 1988. State of the art lecture on "Glomerular hemodynamics in normotensive and hypertensive pregnancy".
13. Invited participant in FASEB symposium (New Orleans). "Sexual dimorphism in regulation of blood pressure and water and electrolyte homeostasis" March 1989
14. Invited speaker to New York Society of Nephrology on "Glomerular dysfunction in the ageing kidney" April 1990
15. Invited speaker in Satellite Symposium to 11th Int. Congress Nephrol. (Tokyo, July, 1990) on "The Kidney and Hypertension in Pregnancy"
16. Invited workshop speaker and session chairman at "International Society of Study of Hypertension in Pregnancy", Perugia, Italy, October, 1990
17. Invited abstract reviewer and session chairman at Annual Meeting of the American Society of Nephrology Washington, DC, December, 1990.
18. Invited speaker at Society for Perinatal Obstetricians, San Francisco, January, 1991 in symposium on "Hypertension in Pregnancy"
19. Chairman, Abstract Review Committee on Hypertension/Renal Hemodynamics and Session Chairman at Annual Meeting of the American Society of Nephrology, Baltimore, November 1991
20. Invited speaker at Hypertension Investigators Meeting, Amelia Island, Florida, March 1992 "Renal effects of acute and chronic EDRF blockade"
21. Invited speaker at Symposium on Kidney and Hypertension in Pregnancy, University of Chicago, May 1992 "Glomerular hemodynamics in normotensive and hypertensive pregnancy"
22. Invited speaker at FASEB Summer Conference, VT, June/July 1992, "Endothelial factors in control of renal hemodynamics"
23. Co-organizer of Symposium on "Volume regulation in pregnancy" at International Society for the Study of Hypertension in Pregnancy, Buenos Aires, November 1992
24. Invited speaker to the Australian Society for Study of Hypertension in Pregnancy and Australian and New Zealand Nephrology Society, Tasmania, March 1993
25. Invited speaker in FASEB Symposium on EDRF and the Kidney, New Orleans, March 1993
26. Invited speaker on blood pressure control in pregnancy, Plenary Session, West Virginia University Research Day, April 1993
27. Invited speaker in Symposium on EDRF and the Kidney, IUPS, Glasgow UK, August 1993
28. Invited workshop Chair/Speaker "Vascular reactivity in animal pregnancy" at 9th meeting of the International Society for Study of Hypertension in Pregnancy, Sydney Australia, March 1994
29. Invited speaker at Symposium on "Hypertension in Pregnancy" at International Society of Hypertension, Melbourne Australia, March 1994
30. Invited speaker at "Hypertension Investigators Meeting" at Amelia Island, Florida, May 1994
31. Invited speaker at National Kidney Foundation Meeting, "Womens Health Issues", Orlando FLA, October 1994
32. Invited speaker at the Japanese Nephrology Forum, Tokyo March 1995.
33. Invited speaker, keynote address, at the Japanese Hypertension in pregnancy meeting, Tokyo March 1995.

34. Invited speaker, symposium on Clinical and Basic Research, Research day, West Virginia University, April 1995.
35. Invited speaker, FASEB symposium on "Cardiovascular and Renal Ageing", April 1995.
36. Invited speaker, ASH meeting symposium, "Endothelial and physical factors in hypertension", May 1995.
37. Member of organizing committee, and symposium chair, FASEB summer conference on renal hemodynamics, June 1995.
38. Invited speaker, ISN (Madrid) symposium on "Nitric oxide in acute renal failure", July 1995.
39. Invited speaker, Homer Smith 100 year anniversary celebration, August 1995.
40. Invited speaker, Consortium of Southeastern Hypertension Centers (COSEHC) annual meeting symposium, "Nitric oxide: an evolving role in hypertension", August 1995.
41. Presentation to Cardiovascular Aging Advisory Group Panel, National Institute of Aging/NIH, September 1995.
42. Invited speaker at North American Society for Study of Hypertension in Pregnancy; Pre-eclampsia Research. "Role of NO in normal and pre-eclamptic pregnancy."
Workshop organizer on "Getting started in an independent research career". December 1995
43. Invited speaker at 33rd Congress of the European Renal Association (ERA/EDTA), symposium on "Pregnancy-induced hypertension", Amsterdam, Netherlands, June 1996.
44. State of Art speaker on "Nitric oxide; physiologic and pathophysiologic effects on kidney and blood pressure" at Hungarian Society of Nephrology, Miskolc, Oct 1996.
45. Invited speaker at XIIth meeting of Inter-American Society of Hypertension, symposium on Pregnancy and Hypertension "Nitric oxide in normal and hypertensive pregnancy". Mexico City March 1997.
46. Invited speaker on "Nitric oxide in pregnancy; possible role of nitric oxide deficiency in preeclampsia" in symposium on Ob/Gyn and "Physiologic roles of nitric oxide in control of BP and kidney function; impact of NO deficiency states" in symposium on Molecular Medicine at 32nd Middle Eastern Medical Assembly, Beirut Lebanon, May 1997.
47. Invited speaker on "Nitric oxide metabolism in normal and hypertensive pregnancy" in symposium on Pregnancy, Hypertension and the kidney, XIVth meeting of the International Congress of Nephrology, Sydney Australia, May 1997.
48. Invited speaker at one day symposium on "Renal disease and Hypertension in Pregnancy" Univ Erlangen-Nuremberg, Germany, June 1997
49. Invited speaker at XXXIIIth Int Congr Physiol Sciences, symposium on "Nitric oxide in regulation of vascular and tubular function" St Petersburg, Russia. June/July 1997
50. Invited speaker to FESBE (Brazilian equivalent of FASEB), symposium on Nitric oxide and the cardiovascular system" at Caxambu Brazil, August 1997
51. Invited speaker, at International Symposium "New frontiers in Hypertension" Sao Paulo, Brazil, Sept 1997.
52. Symposium on "Control of GFR in normal and abnormal pregnancy", Geneva, Switzerland Sept 1997.
53. Invited speaker in Plenary Session on Team Development Grants, West Virginia University Research Day, March 1998.
54. Invited speaker in Clifford A. Barger Symposium "Acute studies on the interaction between NO and endothelin on renal function. FASEB April 1998, San Francisco.
55. Invited speaker to give Review lecture on "Cardiovascular and renal adaptations to pregnancy; role for NO", 17th meeting of the Int Soc Hypertension, Amsterdam, June 1998
56. Invited speaker on "Renal hemodynamics in aging" in symposium on the Aging kidney, Int. Soc Nephrol. Buenos Aires, Argentina, May 1999
57. Invited speaker on "NO deficiency in chronic renal disease" at Acta Physiologica Scaninavica symposium, Uppsala, Sweden, June 1999.
58. Invited speaker on "The impact of pregnancy on the progression of renal disease" at NIH meeting on Women and renal disease, Bethesda, Sept 1999.
59. Invited speaker on "Animal models of chronic renal disease", panel on CRI, Hoffman La Roche, Basel Switzerland, Oct 1999.

60. Invited speaker, "NO deficiency in chronic renal disease" at the Hypertension Investigators meeting, Amelia Island, Florida, Jan 2000.
61. Speaker on "Renal hemodynamics in normal and compromised pregnancy: Role of NO" in Symposium on "Pre-eclampsia 2000", Stanford University School of Medicine. Feb 2000.
62. Organizer and speaker for Experimental Biology (EB) featured topic "Impact of Gender and pregnancy on renal function". San Diego April 2000.
63. Invited speaker on "NO deficiency and CRD" in NIH workshop on NO as a therapeutic agent for sickle cell and other vascular diseases, Bethesda, Sept 2000.
64. Invited symposium speaker at Am Soc Nephrol, Symposium on pregnancy and the kidney, Toronto, Oct 2000.
65. Invited keynote speaker "Role of nitric oxide in renal physiology and the pathogenesis of disease" Meeting of the MARS Nutrition Research Council, Werribee, Australia, Jan 2001.
66. 3 Lectures in the VIIIth Nephrology Summer School, Budapest on "GFR in normal and compromised pregnancy", "The aging kidney", "NO deficiency as cause and consequence of renal disease", September 2001.
67. Invited Symposium speaker on "Nitric oxide deficiency and chronic renal disease" at Am Soc Nephrol, San Francisco, Oct 2001.
68. Invited Symposium speaker on "Nitric oxide deficiency and chronic renal disease" at Am Heart Assoc, Los Angeles, Nov 2001.
69. Invited speaker at NIA workshop on the "Biology of Aging"; "Sexual dimorphism in the aging kidney; structure/function relationships. Changes in the NO system with age that may contribute". VA, Jan 2003
70. Keynote speaker at MacDonald club/ British Society of Maternal-fetal Medicine meeting "GFR in normal and compromised pregnancy" York UK, March 2003.
71. Invited lecturer: "Michael A Kirschenbaum" Lecture series. 5 seminars at UC Irvine, Long Beach VAMC, UCLA/Sepulveda VAMC, USC. Los Angeles CA, May/June 2003.
72. Invited speaker at German National meeting "Nitric oxide as a cause and a consequence of ESRD" Berlin Dialyseseminar. Berlin Germany, Dec 2003.
73. Invited speaker at International Symposium "Vascular NO: From bench to bedside" "Nitric oxide as a cause and a consequence of ESRD". Hannover Germany, March 2004.
74. Barry M. Brenner endowed lecture "NO deficiency in CRD and ESRD", ASN 2004, St Louis, October 2004.

INVITED SEMINARS:

Renal Group, London. UK. Glomerular permselectivity. 1978.

University of Sheffield, UK, Department of Zoology. 1978. "Renal Hemodynamics in Pregnancy"

University of Manchester. UK. Department of Physiology. 1979. "Renal Hemodynamics in Pregnancy"

University of Sheffield. UK. Department of Medicine. 1979. "Renal Hemodynamics in Pregnancy"

University College, Dublin. Eire. Department of Pharmacology. 1979. "Renal Hemodynamics in Pregnancy"

University of Birmingham. UK. Department of Physiology. 1979. "Renal Hemodynamics in Pregnancy"

Stanford University. Department of Medicine, Renal Section. Sept. 1980. "Renal Hemodynamics in Pregnancy"

University of Southern California. Department of Physiology and Biophysics. Sept. 1980. "Thromboxanes and the Kidney"

University of California, San Francisco. Department of Medicine, Renal Division. Sept. 1980. "Renal Hemodynamics in Pregnancy"

University of Texas, San Antonio. Department of Medicine, Renal Division. Sept. 1980. "Thromboxanes and the Kidney"

Harvard Medical School/Peter Bent Brigham Hospital Department of Medicine, Renal Division. Oct. 1980. "Renal Hemodynamics in Pregnancy"

Glaxo Pharmaceuticals Ltd. UK. Research Ltd. October 1980. "Thromboxanes and the Kidney"

Harvard Medical School/Brigham and Womens Hospital Department of Medicine. Renal Grand Rounds. 1981. "Renal Hemodynamics in Pregnancy"

University of Texas, Galveston. Division of Nephrology. May 1982. "Renal Hemodynamics during Pregnancy"

Boston University Medical Center Division of Medicine, Renal Section. November 1982. "Control of GFR in Pregnant Rats"

Dartmouth Medical School, Department of Physiology. January 1983. "Renal Hemodynamics during Pregnancy"

Department of Pathology John Hopkins University. January 1983. "Mechanisms of Gentamicin Nephrotoxicity"

Renal Division, Department of Medicine UCSD. 1984. "Renal Hemodynamics in Pregnancy"

Loma Linda University Department of Physiology. February 1985. "Renal Hemodynamics during Pregnancy"

Department of Medicine Stanford University. April 1985. "Renal Hemodynamics during Pregnancy"

WVU, Department of Physiology. Feb. 1987. "Renal Hemodynamics in Pregnancy in Health and Disease"

University of Illinois. Department of Physiology. March 1987. "Renal Hemodynamics during Pregnancy in Health and Disease"

University of California, San Diego. Department of Medicine, Renal Division. May 1987. "Renal Hemodynamics During Pregnancy in Health and Disease"

WVU, Department of Biochemistry. 1987. "Renal Hemodynamics in Pregnancy in Health and Disease"

WVU, Department of Physiology. Jan. 1988. "Renal Hemodynamics in Pregnancy in Health and Disease"

WVU, Department of Physiology. Sept. 1988. "Multiple Defects in the Aging Kidney"

WVU, Department of Pharmacology & Toxicology. Jan. 1989. "Renal Hemodynamics in Pregnancy in Normotensive and Hypertensive States"

WVU, Endocrine Research Forum. April 1989. "Factors which Initiate the Gestational Renal Vasodilation"

Bowman Gray Medical School, NC. April 1989. Department of Medicine. "Multiple Defects in the Aging Kidney"

Bowman Gray Medical School, NC. April 1989. Department of Physiology. "Glomerular Hemodynamics in Pregnancy in Health and Disease"

University of Louisville. Department of Physiology and Biophysics. May 1989. "The Kidney in Pregnancy in Health and Disease"

WVU, Urology Department seminar. March 1990. "Multiple defects in the aging kidney"

Renal Division, North Shore Hospital/Cornell Medical School. April 1990. "Renal responses in normotensive and hypertensive pregnancies"

Renal Division, NYU (Bellevue). April 1990. "Renal physiologic responses to normal pregnancy"

Dept. of Obstetrics Grand Rounds. University of Vermont, Burlington. May, 1990. "Renal responses in normal and hypertensive pregnancies"

Vermont Vascular Club. University of Vermont. May 1990. "Multiple defects in the aging kidney"

Renal Division, Dept. of Medicine. University of Calgary, Alberta, Canada. September, 1990 Seminar: "Renal hemodynamics in normotensive and hypertensive pregnancy"

WVU, Physiology Dept. December 1990. "The Kidney in Pregnancy."

WVU, Department of Pediatrics Research Conference. March 1991. "Endothelial derived relaxing factor in control of BP and renal function"

Brigham & Womens Hospital/Harvard Medical School, Boston, Renal Division Grand Rounds. March 1991. "The mechanisms of evolution of age-dependent glomerular injury" and Research Seminar to Endothelial Biology Group, "Endothelial derived relaxing factor in control of BP and renal function"

WVU, Department of Medicine, Research Seminar. April 1991. "The mechanisms of evolution of age-dependent glomerular injury"

SUNY at Buffalo, Graduate Group in Experimental Nephrology. June 1991. "Effect of EDRF on the Kidney"

SmithKline Beecham Renal Division, King of Prussia, PA. May 1992. Research Seminars: 1) "Renal effects of acute and chronic EDRF blockade", 2) "Sex differences in progression of age-dependent glomerular damage"

Visiting Professor to Depts. Ob/Gyn and Medicine, University of Washington, Seattle, July 1992. Research Seminars: 1) "Control of GFR and mechanisms of progression of glomerular disease", 2) "Kidney function in Pregnancy", 3) "Renal effects of acute and chronic EDRF blockade"

WVU, Department of Physiology, August 1992. "The Ageing Kidney"

Visiting Professor to Semmelweis University, Medical School, Pathophysiology Institute, Budapest, Hungary. September 1992. Research Seminars: 1) "The kidney in normal and hypertensive pregnancy", 2) "EDRF and the Kidney"

WVU, Department of Pharmacology, September 1992. "Effects of Acute and Chronic EDRF Inhibition on the Kidney"

Department of Physiology and Biophysics, University of Mississippi at Jackson. December 1992. "EDRF and the Kidney"

Department of Physiology, University of Ohio, Columbus, December 1992. "EDRF and the Kidney"

WVU, Department of Obstetrics/Gynecology, Grand Rounds, December 1992. "The Kidney in Normotensive and Hypertensive Pregnancy; possible role for nitric oxide"

WVU, Department of Pathology, Research Seminar, January 1993. "Effects of Acute and Chronic Nitric Oxide Inhibition on Kidney Function", "Overview of Research Interests"

WVU, Endocrine Research Forum, January 1993. "The Kidney and Blood Pressure in Normal and Hypertensive Pregnancy: Possible Role for Nitric Oxide"

Renal Research Conference, March 1993. Department of Medicine, Royal North Shore Hospital, University of Sydney, Sydney, Australia. "Mechanisms of Age Dependent Damage to the Glomerulus"

General Grand Rounds, March 1993. Monash University Medical School, Melbourne, Australia. "Nitric Oxide in Normal and Preeclamptic Pregnancy"

Renal Conference, March 1993. Department of Medicine, St. Georges Hospital, Kagorah, Australia "Multiple Defects in the Ageing Kidney"

WVU Research Day, April 1993. "Nitric Oxide in Normal and Preeclamptic Pregnancy"

WVU Medicine Grand Rounds, June 1993 (given together with H. Overbeck, M.D.). "Essential Hypertension"

The University of Leeds, UK, Department of Physiology Seminar, July 1993. "Nitric Oxide in Control of Kidney Function and Blood Pressure. Importance in Pregnancy"

Tulane University, New Orleans, Department of Physiology Seminar, September 1993. "Effects of Acute and Chronic Nitric Oxide Blockade on BP and the Kidney"

Tulane University, New Orleans, Department of Medicine, Renal Rounds, September 1993. "Possible Role of Nitric Oxide Deficiency in Preeclampsia"

University of Louisville, Department of Physiology. Departmental Seminar. January 1994. "Nitric Oxide and the Kidney"

University of Pittsburgh, Department of Medicine, Division of Nephrology. May 1994.

Magee Womens Hospital and Department of Ob/Gyn, University of Pittsburgh. June 1994. Obstetrics Grand Rounds. "Nitric Oxide in Pregnancy".

West Virginia University, Department of Physiology seminar "Renin/All system and salt sensitivity in ageing". Sept 1994.

West Virginia University, Department of Pediatrics research Seminar on "NO; Physiology and Pathophysiology", Feb 1995.

Kobe University Medical School, Japan. Ob/Gyn Grand Rounds, "Nitric Oxide in Pregnancy". March 1995.

West Virginia University Research Day: Talk in the plenary session on "Basic and clinical research on NO", April 1995.

University of Cincinnati Medical School:
Nephrology Seminar "Renin/All and sodium sensitivity in ageing kidney"
Medicine Grand Rounds "Physiologic roles of NO in control of BP and kidney function; possible consequences of NO deficiency in hypertension and progressive renal disease"
Joint Physiology/Ob-GYN seminar "Nitric Oxide in Pregnancy". September, 1995.

Department of Physiological Sciences, University of Cork, Eire:
"Physiologic roles of NO in control of BP and kidney function". July 1995

Invited Seminar on "Age-dependent injury to the glomerulus" to aging research group, Picower Inst. NY., Oct 1995.

Medicine Grands Rounds, "Physiologic roles of NO in control of BP and kidney function; possible consequences of NO deficiency in hypertension and progressive renal disease". University South Carolina, Charleston, December 1995.

West Virginia University Department of Medicine, Morning Report on "The aging Kidney", Dec 1995

Obstetrics Grand Rounds "Nitric Oxide in Pregnancy"; Perinatal research Conference "Physiologic roles of NO in control of BP and kidney function"; Residents noon conference "Volume regulation in pregnancy". Cedars Sinai Medical School/UCLA, Department of Ob/Gyn, March 1996.

Research conference, San Francisco General / UCSF "Physiologic roles of NO in control of BP and kidney function". March 1996.

Seminar to Hypertension Research Group, Georgetown Univ Medical School "Physiologic roles of NO in control of BP and kidney function; possible consequences of NO deficiency". May 1996

Physiology Seminar, Georgetown Univ Medical School "The aging kidney". May 1996

Research Conference, Renal Division, George Washington University Medical School "Sexual dimorphism in kidney physiology and pathophysiology" May 1996.

Seminar on "Nitric Oxide in Pregnancy; possible role of NO deficiency in pre-eclampsia" to Nephrology/Obstetrics, University of Nuremberg, Germany, June 1996.

Seminar on "Physiologic roles of NO in control of BP and kidney function; role of the various NOS isoforms" to Nephrology, University of Erlangen, Germany, June 1996.

Seminar on "Physiologic roles of NO in control of BP and kidney function; role of the various NOS isoforms" Nephrology Division, University Medical School of Pecs, Hungary. Oct 1996.

Seminar on "Physiologic roles of NO in control of BP and kidney function; role of the various NOS isoforms" Department of Pathophysiology, Semmelweis Medical School, Budapest, Hungary. Oct 1996.

Seminar to WVU Endocrine Research Forum "Renal tubular adaptations to normal pregnancy". April 1997.

Benedum lecture on "Physiologic roles of NO in control of BP and kidney function; clinical situations of NO deficiency", WVU, April 1997.

Renal Grand Rounds on "The aging kidney" Dept Medicine, WVU. April 1997.

Pediatrics Grand Rounds on "Physiologic roles of NO in control of BP and kidney function; clinical situations of NO deficiency", University of Virginia, Charlottesville. Sept 1997.

Surgery Grand Rounds, WVU on "Clinical significance of the nitric oxide system" Nov 1997.

Renal Grand Rounds on "Nitric oxide deficiency in chronic renal disease" Dept Medicine, WVU. April 1998.

BAXTER Grantholders Meeting "Renin/angiotensin and sodium sensitivity in aging. Regulation of the nitric oxide (NO) system by dietary salt and age". May 1998

Physiology Department seminar, WVU. "Nitric oxide deficiency and renal disease" Sept 1998

Cardiology Grand Rounds, WVU "Endogenous NOS inhibitors in atherosclerosis" March 1999.

Nephrology Grand Rounds, WVU "The aging kidney" April 1999.

Joint seminar to Nephrology Division, Dept Medicine and Dept Integrative Biology, UT Houston "Nitric oxide deficiency and renal disease" September 1999.

Seminar to Physiology Department, University of North Carolina, Chapel Hill "Nitric oxide deficiency and renal disease" November 1999.

Seminar to Department of Physiology, Virginia Commonwealth University, Richmond, Va. "Renal hemodynamics in normal and compromised pregnancy: Role of NO". April 2000.

Nephrology Grand Rounds, WVU "Renal hemodynamics in normal and compromised pregnancy: Role of NO" May 2000.

Seminar to Vascular Biology Group, Medical College of Georgia "Nitric oxide deficiency and renal disease" October 2000.

Nephrology Grand Rounds, WVU "Nitric oxide deficiency and renal disease" April 2001.

Seminar to Department of Physiology, WVU "Mechanisms of age-dependent kidney disease; role for progressive NO deficiency" August 2001.

Seminar to Division of Nephrology, University of Pecs Medical school, Hungary "Mechanisms of age-dependent kidney disease; role for progressive NO deficiency" August 2001.

Renal Grand Rounds "The kidney in normal and compromised pregnancy" May 2002.

Physiology seminar, WVU "Role of the IMCD in the normal plasma volume expansion of pregnancy". Sept 2002

Renal Grand Rounds, Dept Medicine, Univ. Pittsburgh "Role of the IMCD in the normal plasma volume expansion of pregnancy". Sept 2002.

Renal Grand Rounds, UC Irvine "NO deficiency as a cause and a consequence of ESRD I. Clinical and cell culture studies; II Studies in animal models. April 2003.

Medicine Noon conference, Long Beach VA "The aging kidney" April 2003.

Renal Grand Rounds, UCLA/ Sepulveda "The aging kidney" May 2003.
Renal Grand Rounds, USC "NO deficiency in CRD; cause and consequence" May 2003.
Physiology Seminar, Eastern Virginia Medical School "NO deficiency in CRD; cause and consequence" June 2003.
Renal Grand Rounds, UPMC, Department of Medicine, Division of Nephrology "NO deficiency in CRD; cause and consequence" September 2003.
Physiology seminar, WVU "NO deficiency in CRD; cause and consequence" September 2003.
Renal Grand Rounds, Univ Florida, Gainesville "NO deficiency in CRD; cause and consequence" September 2003.
Physiology seminar, Univ Florida, Gainesville "Pregnancy and the kidney" September 2003.
Renal Grand Rounds, Georgetown Univ, Washington DC "NO deficiency in CRD; cause and consequence" October 2003.
Seminar to Cardiology Division, Emory University, Atlanta "NO deficiency in CRD; cause and consequence" January 2004.
Seminar to Nephrology Division, Univ. of Tel Aviv, Israel "NO deficiency in CRD; cause and consequence" March 2004
Seminar to Nephrology Division, Univ. Haifa, Israel "NO deficiency in CRD; cause and consequence" March 2004
Renal Grand Rounds, WVU "ADMA and cardiovascular risk; possible role in progression of CRD" May 2004.
Renal Grand Rounds, Univ Florida, Gainesville "ADMA and cardiovascular risk; possible role in progression of CRD" July 2004.

Other.

Med school 101. The kidney. WVU. Nov 1999.
Faculty development session on WVU Internal grants, with A Martin, CB Wilson, M Stamatakis. Sept 2000.

TEACHING:

At Manchester University, UK:

Tutor to a group of 10 first year Medical students. To meet once a week and discuss various areas of Physiology. 1980-81.
Lectures to Pharmacy students on 1) Gastrointestinal Physiology. 2) Renal Physiology. 1980.

At University of California, San Diego:

For the Department of Medicine

- 1) Part of the Renal Section to Medical students with D. Fanestil and S. Mendoza. 1984-87.
- 2) Part of the Renal/GI Advanced (Graduate/MD) studies section. 1986-87.

For the Department of Biology

- 1) Mammalian Physiology Laboratory Course #154 with A. Selveston. 22h contact time/week for 50% of one quarter. 1984-87.
- 2) Mammalian Physiology lecture Course #153. Renal Section. 1986.
- 3) Mammalian Physiology Laboratory Course #152 with G. Wienhausen. 1986. 22h/week contact time for 50% of one quarter.

At WVU, Department of Physiology/School of Medicine:

- 1) Renal Section of Physiology #343 for Dental students. 1987-1995.
- 2) Part of Cardiovascular section for Graduate students, #491 Advanced Physiology. 1988-89.
- 3) Part of Renal Section for advanced Graduate students, #491 Advanced Physiology. 1989-present. Course-Coordinator for Fall Adv. Physiol. 1990-2003.
- 4) Part of Renal Section for 1st year graduate physiology course, #350 section co-ordinator. 1995; 2002-2004.

- 5). Renal section for Human Physiology, 1995-2004t.
- 4) Faculty on Endocrine Postdoctoral Training Program, and Pharmacology Ph.D. training program, 1987-1994.
- 5) Member, Nephrology Fellowship Program, Department of Medicine, West Virginia University, 1990-2004.
- 6) Member, Pediatrics Fellowship Program, Department of Pediatrics, West Virginia University, 1992-1996.
- 7) Member, M.D., Ph.D. student committee, 1997-2002.

At UFL, Department of Physiology/School of Medicine:

- 1) Renal Section lectures and co-ordinator, Medical Physiology. 2004
- 2) Advanced Renal Physiology, lectures and co-ordinator. 2004

Thesis Committees:

Advisor

Karen Munger. Doctoral
 Shyama Masilamani. Doctoral
 Aihua Deng. Doctoral
 Changbin Qiu. Doctoral
 Joan Bloch. Masters
 Xiao Shen. Doctoral
 Beth Santymire. Doctoral
 Aaron Erdely. Doctoral.
 You-Lin Tain. Doctoral.

Committee Member

Daisy Shum. Masters
 Malay Dey. Doctoral
 John Rafi. Masters
 Geoff Nase. Doctoral
 Russ Linderman. Doctoral
 Lara Fizzell. Doctoral
 J.J. Ramirez. Doctoral
 Scott Caveney. Doctoral
 Jim Culhane. Doctoral
 Tim Nurcewitz. Doctoral.
 Bryan Sauls. Doctoral.
 Debra Lenda. Doctoral.
 Koby Mok. Doctoral at Georgetown Univ, Dept Physiol.
 Y Zhou, External Examiner for Doctoral thesis, University of New South Wales, Australia.
 Emily Spangler. Doctoral.

SERVICE COMMITMENTS

At UCSD: Member of Physiology/Pharmacology Graduate Faculty for School of Medicine

At WVU:

Departmental: Graduate studies committee from July 1988-Sept 1996. Chair, July 1, 1990 - June 30, 1992.
 Organizer of Spring Semester Physiology Seminar Series, 1993-2000
 Course Coordinator Advanced Physiology, Fall Semester, 1992-present
 Member, Departmental Budget Committee, 2002-present
 Promotion and Tenure Committee, July 1997-present.

School of Medicine: Judge for Van Liere Research Convocation, 1988, 1997.
Member of the Search Committee for a new Dean for the Medical School, May 1988 - Nov. 1988
Graduate Student Recruiting Committee, Dec. 1988 - Dec. 1990
Basic Science Geriatric Research Committee, April 1989 - 1994
Advisory Committee for Minority High School Student Apprentice Program. April 1989 - 1998, Chair, 1993 - 1997.
Clinical Research Center Development Committee, February 1989 - 1990
Subcommittee on Tenure Track Guidelines, August 1989
Member of Search Committee for Cancer Center faculty appointments. Sept. 1990 - March 1991
Member of Search Committee for Physiology Chair. June 1992 - March 1993
Member, Research Advisory Committee for Mary Babb Randolph Cancer Center, April 1994- 1997.
Chair, cardiovascular/renal research planning group, August 1994-present
Member, Search Committee Cardiology, Dept Medicine, 1995.
Member of Search Committee for Cardiology Faculty, Dept Medicine. July-Sept 1995
Member of Search Committee for Vascular Surgery Faculty. Sept 1996 - 1997.
Member of the WVU HSC Research Renaissance Task Force, 1997-1998
Chair, Research design Team for the MBM process at WVU SOM, 1999.
Member, Women in Academic Medicine, 2000-2001.
Member, RDG Committee 2002-2004, WVU.

At UFL

Director, UF Hypertension Center. 2004.

WVU

Member of the University Faculty Senate, 1999 -2002
Member of the Senate research grants committee, 1999 -2002 .
Chair 2000-2001.
Member of the Benedum awards committee, 1997. Chair of Biosciences subcommittee, 1999/2000.
Member, Review Committee for Masters Program in Animal Science, Division of Animal and Veterinary Sciences. School of Agriculture. 1999/2000
Member, Radiation safety, Non human use committee. 2003-

State:

Member, Research Policy and Allocation Committee, AHA-WV Affiliate.
Vice Chair, July 1995-June 1996.
Member, Research Peer Review Committee for Ohio-WV affiliate of AHA, 1996-1997.

National:

Reviewer for ASN Annual meeting, 1984, 1986, 1990, 1991,1994,1996 and 1997,2000. Section chair, 1991,1996,1997,2000, 2002.
Councillor, Women in Nephrology, 1991 -1994
Member, NIH Study Section, CVB, 1990-1994
Member VA merit review study section 2000-2002
Chair, VA merit review study section 2002-2003
Member NIH Study Section, GMB, 2003 – 2007
Ad hoc reviewer for other NIH study sections, PPGs, K08s etc 1988 – present.
Member, ASN State network public policy group, representative for WV, 1990-2000

Member, APS Renal Section Awards Committee for the 1993 Experimental Biology meeting (New Orleans)
Member, ASN Young Investigator Award Committee for 1993. AHA Kidney Council Representative.
Member, Organizing Committee, FASEB Summer Conference on Renal Hemodynamics for 1995.
Member, ASN Nominations Committee for 1995.
Member, Advisory Panel on Cardiovascular Aging, NIA/NIH 1995
Member, ASN Career Enhancement Grant Review Committee for 1996,1997.
Member, ASN Awards Committee, 1998 - 2001
Member of the APS Renal Section program committee, 1999 – 2000
Chair, APS Renal Section program committee, 2001.
Member of the APS Renal Section Young Invest award committee, 2000.
Member, American Society of Nephrology, Board of Advisors, 2003-5
Member, US Scientific Program Committee for IUPS 2005., 2003-5

International:

Chairman, Internal Audit Committee, International Society for Study of Hypertension in Pregnancy, ISSHP, 1990
Member of the Nominations Committee, International Society for the Study of Hypertension in Pregnancy (ISSHP), 1991-92
Member of the International Scientific Committee for 1994 ISSHP (Sydney, Australia).
Member of the International Scientific Committee for 1994 International Society of Hypertension (Melbourne, Australia)
Member of the International Scientific Committee for 1996 ISSHP (Seattle, USA).
Member of Advisory Board on “Chronic renal injury”, Hoffman La Roche, Basel, Switzerland. 1999

Institutional Grant Applications:

Established Investigator, Department of Pediatrics “Pediatrician Scientist Training Award” application to NIH, 1990
Co-Investigator on Department of Anatomy/School of Medicine, Shared Image Analysis Facility Application to NIH, 1991.
Co-Investigator on School of Medicine, NIH Construction Grant application, 1992
Co-Investigator on School of Medicine, IDeA application to NIH, 1993
Co-Investigator on Department of Medicine, CRC application to NIH, 1993, 1994,1995.
Co-Investigator on Department of Ob/Gyn, PERC application to NIH, 1994,1995.
Co-Director on School of Medicine “High School Apprentice Program” application to NIH, 1994 and 1997.

BIBLIOGRAPHY

I. Original Articles

1. Baylis C. The urinary excretion of potassium by the conscious dog. Ph.D. thesis. University of Leeds, 1974.
2. Baylis C, O'Connor, WJ. The effect of plasma potassium in determining normal rates of excretion of potassium in the dog. *Quart J Exp Physiol.* 61:145-157, 1976.
3. Baylis C, O'Connor WJ. The effect of the anions, phosphate and sulphate on normal rates of excretion of potassium in dogs. *Quart J Exp Physiol.* 1:341-350, 1976.
4. Baylis C, Deen WM, Myers BD, Brenner BM. Effects of some vasodilator drugs on transcapillary fluid exchange in renal cortex. *Am J Physiol.* 230:1148-1158, 1976.
5. Baylis C, Ichikawa I, Willis WT, Wilson CB, Brenner BM. Dynamics of glomerular ultrafiltration. IX. Effects of plasma protein concentration. *Am J Physiol.* 232:F58-F71, 1977.
6. Bohrer MP, Baylis C, Robertson CR, Brenner BM. Mechanisms of the puromycin induced defects in the transglomerular passage of water and macromolecules. *J Clin Invest.* 60:152-160, 1977.
7. Baylis C, Rennke HG, Brenner BM. Mechanisms of the gentamicin induced defect in glomerular filtration in the Munich-Wistar rat. *Kidney Int.* 12:344-353, 1977.
8. Bohrer MP, Baylis C, Humes HD, Glasscock RJ, Robertson CR, Brenner BM. Permeability of the glomerular capillary wall. Facilitated filtration of circulating polycations. *J Clin Invest.* 61:72-78, 1978.
9. Baylis C, Brenner BM. Modulation by prostaglandin synthesis inhibitors of the action of exogenous angiotensin II on glomerular ultrafiltration in the rat. *Circ Res.* 43:889-898, 1978.
10. Baylis C, Brenner BM. Mechanism of the glucocorticoid-induced increase in glomerular filtration rate. *Am J Physiol.* 234:F166-F170, 1978.
11. Baylis C. The mechanism of the decline in glomerular filtration rate in gentamicin-induced acute renal failure in the rat. *J Antimicrob Chemother.* 6:381-388, 1980.
12. Baylis C. The mechanism of the increase in glomerular filtration rate in the 12-day pregnant rat. *J Physiol.* 305:404-414, 1980.
13. Baylis C. Effect of imadazole on the dynamics of glomerular ultrafiltration in the rat. *Renal Physiol.* 2:278-288, 1979-80.
14. Baylis C. Effect of early pregnancy on glomerular filtration rate and plasma volume in the rat. *Renal Physiol.* 2:333-339, 1979-80.
15. Baylis C. Glomerular ultrafiltration in the pseudopregnant rat. *Am J Physiol.* 243:F300-F305, 1982.
16. Shum DKY, Baylis C, Scott JE. Glomerular and tubular handling of acidic glycosaminoglycans (AGAGS) by the rat kidney. *Clinical Science*, 64:205-212, 1984.
17. Badr KF, Baylis C, Pfeffer JM, Pfeffer MA, Soberman RJ, Lewis AR, Austen KF, Corey EJ, Brenner BM. Renal and systemic hemodynamic responses to intravenous infusion of leukotriene C₄ in the rat. *Circ Res.* 54:492-499, 1984.
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19. Baylis C, Badr KF, Collins RC. Effect of chronic prolactin administration on renal hemodynamics in the rat. *Endocrinology.* 117:722-729, 1985.
20. Baylis C, Blantz RC. Tubuloglomerular feedback activity in virgin and 12 day pregnant rats. *Am J Physiol.* 249:F169-F173, 1985.
21. Baylis C and Collins RC. Angiotensin II inhibition on blood pressure and renal hemodynamics in pregnant rats. *Am J Physiol.* 250:F308-F314, 1986.
22. Gehrig JJ, Jamison RL, Baylis C, Troy JL, Brenner BM, Jamison RL. Effect of intermittent feeding on renal hemodynamics in conscious rats. *Am J Physiol* 250:F566-F572, 1986.
23. Garland HO, Atherton JC, Baylis C, Morgan MRA, Milne CM. Hormone profiles for progesterone, oestradiol, prolactin, plasma renin activity, aldosterone and corticosterone during pregnancy and pseudopregnancy in two strains of rats: Correlation with renal studies. *J Endocrinology.* 113:435-444, 1987.
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25. Baylis C. Effects of administered thromboxanes on the intact, normal rat kidney. *Renal Physiol.* 10:110-121, 1987.
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28. Baylis C, Falconer-Smith J, Ross BD. Glomerular and tubular handling of differently charged human light-chain proteins by the rat kidney. *Clin Sci.* 74:639-644, 1988.
29. Baylis C. Effect of amino acid infusion as an index of renal vasodilatory capacity in pregnant rats. *Am J Physiol.* 254:F650-F656, 1988.
30. Baylis C, Fredericks M, Leyboldt K, Frigon R, Wilson C, Henderson L. Mechanisms of proteinuria in aging rats. *Mech Age and Dev.* 45:111-126, 1988.
31. Baylis C, Reese K, Wilson CB. Glomerular effects of pregnancy in a model of glomerulonephritis (GN) in the rat. *Am J Kidney Dis.* 14:452-460, 1989.
32. Baylis C. Gentamicin-induced glomerulotoxicity in the pregnant rat. *Am J Kidney Dis.* 13:108-113, 1989.
33. Munger K, Mitchell M, Baylis C. Differences between the sexes and the effects of surgery and anesthesia on the urinary excretion rate of eicosinoids in the rat. *Prostaglandins.* 37:379-388, 1989.
34. Baylis C, Wilson CB. Sex and the single kidney. *Am J Kidney Dis.* 13:290-298, 1989.
35. Baylis C. Immediate and long term renal effects of pregnancy in the spontaneously hypertensive rat (SHR). (F Series). *Am J Physiol.* 257:F1140-F1145, 1989.
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39. Baylis C, Brango C, Engels K. Renal effects of moderate hemorrhage in the pregnant rat. *Am J Physiol.* 259:F945-F949, 1990.
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47. Reckelhoff JF, Yokota S, Baylis C. Autoregulation of renal blood flow in midterm and late-pregnant rats. *Am. J. Obstet. Gynecol.* 166:1546-1550, 1992.
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CURRENT FUNDING AND RESEARCH PROJECTS

NIH RO1 DK 45517: PI. \$154,000/yr (direct) 1992-2004

"Endothelial Derived Relaxing Factor, EDRF and the Kidney" Agency:

National Institute of Diabetes and Digestive and kidney Diseases.

Major goals; to investigate the physiologic control of glomerular hemodynamics by endogenous nitric oxide and interactions between NO and other vasoactive control systems. Also, to investigate various aspects of the systemic and renal responses to chronic NO synthesis inhibition.

NIH R01 DK 56843: PI. \$154,000/yr (direct) 2001-2005

"Nitric oxide in chronic renal disease" Agency: National Institute of Diabetes and Digestive and kidney Diseases.

Major goal; to use a number of animal models of chronic progressive renal disease and determine the contribution to progression played by NO deficiency that occurs secondary to loss of renal function.

Biopure Corp. Contract. PI. Total \$36,379 (direct) 2002-2004

"To investigate effects of HBOC-201 blood substitute on renal function in a rat model of chronic renal disease". Agency: Biopure

Corp. Studies requested by the FDA to assess the safety of repeated infusions of blood substitute, on renal function in rats with 5/6 reduction of renal mass.

NIH R01 NIDDK/NICHD. \$250,000/yr direct 2004 - 2009

"IMCD phosphodiesterase in pregnancy; role in ECFVE " Agency: NICHD.

Major Goal: to investigate the role of increased PDE5 activity in the inner medulla in the plasma volume expansion of normal rat pregnancy.