

NOREEN F. ROSSI, M.D., F.A.C.P.

Track: Research Educator – tenured

Office Address: Depts of Medicine and Physiology
Division of Nephrology
4160 John R, No. 908
Detroit, Michigan 48201
Phone (313) 745-7145
FAX (313) 745-8041

EDUCATION

1970 - 1974 B.S. degree, summa cum laude, chemistry
University of Detroit, Detroit, Michigan

1974 - 1978 M.D. degree, medicine
Yale University School of Medicine, New Haven, Connecticut

TRAINING

1978 - 1979 Internship, Internal Medicine, Department of Medicine
Vanderbilt University Hospitals, Nashville, Tennessee

1979 - 1981 Residency, Internal Medicine, Department of Medicine
Vanderbilt University Hospitals, Nashville, Tennessee

1981 - 1982 Clinical Fellowship, Nephrology, Division of Renal Diseases
University of Colorado HSC, Denver, Colorado

1982 - 1985 Research Fellowship, Nephrology, Division of Renal Diseases
University of Colorado HSC, Denver, Colorado

FACULTY APPOINTMENTS

1985 - 1987 Instructor, Department of Medicine, Wayne State University, Detroit, MI

1987 - 1994 Assistant Professor of Medicine, Division of Nephrology, Department of Medicine
Wayne State University, Detroit, MI

1988 - present Associate Member of the Graduate Faculty, Department of Physiology,
Wayne State University, Detroit, MI

1991 - present Staff Physician, Division of Nephrology
Veterans Administration Medical Center, Allen Park, MI

1994 - 2001 Associate Professor of Medicine (tenured 1999), Division of Nephrology
Department of Medicine, Wayne State University and John D. Dingell VAMC, Detroit, MI

2001 –present Professor (tenured), Department of Medicine, Wayne State University

ADMINISTRATIVE APPOINTMENTS

2003 – present Program Director, Nephrology Fellowship Program
Detroit Medical Center and Wayne State University

2005 – present Assistant Dean for Clinical Research
Wayne State University School of Medicine, Detroit, MI

HOSPITAL and PROFESSIONAL APPOINTMENTS

1984	Physician-in-Charge, Denver County Jail Denver, Colorado
1985 - present	Staff Physician, Internal Medicine and Nephrology Detroit Medical Center, Detroit, Michigan
1985 - 1996	Director, General Nephrology Clinic for Fellows University Health Sciences Center, Detroit, Michigan
1991 - 1996	Staff Physician, Internal Medicine and Nephrology Veterans Administration Medical Center, Allen Park, Michigan
1996 - present	Staff Physician, Internal Medicine and Nephrology John D. Dingell VA Medical Center, Detroit, Michigan

PROFESSIONAL SOCIETIES

American Association for the Advancement of Sciences
 American Federation for Clinical Research (Midwestern)
 American Physiological Society
 American Society of Nephrology
 American Society for Pharmacology and Experimental Therapeutics
 International Society of Nephrology
 Kidney Council, American Heart Association
 National Kidney Foundation
 Society for Neuroscience
 The Detroit Physiological Society
 Women in Nephrology

LICENSURE and BOARD CERTIFICATION

Licensure:	Michigan
1979	Diplomate, National Board of Medical Examiners
1985	Diplomate, American Board of Internal Medicine, Internal Medicine
1986	Diplomate, American Board of Internal Medicine, Nephrology
1997	Fellow, American Board of Internal Medicine
2007	Fellow, American Society of Nephrology

HONORS and AWARDS - Undergraduate and Medical School

University of Detroit Woman of the Year, 1972
 Who's Who in American Colleges and Universities, 1974
 American Chemical Society Award, 1974
 Alpha Sigma Nu Honor Society, 1973-present (President, 1974)
 Summa cum Laude, 1974
 Alpha Epsilon Delta Award, 1974
 Michigan Scholastic Scholarship, 1970-1974
 Father Hughes Scholarship, 1970-1974

HONORS and AWARDS - Postgraduate

National Institutes of Health Research Fellowship Award, 1982-1984
 National Kidney Foundation of Michigan, Distinguished Service Award for Research, 1996
 Wayne State University School of Medicine Teaching Award, 1997, 2001 and 2005
 American Medical Women's Association Gender Equity Award, 1997
 Fellow, American College of Physicians, 1997
 University of Detroit Mercy Science Alumnus/a of the Year, 2004

SERVICEPatient Care

1985 - present Nephrology Clinic, Thursday AM, Harper Professional Bldg. 917
 (4 hrs direct patient care plus 4 hr follow-up; 48 weeks/yr)

1991 -1997, Nephrology Consult and Outpatient Dialysis, VA Hospital
 1999 (6 hr direct patient care/day x 6 days/wk x 2 months/yr)

1991 - 2000 Medicine Inpatient Service, VA Hospital
 (3-4 hr direct patient care/day x 7 days/wk x 1 month/yr)

1992 - 1998 Ethics Consult Service, Harper Hospital
 (3-4 months/year, highly variable contact)

1997 - 2000 Nephrology Consult Service, Harper Hospital and Detroit Receiving Hospital
 (6 hr direct patient care/day x 7 days/wk x 2 months/yr)

1997 - present Nephrology Consult Service, Harper Hospital, DRH, VA and Hutzel Hospitals
 (14 hr/month x 11 months/yr; weekend coverage)

2001-2007 Nephrology Consult Service, Harper Hospital and Detroit Receiving Hospital
 (6 hr direct patient care/day x 7 days/wk x 1 months/yr)

2001-2003 Medicine Inpatient Service, VA Hospital
 (3-4 hr direct patient care/day x 7 days/wk x 1 month/yr)

2002-2006 Nephrology Consult and Outpatient Dialysis, VA Hospital
 (6 hr direct patient care/day x 6 days/wk x 2 months/yr)

Journal and Editorial Activities

1996 - 2002 Reviewer, *Journal of the American Society of Nephrology*
 Reviewer, *Journal of Hypertension*
 Reviewer, *American Journal of Kidney Diseases*
 Reviewer, *American Journal of Applied Physiology*
 Reviewer, *Neuropharmacology*
 Reviewer, *American Journal of Physiology*
 Reviewer, *British Journal of Pharmacology*

2003-2006 Reviewer, *Circulation Research*
 Reviewer, *Regulatory Peptides*
 Reviewer, *American Journal of Physiology (Heart and Circ; Endo; Int Comp and Reg)*
 Reviewer, *Neuroscience Letters*
 Reviewer, *Neuroendocrinology*
 Reviewer, *Experimental Biology and Medicine*
 Reviewer, *Review of Chronic Kidney Disease*

Reviewer, *BMC Nephrology*
 Reviewer, *Journal of Cardiovascular Pharmacology*
 Reviewer, *Journal of the Neurological Sciences*

Grant Review Activities

1989 – 1998, 2000-2003, 2005 Research and Fellowship Committee, National Kidney Foundation of Michigan (Chair, 1992 – 1995; Co-chair for external reviews, 2000-2003 & 2005)

1993 Endocrinology Study Section, VA Merit Review (External Reviewer),

1999 NIH Study Section: Integrative, Functional and Cognitive Behaviors, ZRG1-IFCN-2 (ad hoc)
 2000 NIH Study Section: Integrative, Functional and Cognitive Behaviors, ZRG1-IFCN-2 (ad hoc)

1999 Endocrinology Study Section, VA Merit Review (Ad Hoc)

2000 Cardiovascular Study Section, VA Merit Review (External Reviewer)

2001-2003 Renal Study Section, VA Career Development Grants

2005 Henry Ford Hospital

2006 Endocrinology Study Section: VA Merit Review

State and Local Boards and Committees

Department/School/University

1991 - 1992 Research Committee

1993 - present Department of Internal Medicine, Wayne State University

1992 Research Space Utilization Committee
 Department of Internal Medicine, Wayne State University

1996 Task Force for Evaluation of Research Excellence
 Department of Internal Medicine, Wayne State University

1996 Task Force for Faculty Mentoring
 Department of Internal Medicine, Wayne State University

1996 & 1997 Promotion and Tenure Committee, Advisory Member
 Department of Internal Medicine, Wayne State University

1996 - 1999 President's Commission on Status of Women
 1997 - 1999 Commission Subcommittee on Health Sciences, Wayne State University

1998 - 2001 Wayne State University Academic Senate
 Representative, School of Medicine

1998 Chair, Implementation Team for Faculty Effort/Commitment to Research
 Department of Internal Medicine

1998 Wayne State University. Dept. of Medicine Representative
 Am. Association of Medical Colleges, Workshop for Senior Women in Medicine

- 1998 – 1999 Five-year Review Committee, Dept. of Ophthalmology, Wayne State University
Chair, Subcommittee for Review of Educational Program
- 1998 – present Co-Director, Summer Research Program for WSU Medical Students
School of Medicine, Wayne State University
- 1999 - 2004 Chair, Committee for Assignment and Evaluation of Research Protected Time
Department of Internal Medicine, Wayne State University
- 1999 - 2004 Committee for Mentoring of Research Faculty
Department of Internal Medicine, Wayne State University
- 2000 – 2001 Subcommittee on Faculty Affairs
Panel for Evaluation of Engineering and Computer Science
Wayne State University Academic Senate
- 2000 – present Committee for Professional Conduct
Department of Internal Medicine, Wayne State University
- 2001-2002 &
2004-2005 Promotion and Tenure Committee, tenured elected member
Department of Internal Medicine
- 2001 Intramural Grant Committee, Wayne State University (main campus)
- 2002-2006 Promotions Committee (for medical students), Wayne State University School of Medicine
- 2002– 2005 Executive Committee of the Faculty Senate, Wayne State University School of Medicine
- 2003-present Faculty Development Council, School of Medicine, Wayne State University
- 2003-2004 Task Force for Clinician Educator Track Criteria, School of Medicine, Wayne State University
- 2004- 2005 Search Committee for Division Head Hematology/Oncology,
Department of Internal Medicine, Wayne State University
- 2004- 2005 Research and Development Committee, Wayne State University School of Medicine
Liaison to the Executive Committee
- 2005-2008 Hearing Panel, Wayne State University (University Panel)
- 2005-present Steering Committee, MD/PhD Program, Wayne State University School of Medicine
- 2006 Search Committee, Vice President for Research, Wayne State University

Veterans Administration Committees

- 1993 Administrative Board of Investigation
Department of Veterans Affairs, Allen Park, Michigan
- 1994 - 1998 Biohazard Committee
Department of Veterans Affairs, Detroit, Michigan
- 1994 - 2000 Research and Development Committee
2002 – 2004 Department of Veterans Affairs, Detroit, Michigan

2006 - present Root Cause Analysis Task Force on Vancomycin Dosing

Hospital/DMC Committees

1988 - 1997 Internal Review Board, Human Research
Harper Hospital, Detroit, Michigan

1990 - 1998 Ethics Committee
1993 - 1995 Co-Chairperson, Harper Hospital
1995 - 1998 Vice-Chairperson, Harper Hospital

1990 - 1992 Clinical Operations Committee, Affiliated Internists
1991 - 1995 Diabetes Committee, Detroit Medical Center

1993 - 1994 Legal Conference Planning Committee, Harper Hospital

1998 – 2000 Board of Directors (elected), Institute for Hematology-Oncology and Allied Diseases
Karmanos Cancer Center

Professional Boards or Committees at other Universities

1986 - 2003 Internal Review Board (Human Investigation)
University of Detroit Mercy, Detroit, Michigan

1988 - present Scientific Advisory Board
National Kidney Foundation of Michigan

1992 - 1995 Executive Committee to the Scientific Advisory Board
National Kidney Foundation of Michigan

1993 - present Dean's Advisory Board, University of Detroit Mercy
School of Engineering and Science, Detroit, Michigan
1995 - 1996 Vice-chairperson
1996 - present Chairperson

1995 - 2000 Director, Pre-professional Student Mentoring Program
School of Engineering and Science, University of Detroit Mercy

1998 –1999 American Society of Physiology
National Task Force for Development of Renal Physiology Curriculum

2003 - present Member, Board of Directors, Michigan Society for Medical Research

Community Service

1993 - 1995 Advisory Board, Committee on Substance Abuse
Detroit Pastoral Alliance, Detroit, Michigan

1993 - 1994 Advisory Board, Rainbow House
Center for Dissociative Disorders, Taylor, Michigan

TEACHING

1982 - 1984 University of Colorado Health Sciences Center

1985 - present Wayne State University

Doctoral Dissertation Committee Membership

1988 - 1991 Theresa Dombi, Dept. of Physiology
Advisor, Paul C. Churchill; Degree conferred May, 1991

1999 - 2000 Robert Hammond, Dept. of Physiology
Advisor, Donal S. O'Leary; Degree conferred April, 2000

1998 - 2000 Amy Kitchen, Dept. of Physiology
Advisor, Donal S. O'Leary; Degree conferred August, 2000

1999 – 2000 Robert A. Augustyniak, Dept. of Physiology
Advisor, Donal S. O'Leary; Degree conferred December, 2000

2000 - 2002 Eric Ansorge, Dept. of Physiology
Advisor, Donal S. O'Leary; Degree conferred December, 2002

2001 Jian Shen, Dept. of Biochemistry
Graduate Examiner for dissertation defense
Advisor, Barry Rosen; Degree conferred September, 2002

2002 –2004 Jong Hyung Kim, Dept. of Physiology
Advisor, Donal S. O'Leary; Degree conferred December, 2004

2002-2004 Javier A. Sala Mercado, Dept. of Physiology
Advisor, Donal S. O'Leary; Degree conferred December, 2004

2003- present Katherine Massey, Dept. of Physiology
Advisor, Douglas Yingst

2004 - 2005 Heather Montie, Dept. of Physiology
Advisor, Donald DeGracia; Degree conferred May, 2005

2007 – present Matthew Coutsos, Dept. of Physiology
Advisor, Donal S. O'Leary

Masters Essay Committee Membership

1996 Robert A. Augustiniak, Dept. of Physiology, Advisor, Donal S. O'Leary
Degree conferred June, 1996

1999 Darlene S. Kassab, Dept. of Physiology, Advisor, Joseph P. Dunbar
Degree conferred June, 1999 (M.D. with distinction conferred June, 2003)

2002 Megan Duffy, Dept. of Physiology, Advisor, Noreen F. Rossi
Degree conferred June, 2003

2003-2004 Susie Namo, Dept. of Physiology, Advisor, Noreen F. Rossi
Degree conferred June, 2004

- 2004 Jennifer Gutwald, Dept. of Physiology, Advisor, Noreen F. Rossi
Degree conferred Dec., 2004
- 2005 Nadia Obeid, Dept. of Physiology, Advisor, Joseph Dunbar
Degree conferred -
- 2005 Bisi Alli, Dept. of Physiology, Advisor, James Rillema
Degree conferred

Research Advisor

- 1991 Ayub Akbari, M.D., Resident, Dept. of Medicine
Project: Effect of endothelin 3 on free water excretion in response to endogenously stimulated AVP secretion
Currently Assistant Professor of Medicine, University of Ottawa, Canada
- 1993 G.V. Ramesh Prasad, M.D., Resident, Dept. of Medicine
Project: Intracerebral endothelin 1 potentiates the effect of osmotic stimulation on AVP release in conscious rats
Currently Assistant Professor, Renal Transplant Service, University of Toronto, Canada
- 1997** Ryan Fringer, WSMS II
Mark Sochor, WSMS III
Project: Prognostic Value of Cardiac Troponins I and C in CRF Patients
- 1998 - 1999 Nkie Forsac, M.D., Fellow in Nephrology
Manjit Grewal, M.D., Fellow in Nephrology
- 1998 - 1999 Feng Zheng, Ph.D., WSMS III
Project: VP mRNA expression in rats treated chronically with icv endothelin
- 1999 –2000 Sunanda Jain, M.D., Fellow in Nephrology
Projects: Effect of estrogen on bone disease in women with ESRD
leptin levels in ESRD patients with pica
- 1999 –2001 Ghazwan Al-Tabba , M.D. Fellow in Nephrology
Project: Angiotensin II regulation of Na,K-ATPase
Currently Assistant Professor of Medicine, University of Calgary, Canada
- 2000-2001 Vinay Pampati, Graduate Student in Physiology (master's)
Project: Endothelin 1 effects on renal blood flow
- 2001 Diana Caragianou, WSMS I
Summer Alumni Research Program: Angiotensin II and Na,K-ATPase in renal tubules
- 2002 John Fallucca, WSMS I
Summer Alumni Research Program: Effect of chronic treatment of diabetic rats with angiotensin blockers on baroreflex activity
- 2002 Brett Plattner, WSMS I
Summer Alumni Research Program: Effect of angiotensin II on the calcium transient in renal tubules
- 2005 Rehman Shehzad, M.D. Fellow in Nephrology

Project: Bleeding complications in dialysis patients on anticoagulation medication

2006 Karan Singh, WS undergraduate students

Project: Salt sensitive hypertension post nephrectomy in offspring of maternal rats with different protein intakes

Case Report Advisor

1993 G.V. Ramesh Prasad, M.D., Resident, Dept. of Medicine
Arsenic associated tubulo-interstitial renal disease (published)

1994 Robert Chang, M.D., Fellow in Nephrology, Dept. of Medicine
Dissecting aneurysm with cocaine use (published)

1997 Reza Marwali, M.D., Resident, Dept. of Medicine
Multiple arterial aneurysms in Ask-Upmark Kidney (presented, ACP; published)
Currently Postdoctoral Fellow, British Columbia Cancer Research Center, BC, Canada

2004-2005 Atul Singh, M.D., Fellow in Nephrology
Anti-CD20 therapy for type I cryoglobulinemia and glomerulonephritis
Currently Assistant Professor of Medicine, Wayne State University, Detroit, Michigan

Mentorships

1997-1999 Elizabeth Marriott, undergraduate premedical student, University of Detroit Mercy
currently, resident in neurology at Loyola School of Medicine)

1993 - 1998 GV Ramesh Prasad, M.D., post graduate fellow in nephrology U. Pittsburgh
Currently Assistant Professor at U. Toronto Medical Center

1998 - 2000 Sunanda Jain, M.D., Fellow in Nephrology, Dept. of Medicine

1998 - present Madumita Jena Mohanty, M.D., Assistant Professor, Dept. of Medicine
Official Mentor on Merit II VA grant

1999 – 2001 Ghazwan Al-Tabbaa, M.D., Fellow in Nephrology, Dept. of Medicine

2000 – 2005 Heidi Collins, Ph.D., Assistant Professor, Dept. of Physiology
Co-mentor for K23 NIH Grant (funded 2001)

2000 – 2002 Prinz Sidhu, M.D., Fellow in Nephrology, Dept. of Medicine

2001- 2003 Sreetha Penumalee, M.D. Fellow in Nephrology, Dept. of Medicine

2002- 2004 Jerry Brewer, WSMS II IV (ranks 11th in class of 278),
proceeded to internship at Yale 2004, dermatology residency at Mayo Clinic

2002-2005 John Fallucca, WSMS II-IV (ranks in top 20 in class of 260)
proceeded to residency in Diagnostic Radiology at Henry Ford Hospital,

2003-2005 Tariq Shafi, MD, Assistant Professor of Medicine, Dept. of Medicine
proceeded to fellowship in Nephrology at Johns Hopkins University

2005- present Anna Liza Valina, WSMS MD-PhD student

2006-present JaVar Myatt Jones, WSMS, Doris Duke recipient

Courses at WSU School of Medicine*

1986 - 2004 alternate years	Physiology 7500, Developmental Physiology (6 contact hr/yr, 30 students)
1985 - 1992, 1995-1999,2002	Year II, Physical Diagnosis (15 contact hr/yr, 2 students)
1985 – 2005	Year II, Renal Pathophysiology Seminars (8.5 contact hr/yr, 20-40 students)
1986 - 1994	Year III, Renal Seminars (24 contact hr/yr, 12 students)
1985 – 1991	Year IV, Bedside Nephrology Teaching Rounds (40 contact hr/yr, 1-3 students)
1997 - 2002	
1991 - 1992	National Board Review Course (1 contact hr/yr)
1992	Post baccalaureate Program, Renal Physiology (8 contact hr/yr, 10 students)
1993	Year I, Medical Physiology (Renal Section, 15 contact hr/yr, 250 students)
1993	Physiology 703, Graduate Physiology (7 contact hr/yr, 5 students)
1993 - 2007	Year II, Renal Pathophysiology, Acid-Base Disorders (2 contact hr/yr, 250 students)
1994 - 1995	Year II, Medical Ethics Seminar (4 contact hr/yr, 12 students)
1995 - 2006	Pathology 6500, Systemic Pathology (3 contact hr/yr, 50 students)
1996 - 2007	Year II, Renal Pathophysiology, Dilution-Concentration (1.5 contact hr/yr, 250 medical students)
1996, 1998	Physician Assistant Nephrology Curriculum , Acute Renal Failure (2 contact hr/yr, 60 students)
1999, 2001, 2003 2005	Physiology 7550, Advanced Renal Physiology (28 contact hr/yr, 3-6 grad students)
2000 - 2004	Physiology 7030/7031, Core Renal Physiology (10 contact hr/yr, 50-70 grad students)
2000 – 2007	Year I, Renal Physiology (15 contact hr/yr, 250 med students + 20 contact hrs for Q&A)
2000 – 2004	Physiology 7040, Renal Section (3 contact hr/yr, 12 grad students)
2000 – 2003	USMLE Board Review (1 contact hr/yr, 20-30 students)
2002	PSL 7600, Advanced Cardiovascular Physiology (2 contact hr/yr, 5 students)
2004	PTH 8070 Pathology of Diabetes, (1 contact hr/yr, 20 students)
2004 – 2005	Year II Summer Program, Clinical Correlations (1 contact hr/yr, 25 students)
2006	BMS 6030 Responsible Conduct in Research, Clinical Research (1 contact hr/yr)

*Exams written for all the above courses except USMLE Board Review

Course Director

2003	Physiology 7550, Advanced Renal Physiology (28 contact hr/yr, 3-6 grad students)
------	--

Residency/Fellowship Program

1985 - 1990	Nephrology Consult Teaching Rounds, Harper/Detroit Receiving Hospitals
1997-2005	(4 contact hr/day x 1-2 months/yr; 2 fellows, 2 residents, 1-2 students)
1998 –2005	Nephrology Consult Teaching Rounds, Harper/Detroit Receiving Hospitals
	(6 contact hr/day x 2 days/month; 1 fellow, 1-2 residents, 1-2 students)
1985 - 1997	Core Curriculum: Na and H ₂ O Metabolism (12 contact hr/yr, 4-5 residents/hr)
1991 - 1993	Medicine Board Rev: Potassium, Sodium and Water Metabolism
1993 & 1998	OHEP Med. Rev: Disturbances of Na and Water (1 contact hr/yr, 200 attendees)
1994 - 1999	Core Curriculum: Acid-Base Disturbances (12 contact hr/yr, 4-5 residents/hr)
1994 - 1999	Basic and Advanced Renal Physiology for Fellows (40 contact hr/yr, 5-6 fellows)
1995 - 1996	Lupus Nephritis for Rheumatology Fellows (2 contact hr/yr, 6 fellows)

1995- 1997, 1999 - 2000	OHEP Medicine Rev: Disturbances of Acid Base Balance (1 contact hr/yr, 200 attendees)
1995 - 2001	Morning Report VA Medical Center (1 contact hr/day x 3 days/wk x 1-2 month/yr; 12 residents, 8 students)
1991 - 2003	Medicine Teaching Rounds, Attending (2 contact hr/day x 6 days/week x 1 month/yr; 3 housestaff, 2 students)
1991 - 2005	Nephrology Consult Teaching Rounds, VA Medical Center (2 contact hr/day x 1 months/yr; 1 fellow)
1998 - 2001	Professor's Rounds, Internal Medicine (2 contact hr/session, \approx 2 sessions/yr, 6 residents)
1999	Ambulatory Grand Rounds: Kidney Function during Aging – Clinical Aspects
1999 – 2005	Professor's Rounds, Nephrology (1 contact hr/session, \approx 6 sessions/yr, 6 fellows)
1999 – 2002	Nephrology Research Education Session (1.5 contact hr/session, 24 sessions/yr, 3 fellows + junior research faculty)
2001	OHEP Endocrinology Review: Post operative Diabetes Insipidus (1 contact hr/yr; 80 attendees including endocrinologists, endocrinology fellows)
2003 – 2005	Basic/Emergency Nephrology Lectures for Fellows, Renal Physiology (2 sessions x 1 contact hr/session, 6 fellows)
2004 - 2006	Advanced Renal Physiology, (4 sessions x 1 contact hr/session, 6 fellows)

Departmental/Divisional Education

Basic Science: (1 contact hr/session; 20 faculty, fellows, residents, students/session)

1985 - 1994	Vasopressin Release Renal Concentrating & Diluting Mechanisms Renal Sodium Handling Vasopressin and Arterial Pressure Regulation Techniques in Renal Research Clearance Methodologies and Renal Function
1995	Hormones, Receptors and Second Messengers
1996	Signal Transduction Mechanisms
1997	Urea Handling by the Kidney
1997 - 2000	Aquaporins
2001	Intercellular Transport in the Nephron
2001	Renal Nerves
2003	Renal Chloride Channels
2004	Urea, the Primal Organic Molecule
2005	Aquaretics: Separation of Salt and Water

Renal Professor Rounds

2002	Aquaporins
2003	Magnesium transport
2003	Bicarbonate handling by the nephron
2004	Renal handling of ammonium
2004	Total parenteral nutrition in renal failure
2006	Uric acid handling by the kidney

Renal Journal Club: (1 contact hr/session; 13 faculty, 6 fellows)
1985- 2007 Primary presentor, 2-3 times/year; participant, biweekly

Medicine Grand Rounds: (1 contact hr/session; 200 faculty, physicians, trainees)

1985	Interpretation of Urinary Electrolytes
1986, 1988	Syndrome of Inappropriate ADH Secretion
1987	Renal Function in Diabetes Mellitus
1992	Treatment of Hyponatremia: Muddy Waters
1993	Renal Microvascular Complication of Diabetes
2000	The Dysnatremias
2004	CPC: Rash, Hematuria and Abdominal Pain (microscopic polyangiitis)
2005	Separation of Salt and Water: Evolution of Intelligent <i>Drug</i> Design
2007	CPC: Acute Renal Failure and Abnormal Chest CT (Wegener's Granulomatosis)

Physiology Seminar: (1 contact hr/session; 10 faculty, 12 graduate/postdoctoral students)

1994	Endothelin as Neurotransmitter - Not Just a Vascular Hormone
2005	Endothelin: Its Role in AVP Secretion in Health and Disease

Rheumatology Seminar:

2004	Treatment of Lupus Nephritis (2 contact hours; 10 fellows, residents, staff)
------	--

VA Research Seminar: (1 contact hr/session; 20 faculty, 20 students, research associates)

2006	Endothelin and Secretion of AVP
2000	Endothelin as a Pressor Hormone
2002	Angiotensin II and Baroreflex Function in Diabetic Rats
2003	Vasopressin Secretion: Differential Control by ET Receptors at Selected Neural Loci
2005	Causes and Consequences of Translation Arrest following Brain and Renal Ischemia

VA Medical Rounds: (1 contact hr/session; 15 faculty, 20 students, nurses, residents)

2006	Aquaretics: the New Horizon
------	-----------------------------

Courses at University of Detroit Mercy

1987 – 1999 alternate odd years	Biology of Aging: The Kidney (2.5 contact hr/yr, 30-40 students)
1995 - 1997	Physical Assessment and Management: Renal Disease (DOS 839) (2 contact hr/yr, 70 dental and oral surgery students)

Course Development

1987	Basic Science Course Director
1988 - 1990	Renal Journal Club Coordinator
1990 - 1993	Renal Research Conference Coordinator
1994 - 1998	Renal Physiology and Pathophysiology for Fellows
1996 - 2000	Research Seminar for Nephrology Division
1997	Core Curriculum for Nephrology Fellowship, Research Section
1999	Basic Biostatistics for Nephrology Fellows
1999 – 2005 alt	PSL 7550, Advanced Renal Physiology

Course Materials

Developmental Biology of the Kidney (for PSL 7500)
 Renal Pathology Overview (for PTH 6500)
 Physical Assessment and Management: Renal Diseases (for DOS 839)
 Water Metabolism & Clinical Approach to Edema States
 Hypokalemic & Hyperkalemic States - Hyponatremia, Polyuric & Hypernatremic States
 Year II, Renal Pathophysiology of Water and Acid Base
 Aging and Kidney Structure and Function
 Advanced Renal Physiology (PSL 7550)
 Year I, Renal Physiology and Acid Base
 PSL 7600 Clinical Correlations in Advanced Cardiovascular Physiology
 PSL 7550 Advanced Renal Physiology
 Lupus nephritis

Other

1994, 1995, 1998	Judge, Resident Research Day (4 contact hours/yr, 12 residents)
1993, 1995-2001	Judge, Medical School Research Day (3 contact hr/yr, 10-15 students)
1999	Organized: Forum on Education of Health Care Professionals in a Dynamic Health Care Environment
1999-2003	Organizer, Medical School Research Symposium
2003	Presenter, Promotion and Tenure Workshop (Teaching), School of Medicine
2005 and 2006	Judge, SEMCME Resident Research Symposium
2006 and 2007	Update on Chronic Kidney Disease Management, Family Medicine Review

Visiting Professorships

November, 2003	Dept. of Cell Biology and Neuroscience, University of California Riverside
----------------	--

GRANT SUPPORT**Currently Funded Grants**

8/1/05 - 7/31/09	NIH Heart and Lung Institute, PI: DS O'Leary; \$1,050,000 Co-investigator, NF Rossi (5% effort) "Blood Pressure Control during Exercise in Heart Failure"
9/1/05-8/31/10	NIH, Heart Lung and Blood, \$1,125,000 PI: NF Rossi (30% effort); "Neural Control of Na Balance in Hypertension during Exercise"
9/1/07 – 8/31/11	VA Merit Award, \$507,300 PI: NF Rossi (40% effort) "Central ET and VP Control of Hemodynamics: Heart Failure and Exercise"

Grants Approved and Funded

7/1/83 - 6/30/85	PHS, National Research Service Award, PI: NF Rossi, \$28,000 "Central Mechanism of Arginine Vasopressin Release"
7/1/85 - 6/30/86	Harper Trust Fund, PI: NF Rossi, \$15,038 "Effect of Dopamine on Central Release of Arginine Vasopressin in Hypothalamo-

Neurohypophysial Culture System"

7/1/87 - 6/30/88	National Kidney Foundation of MI, PI: NF Rossi, \$18,000 "Effects of Calcium-Calmodulin Inhibition on Vasopressin Release in vitro"
7/1/88 - 6/30/89	National Kidney Foundation of MI, PI: NF Rossi, \$18,000 "Dopaminergic Effects on Vasopressin Release in vitro"
7/1/89 - 6/30/90	National Kidney Foundation of MI, PI: NF Rossi, \$18,000 "Osmosensitivity to Glucose in Insulin Replete and Insulin Depleted States in vitro"
7/1/89 - 6/30/90	American Heart Association of MI, PI: NF Rossi, \$24,500 "Renal Effects of Adenosine: Normals and Heart Failure"
4/1/91 - 3/31/95	PHS 1st Award, PI: D. O'Leary, Consultant: NF Rossi, \$350,000 "Mechanism of Arterial Pressure Control During Exercise"
7/1/91 - 6/30/92	American Heart Association of MI, PI: NF Rossi, \$23,500 "Endothelin's Effects on Vasopressin and Water Metabolism"
4/1/91 -12/31/91	Smith Kline and Beecham Pharm. Co., PI: NF Rossi, \$5,000 "Opioid Actions on Vasopressin Release from HNC"
4/1/92 - 3/31/93	VA Research Advisory Group, PI: NF Rossi, \$39,400 "CNS Loci Involved in Endothelin-induced Vasopressin Release"
9/30/92	VA Equipment Grant, PI: NF Rossi, \$2,750 "CNS Involvement in Endothelin-induced AVP Release in vivo"
4/1/93 - 9/30/97	Dept. of Veterans Affairs Merit Review, PI: NF Rossi, \$234,013 "Regulation of Vasopressin Release"
9/1/93 - 10/31/95	University of Colorado HSC, PI: NF Rossi, \$23,925 "Effect of RU 51,599 on Vasopressin Release in vitro"
2/1/96 - 1/31/97	Merck, Inc., PI: NF Rossi, \$1,000 Medical Education Grant
7/1/96 - 6/30/00	NIH Heart and Lung Institute, PI: DS O'Leary, \$922,166 Co-investigator, NF Rossi (5% effort) "Blood Pressure Control During Exercise in Heart Failure"
4/1/96 - 3/31/00	Merck and Co., Inc., PI: N Rossi, \$45,000 (5% effort) "A Randomized, Double Blind, Placebo Controlled Study of Losartan in NIDDM and Nephropathy"
10/1/97 - 09/31/01	Dept of Veterans Affairs Merit Review, PI: NF Rossi, \$467,650 (40% effort) "Central ET and Control of AVP and Arterial Pressure: Baroreflex Integration"
1/1/98 - 12/31/98	Roche Laboratories, Inc., PI: NF Rossi, \$1,000 Medical Education Grant
9/1/98	Dept. of Veterans Affairs Core Equipment Grant, PI: NF Rossi Confocal Microscope, \$500,012

7/1/99 – 6/30/02	Dept. of Veteran Affairs, Merit Review Entry Program “Mechanosensitive Intracellular Calcium Stores” PI: M. Jena; Mentor: NF Rossi, \$165,000 (5% effort)
7/1/99	Dept. of Veterans Affairs Core Equipment Grant, PI: NF Rossi Cryostat, \$25,000
10/1/99 - 9/30/02	Dept. of Veterans Affairs, RFA for Physical Performance & Combat Readiness “Cardiovascular Responses to Strenuous Exercise in Heart Failure” PI: NF Rossi (20% effort), Co-I: DS O’Leary, \$375,000
1/1/00 – 12/31/00	Dept of Medicine Seed Money Grant, “Na,K ATPase stimulation by angiotensin II” PI: NF Rossi (10% effort), Co-investigator: D. Yingst, \$25,000
7/1/00 - 6/30/05	NIH Heart and Lung Institute, PI: DS O’Leary; \$1,250,000 Co-investigator, NF Rossi (5% effort) “Blood Pressure Control During Exercise in Heart Failure”
7/1/00 – 6/30/01	NKF of Michigan, PI: Douglas Yingst, Co-investigator, NF Rossi, (10% effort); \$29,569 “Na,K-ATPase Stimulation by Angiotensin II”
6/30/00 – 2/14/01	Dept. of Veterans Affairs Core Equipment Grant, PI: NF Rossi DQ ART Gold Telemetry System, \$100,000
10/1/01 – 3/31/02	Dept. of Veterans Affairs, Bridging Grant, \$25,000 PI: NF Rossi (40% effort) “Central ET and Control of AVP and Arterial Pressure”
7/1/02 – 3/31/05	Dept. of Veterans Affairs, Research Enhancement Activity Program PI subgrant #5: NF Rossi (10% effort), \$20,000 (subgrant direct cost only) “Effect of Endogenous Angiotensin II on Baroreflex Function in Diabetic Rats”
7/1/03-6/30/04	MSTF Seed Money Grant; PI NF Rossi (10% effort); \$25,000 “Neural Control of Na Balance in Hypertension during Exercise”
7/1/02 – 6/30/06	NIH Diabetes Digestive and Kidney Diseases, PI: D Yingst, \$600,000 Co-investigator, NF Rossi (7.5% effort) “Mechanisms of Na Pump Stimulation by Angiotensin”
4/1/02 - 3/31/07	Dept. of Veterans Affairs Merit Review, \$666,500 PI: NF Rossi (40% effort) "Central ET and Control of AVP and Arterial Pressure: Mediators"

Approved, Funded and Declined

7/1/92 - 6/30/93	American Heart Association of MI, PI: NF Rossi, \$25,500 "CNS loci involved in endothelin-induced vasopressin release" (declined in favor of VA Research Advisory Group Award)
------------------	--

Pending

4/1/07 – 3/31/09

VA Rehabilitation R&D, NF Rossi, \$700,000

“Conditioning, microvascular tone & rehabilitation post brain trauma”

BIBLIOGRAPHY**Original Papers**

1. Butke GP, Jimenez MF, Michalik J, Gorski RA, **Rossi NF** and J Wemple. Reaction of tertiary glycidamides with boron trifluoride etherate. Evaluation of the potential role for rearrangement with amide group migration. *J Org Chem* **43**:954-960, 1978.
2. Churchill PC, **Rossi NF** and MC Churchill. Renin secretory effects of N6-cyclohexyladenosine: effects of dietary sodium. *Am J Physiol Renal and Elec* **252**:F872- F876, 1987.
3. **Rossi NF**, Churchill PC, Jacobson KA and AE Leahy. Further characterization of the renovascular effects of N6-cyclohexyladenosine in the isolated perfused rat kidney. *J Pharmacol Experimental Ther* **240**:911-915, 1987.
4. **Rossi NF**, Churchill PC and MC Churchill. Pertussis toxin reverses adenosine receptor-mediated inhibition of renin secretion in rat renal cortical slices. *Life Sci* **40**:481-487, 1987.
5. Shapiro, JI, Chan L, Cheung C, Itabashi A, **Rossi N** and RW Schrier. Effects of adenosine triphosphate depletion in the isolated perfused rat kidney. *Min Elec Metab* **13**:415-421, 1987.
6. **Rossi NF**, Churchill PC, Ellis V and B Amore. Mechanism of adenosine receptor induced renal vasoconstriction in the rat. *Am J Physiol Renal and Elec* **255**:H885-H890, 1988.
7. **Rossi NF** and RW Schrier. Anti-calmodulin agents affect osmotic and angiotensin II-induced vasopressin release. *Am J Physiol Endocrinol* **256**:E516-E523, 1989.
8. **Rossi NF**, Churchill PC, McDonald FD and VR Ellis. Mechanism of cyclosporine A-induced renal vasoconstriction in the rat. *J Pharmacol Experimental Ther* **250**:896-901, 1989.
9. Churchill PC, **Rossi NF**, Churchill MC and FD McDonald. Acute cyclosporine A-induced renal vasoconstriction in the rat: lack of effect of theophylline. *Am J Physiol Renal and Elec* **258**:F41-F45, 1990.
10. **Rossi NF**. Effect of anti-calmodulin agents on AVP release in response to ionophore and Na and Ca channel activators. *Life Sci* **46**:1091-1098, 1990.
11. **Rossi NF**, Kontry T, Gunther S, Churchill P and A Bidani. Hemodynamic changes in HgCl₂-induced acute renal failure: Independence from the renal adenosine system. *Am J Physiol Renal and Elec* **258**:F1554-F1560, 1990.
12. Churchill PC, **Rossi NF**, Churchill MC and VR Ellis. Vanadate-induced inhibition of renin secretion is unrelated to inhibition of Na,K-ATPase activity. *Life Sci* **46**:1953-1959, 1990.
13. Churchill P, **Rossi N**, Churchill M and V Ellis. Effect of melittin on renin and prostaglandin E₂ release from rat renal cortical slices. *J Physiol Lond* **428**:233-241, 1990.
14. Churchill PC, **Rossi NF**, Ellis VR, Churchill MC and FD McDonald. Cyclosporine A inhibits prostaglandin E₂ release, and has no effect on renin secretion, from rat renal cortical slices. *Life Sci* **47**:1579-1586, 1990.

15. **Rossi NF**, Churchill PC and VR Ellis. Calcium-dependent inhibition of renin secretion: TMB-8 is a nonspecific antagonist. *Life Sci* **47**:1579-1586, 1991.
16. Howard RL, Summer S, Rossi N, Kim J and RW Schrier. Short term hypothyroidism and vasopressin gene expression. *Am J Kidney Diseases* **19**:573-577, 1992.
17. **Rossi NF**. Effect of endothelin-3 on vasopressin release in vitro and water excretion in vivo in Long Evans rats. *J Physiol [Lond]* **461**:501-511, 1993.
18. O'Leary DS, **Rossi NF** and PC Churchill. Muscle metaboreflex control of vasopressin and renin release. *Am J Physiol* **264**:H1422-H1427, 1993.
19. **Rossi NF**. Cation channel mechanisms in endothelin 3-induced vasopressin secretion by rat hypothalamo-neurohypophysial explants. *Am J Physiol Endocrinology* **268**:E467-E475, 1995.
20. **Rossi NF** and DP Brooks. κ -opioid agonist inhibition of osmotically-induced AVP release: Preferential action at hypothalamic sites. *Am J Physiol Endocrinology* **270**:E367-372, 1996.
21. **Rossi NF**, O'Leary DS and H Chen. Mechanisms of centrally administered endothelin 1-induced increases in systemic arterial pressure and AVP secretion. *Am J Physiol Endocrinology* **272**: E126-E132, 1997.
22. **Rossi NF**, O'Leary DS, Scislo TJ, Caspers ML and H Chen. Central ET 1 regulation of arterial pressure and AVP secretion via the AV3V region. *Kidney International* **52**(Suppl) 61:S22-S26, 1997.
23. O'Leary DS, **Rossi NF** and PC Churchill. Substantial cardiac parasympathetic activity exists during heavy dynamic exercise in dogs. *Am J Physiol Heart and Circ* **273**:H2135-H2140, 1997.
24. **Rossi NF**, Kim JK, Summers SN and RW Schrier. Kappa opiate RU 51599 inhibits vasopressin gene expression and osmotically-induced vasopressin secretion in vitro. *Life Sci*, **61**:2271-2282, 1997.
25. **Rossi NF**. Dopaminergic control of angiotensin II-induced vasopressin release in vitro. *Am J Physiol Endocrinology* **275**:E687-E693, 1998
26. Lieh-Lai MW, Stanitski DF, Sarnaik AP, Hasan RA, Uy HM, **Rossi NF**, Simpson PM and CL Stanitski. Interaction of antidiuretic hormone and atrial natriuretic peptide in children undergoing spinal fusion. *Critical Care Med* **27**:622-627, 1999.
27. Hammond RL^{*}, Augustyniak RA^{*}, **Rossi NF**, Churchill PC, Lapanowski K and DS O'Leary. Heart failure alters the strength and mechanisms of the muscle metaboreflex. *Am J Physiol Heart and Circ* **278**:H818-H828, 2000.
28. **Rossi NF**, O'Leary DS, Woodbury D and H Chen. Endothelin-1 in hypertension in the baroreflex-intact SHR: a role independent from vasopressin. *Am J Physiol Endocrinology* **279**:E18-E24, 2000.
29. Hammond RL^{*}, Augustyniak RA^{*}, **Rossi NF**, Lapanowski K, Dunbar, JC and DS O'Leary. Alteration of humoral and peripheral vascular responses during graded exercise in heart failure. *J Appl Physiol* **90**:55-61, 2001.
30. **Rossi NF** and H Chen. Paraventricular nucleus lesions prevent the endothelin 1-induced increase in arterial pressure and vasopressin. *Am J Physiol* **280**:E349-E356, 2001.
31. Augustyniak RA, Collins HL, Ansorge EJ, **Rossi NF** and DS O'Leary. Severe exercise alters the strength and mechanisms of the muscle metaboreflex. *Am J Physiol Heart and Circ* **280**:H1645-H1652, 2001.

32. Jena M, M Ye, and **NF Rossi**. A mechanosensitive intracellular calcium store in vascular smooth muscle cells. *Am J Physiol Cell Physiology* **281**:C555-C562, 2001.
33. **Rossi NF**, Chen H and TI Musch. Endothelin 1-induced pressor response and vasopressin release in heart failure. *J Cardiovasc Pharmacol* 40:80-89, 2002.
34. Ansorge EJ, Shah SH, Augustyniak, RA, **Rossi NF**, Collins HL and DS O'Leary. Muscle metaboreflex control of coronary blood flow. *Am J Physiol Heart and Circ* 283:H526-H532, 2002.
35. **Rossi NF** and H Chen. **Rossi NF** and H Chen. Modulation of ET_B-R induced AVP secretion by NMDA and GABA mechanisms in hypothalamo-neurohypophysial explants. *Clinical Science* 103 (Suppl 48):162S-166S, 2002.
36. MM Scislo, T Scislo and **NF Rossi**. Effect of endogenous angiotensin on baroreflexes in conscious streptozotocin diabetic rats. *Am J Physiol Heart and Circ* 284:H1601-H1611, 2003.
37. **Rossi NF**. Regulation of vasopressin secretion by ET_A and ET_B receptors in compartmentalized rat hypothalamo-neurohypophysial explants. *Am J Physiol Endocrinol and Metab* 286:E535-E541, 2004.
38. Yingst DR, K Massey, **NF Rossi**, MJ Mohanty and RR Mattingly. Angiotensin II directly stimulates activity and alters the phosphorylation of Na,K- K ATPase in rat proximal tubule with a rapid time course. *Am J Physiol Renal Physiol* 287:F713-F721, 2004
39. Kim, J-K, RA Augustyniak, JA Sala-Mercado, RL Hammond, **NF Rossi** and DS O'Leary. Heart failure alters the strength and mechanisms of arterial baroreflex pressure responses during dynamic exercise. *Am J Physiol Heart and Circ* 287:H1682-H1688, 2004.
40. **Rossi NF**, SM Black, S Telemaque-Potts and H Chen. Neuronal nitric oxide synthase activity in the paraventricular nucleus buffers central endothelin 1-induced pressor response and vasopressin secretion. *J Cardiovasc Pharmacol* 44:S283-S288, 2004.
41. O'Leary DS, JA Sala-Mercado, RA Augustyniak, RL Hammond, **NF Rossi**, and EJ Ansorge. Impaired Muscle Metaboreflex – Induced Increases in Ventricular Function in Heart Failure. *Am J Physiol Heart and Circ* 287:H2612-H2618, 2004.
42. Ansorge EJ, RA Augustyniak, ML Perinot, RL Hammond, J-K Kim, JA Sala-Mercado, J Rodriguez, **NF Rossi** and DS O'Leary. Altered muscle metaboreflex control of coronary blood flow and ventricular function in heart failure. *Am J Physiol Heart and Circ* 288:1381-1388, 2005.
43. Montie, HL, F Kayali, A Haezebrouch, **NF Rossi**, and DJ DeGracia. Renal ischemia and reperfusion activates the eIF2 alpha kinase PERK. *Biochem Biophys Acta* 1741:314-324, 2005.
44. Sala-Mercado JA, RL Hammond, J-K Kim, **NF Rossi**, LW Stephenson and DS O'Leary. Muscle metaboreflex control of ventricular contractility during dynamic exercise. *Am J Physiol Heart and Circ* 290:751-757, 2006.
45. **Rossi NF** and WH Beierwaltes. Nitric oxide modulation of ET_B receptor-induced vasopressin release by rat and murine hypothalamo-neurohypophysial explants. *Am J Physiol Regulatory, Integrative and Comparative Physiol* 290:1208-1215, 2006.
46. **Rossi NF** and H Chen. AMPA receptors in paraventricular nucleus mediate pressor and vasopressin responses to endothelin 1 in subfornical organ. *Exper Biol and Medicine* 231:1075-1080, 2006.

47. Augustyniak RA, EJ Ansorge, J-K, Kim, JA Sala-Mercado, RL Hammond, **NF Rossi** and DS O'Leary. Cardiovascular responses to exercise and muscle metaboreflex activation during the recovery from pacing induced heart failure. *J Applied Physiology* 101:14-22, 2006.
48. Kallakuri S, Kreipke CW, Rossi NF, Rafols JA and T Petrov. Spatial alterations in endothelin-1 receptor expression are temporally associated with the altered microcirculation after brain trauma. *Neurological Research* 29: in press, 2007.
49. MM Scislo, H Chen and **NF Rossi**. The subfornical organ modulates baroreflex function in normotensive and two-kidney one-clip hypertensive rats. *J Physiol [Lond]* (submitted Feb. 2007)
50. Yingst DR, TM Doci, **NF Rossi**, KJ Massey, and RR Mattingly. Ligands promoting the E₂-P conformation of Na,K-ATPase bind rat kidney microsomes to a digoxin-affinity column, but ligands that trigger the decay of E₂-P cause only partial elution. *J Membrane Biol* (submitted December, 2006)
51. Yingst DR, TM Doci, Q Li, E Rucker, **NF Rossi**, KJ Massey, and RR Mattingly. Angiotensin II alters the interaction of Na,K-ATPase with the cardiac glycoside digoxin via multiple sites of phosphorylation on the α subunit. *J Membrane Biol* (submitted December, 2006)

Clinical Case Reports

1. Prasad GV* and **NF Rossi**. Arsenic intoxication associated with tubulointerstitial nephritis. *Am. J. Kidney Diseases* **26**:373-376, 1995.
2. Chang R* and **NF Rossi**. Intermittent cocaine use associated with recurrent dissection of the thoracic and abdominal aorta. *Chest* **108**:1758-1762, 1995.
3. Marwali R* and **NF Rossi**. Ask-Upmark kidney associated with renal and extrarenal aneurysms. *Am J Kidney Diseases* **33**:1-7 (electronic), 1999.

Invited Reviews

1. **Rossi NF**, Itabashi A and RW Schrier. Role of vasopressin in hyponatremic disorders. *Second Asian Pacific Congr Nephrol*, 1983.
2. **Rossi NF** and RW Schrier. Role of arginine vasopressin in regulation of systemic arterial pressure. *Ann Rev Med* **37**:13-20, 1986.
3. **Rossi NF** and P Cadnapaphornchai. Hyponatremia: Disorders of water metabolism. *Critical Care Clinics* **5**:759-777, 1987.
4. **Rossi NF**. Crucial aspects of hyponatremia. *Intensive Critical Care Digest* **8**:35-37, 1989.
5. **Rossi NF**. Kidneys cannot be ignored in patients with diabetes mellitus. *Diabetes Management* **6**:1-4, 1992.

Books and Chapters

1. **Rossi NF** and RW Schrier. Hypotonic States, in Clinical Disorders of Fluid and Electrolyte Metabolism, Maxwell MG, CR Kleeman and RG Narins (eds), McGraw-Hill, New York, 1986. pp. 416-480.
2. **Rossi NF**. The mechanisms of κ -opioid agonist-induced water diuresis: central vs peripheral actions. In: Neurohypophysis: Recent Progress of Vasopressin and Oxytocin Research. Saito T, Kurokawa K, Yoshida S (eds), Elsevier Science, The Netherlands, 1996. pp. 289-299.
3. Rizk, NN, **Rossi NF**, and JC Dunbar. Cardiovascular peptides: vasopressin. In: Handbook of

Biological Peptides. Cardiovascular peptides: Vasopressin. Abba J. Kastin, editor, 2006. pp. 1223-1226.

Other

1. Brenner, BM, ME Cooper, D DeZeeuw, ...S Shahinnfar for the RENAAL Study Investigators. The losartan renal protection study – rationale, study design and baseline characteristics of RENAAL (Reduction of endpoints in NIDDM with the angiotensin II antagonist losartan). *J Renin-Angiotensin-Aldosterone Sys* 1:328-335, 2000. (**NF Rossi** named in Appendix among Primary Investigators)

Abstracts

1. **Rossi NF** and JN Forrest. Dehydration increases urinary excretion of prostaglandin E2 in the presence and absence of antidiuretic hormone. *Proceedings of 7th Intl Congr Nephrol*, 1978, p. U12.
2. Shapiro JJ, Cheung C, Itabashi A, **Rossi N**, Schrier RW and L Chan. Effect of lowering cellular ATP and total adenine nucleotide (TAN) levels on renal function with and without ischemia in the isolated perfused rat kidney. *Am Fed Clin Res*, 1984.
3. Churchill P, **Rossi N** and M Churchill. N6-cyclohexyladenosine (CHA) inhibits in vitro renin secretion by a cyclic AMP dependent process. *Proceedings of Fed Appl Sci Exp Biol*, 1986.
4. **Rossi NF**, Leahy A, Jacobson K and P Churchill. Effects of xanthine amine congener (XAC) and theophylline (TH) on N6-cyclohexyladenosine (CHA) in rats. *The Physiologist* **29**:162, 1986.
5. Churchill P, **Rossi N** and M Churchill. Effect of dietary Na on the in vitro renin secretory effects of N6-cyclohexyladenosine (CHA) in rats. *he Physiologist* **29**:162, 1986.
6. **Rossi NF** and RW Schrier. Dopaminergic influences on vasopressin release. *Vasopressin Satellite Conf of Int Soc Nephrol*, 1987.
7. **Rossi NF** and RW Schrier. Effects of trifluoperazine (TFP) and naphthalenesulfonamide (W7) on the release of arginine vasopressin (AVP) in hypothalamo-neurohypophysial complex (HNC). *Kidney International* **31**:284, 1987.
8. **Rossi NF** and RW Schrier. Effect of dopaminergic stimuli on vasopressin (AVP) release from hypothalamo-neurohypophyseal complexes (HNC) in culture. *Kidney International* **33**:283, 1988.
9. **Rossi NF**, Churchill PC and B Amore. Mechanism of N6-cyclohexyladenosine (CHA)-induced renal vasoconstriction in the rat. *The Physiologist* **30**:153, 1987.
10. Bowe DM, **Rossi NF**, McGahan B and MT Haupt. Type III renal tubular acidosis: Case report of a rare cause of severe electrolyte disturbance. *Am College Physicians*, 1988.
11. **Rossi N**, Churchill M, Ellis V and P Churchill. Effect of cyclosporine A (CSA) on renal hemodynamics. *Proceedings of Fed Appl Sci Exper Biol*, 1988.
12. **Rossi N**, Kontry T, Gunther S, Bidani A and P Churchill. Renal hemodynamics in HgCl₂-induced acute renal failure (Hg-ARF): Independence from renal adenosine (ADO). *Joint Meeting of the Am Physiol Soc and Am Soc Pharmacol Experimental Ther*, 1988.
13. **Rossi N**, Dunbar J, Ellis V and P Churchill. N6-cyclohexyladenosine (CHA)-induced renal vasoconstriction in streptozotocin-treated diabetic rats (STZ). *Kidney International* **35**:472, 1989.
14. **Rossi N**, Churchill M, Dunbar J and P Churchill. Effects of N6-cyclohexyladenosine (CHA) on renal function in streptozotocin-treated diabetic rats (STZ). *Fed Am Soc Exper Biol*, 1989.

15. **Rossi NF**. Anti-calmodulin agents (ACA) affect depolarization- and calcium ionophore-induced vasopressin (AVP) release by an alternative mechanism. *Soc for Neuroscience*, 1989.
16. **Rossi NF**, Bhatena D, Crane L and R Kauffmann. Zidovudine (AZT) in the treatment of HIV-associated nephropathy (HIV-N). *Natl Kidney Found*, 1989.
17. Ellis V, Churchill, Churchill M and **N Rossi**. Effect of melittin (MEL) on renin and prostaglandin E2 (PGE) release from kidney slices. *FASEB*, 1990.
18. **Rossi N**. Interaction of dopamine (DA) and angiotensin II (A II) on vasopressin (AVP) release by hypothalamo-neurohypophyseal complexes in culture. *Am Fed Clin Res*, 1990.
19. **Rossi NF**, Ellis VR, Churchill PC and MC Churchill. Potentiation of N6-cyclohexyladenosine-induced renal vasoconstriction by cyclooxygenase inhibition in the rat. *Am Heart Assoc of Michigan*, 1990.
20. **Rossi NF**. Effect of endothelin III on vasopressin release from hypothalamo-neurohypophyseal complexes in culture. *3rd International Vasopressin Conference*, 1990.
21. **Rossi N**, Churchill M and V Ellis. Effect of endothelin (ET) on vasopressin (AVP) and free water excretion in Long Evans LE and DI rats. *J Am Soc Nephrol* 1:677, 1990.
22. Churchill P, Churchill M, **Rossi N**, Bidani A and J Dunbar. Diabetes mellitus (DM) affects renal function of native and transplanted kidneys independent of streptozotocin (STZ). *J Am Soc Nephrol* 2:287, 1991.
23. **Rossi N** and V Ellis. Effects of insulin deficiency on the sensitivity of the osmoreceptor to glucose (G) or NaCl in hypothalamo-neurohypophyseal complexes (HNC). *J Am Soc Nephrol* 2:726, 1991.
24. **Rossi N** and D Skafar. Comparison of [3H]spiperone (SPN) binding to membranes from fresh and cultured explants of hypothalamo-neurohypophyseal complex (HNC). *FASEB*, 1992.
25. O'Leary DS, **Rossi NF** and PC Churchill. Muscle metaboreflex control of vasopressin and renin release during dynamic exercise in conscious dogs. *FASEB*, 1992.
26. **Rossi N**. Effects of endothelin on vasopressin and water excretion. *Am Heart Association of Michigan*, 1992.
27. O'Leary DL, Churchill PC and **NF Rossi**. Muscle metaboreflex control of vasopressin and renin release during dynamic exercise in conscious dogs. *Am Heart Assoc of Michigan*, 1992.
28. **Rossi NF**: Ca²⁺ channel blockers and K⁺ channel activators inhibit endothelin-3 induced vasopressin. *J Am Soc Nephrol* 3:445, 1992.
29. Charochek A, Sondheimer JH, **Rossi NF** and SD Migdal. Ischemic bowel in ESRD: Detroit Medical Center experience. *XIIIth International Congress of Nephrology*, 1993. p. 375.
30. O'Leary DS, Dunbar JC, Seamans DP, **Rossi NF**, and PC Churchill. Neuro-humoral cardiovascular responses to insulin infusion in conscious dogs. *International Congress of Physiology*, 1993.
31. **Rossi NF**. Endothelin-induced vasopressin secretion in vitro is antagonized by BQ 123, an endothelin A receptor antagonist. In Vasopressin, *4th International Vasopressin Conference*, 1993. p 589.
32. **Rossi NF** and DP Brooks. Kappa agonist BRL 52656 inhibits osmotically-stimulated vasopressin secretion preferentially at hypothalamic sites. *Society for Neuroscience*, 19:1161a, 1993.

33. **Rossi NF** and H Chen. Intracerebroventricular endothelin 1-induced hypertension: independence from vasopressin but not sympathetic outflow. *J Am Soc Nephrology* **4**:521, 1993.
34. O'Leary DS, **Rossi NF** and PC Churchill. Effect of selective cardiac autonomic blockade on neuro-hormonal responses to graded exercise in conscious dogs. *FASEB*, 1994.
35. O'Leary DS, **Rossi NF** and PC Churchill. Effect of cardiac autonomic blockade on neuro-hormonal responses to graded exercise in conscious dogs. *American Heart Association of Michigan*, 1994.
36. **Rossi NF**, Summer SN, Kim JK and RW Schrier. Differential effects of the kappa agonist RU 51,599 on vasopressin secretion and AVP gene expression by hypothalamo-neurohypophyseal explants in basal and stimulated states. *J Am Soc Nephrol* **5**:669, 1994.
37. **Rossi NF**, O'Leary DS and H Chen. Effect of baroreflex denervation on centrally administered endothelin 1-induced vasopressin secretion and increased mean arterial pressure in conscious rats. *J Am Soc Nephrol* **5**:660, 1994.
38. Lieh-Lai M, Hasan R, Stanitski D, Sarnaik A, Uy H, **Rossi NF**, Simpson P and C Stantiski. Antidiuretic hormone and atrial natriuretic peptide in children following spinal fusion. *Clin Res* **42**:372A, 1994.
39. **Rossi NF**, Chen H, O'Leary DS and ML Caspers. Baroreceptor denervation and anteroventral third ventricular lesion effects on central endothelin 1-induced hypertension and vasopressin secretion. *FASEB J* **9**:A293, 1995.
40. Arabi Y, Suliman A, Kobab H and **NF Rossi**. Acquired central diabetes insipidus associated with systemic malignancy. *American College of Physicians*, 1995.
41. **Rossi NF**. The mechanisms of kappa opioid agonist-induced water diuresis: central vs peripheral actions. *Proceedings of First Joint World Congress on the Neurohypophysis and Vasopressin*, July, 1995.
42. **Rossi NF**. Differential effects of ETA and ETB receptor activation at hypothalamic and posterior pituitary sites on basal vasopressin secretion in vitro. *J Am Soc Nephrol* **6**:745, 1995.
43. **Rossi NF** and H Chen. Effect of sinoaortic denervation on blood pressure and vasopressin secretion induced by centrally administered endothelin 1 in spontaneously hypertensive and Wistar Kyoto rats. *FASEB J* **10**:A305, 1996.
44. **Rossi NF**. Dopaminergic D1 receptor mediates AT1 angiotensin II-stimulated vasopressin release in explants of the hypothalamo-neurohypophyseal system. *FASEB J*, **11**:A525, 1997.
45. **Rossi NF** and H Chen. Effect of central endothelin 1 on vasopressin secretion in doxorubicin heart failure rats: baroreflex actions. *Proceedings of the 1997 World Congress of Neurohypophyseal Hormones*, p. 104.
46. **Rossi NF** and H Chen. Baroreflex control of central endothelin 1-induced vasopressin secretion and mean arterial pressure in conscious SHR and WKY rats. *J Am Soc Neph* **8**:24A, 1997.
47. **Rossi NF** and H Chen. Effect of sinoaortic denervation and chronic intracerebroventricular endothelin 1 on systemic arterial pressure, plasma vasopressin and AVP gene expression. *FASEB J* **12**:A66, 1998.
48. Marwali R and **NF Rossi**. Multiple arterial aneurysms in a patient with the Ask-Upmark kidney. *Am. College of Physicians*, 1998.
49. **Rossi NF**, O'Leary DS, Scislo T and H Chen. Chronic glycemic control improves baroreflex bradycardia and renal sympathetic nerve activity in streptozotocin diabetic rats. *J Am Soc Nephrol* **9**:640A, 1998.

50. **Rossi NF** and H Chen. Bilateral paraventricular nucleus lesions prevent the increased arterial pressure due to intracerebroventricular endothelin 1. *The Physiologist* **41**:382, 1998.
51. **Rossi NF**, O'Leary DS, Scislo T and H Chen. Chronic glycemic control improve baroreflex bradycardia and renal sympathetic nerve activity in streptozotocin-diabetic rats. *International Motor City Diabetes Symposium*, October, 1998.
52. **Rossi NF** and H Chen. Endothelin type A receptor blockade within the CNS improves baroreflex sensitivity in spontaneously hypertensive rats. *FASEB J* **13**:A773, 1999.
53. Luthra K*, S Jain* and **NF Rossi**. Henoch Schönlein purpura and hepatitis C infection. Dept. of Medicine, Wayne State University. Resident Day presentation, 1999.
54. Hammond RL*, DS O'Leary, RA Augustyniak*, K Lapanowski, PC Churchill and **NF Rossi**. Muscle metaboreflex recruits vasopressin and other humoral and sympathetic mechanisms during dynamic exercise in heart failure to support hemodynamic stability. World Congress on Neurohypophysis, 1999.
55. Scislo M*, TJ Scislo, H Chen, DS O'Leary, and **NF Rossi**. Baroreflex sensitivity of renal sympathetic nerve activity increases after AT₁ receptor blockade in streptozotocin diabetic rats. *FASEB J* **14**:A625, 2000.
56. Jena M, M Ye, JR Sowers and **NF Rossi**. An inositol-1,4,5-triphosphate insensitive, mechanosensitive intracellular calcium store in vascular smooth muscle cells. *FASEB J* **14**:A581, 2000.
57. **Rossi NF** and H Chen. Vasopressin secretion induced by hypothalamic ET_B receptor stimulation is mediated by glutamatergic and modulated by GABAergic mechanisms. *Seventh Intl Conf on Endothelin*, 2001.
58. **Rossi NF**, TI Musch and H Chen. Intracerebroventricular endothelin 1 results in an attenuated pressor response and an increased plasma vasopressin in rats with heart failure due to coronary ligation. *FASEB J* 2001
59. **Rossi NF**, M Maliszewska-Scislo, T Scislo and H Chen. Acute effects of losartan and enalapril on renal sympathetic nerve activity and heart rate baroreflex in conscious streptozotocin diabetic rats. *J Am Soc Nephrol* **12**:155A, 2001.
60. Quasem M, G Al-Tabbaa, **NF Rossi**, K Daly, MK Koss, S Rashid, J Dunbar and SD Migdal. Eating disorders in hemodialysis patients: Is leptin the answer? *J Am Soc Nephrol* **12**:408A, 2001.
61. Yingst D, R Mattingly, G Al-Tabbaa, K Massey and **NF Rossi**. Angiotensin II alters phosphorylation of the alpha subunit of the Na,K-ATPase in the rat proximal tubule. *J Am Soc Nephrol* **12**:44A, 2001. [also presented at Gordon Conf. in Tuscany, Italy, 2002]
62. Scislo M, H Chen and **NF Rossi**. Effect of central endothelin blockade on the baroreflex in rats with doxorubicin heart failure. *FASEB J* **16**:A793, 2002.
63. Mattingly R, **NF Rossi**, K Massey and D. Yingst. Angiotensin II stimulates activity and alters phosphorylation of the rat kidney alpha subunit of Na,K-ATPase expressed in opossum kidney cells. *FASEB J* **16**:A465, 2002. [also presented at Gordon Conf. in Tuscany, Italy, 2002]
64. Ansorge EJ, SH Shaw, **NF Rossi** and DS O'Leary. Muscle metaboreflex control of coronary vasculature is workload dependent. *FASEB J* **16**:A765, 2002.

65. Yingst DR, K Massey, **NF Rossi** and RR Mattingly. Angiotensin II alters phosphorylation of α -subunit of Na,K-ATPase at multiple sites. *Intl. Meeting on the Sodium Pump*, Denmark, 2002.
66. Amm J-M, BF El-Rayes, JC Andersen and **NF Rossi**. Broad array of coagulation defects in patients with membranous nephropathy and minimal change disease. *J Am Soc Nephrol* 13:676A, 2002.
67. **Rossi NF**. The pressor response induced by endothelin 1 acting at the subfornical organ is mediated by an AMPA receptor within the paraventricular nuclei. *Am Physiological Society Meeting on Neural Control of the Cardiovascular System*, July, 2002.
68. Yingst D, K Massey, **NF Rossi** and R Mattingly. Angiotensin II rapidly increases Na affinity and alters conformation of renal Na,K-ATPase. *FASEB J* 17:A1221, 2003.
69. Scislo MM, J Fallucca and **NF Rossi**. Neural and hemodynamic effects of bradykinin after enalapril in diabetic and normal rats. *FASEB J* 17:A855, 2003.
70. Ansorge EJ, ML Perinot, **NF Rossi** and DS O'Leary. Altered muscle metaboreflex control of coronary blood flow and ventricular function in heart failure. *FASEB J* 17:A22, 2003.
71. Mohanty MJ, T Shi, H Chen and **NF Rossi**. Greater increase in NKCC1 activity in response to cyclical stretch in genetically hypertensive rats. *Am J Nephrol*, 2003 (in press)
72. **Rossi NF**, SM Black, S Telemaque-Potts and H Chen. Effect of dominant negative constructs of neuronal nitric oxide synthase in paraventricular nucleus on the endothelin-1 induced pressor and vasopressin response. *Eighth International Conf. on Endothelin*, 2003 (in press)
73. Maliszewska-Scislo M, H Chen H and **NF Rossi**. Effect of subfornical organ lesion on the baroreflex in normotensive and 2 kidney-1 clip hypertensive rats. *FASEB J* 18:A1071, 2004.
74. **Rossi NF**, Chen H and M Maliszewska-Scislo. Exercise training decreases renal sympathetic tone and ENaC abundance in 2K-1C hypertensive rats. *FASEB J* 18:A1260, 2004.
75. Sala-Mercado, JA, RL Hammond, J-K Kim, **NF Rossi**, LW Stephenson and DS O'Leary. Muscle metaboreflex control of ventricular contractility. *FASEB J* 2004 18:A1260, 2004.
76. Kim J-K, JA Sala-Mercado, RL Hammond, **NF Rossi** and DS O'Leary. Heart failure alters the strength and mechanisms of arterial baroreflex pressor responses during dynamic exercise. *FASEB J* 18:A1261, 2004.
77. Haught AL, CM Foley, PJ Mueller, **NF Rossi**, CM Heesch and EM Hasser. Effects of cardiovascular deconditioning on neurohumoral response to blood loss. *FASEB J* 18A1073, 2004.
78. Mohanty, MJ, T Shi, H Chen and **NF Rossi**. Greater increase in NKCC1 activity in response to cyclical stretch in genetically hypertensive rats but not in rats with secondary hypertension. *J Am Soc Nephrol* 15: 198A, 2004.
79. **Rossi NF** and H Chen. ENaC abundance decreases in normotensive and 2K-1C hypertensive rats after exercise training. *J Am Soc Nephrol* 15:200A, 2004.
80. DeGracia DJ, H Montie, F Kayali, A Haezebrouch and **NF Rossi**. Renal ischemia and reperfusion activates the alpha subunit of initiation factor (eIF2 α) kinase PERK. *FASEB J* 19:A484, 2005.

81. Massey KJ, RR Mattingly, **NF Rossi** and DR Yingst. Rapid and direct stimulation of Na,K-ATPase activity by angiotensin II in rat proximal tubules involves recruitment to the plasma membrane. *FASEB J* 19:A1589, 2005.
82. Doci TM, **NF Rossi**, H Chen and DR Yingst. A digoxin affinity column for the recovery of rat kidney Na,K-ATPase. *FASEB J* 19:A1152, 2005.
83. Haught AL, CM Foley, PJ Mueller, **NF Rossi**, CM Heesch and EM Hasser. Effects of cardiovascular deconditioning on the neurohumoral response to blood loss. *FASEB J* 19:A614, 2005.
84. **Rossi NF** Nitric oxide inhibits vasopressin release in response to ETB receptor activation in rat hypothalamo-neurohypophyseal complexes *in vitro*. *APS Conference on Neurohypophyseal Hormones*, 2005.
85. **Rossi NF** and H Chen. The pressor and vasopressin secretory responses induced by endothelin 1 acting at the subfornical organ are mediated by an AMPA receptor within the paraventricular nucleus. *ET-9 Conference*, 2005
86. Yingst DR, KJ Massey, RR Mattingly and **NF Rossi**. Rapid decreases in the γ subunit and increases in the α subunit of Na,K-ATPase in the basolateral membrane of rat proximal tubules in response to angiotensin II. *J Am Soc Nephrol* 16:344A, 2005.
87. Singh A, K Filippova, R Pasupulati and **NF Rossi**. Type I cryoglobulinemia with primary biliary cirrhosis: late development of lymphoid dyscrasia and response to anti-CD 20 monoclonal antibody (rituximab). *J Am Soc Nephrol* 16:776A, 2005.
88. Augustyniak RA, EJ Ansorge EJ, JK Kim, JA Sala-Mercado, RL Hammond, **NF Rossi** and DS O'Leary. Muscle metaboreflex responses during recovery from pacing-induced heart failure. *FASEB J* 20:A737, 2006.
89. Yingst DR, TM Doci, Q Li, E Rucker, **NF Rossi**, KJ Massey and RR Mattingly. Angiotensin II alters the interaction of Na,K-ATPase with the cardiac glycoside digoxin via multiple sites of phosphorylation on the α subunit. *FASEB J* 20:***, 2006.
90. Massey KJ, RR Mattingly, **NF Rossi**, Q Li, and DR Yingst. Angiotensin II increases the amount of the Na,K-ATPase in the plasma membrane of proximal tubule cells by phosphorylation of the α -1 subunit at Ser-943. *FASEB J* 21:A1330, 2007.
91. Yingst DR, TM Doci, Q Li, E Rucker, **NF Rossi**, KJ Massey, and RR Mattingly. Angiotensin II alters the interaction of Na,K-ATPase with the cardiac glycoside digoxin via multiple sites of phosphorylation on the α subunit. *FASEB J* 21:A534, 2007.
92. Maliszewska-Scislo M, H Chen, and **NF Rossi**. Voluntary wheel exercise training decreases arterial pressure in two-kidney one-clip hypertensive rats independent of GABA-ergic mechanisms in paraventricular nucleus. *FASEB J* 21:A932, 2007.
93. **Rossi NF**, H Chen, and M Maliszewska-Scislo. Central ET_A receptor inhibition alters baroreflex response in conscious rats with doxorubicin heart failure. Proceedings of the 10th Endothelin International Conference (in press)
94. **Rossi NF**, M Maliszewska-Scislo, and H Chen. Exogenous but not endogenous central endothelin increases plasma vasopressin in doxorubicin heart failure. Proceedings of the 10th Endothelin International Conference (in press)

Presentations: Refereed Nationally/Internationally

1. **Rossi NF** and JN Forrest. Dehydration increases urinary excretion of prostaglandin E2 in the presence and absence of antidiuretic hormone. *Proc 7th Intl Congr Nephrol*, 1978.
2. Shapiro JJ, Cheung C, Itabashi A, **Rossi N**, Schrier RW and L Chan. Effect of lowering cellular ATP and total adenine nucleotide (TAN) levels on renal function with and without ischemia in the isolated perfused rat kidney. *Am Fed Clin Res*, 1984.
3. Churchill P, **Rossi N** and M Churchill. N6-cyclohexyladenosine (CHA) inhibits in vitro renin secretion by a cyclic AMP dependent process. *Proceedings of Fed Appl Sci Exp Biol*, 1986.
4. **Rossi NF**, Leahy A, Jacobson K and P Churchill. Effects of xanthine amine congener (XAC) and theophylline (TH) on N6-cyclohexyladenosine (CHA) in rats. *The Physiologist* **29**:162, 1986.
5. Churchill P, **Rossi N** and M Churchill. Effect of dietary Na on the in vitro renin secretory effects of N6-cyclohexyladenosine (CHA) in rats. *The Physiologist* **29**:162, 1986.
6. **Rossi NF** and RW Schrier. Dopaminergic influences on vasopressin release. *Vasopressin Satellite Conf of Int Soc Nephrol*, 1987.
7. **Rossi NF** and RW Schrier. Effects of trifluoperazine (TFP) and naphthalenesulfonamide (W7) on the release of arginine vasopressin (AVP) in hypothalamo-neurohypophyseal complex (HNC). *Kidney International* **31**:284, 1987.
8. **Rossi NF** and RW Schrier. Effect of dopaminergic stimuli on vasopressin (AVP) release from hypothalamo-neurohypophyseal complexes (HNC) in culture. *Kidney International* **33**:283, 1988.
9. **Rossi NF**, Churchill PC and B Amore. Mechanism of N6-cyclohexyladenosine (CHA)-induced renal vasoconstriction in the rat. *The Physiologist* **30**:153, 1987.
10. **Rossi N**, Churchill M, Ellis V and P Churchill. Effect of cyclosporine A (CSA) on renal hemodynamics. *Proceedings of Fed Appl Sci Exper Biol*, 1988.
11. **Rossi N**, Kontry T, Gunther S, Bidani A and P Churchill. Renal hemodynamics in HgCl₂-induced acute renal failure (Hg-ARF): Independence from renal adenosine (ADO). *Joint Meeting of the Am Physiol Soc and Am Soc Pharmacol Experimental Ther*, 1988.
12. **Rossi N**, Churchill M, Dunbar J and P Churchill. Effects of N6-cyclohexyladenosine (CHA) on renal function in streptozotocin-treated diabetic rats (STZ). *Fed Am Soc Exper Biol*, 1989.
13. **Rossi NF**. Anti-calmodulin agents (ACA) affect depolarization- and calcium ionophore-induced vasopressin (AVP) release by an alternative mechanism. *Soc for Neuroscience*, 1989.
14. Ellis V, Churchill P, Churchill M and **N Rossi**. Effect of melittin (MEL) on renin and prostaglandin E2 (PGE) release from kidney slices. *FASEB*, 1990.
15. **Rossi N**. Interaction of dopamine (DA) and angiotensin II (A II) on vasopressin (AVP) release by hypothalamo-neurohypophyseal complexes in culture. *Am Fed Clin Res*, 1990.
16. **Rossi NF**. Effect of endothelin III on vasopressin release from hypothalamo-neurohypophyseal complexes in culture. *3rd International Vasopressin Conference*, 1990.
17. **Rossi N**, Churchill M and V Ellis. Effect of endothelin (ET) on vasopressin (AVP) and free water excretion in Long Evans LE and DI rats. *J Am Soc Nephrol* **1**:677, 1990.

18. Churchill P, Churchill M, **Rossi N**, Bidani A and J Dunbar. Diabetes mellitus (DM) affects renal function of native and transplanted kidneys independent of streptozotocin (STZ). *J Am Soc Nephrol* **2**:287, 1991.
19. **Rossi N** and D Skafar. Comparison of [3H]spiperone (SPN) binding to membranes from fresh and cultured explants of hypothalamo-neurohypophyseal complex (HNC). *FASEB*, 1992.
20. O'Leary DS, **Rossi NF** and PC Churchill. Muscle metaboreflex control of vasopressin and renin release during dynamic exercise in conscious dogs. *FASEB*, 1992.
21. **Rossi NF**: Ca²⁺ channel blockers and K⁺ channel activators inhibit endothelin-3 induced vasopressin. *J Am Soc Nephrol* **3**:445, 1992.
22. O'Leary DS, Dunbar JC, Seamans DP, **Rossi NF**, and PC Churchill. Neuro-humoral cardiovascular responses to insulin infusion in conscious dogs. *International Congress of Physiology*, 1993.
23. **Rossi NF**. Endothelin-induced vasopressin secretion in vitro is antagonized by BQ 123, an endothelinA receptor antagonist. In Vasopressin, *4th International Vasopressin Conference*, 1993. p 589.
24. **Rossi NF** and DP Brooks. Kappa agonist BRL 52656 inhibits osmotically-stimulated vasopressin secretion preferentially at hypothalamic sites. *Society for Neuroscience*, **19**:1161a, 1993.
25. **Rossi NF** and H Chen. Intracerebroventricular endothelin 1-induced hypertension: independence from vasopressin but not sympathetic outflow. *J Am Soc Nephrology* **4**:521, 1993.
26. **Rossi NF**, SN Summer, JK Kim and RW Schrier. Differential effects of the kappa agonist RU 51,599 on vasopressin secretion and AVP gene expression by hypothalamo-neurohypophyseal explants in basal and stimulated states. *J Am Soc Nephrol* **5**:669, 1994.
27. Lieh-Lai M, Hasan R, Stanitski D, Sarnaik A, Uy H, **Rossi NF**, Simpson P and C Stanitski. Antidiuretic hormone and atrial natriuretic peptide in children following spinal fusion. *Clin Res* **42**:372A, 1994.
28. **Rossi NF**, Chen H, O'Leary DS and ML Caspers. Baroreceptor denervation and anteroventral third ventricular lesion effects on central endothelin 1-induced hypertension and vasopressin secretion. Minisymposium on CNS Control of Cardiovascular Function. *FASEB J* **9**:A293, 1995. (plenary session)
29. **Rossi NF**. The mechanisms of kappa opioid agonist-induced water diuresis: central vs peripheral actions. *Proceedings of First Joint World Congress on the Neurohypophysis and Vasopressin*, July, 1995.
30. **Rossi NF**. Differential effects of ET_A and ET_B receptor activation at hypothalamic and posterior pituitary sites on basal vasopressin secretion in vitro. *J Am Soc Nephrol* **6**:745, 1995.
31. **Rossi NF** and H Chen. Effect of sinoaortic denervation on blood pressure and vasopressin secretion induced by centrally administered endothelin 1 in spontaneously hypertensive and Wistar Kyoto rats. *FASEB J* **10**:A305, 1996.
32. **Rossi NF**. Dopaminergic D1 receptor mediates AT1 angiotensin II-stimulated vasopressin release in explants of the hypothalamo-neurohypophyseal system. *FASEB J*, **11**:A525, 1997.
33. **Rossi NF** and H Chen. Effect of central endothelin 1 on vasopressin secretion in doxorubicin heart failure rats: baroreflex actions. *Proceedings of the 1997 World Congress of Neurohypophyseal Hormones*, p. 104.
34. **Rossi NF** and H Chen. Baroreflex control of central endothelin 1-induced vasopressin secretion and mean arterial pressure in conscious SHR and WKY rats. *J Am Soc Neph* **8**:24A, 1997.

35. **Rossi NF** and H Chen. Effect of sinoaortic denervation and chronic intracerebroventricular endothelin 1 on systemic arterial pressure, plasma vasopressin and AVP gene expression. *FASEB J* **12**:A66, 1998.
36. **Rossi NF** and H Chen. Bilateral paraventricular nucleus lesions prevent the increased arterial pressure due to intracerebroventricular endothelin 1. *The Physiologist* **41**:832, 1998.
37. **Rossi NF**, O'Leary DS, Scislo T and H Chen. Chronic glycemic control improve baroreflex bradycardia and renal sympathetic nerve activity in streptozotocin-diabetic rats. *International Motor City Diabetes Symposium*, October, 1998.
38. Hammond RL^{*}, DS O'Leary, RA Augustyniak^{*}, K Lapanowski, PC Churchill and **NF Rossi**. Muscle metaboreflex recruits vasopressin and other humoral and sympathetic mechanisms during dynamic exercise in heart failure to support hemodynamic stability. World Congress on Neurohypophysis, 1999.
39. **Rossi NF** and H Chen. Endothelin type A receptor blockade within the CNS improves baroreflex sensitivity in spontaneously hypertensive rats. *FASEB J* **13**:A773, 1999.
40. Scislo M^{*}, TJ Scislo, H Chen, DS O'Leary, and **NF Rossi**. Baroreflex sensitivity of renal sympathetic nerve activity increases after AT₁ receptor blockade in streptozotocin diabetic rats. *FASEB J* **14**:A625, 2000.
41. Jena M, M Ye, JR Sowers and **NF Rossi**. An inositol-1,4,5-triphosphate insensitive, mechanosensitive intracellular calcium store in vascular smooth muscle cells. *FASEB J* **14**:A581, 2000.
42. **Rossi NF**, TI Musch and H Chen. Intracerebroventricular endothelin 1 results in an attenuated pressor response and an increased plasma vasopressin in rats with heart failure due to coronary ligation. *FASEB J* 2001 (in press).
43. **Rossi NF** and H Chen. Vasopressin secretion induced by hypothalamic ET_B receptor stimulation is mediated by glutamatergic and modulated by GABAergic mechanisms. *Seventh Intl Conf on Endothelin*, 2001.
44. **Rossi NF**, TI Musch and H Chen. Intracerebroventricular endothelin 1 results in an attenuated pressor response and an increased plasma vasopressin in rats with heart failure due to coronary ligation. *FASEB J* 2001
45. **Rossi NF**, M Maliszewska-Scislo, T Scislo and H Chen. Acute effects of losartan and enalapril on renal sympathetic nerve activity and heart rate baroreflex in conscious streptozotocin diabetic rats. *J Am Soc Nephrol* **12**:155A, 2001.
46. Quasem M, G Al-Tabbaa, **NF Rossi**, K Daly, MK Koss, S Rashid, J Dunbar and SD Migdal. Eating disorders in hemodialysis patients: Is leptin the answer? *J Am Soc Nephrol* **12**:408A, 2001.
47. Yingst D, R Mattingly, G Al-Tabbaa, K Massey and **NF Rossi**. Angiotensin II alters phosphorylation of the alpha subunit of the Na,K-ATPase in the rat proximal tubule. *J Am Soc Nephrol* **12**:44A, 2001.
48. Scislo M, H Chen and **NF Rossi**. Effect of central endothelin blockade on the baroreflex in rats with doxorubicin heart failure. *FASEB J* **16**:A793, 2002.
49. Mattingly R, **NF Rossi**, K Massey and D. Yingst. Angiotensin II stimulates activity and alters phosphorylation of the rat kidney alpha subunit of Na,K-ATPase expressed in opossum kidney cells. *FASEB J* **16**:A465, 2002. [also presented at Gordon Conf. in Tuscany, Italy, 2002]
50. Ansorge EJ, SH Shaw, **NF Rossi** and DS O'Leary. Muscle metaboreflex control of coronary vasculature is workload dependent. *FASEB J* **16**:A765, 2002.

51. Yingst DR, K Massey, **NF Rossi** and RR Mattingly. Angiotensin II alters phosphorylation of α subunit of Na,K-ATPase at multiple sites. *Intl. Meeting on the Sodium Pump*, Denmark, 2002.
52. **Rossi NF**. The pressor response induced by endothelin 1 acting at the subfornical organ is mediated by an AMPA receptor within the paraventricular nuclei. *Am Physiological Society Meeting on Neural Control of the Cardiovascular System*, July, 2002
53. Yingst D, K Massey, **NF Rossi** and R Mattingly. Angiotensin II rapidly increases Na affinity and alters conformation of renal Na,K-ATPase. *FASEB J* 17:A1221, 2003.
54. Scislo MM, J Fallucca and **NF Rossi**. Neural and hemodynamic effects of bradykinin after enalapril in diabetic and normal rats. *FASEB J* 17:A855, 2003.
55. Ansorge EJ, ML Perinot, **NF Rossi** and DS O'Leary. Altered muscle metaboreflex control of coronary blood flow and ventricular function in heart failure. *FASEB J* 17:A22, 2003.
56. Mohanty MJ, Shi T, Chen H and **NF Rossi**. Greater increase in NKCC1 activity in response to cyclical stretch in genetically hypertensive rats. *Am J Nephrol*, 15: 198A, 2004.
57. **Rossi NF**, Black SM, Telemaque-Potts S and H Chen. Effect of dominant negative constructs of neuronal nitric oxide synthase in paraventricular nucleus on the endothelin-1 induced pressor and vasopressin response. *Proceeding of the 8th International Conf. on Endothelin*, p. 80, 2003.
58. Maliszewska-Scislo M, H Chen H and **NF Rossi**. Effect of subfornical organ lesion on the baroreflex in normotensive and 2 kidney-1 clip hypertensive rats. *FASEB J* 18:A1071, 2004.
59. **Rossi NF**, Chen H and M Maliszewska-Scislo. Exercise training decreases renal sympathetic tone and ENaC abundance in 2K-1C hypertensive rats. *FASEB J* 18:A1260, 2004.
60. Sala-Mercado, JA, RL Hammond, J-K Kim, **NF Rossi**, LW Stephenson and DS O'Leary. Muscle metaboreflex control of ventricular contractility. *FASEB J* 2004 18:A1260, 2004.
61. Kim J-K, JA Sala-Mercado, RL Hammond, **NF Rossi** and DS O'Leary. Heart failure alters the strength and mechanisms of arterial baroreflex pressor responses during dynamic exercise. *FASEB J* 18:A1261, 2004.
62. Haught AL, CM Foley, PJ Mueller, **NF Rossi**, CM Heesch and EM Hasser. Effects of cardiovascular deconditioning on neurohumoral response to blood loss. *FASEB J* 18A1073, 2004.
63. Mohanty, MJ, T Shi, H Chen and **NF Rossi**. Greater increase in NKCC1 activity in response to cyclical stretch in genetically hypertensive rats but not in rats with secondary hypertension. *J Am Soc Nephrol* 15: 198A, 2004.
64. **Rossi NF** and H Chen. ENaC abundance decreases in normotensive and 2K-1C hypertensive rats after exercise training. *J Am Soc Nephrol* 15:200A, 2004.
65. DeGracia DJ, H Montie, F Kayali, A Haezebrouch and **NF Rossi**. Renal ischemia and reperfusion activates the alpha subunit of initiation factor (eIF2 α) kinase PERK. *FASEB J* 19:A484, 2005.
66. Massey KJ, RR Mattingly, **NF Rossi** and DR Yingst. Rapid and direct stimulation of Na,K-ATPase activity by angiotensin II in rat proximal tubules involves recruitment to the plasma membrane. *FASEB J* 19:A1589, 2005.

67. Doci TM, **NF Rossi**, H Chen and DR Yingst. A digoxin affinity column for the recovery of rat kidney Na,K-ATPase. *FASEB J* 19:A1152, 2005.
68. Haught AL, CM Foley, PJ Mueller, **NF Rossi**, CM Heesch and EM Hasser. Effects of cardiovascular deconditioning on the neurohumoral response to blood loss. *FASEB J* 19:A614, 2005.
69. Yingst DR, KJ Massey, RR Mattingly and **NF Rossi**. Rapid decreases in the γ subunit and increases in the α subunit of Na,K-ATPase in the basolateral membrane of rat proximal tubules in response to angiotensin II. *J Am Soc Nephrol* 16:344A, 2005.
70. Singh A, K Filippova, R Pasupulati and **NF Rossi**. Type I cryoglobulinemia with primary biliary cirrhosis: late development of lymphoid dyscrasia and response to anti-CD 20 monoclonal antibody (rituximab). *J Am Soc Nephrol* 16:776A, 2005.
71. Augustyniak RA, EJ Ansorge EJ, JK Kim, JA Sala-Mercado, RL Hammond, **NF Rossi** and DS O'Leary. Muscle metaboreflex responses during recovery from pacing-induced heart failure. *FASEB J* 20:A737, 2006.
72. Yingst DR, TM Doci, Q Li, E Rucker, **NF Rossi**, KJ Massey and RR Mattingly. Angiotensin II alters the interaction of Na,K-ATPase with the cardiac glycoside digoxin via multiple sites of phosphorylation on the α subunit. *FASEB J* 20:***, 2006.
73. Massey KJ, RR Mattingly, **NF Rossi**, Q Li, and DR Yingst. Angiotensin II increases the amount of the Na,K-ATPase in the plasma membrane of proximal tubule cells by phosphorylation of the α -1 subunit at Ser-943. *FASEB J* 21:A1330, 2007.
74. Yingst DR, TM Doci, Q Li, E Rucker, **NF Rossi**, KJ Massey, and RR Mattingly. Angiotensin II alters the interaction of Na,K-ATPase with the cardiac glycoside digoxin via multiple sites of phosphorylation on the α subunit. *FASEB J* 21:A534, 2007.
75. Maliszewska-Scislo M, H Chen, and **NF Rossi**. Voluntary wheel exercise training decreases arterial pressure in two-kidney one-clip hypertensive rats independent of GABA-ergic mechanisms in paraventricular nucleus. *FASEB J* 21:A932, 2007.

Presentations (Local/Regional)

1. Bowe DM*, **Rossi NF**, McGahan B and MT Haupt. Type III renal tubular acidosis: Case report of a rare cause of severe electrolyte disturbance. *Am College Physicians*, Michigan Chapter, 1988.
2. **Rossi N**. Effects of endothelin on vasopressin and water excretion. Am Heart Association of *Michigan*, 1992.
3. O'Leary DL, Churchill PC and **NF Rossi**. Muscle metaboreflex control of vasopressin and renin release during dynamic exercise in conscious dogs. *Am Heart Assoc of Michigan*, 1992.
4. Arabi Y*, Suliman A*, Kobab H* and **N Rossi**. Acquired central diabetes insipidus associated with systemic malignancy. *American College of Physicians*, Michigan Chapter, 1995.
5. **Rossi NF** and H Chen. Effect of sinoaortic denervation on arterial pressure and AVP secretion induced by ET 1 in SHR and WKY rats. VA Research Day, 1997.
6. **Rossi NF**. Central nervous system effects of endothelin on vasopressin and systemic hemodynamics. Nephrology Research Seminar, 1997.

7. **Rossi NF** and H Chen. Baroreflex control of central endothelin 1-induced AVP secretion and arterial pressure regulation in normal and hypertensive rat strains. VA Research Day, 1998
8. Fringer R*, Sochor M*, Mishak M, Migdal M, Provenzano R and **NF Rossi**. Prognostic Value of Cardiac Troponins in Chronic Renal Failure. Nephrology Research Seminar, 1998.
9. Marwali R* and **NF Rossi**. Multiple arterial aneurysms in a patient with the Ask-Upmark kidney. *Am. College of Physicians*, September, 1998.
10. Luthra K*, Jain S* and **NF Rossi**. Henoch Schonlein purpura and hepatitis C infection. Wayne State University Resident's Research Day, April, 1999. (2nd place award)
11. Luthra K*, Jain S* and **NF Rossi**. Henoch Schonlein purpura and hepatic C infection. *Am. Coll Physicians*, September, 1999.
12. Scislo M*, TJ Scislo, H Chen, DS O'Leary, and **NF Rossi**. AT₁ receptor blockade in streptozotocin diabetic rats does not alter baroreflex sensitivity of renal sympathetic nerve activity. *VA Research Day, 2000*.
13. **Rossi NF** and H Chen. Vasopressin secretion induced by hypothalamic ET_B receptor stimulation is mediated by glutamatergic and modulated by GABAergic mechanisms. *VA Research Day, 2002*
14. Scislo MM, J Fallucca and **NF Rossi**. Bradykinin induced changes in RSNA and hemodynamics in diabetic and normal rats. *VA Research Day, 2003*
15. Li L, Bachour K, Scott M, and **NF Rossi**. Acute gouty arthritis and lead-induced nephropathy associated with occupational exposure to lead fumes. *Am Coll Physicians*, 2004
16. **Rossi NF** and H Chen. Exercise increases renal Na excretion via sympathetic modulation of ENaC. *VA Research Day, 2004*.
17. Maliszewska-Scislo M, H Chen and **NF Rossi**. Effect of subfornical organ (SFO) lesion on the baroreflex in normotensive and 2 kidney-1clip (2K-1C) hypertensive rats. *VA Research Day, 2005*
18. Korashy FM and **NF Rossi**. A rare case of recurrent hyperammonemia in a patient with normal liver function. Regional Am College of Physicians, 2005 (resident awarded 3rd place).

Invited Presentations

- 1988 Adenosine and Renal Hemodynamics
Indiana University, Indianapolis, Indiana
- 1991 Vasoactive Substances and Vasopressin Release
Henry Ford Hospital, Detroit, Michigan
- 1991 - 2002 Diabetes and the Kidney, Harper Hospitals Diabetes Program,
Wayne State University - American Diabetes Association of MI
- 1992 Diabetes and the Kidney, Michigan State University
American Diabetes Association of Michigan
- 1993 Stress and Ethical Dilemmas, Harper Hospital, Detroit, Michigan
- 1993 Taking Charge of Your Well-Being, Diabetes Programs
Bronson Medical Center, Kalamazoo, Michigan
- 1993 Mechanisms of Endothelin Effects on Vasopressin Secretion
4th International Conference on Vasopressin, Berlin, Germany
- 1993 Medical Treatment of Individuals with Dissociative Disorders
Educational Video, in Association with Rainbow House, Taylor, Michigan
- 1993 Risk Factors for HIV Infection and Other Sexually Transmitted
Diseases for Individuals with Multiple Personality Disorder
Educational Video, in Association with Rainbow House, Taylor, Michigan
- 1993 End of Life Decisions: Legal and Ethical Implications
Harper Hospital Education Department, Detroit, Michigan
- 1993 Renal Microvascular Complications in Diabetes Mellitus
DMC Diabetes Day for Physicians, Detroit, Michigan
- 1994 Bioethics: Confronting the Issues, Harper Hospital, Detroit, Michigan
- 1995 Bioethics: Competence, Consent and Compliance, Harper Hospital, Detroit, Michigan
- 1995 Kappa Opioid Effects on Vasopressin Secretion
First Joint World Congress on Vasopressin and Oxytocin, Tochigi, Japan
- 1995 Keynote Address, National Jesuit Honor Society
Time and Work: Ugly 4-Letter Words in the Practice of Scholarship, Leadership & Service
University of Detroit Mercy, Detroit, Michigan
- 1996 Clinicopathologic Conference, Harper Hospital, Detroit, Michigan
Fibrillary Glomerulonephritis
- 1996 Clinicopathologic Conference, Harper Hospital, Detroit, Michigan
Pauci-immune Glomerulonephritis (ANCA Positive)

- 1996 Endothelin as a Neurotransmitter
Renal Research Symposium
University of Colorado Health Sciences Center, Denver, Colorado
- 1997 Hyponatremia: An Update in Clinical Approaches
Grand Rounds, William Beaumont Hospital, Royal Oak, Michigan
- 1998 Investigator Panel for RENAAL Study of Nephropathy in NIDDM
Merck and Co., Inc. National Investigator Meeting
San Diego, California
- 1998 Grand Rounds: Acid Base Disorders
St. Mary's Medical Center, Saginaw Cooperative Hospitals, Saginaw, Michigan
- 1998 Brown Bag Lunch Address: Word Games: Playing to Win
Committee for Status of Women, Wayne State University School of Medicine
Detroit, Michigan
- 2007 American Physiological Society Conference: Workshop on the Paraventricular Nucleus
"Projection neurons of the PVN: Recipients of Highly Selective or Highly Convergent
Sensory Inputs?"
San Antonio, Texas
- 2008 Endothelin: Central Mechanisms of Hypertension
Research Conference, Henry Ford Hospital, Detroit, Michigan
- 1999 Central Mechanisms of ADH Release and Blood Pressure Regulation
Research Seminar, VA Medical Center, Detroit, Michigan
- 2009 Wegener's Granulomatosis and Glomerulonephritis
Greater Detroit Wegener's Patient Group
- 2003 Lupus Nephritis
Lupus Alliance of Michigan
- 2003 Differential Control of Vasopressin Secretion at Selected Neural Loci
Dept. of Cell Biology and Neuroscience, U. California Riverside, California
- 2002 Diabetes and the Kidney
American Diabetes Association, Diabetes Day
- 2004 "Endothelin and Vasopressin in Heart Failure"
Neurocardiovascular Regulation, American Physiological Society
Snowmass, Colorado
- 2005 "Separation of Salt and Water: Taking the Die out of diuretics"
Grand Rounds, Beaumont Hospital, Troy, Michigan
- 2006 Nephrology Update
Family Practice CME Program, Berkley, Michigan
- 2007 "Separation of Salt and Water: Evolution of Intelligent Drug Design"
Grand Rounds, St. John Hospital, Detroit, Michigan