

CURRICULUM VITAE

PHILIP FREDERICK BINKLEY, MD, MPH

ADDRESSES:

Home: 2031 Beverly Road
Columbus, Ohio 43221
614.487.0930

Work: The Ohio State University
Department of Internal Medicine
Division of Cardiovascular Medicine
Suite 110 Davis Heart & Lung Research Institute
473 West 12th Avenue
Columbus, Ohio 43210
614.293.9222; 614.293.5118 FAX

Date of Birth: August 13, 1954

Ohio Wesleyan University: B.A. in Mathematics Suma Cum Laude 1976

Ohio State University: M.D. Cum Laude 1979

The Ohio State University School of Public Health: Master of Public Health with Emphasis in Biostatistics and Epidemiology December, 2004

POST GRADUATE TRAINING, TEACHING ASSIGNMENTS, STAFF APPOINTMENTS

Medical Internship, Ohio State University, Columbus, Ohio	1979-1980
Medical Residency, Ohio State University Columbus, Ohio	1980-1982
Fellowship, Ohio State University, Division of Cardiology, Columbus, Ohio	1982-1985
Clinical Instructor, Ohio State University Department of Medicine, Columbus, Ohio	1982-1985
Assistant Professor of Medicine, Ohio State University, Division of Cardiology, Columbus, Ohio	1985-1991
Associate Professor of Medicine, Ohio State University, Division of Cardiology, Columbus, Ohio	1991-1997
Professor of Medicine, Ohio State University, Division of Cardiology, Columbus, Ohio	1997 - Present
Professor of Epidemiology, The Ohio State University of Public Health	2006- Present
Director, Cardiovascular Research, Division of Cardiology, Ohio State University	1998 - Present
Section Head, Heart Failure/Transplantation	1998 – 2003

Division of Cardiology, Ohio State University
 Graduate Faculty—Biomedical Engineering and Department 1999-Present
 Pathology—Advisor Status

The James Hay and Ruth Jansson Wilson Professor 2000-Present
 of Medicine, Division of Cardiology,
 Ohio State University

Vice Chair for Academic Affairs, Ohio State University 2002-Present

Associate Director of Training and Faculty Development,
 The Davis Heart and Lung Research Institute 2002- Present

Member Board of Trustees of the Department of Internal 2002 - Present
 Medicine LLC

Director's Executive Council of the Dorothy M. Davis 2005- Present
 Heart and Lung Research Institute

LICENSURE

Ohio #35-04-6746

Board Certification

Internal Medicine 1982

Cardiovascular Medicine 1985

Elected Fellow of the American College of Cardiology 1987

COMMITTEES - Department/Division

1. Department of Medicine Library Committee - 1985 to present
2. Division of Cardiology Fellowship Committee - 1985 to present
3. Division of Cardiology Research Committee - 1990 to present
4. Department of Medicine Research Advisory Committee - 1990 to present
5. Chairman Department of Medicine Research Advisory Committee - 1993 to present
6. Department of Medicine Promotion and Tenure Committee – elected 1998
7. Chairman Department of Medicine Research Committee - 1998 to present
8. Chairman Department of Medicine Promotion and Tenure Committee -elected 7/1999

College

Roessler Committee on Student Research

Medical Scientist Training Program Committee

College of Medicine Research Committee

College of Medicine General Research Committee - 1999 to present

College of Medicine Appointments, Promotion & Tenure Committee – 2005 to present

University

Ad Hoc Committee on Clinical Faculty Representation on University Senate 2007 to present

Professional

1. Grant Peer Review Committee. The Central Ohio Service Area of the American Heart Association. 1985 to present.
2. Research Appropriations Committee. The Ohio Affiliate of the American H Association. 1989.
3. Research Advisory Committee. The Central Ohio Service Area of the American Heart Association. 1989 to present.
4. Board of Trustees. Franklin County, American Heart Association. Elected 1990-1993.
5. Community Resource Committee. Franklin County, American Heart Association. Elected 1990.
6. Vice President - Research Advisory Committee. The Central Ohio Service Area of the Ohio Affiliate of the American Heart Association. 1991-1992.
7. Chairman - Community Resource Committee. Franklin County, American Heart Association. 1991-1992.
8. Executive Committee - Board of Trustees. Franklin County, American Heart Association. 1991 to present.
9. Chairman - Central Ohio Service Area Research Committee. The Ohio Affiliate of the American Heart Association. 7/92 to present.
10. Research Steering Committee. Ohio Affiliate of the American Heart Association. 7/92 to present.

11. Board of Trustees - The Ohio Affiliate of the American Heart Association. 6/92 to present.
12. President - Franklin County Board. The Ohio Affiliate of the American Heart Association. 1994-1995.
13. Vice Chairman - Research Steering Committee of the Ohio Affiliate of the American Heart Association. 1994-1995.
14. Chairman - Peer Review Committee of the Ohio Affiliate of the American Heart Association. 1994-1995.
15. Chairman - The Diversity Awareness Subcommittee of the Research Steering Committee of the Ohio Affiliate of the American Heart Association. 1994-1995.
16. Chairman - Volunteer Resources Committee - Franklin County Division of the American Heart Association. 1995 to present.
17. Executive Committee of the State of Ohio Affiliate of the American Heart Association. 1995 to present.
18. Chairman - Ohio-West Virginia Affiliate of the American Heart Association Research Committee. 1995 to 1997.
19. Immediate Past Chair - Research Committee of the Ohio-West Virginia Affiliate of the American Heart Association. 1997 to present.
20. Secretary - Board of Directors, Ohio-West Virginia Affiliate of the American Heart Association. 1997 to present.
21. National Research Committee of the American College of Cardiology. 1996 to present.
22. American Heart Association the Ohio Valley Affiliate - President Elect 7/1999 to present
23. Member North American Steering Committee of the NIH sponsored STICH Trial 2003 to present.

OTHER PROFESSIONAL SERVICES

Chief Proctor - American Board of Internal Medicine Certifying Examination in Internal Medicine. 1987-1992.

MEMBERSHIPS

Fellow of the American College of Cardiology
American College of Physicians - Associate Member
American Heart Association
American Federation for Clinical Research
Central Society for Clinical Research - Elected 1993
American Heart Association Council on Circulation
Heart Failure Society of America - Elected 1996

CONSULTANCY

1. Consultant to Boots Pharmaceuticals - 1992-1993
2. Consultant to Otsuka Pharmaceuticals - 1994 to present
3. Consultant to Premier Research World Wide - 1993 to present
4. Consultant to Medtronic Corporation, Heart Failure Division – 1996
5. Patent Consultant and Expert Witness: Goodwin Procter and Teva Pharmaceuticals 2006 to present

JOURNAL PEER REVIEW AND ABSTRACT REVIEW

Ad Hoc Reviewer for:

Hypertension

Circulation

Journal of the American College of Cardiology

American Heart Journal

Diabetes

Journal of Arteriosclerosis, Thrombosis, and Vascular Biology

American College of Cardiology

Scientific Sessions Abstract Reviewer - Heart Failure 1995-96, 1996-97

Editorial Board, The American Heart Journal

Editorial Board, The Journal of Cardiac Failure

HONORS AND AWARDS

Summa cum Laude - Ohio Wesleyan University - 1976

Chi Gamma Nu Chemistry Honorary - Ohio Wesleyan University

Pi Mu Epsilon Mathematics Honorary - Ohio Wesleyan University

Lease Prize in Mathematics

Phi Beta Kappa - Ohio Wesleyan University (Junior elect)

Cum Laude - Ohio State University College of Medicine

AOA - Ohio State University

Central Ohio Heart Chapter Fellowship - 1983-1984

Central Ohio Heart Chapter Fellowship - 1984-1985

(Franklin County Fellow)

Young Investigator of the Central Ohio

Heart Chapter of American Heart Assoc. 1986-1987

Young Investigator of the Central Ohio
Heart Chapter of American Heart Assoc. 1987-1988
Clinical Associate Physician of the General
Clinical Research Center of the
National Institutes of Health - 1987-1990
Nominated as 1993 Physician of the Year by the Ohio Affiliate of the American Heart
Association
Listed in Best Physicians in Midwest, Specialist in Heart Failure, 1996
Henry Christian National Award For Clinical Research - Presented by the American Federation
for Clinical Research at its Annual National Scientific Meetings 1996, Washington, DC
Entered in 6th edition of "The Best Doctors in America," 1998
Mid-Career Investigator Award in Patients Oriented Research (K-24)
Granted by the NIH (see grants and awards)
Selected as "The Best Doctors in America" in 2002 to present
Unverferth Award for Research and Career Excellence, 2002
Elected to Phi Kappa Phi Graduate Honorary Society 2003
Faculty mentor to Soma Mandal—winner of the 2004 Denman Research Day Award for Health
Sciences Research (the Denman awards are the premiere undergraduate research awards of the
Ohio State University).
Landacre Medical Student Research Society Faculty Member of the Year Award 2007

GRANTS AND AWARDS

1. Central Ohio Heart Chapter. "Aortic Impedance in CHF: Response to Therapeutic Agents", 7/1/85 - 12/31/86. \$18,000.00
2. Pfizer Pharmaceuticals. Analysis of Impedance in a Congestive Heart Failure Population. Pfizer Scholar Award application. 6/86 (not funded).
3. University Seed Grant: Aortic Impedance in Congestive Heart Failure: Response to Therapeutic Agents: 7/1/85-6/30/87. \$7,100.00
4. Central Ohio Heart Chapter: Impedance in CHF: Response to Therapeutic Agents", 7/1/86-6/30/87. \$18,270.00 Grant.
5. Young Investigator Award/Central Ohio Heart Chapter. Impedance in Congestive Heart Failure: Response to Therapeutic Agents: 7/1/86-6/30/87. \$26,000.00 Stipend.
6. Central Ohio Heart Chapter, Influence of Isordil and Hydralazine on Circulatory Power, 1/1/88-6/30/88. \$23,000.00 Grant.
7. Young Investigator Award/Central Ohio Heart Chapter. Influence of Isordil and Hydralazine on Circulatory Power. 7/1/88-6/30/87. \$25,000.00 Stipend.
8. Central Ohio Heart Chapter, Total Artificial Heart: Central & Peripheral Vascular Effects.

- Kevin Murray - PI, **Philip Binkley - CoI.** 7/1/87-6/30/88. \$22,475.00
9. Central Ohio Heart Chapter. Doppler Indices of Diastolic Function: Effects of Heart Rate. Steven Hirsch - PI, **Philip Binkley - Sponsor,** 7/1/87-6/30/88. \$18,000.00 Stipend.
 10. National Institutes of Health. Specialized Center of Research in Heart Failure. Determinants of Vasodilator Efficacy in Heart Failure. 5/88 (approved but not funded)
 11. Central Ohio Heart Chapter. Total Artificial Heart: Central & Peripheral Vascular Effects. Kevin Murray - PI, **Philip Binkley - CoI.** 7/1/88-6/30/89. \$22,475.00
 12. Central Ohio Heart Chapter. Diastolic Function in Cardiac Transplant Recipients and its Relation to Allograft Rejection, Assem Farhat - PI, **Philip Binkley - Sponsor,** \$15,000.00 7/1/88-12/31/89
 13. Central Ohio Heart Chapter, Total Hydraulic Load in Congestive Heart Failure - (Supplemental to National American Heart Association Grant) - 7/1/88-6/30/89. \$15,000.00
 14. Syntex, Mechanisms of Vascular Response to Positive Inotropic Intervention. January 1989, (approved but not funded).
 15. Clinical Associate Professor Award, through General Clinical Research Center of the National Institutes of Health. 7/1/87-6/30/89. \$96,400.00 Grant. 3rd Year Competitive Application. \$40,000.00 Stipend.
 16. Wyeth Laboratories. An Open Label Study of the Effects of Anaritide on Central Hemodynamics and the Regional Blood Flow in Patients with Severe Decompensated Congestive Heart Failure. 1/1/87-12/30/90. \$20,000.00
 17. National Institutes of Health, General Clinical Research Center - Clinical Associate Physician Award. 3rd Year Competitive Application. Approved and renewed 7/1/89-6/30/90. \$48,200.00
 18. American Heart Association - National Chapter, Total Hydraulic Load in Congestive Heart Failure - 7/1/88-6/30/91. \$60,000.00
 19. Galaxo Corp. Modulation of Ventricular-Vascular Interactions by Positive Inotropic Intervention. 1/89. (approved but not funded).
 20. Ohio Affiliate of the American Heart Association: Autonomic Control of Ventricular-Vascular Coupling in Congestive Heart Failure. 7/1/90-6/30/91. \$19,972.00
 21. Ohio Affiliate of the American Heart Association: Fellowship Award to Greg Eaton, M.D., **Philip Binkley, MD.** Faculty Sponsor. 7/1/90-6/30/91. \$20,000.00

22. Ohio Affiliate of the American Heart Association: Autonomic Control of Ventricular-Vascular Coupling in Congestive Heart Failure. (2nd year approval) 7/91-6/92. \$30,000.00
23. Smith Kline & French: A Double-Blind Positive Controlled Crossover Assessment of Renal Response to Intravenous Infusion of Corlopam Compared to Sodium Nitroprusside at Doses That Increase Cardiac Output in Patients with Congestive Heart Failure. 7/1/90-6/30/91. \$169,244.00
24. Boots Pharmaceuticals. Spectral Analysis of Heart Rate Variability in a Population of Patients Treated with Vasodilator Flosequinan Compared to a Placebo Treated Population. 10/90-5/91. \$45,000.00
25. Ohio Affiliate of the American Heart Association: Selective Autonomic Modulation of Ventricular Coupling in Congestive Heart Failure. 7/92-6/93. \$30,000.00
26. Smith-Kline Beecham - "A Double-Blind Positive Controlled Cross-Over Assessment of Renal Responses to Intravenous Infusion of Corlopam Compared to Sodium Nitroprusside in Doses that Increase Cardiac Output in Patients with Congestive Heart Failure" 1990-1991 Total Award: \$169,244
27. Merck Sharp and Dohme - "Open label Pilot Study of the Hemodynamic Effects of Intravenous Enalaprilat Administered as an Extended Infusion to patients with Heart Failure: 1991 Total Award:\$70,500
28. Merck Sharp and Dohme - Multicenter Double-Blind Randomized Parallel Multiple-Dose Placebo Controlled Study of Hemodynamic and Clinical Effects of Mk-954 (Losartan, DUP753) in Patients with Congestive Heart Failure" 1992 Total Award: \$35,571
29. Otsuka Pharmaceuticals - "A Phase 2 Stepwise Open Titration Study of the Pharmacodynamics and Pharmacokinetics of OPC-18790 in Subjects with Heart Failure: 1992-1993 Total Award:\$120,500
30. "Spironolactone Dose-Ranging Study in Symptomatic Heart Failure: 1993-1994 Total Award: \$77,890
31. Wyeth-Ayerst - "A Randomized Multi-Center Study Comparing the Efficacy and Safety of Intravenous Milrinone and Intravenous Nitroglycerin in Patients with Severe Heart Failure" 1993 Total Award: \$134,432
32. Smith-Kline and Beecham - "Prospective Randomized Evaluation of Carvedilol on Symptoms and Exercise in Heart Failure: 1993-1994 Total Award: \$87,000
33. Otsuka Pharmaceuticals - "A Randomized Multiple Dose Study of the Chronic Administration of Vesnarinone (OPCC-8212) in Heart Failure" 1993-1994 Total Award: \$31,500

34. Boots Pharmaceuticals - Autonomic Response to Flosequinan in Congestive Heart Failure - A Placebo Controlled Analysis. **Philip F. Binkley – PI.** 6/92-7/93. \$14,000.00
35. Boots Pharmaceuticals - Autonomic Response to Sibutramine in Normal Subjects. **Philip F. Binkley - PI.** 7/93-12/93. \$11,500.00
36. Boots Pharmaceutical - Autonomic Response to Combination Therapy with Flosequinan and an ACE Inhibitor Compared to an ACE Inhibitor Alone. **Philip F. Binkley - PI.** 7/93-12/93.
37. Ohio Affiliate of American Heart Association. Nagaraja HN-Principal Investigator. Philip Binkley Co-Investigator. Markov Chain Modeling as Noval Means to Assess Heart Rate Variability. 7/1/93-6/30/95. \$30,000.00 per year.
38. Pfizer Pharmaceuticals--The influence of Amlodipine on Autonomic Tone in Patients with Congestive Heart Failure--\$43,0000
39. Merck Sharp and Dohme--Influence of Losartan on Autonomic Tone in Congestive Heart Failure--Dr. Binkley Director of Core Laboratory For Spectral Analysis of Data Acquired in International Trial--\$17,000.
40. Merck Medical School Grant. Influence of an Angiotensin II Antagonist on Large Vessel Compliance and Autonomic Tone in the Early Stages of Ventricular Failure. \$30,000.00
41. Ohio Affiliate of the American Heart Association Fellowship Restoration of Baroreflex Sensitivity with Augmented Myocardial Stimulation in Congestive Heart Failure. . Steven Boyer, M.D., Fellow Awardee, **Philip F. Binkley, M.D., Mentor** 1994 - 1995 \$34,020.00
42. Ohio Affiliate of the American Heart Association Fellowship. Evaluation of Myocardial Metabolism in CHF via 13C Magnetic Resonance Spectroscopy. Brian Foley, M.D. Fellow Awardee, **Philip F. Binkley, M.D. Mentor** 1995 - 1996. \$35,208.00
43. Ohio Affiliate of the American Heart Association Grant in Aid. Differential Regional Conduit Vessel Response to Ventricular Dysfunction in a Paced Canine Model of Heart Failure. Gregory Eaton PI, **Philip F. Binkley CoI.** 1994 - 1996. \$90,000.00
44. National American Heart Association. Mechanisms Governing Ventriculoarterial Coupling in Congestive Heart Failure. **Philip F. Binkley PI.** 7/93-6/96. \$120,000.00
45. National Institutes of Health. Heart Failure Induced by Targeted MCP-1 Expression. P.E. Kolattukudy PI, **Philip F. Binkley CoI.** 9/1/98-8/31/03. \$250,000 per year. Funded 2002.
46. Parke-Davis- "A 12-Week, Double-Blind, Placebo-Controlled, Multicenter Study of Oral YM087 (CI-1025) to Assess Functional Capacity in Patients With Class III Chronic Heart Failure (Protocol 1025-014)" 1999-2000 **Philip Binkley OSU PI.** Total Award: \$ 67,368

47. Parke-Davis- "A Double-Blind, Placebo-Controlled Study of the IV Dose Response of YM087 on Cardiopulmonary Hemodynamics in Patients with Class III/IV Heart Failure." 1999-2000 **Philip Binkley OSU PI** Total award \$97,700
48. Immunex- "Multicenter Double-Blind, Randomized, Placebo-Controlled, Phase II/III Study of the Effects of Recombinant Human Tumor Necrosis Factor Receptor (p75): Fc Fusion Protein (Etanercept) on Improvement in Patients with Chronic Heart Failure" 1999-2000 **Philip Binkley OSU PI** Total award \$87,000
49. Astra- "Candesartan Cilexetil (Candesartan) in Heart Failure Assessment of Reduction in Mortality and Morbidity (CHARM)" 1999- 2001 **Philip Binkley OSU PI** Total Award \$100,000
50. National American Heart Association. Altered Cerebral Vasoregulation in Hypertension and Transient Ischemic Attacks. Vera Novak PI, **Philip Binkley CoI.** 1/1999-12/2002. \$225,000.
51. National Institutes of Health/NIBIB. Paradigm Shifts in clinical Ischemia Detection (Mid Career Scientist Award—K24 EB002637). **Philip F. Binkley PI** 3/15/2000 – 2/28/06 \$603,875
52. National Institutes of Health Mid Career Investigator Award in Patient Oriented Research (R-21). National Institute of Health. Depsipeptide: A Novel Histone Deacetylase Inhibitor in Leukemia. John Byrd, **Philip Binkley (CoI).** 1/1/02-12/31/03. \$656,098.00 total award.
53. National Heart, Lung and Blood Institute. Mechanisms of Chronic Pathobiology in Allografts. Charles Orosz/Clay Marsh PI, **Philip Binkley CoI.** 9/30/01-8/31/06. \$ \$6,268,314 total award
54. National Institute of Health. Pharmacogenetic Antiplatelet Strategies in CHD Patients (K23) Glenn Cooke PI, **Philip Binkley-Mentor.** 12/01/00-11/30/05. \$670,339.00 total award.
55. National Institute of Health & Duke Univ. Surgical treatment for ischemic heart failure (STICH). Robert Michler/Ben Sun PI, **Philip Binkley (CoI).** 06/17/2002 - 05/31/2009. \$181,890 total award.
56. National Institute of Health. Preoperative Treatment of Lung Cancer with rhuMAb VEGF (R21). Gregory Otterson PI, **Philip Binkley (CoI)** 6/2002-6/2004. \$656,098.00 total award.
57. State of Ohio. BRTT Tobacco Grant, Cardiovascular Bioengineering Enterprise. Mauro Ferrari PI, **Philip Binkley, CoI.** 02/01/2003 - 01/31/2006. \$6,500,000.00 total award.
58. Pfizer Pharmaceuticals—Statin Induced Augmentation of Circulating Endothelial Progenitor Cells and Myocardial Viability in Patients with Ischemic Cardiomyopathy. **Philip F. Binkley, PI.** 12/20/2005 - 06/01/2007, \$86,342.

59. CHF Solutions—The Impact of Ultrafiltration versus Standard IV Diuretic Therapy on Heart Rate Variability in Congestive Heart Failure. 06/09/2005 - 06/30/2006 **Philip F. Binkley, PI.** \$47,195.
60. Scios, Inc. Follow-Up Serial Infusions of natreacor (nesiritide) for the Management of Patients with Heart Failure (FUSION II). **Philip F. Binkley, PI** 07/22/2004 - 06/30/2006. \$27,088.
61. Myogen, Inc. Study of oral enoximone versus placebo in advanced chronic heart failure subjects. **Philip F. Binkley, PI.** 11/15/01 - 06/30/06. \$129,781 total reimbursements to date.
62. Myogen, Inc. Enoximone plus extended-release metoprolol succinate in subjects with advanced chronic heart failure (EMPOWER) **Philip F. Binkley, PI** .10/01/03 - 06/30/06. \$11,667.50 total reimbursements to date.
63. Myogen, Inc. An open label enoximone extension study for subjects who clinically deteriorate during the enoximone withdrawal phase (Phase B) of EMPOWER (MY-023) **Philip F. Binkley, PI.** 10/18/04 - 09/15/06. \$5,005.00 total reimbursements to date.
64. National Institutes of Health. Iron and atherosclerosis (R21), Subha Raman PI, **Philip Binkley, CoI.** 08/01/2005 - 07/31/2006. \$411,125.00
65. National Institutes of Health. Eliminating Barriers to Effective Training in Clinical Investigation (T32). **Philip F. Binkley, PI.** 09/30/05 - 08/31/10. \$3,348,925 total award.
66. National Institutes of Health. Cell Junction Proteins in the Heart. Rafael-Fortney and Janssen Co-PI's, **Philip F. Binkley, CoI.** \$3,323,261. **Pending:** initial priority score 170. Resubmission November 07.

PUBLICATIONS

1. Walker S, **Binkley PF**, Neiger D, Fulkerson P, Bush C, Unverferth D, Leier C: Right Ventricular Aneurysm: Clinical and Laboratory Features. Catheterization and Cardiovascular Diagnosis 8(2):137-43, 1982.
2. **Binkley PF**, Bush C, Kolibash A, Magorien R, Hamlin R, Leier C: The Anatomic Relationship of the Esophageal Lead to the Left Atrium. PACE 5:853-859, 1982.
3. Hermiller JB, Walker SS, **Binkley PF**, Kidwell G, Schaal S, Wooley CF, Stang JM, Leier CV: The Electrophysiologic Effects of Upright Posture. American Heart Journal 108(5):1250-4, 1984.
4. **Binkley PF:** Neurohumoral Mechanisms on Congestive Heart Failure in: Dilated Cardio-

- myopathies. Unverferth D. (ed). Futura Publishing Co., Inc., New York. pp 115-133, 1985.
5. Sullivan M, **Binkley PF**, Unverferth D, Ren J, Boudoulas H, Bashore T, Leier C: Prevention of Bedrest-Induced Physical Deconditioning by Daily Dobutamine Infusions: Implications for Drug-Induced Physical Conditioning. *Journal of Clinical Investigation* 76(4):1632-1642, 1985.
 6. **Binkley PF**, Lewe R, Lima J, Parrish D, Leier CV: Enhanced Ventricular Ectopy Following Pindolol: An Adverse Effect of a Beta-Blocker with Intrinsic Sympathomimetic Activity. *American Heart Journal* 112(2):424-426, 1986.
 7. Leier CV, **Binkley PF**, Unverferth DV: Alpha₁-Adrenergic Blockade Redistributes Cardiac Output to the Hepatic-Splanchnic Region in Congestive Heart Failure: Regional Hemodynamic Studies with Indoramin. *Heart Failure* 2(5):231-235, 1986.
 8. Shields BJ, Lima JJ, **Binkley PF**, Leier CV, MacKichan JJ: Determination of Pindolol in Human Plasma and Urine by High-Performance Liquid Chromatography with Ultraviolet Detection. *Journal of Chromatography* 378(1):163-171, 1986.
 9. Lima JJ, **Binkley PF**, Johnson J, Leier CV: Dose and Time-Dependent Binding and Kinetics of Pindolol in Patients with Congestive Heart Failure. *Journal of Clinical Pharmacology* 26(4):253-257, 1986.
 10. **Binkley PF**, Lewe RF, Lima JJ, Al-Awwa A, Unverferth DV, Leier CV: Hemodynamic-Inotropic Response to a Beta-Blocker with Intrinsic Sympathomimetic Activity in Patients with Congestive Cardiomyopathy. *Circulation* 74(6):1390-1398, 1986.
 11. Leier CV, Huss P, Parrish D, **Binkley PF**, Unverferth DV: Preliminary Observations of Chronic Indoramin Therapy in Congestive Heart Failure. *Journal of Cardiovascular Pharmacology* 8(Suppl 2):S112-116, 1986.
 12. **Binkley PF**, Bush C, Fleishman B, Leier C: In Vivo Validation of the Origin of the Esophageal Electrogram. *Journal of the American College of Cardiology* 7(4):813-818, 1986.
 13. **Binkley PF**, Boudoulas H: The Measurement of Myocardial Inotropy. *Cardiotonic Drugs: A Clinical Survey*. Carl V. Leier, M.D. (ed) Marcel Dekker Inc., New York p.5-48, 1986.
 14. Leier CV, Majetich N, **Binkley PF**, Unverferth DV: Hemodynamic Responses to Indoramin at Rest and During Exercise in Congestive Heart Failure. *Pharmacotherapy* 7(3):61-68, 1987.
 15. **Binkley PF**, Bonagura JD, Olson SM, Boudoulas H, Wooley CF: The Equilibrium Position of the Mitral Valve: Non-Invasive Confirmation of a Model of Diastolic Mitral Valve Motion and Transmitral Flow. *American Journal of Cardiology* 59(1):109-113, 1987.

16. Sullivan MJ, **Binkley PF**, Unverferth DV, Leier CV: Hemodynamic and Metabolic Responses of the Exercising Lower Limb of Humans. *Journal of Laboratory and Clinical Medicine* 110(2):145-152:1987.
17. Leier CV, **Binkley PF**, Randolph PH, Unverferth DV: Long-Term Indoramin Therapy in Congestive Heart Failure: A Double-Blind, Randomized, Parallel Placebo-Controlled Trial. *Journal of the American College of Cardiology* 9(2):426-32, 1987.
18. **Binkley PF**, Lewe RF, Unverferth DV, Leier CV: Preservation of the End-Systolic Pressure/End-Systolic Dimension Relation Following Pindolol in Congestive Heart Failure. *American Heart Journal* 115(6):1245-1250, 1988.
19. Leier CV, **Binkley PF**, Carpenter J, Randolph P, Unverferth DV: Cardiovascular Pharmacology of Dopexamine in Low Output Congestive Heart Failure. *American Journal of Cardiology* 62(1):94-99,1988.
20. **Binkley PF**: Mitral Valve Function: Normal Transmitral Flow. In: *Mitral Valve Prolapse and the Mitral Valve Prolapse Syndrome*. Wooley C. and Boudoulas H. (eds), Futura Publishing Co. New York. p 89-106, 1988.
21. **Binkley PF**, Galbraith TA, Shaffer PB, Starling RC, Murray KD, Howanitz EP, Watson KM, Myerowitz PD: Influence of an Extracorporeal Artificial Ventricle on Native Ventricular Performance. *American Heart Journal* 115(5):1119-1121, 1988.
22. Starling RC, Galbraith TA, Baker PB, Howanitz EP, Murray KD, **Binkley PF**, Watson KM, Unverferth DV, Myerowitz PD: Successful Management of Acute Myocarditis with Biventricular Assist Devices and Cardiac Transplantation. *American Journal of Cardiology* 62(4):341-343, 1988.
23. **Binkley PF**, Lewe R, Lima JJ, Unverferth DV, Leier CV: Neurohumoral Profile in Congestive Heart Failure: Response to Beta-Blockade. *Journal of Laboratory and Clinical Medicine* 111(4):393-398, 1988.
24. **Binkley PF**, Lewe R, Unverferth D, Leier CV: Late Systolic Indices of Ventricular Function: Non-invasive Derivation in Congestive Heart Failure. *American Heart Journal* 116(5 Pt 1):1276-82, 1988.
25. Nicolozakes AW, **Binkley PF**, Leier CV: Hemodynamic Effects of Smoking in Congestive Heart Failure. *The American Journal of Medical Sciences* 296(6):377-380, 1988.
26. **Binkley PF**: New Onset of Dyspnea in a Middle-Aged Man. In: *Contemporary Internal Medicine, Vol 1*. Bower J and Mazzaferri EL (eds), Plenum Medical Book Company, New York, pp 290-300, 1988.

27. **Binkley PF**, Lewe R, Unverferth DV, Leier CV: Pindolol in Congestive Heart Failure. *Cardiology Board Review* 6(4):42-48, 1989.
28. Leier CV, **Binkley PF**, Starling RC, Huss-Randolph P: Disparity Between Improvement in Left Ventricular Function and Changes in Clinical Status and Exercise Capacity During Chronic Enoximone Therapy. *American Heart Journal* 117(5):1092-1098, 1989.
29. **Binkley PF**, Shaffer P, Ryan JM, Leier CV: Augmentation of Diastolic Function with Phosphodiesterase Inhibition in Congestive Heart Failure. *Journal of Laboratory and Clinical Medicine* 114(3):266-71, 1989.
30. Starling RC, Baker PB, Hirsch SC, Myerowitz PD, Galbraith TA, **Binkley PF**: The Donor Recipient Atrial Anastomosis After Orthotopic Cardiac Transplantation: An Echocardiographic and Anatomic Description. *American Journal of Cardiology* 64(1):109-111, 1989.
31. Haas GJ, **Binkley PF**, Carpenter JA, Leier CV: Central and Regional Hemodynamic Effects of Flosequinan on Congestive Heart Failure. *American Journal of Cardiology* 63(18):1354-1359, 1989.
32. Krukemyer JJ, Boudoulas H, **Binkley PF**, Lima JJ: Biphasic Pattern of Hypersensitivity Following Acute Propranolol Withdrawal in Normal Subjects. *Life Sciences* 45(17):1547-1551, 1989.
33. **Binkley PF**, Murray KD: Circulatory Assist Devices: Advances and Limitations in Their Short and Long Term Use for the Therapy of Ventricular Failure. *Current Opinion in Cardiology*, 4:372-376, 1989.
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ABSTRACTS AND PRESENTATIONS

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106. Ahmed S, Nunziata E, Leier CV, **Binkley PF**: Relationship of Spectral Measures of Heart Rate Variability to Exercise Capacity in Congestive Heart Failure. Presented at the Midwest Meeting of the American Federation for Clinical Research, Chicago, Illinois, September 19-21, 1996.
107. Ahmed S, Nunziata E, Jacobs R, McDonald J, **Binkley PF**: Diurnal Variation in Age-Associated Autonomic Dysfunction in Women. Presented at the Midwest Meeting of the American Federation for Clinical Research, Chicago, Illinois, September 19-21.
108. **Binkley PF**, Nunziata E, Eaton GM: Decreased Baroreflex Stimulation by the Failing Ventricle Does Not Elicit Autonomic Imbalance or Reduced Vascular Compliance in Congestive Heart Failure. Presented at the Meeting of the Central Society for Clinical Research, Chicago, Illinois, September 19-21, 1996.
109. **Binkley PF**, Eaton GM, Guo R., Tice FD, Pearson AC: Reversible Thinning of the Intimal-Medial Layer Contributes to Remodeling of the Aorta in Congestive Heart Failure. Presented at the Meeting of the Central Society for Clinical Research, Chicago, Illinois, September 19-21, 1996.
110. Ahmed S., Nunziata E, Jacobs R, McDonald J, **Binkley PF**: Diurnal Variation in Age-Associated Autonomic Dysfunction in Women. Presented at the American Heart Association 69th Scientific Session, New Orleans, LA, November 10-13, 1996.
111. **Binkley PF**, Ahmed S, Nunziata E, Cody RJ: Autonomic Response to Amlodipine Differs Between Ischemic and Nonischemic Cardiomyopathy. Presented at the American Heart Association 69th Scientific Session, New Orleans, LA, November 10-13, 1996.

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113. **Binkley PF**, Nunziata E, Leier CV, Washington L, Rucinska E: Relation of Natriuretic Peptides to Degree of Autonomic Dysfunction in Patients with Heart Failure. Presented at the First Annual Scientific Meeting, Heart Failure Society of America, Baltimore, MD, September 21-24, 1997.
114. Selective AT-1 Blockade with Losartan Does Not Restore Autonomic Balance in Patients with Heart Failure. Presented at the First Annual Scientific Meeting, Heart Failure Society of America, Baltimore, MD, September 21-24, 1997.
115. Angiotensin Converting Enzyme Inhibition Does Not Restore Diurnal Variation of Autonomic Tone in Heart Failure. Presented at the First Annual Scientific Meeting, Heart Failure Society of America, Baltimore, MD, September 21-24, 1997.
116. **Binkley PF**, Nunziata E, Leier CV, Washington L, Rucinska E: Relation of Natriuretic Peptides to Degree of Autonomic Dysfunction in Patients with Heart Failure. *Circulation* 96 (8): I-267. Presented at The American Heart Association 70th Scientific Sessions, Orlando, FL November 9-12, 1997.
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118. Selective AT-1 Blockade with Losartan Does Not Restore Autonomic Balance in Patients with Heart Failure. Presented at the American College of Cardiology 47th Annual Scientific Sessions, Atlanta, Georgia, March, 1998.
119. **Binkley PB**, Enrico N, Leier CV: Angiotensin Converting Enzyme Inhibition Does Not Restore Diurnal Variation of Autonomic Tone in Heart Failure. *Circulation* 98(17):420 :1-83.
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122. **Binkley PF**, Houle MS, Castillo L, Hensley J, Hohl CM, Altschuld RA, Billman GE.

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124. **Binkley PF**, Moldovan NI, Eaton GM, Strauch AM, Goldschmidt-Clermont PJ. Apoptolysis: A Novel Mechanism for Plaque Ulceration and Rupture. *Journal of the American College of Cardiology* 33(No. 2 Suppl A): 278A, 1999. Presented at the 48th Annual Scientific Sessions of the American College of Cardiology, New Orleans LA, 1999.
125. **Binkley PF**, Eaton GM, Moldovan NI, Leier CV, Goldschmidt-Clermont PJ: Angiotensin Receptor Subtype-1 Blockade Prevents Vascular Remodeling in the Paced Canine Model of Heart Failure. To be presented at the Third Annual Meeting of the Heart Failure Society of America, San Francisco, CA. September 22-25, 1999.
126. **Binkley PF**, Eaton GM, Moldovan NI, Hatton PA, Leier CV, Goldschmidt-Clermont PJ: Progressive Decrease in Aortic Intimal-Medial Thickness in the Paced Canine Model of Ventricular Failure: Evidence for Apoptotic Vascular Remodeling. To be presented at the Third Annual Meeting of the Heart Failure Society of America, San Francisco, CA. September 22-25, 1999.
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133. Michael F. Deucher, Pappachan E. Kolattududy, Pascal Goldschmidt, Patricia Hatton, Doug M. Brown; **Philip F. Binkley**. Clinical Assessment of Myocardial Dysfunction in Targeted Expression of MCP-1 in the Murine Heart. Presented at the 3rd Annual Scientific Meeting of the Heart Failure Society. *Congestive Heart Failure (Vol. 5 Abstract Issue):* 29; 91.
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140. Shoukang Zhu, Manisha H Shah, Christine S Moravec, Rene Alvarez, Pascal Goldschmidt-Clermont, **Philip F. Binkley**. Reduced Vascular Endothelial Growth Factor (VEGF) Receptor But Not VEGF Production Distinguishes Ischemic From Nonischemic Cardiomyopathy. Presented at the 50th Annual Scientific Session of the ACC, March 18-21, 2001, Orlando, FL.
141. **Binkley PF**, Liu-Stratton Y, Hatton P, Cooke G. A Polymorphism of the Endothelial Nitric Oxide Synthase Gene is Associated with Increased Sympathetic Drive in Patients With Congestive Heart Failure. Presented at the 50th Annual Scientific Session of the ACC, March 18-21, 2001, Orlando, FL.
142. Khouri S, Bacon J, Eaton GM, **Binkley PF**, Orsinelli D. Correlation Between Two-Dimensional Echocardiography and Myocardial Electromechanical Mapping in the Assessment of Global and Segmental Left Ventricular Systolic Function. Presented at the American Society of Echo. *Journal Am Society of Echo*, 2001;14(5):482.
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144. Raman SV, Cooke GE, **Binkley PF**. Myocyte Mitosis and Post-infarct Ventricular Tachycardia (letter). *New England Journal of Med* 2001; 345(15):1130
145. Khouri S, Hassanain H, Goldschmidt-Clermont p, **Binkley PF**. Left Ventriculas Remodeling in Response to Hypertension Induced by Targeted Expression of Rac 1 in Murine Smooth Muscle. *J Cardiac Failure* 7(3);20, 2001.
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147. Pohorence-Ferguson J, Liu-Stratton Y, Cooke G, **Binkley, PF**. Dilated Cardiomyopathy and the Microsatellite Polymorphism of Hem Oxygenase 1. Presented at the American Society of Human Genetics, October 16, 2002. Baltimore MD.

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150. **Binkley PF**, Bush C, Pozderak R, Eaton G, Khouri S. Redefinition of Viable Myocardium by Endocardial Catheter Mapping in Ischemic Cardiomyopathy. 2002 (Submitted)
151. Raman SV, Bush CA, Ryan JM, **Binkley PF**, King MA. Multislice Cardiac CT: Identifying Mechanism of Coronary Artery Disease. *International Journal of Cardiovascular Imaging* 2002. (In Press)
152. Ferketich AK, **Binkley PF**. "Depression, Gender and C-Reactive Protein: Results from NHANES III. *American Journal of Epidemiology*, 2003; 157:S215.
153. **Binkley PF**, Ferguson J, Hatton P, Yamokoski L, Cooke G. QRS Duration is the Most Significant Determinant of Recovery of Normal Left Ventricular Function with Medical Therapy in Patients with Dilated Cardiomyopathy. Presented at the 7th Annual National Meeting of the Heart Failure Society of America. Las Vegas, Nevada. September 2003.
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156. **Binkley PF**, Hatton P, Yamokoski L, Leier CV. Preservation of Endogenous Ventricular Synchrony is a Determinant of Recovery of Normal Ventricular Function in Patients with Dilated Cardiomyopathy. *Circ* 2003;108(17):2056.
157. Pohorence-Ferguson J, Liu-Stratton Y, Cooke G, **Binkley, PF**. Dilated Cardiomyopathy and the Microsatellite Polymorphism of Hem Oxygenase 1. Presented at the American Society of Human Genetics, 2003.
158. Dib N, Kereiakes D, McCarthy P, Dinsmore J, MacLellan WR, Fonarow G, Michler R,

- Buchele D, **Binkley PF**, Gahremanpour A, Kane S, Ghazoul M, Diethrich E. Long-Term Follow-Up of Safety and Feasibility of Autologous Skeletal Myoblast Transplantation in Patients Undergoing Coronary Artery Bypass Graft Surgery. *JACC* 2004;48(5)supplA:1001-24.
159. Dib N, Kereiakes D, McCarthy P, MacLellan R, Fonarow G, Michler R, Campbell A, Buchele D, **Binkley PF**, Dinsmore J, Gahremanpour A, Ghazoul M, Opie S, Diethrich E. Two-year Follow-Up of the Feasibility and Safety of Autologous Myoblast Transplantation for Ischemic Cardiomyopathy in Patients Undergoing Coronary Artery Bypass Grafting. *Circulation* 2004;110(17): III-51.
160. Pohorence-Ferguson J, Liu-Stratton Y, Cooke GE, **Binkley PF**. Promoter polymorphisms of Heme Oxygenase 1 and their influence on cardiovascular disease in African Americans. Presented at the 2004 annual meeting of the American Society of Human Genetics, October 2004.
161. Ferketich AK, **Binkley PF**. Psychological Distress and Cardiovascular Disease: Results from the 2002 National Health Interview Survey (NHIS). Presented at the 2004 National Meeting of the Heart Failure Society of American, Toronto, Canada
162. Ferketich AK, **Binkley PF**. Heart Failure and Inflammation: Results from the Third National Health and Nutrition Examination Survey (NHANES III). Presented at the 2004 National Meeting of the Heart Failure Society of American, Toronto, Canada
163. Farra Y, **Binkley PF**. The Relation Between Plasma BNP level and the Length of Hospital Stay in Patients with Congestive Heart Failure. Presented at the 2004 National Meeting of the Heart Failure Society of American, Toronto, Canada
164. Ferketich AK, Ferguson JP, **Binkley PF**. Elevated Depressive Symptoms and Inflammation Among Heart Failure Patients. Supplement to *Journal of Cardiac Failure*, 10(No.4):S45;101. Presented at the 8th Annual Scientific Meeting of the Heart Failure Society of America, September 12-15, 2004.
165. Farra YM, **Binkley PF**. The Relation between Plasma Brain Natriuretic Peptide Concentration and Length of Hospital Stay in Patients with Congestive Heart Failure. Supplement to *Journal of Cardiac Failure*, 10(No.4):S52;126. Presented at the 8th Annual Scientific Meeting of the Heart Failure Society of America, September 12-15, 2004.
166. Auseon AJ, Ferguson JP, Cooke GE, **Binkley PF**. Association of a Common Variant in the AMPD1 Gene with Exercise Capacity in patients with Heart Failure: Prelude to a Positive Prognosis? Supplement to *Journal of Cardiac Failure*, 10(No.4):S58;149. Presented at the 8th Annual Scientific Meeting of the Heart Failure Society of America, September 12-15, 2004.

167. Ferketich AK, **Binkley PF**. Heart Failure and Inflammation: Results from the Third National Health and Nutrition Examination Survey (NHANES III). Supplement to Journal of Cardiac Failure, 10(No.4):S93;276. Presented at the 8th Annual Scientific Meeting of the Heart Failure Society of America, September 12-15, 2004.
168. Dib N, Kereiakes D, McCarthy P, MacLellan R, Fonarow G, Michler R, Campbell A, Buchele D, **Binkley PF**, Dinsmore J, Gahremanpour A, Ghazoul M, Pollock-Maddox W, Netterville L, Diethrich E. Three Year Follow-Up of the Feasibility and Safety of Autologous Myoblast Transplantation for Ischemic Cardiomyopathy in Patients Undergoing Coronary Artery Bypass Grafting. JACC 2005; 45(3):4A.
169. Ferguson J, Khan YM, Feldman DS, Cooke GE, **Binkley PF**. The Microsatellite Polymorphism of Heme Oxygenase-1 and its Influence on Heart Failure in African American Patients: Implications for the Results of the African America Heart Failure Trial. Presented at the 2006 National Scientific Sessions of the America Heart Association, Chicago, IL, November 12-15. Circulation 2006; 114(18):II-590.
170. Doshi AA, Lesinski AK, **Binkley PF**. A Promoter Polymorphism of the Endothelial Nitric Oxide Synthase Gene Reduces Endothelial Nitric Oxide Synthase Expression in Patients With Heart Failure. Presented at the 2006 National Scientific Sessions of the America Heart Association, Chicago, IL, November 12-15. Circulation 2006; 114(18):II-802.
171. **Binkley PF**, Ferguson J, Feldman DS, Leier CV, Khan YM, Cooke GE. Genomic Determinants of Recovery of Normal Ventricular Function in Patients with Dilated Cardiomyopathy. Presented at the 2006 National Scientific Sessions of the America Heart Association, Chicago, IL, November 12-15. Circulation 2006; 114(18):II-804.
172. Johnson AD, Papp AC, Lesinski AK, **Binkley PF**, Sadee W. Allelic Expression Imbalance Analysis in Heart Failure Samples Finds Novel *Cis*-Acting Alleles in *ACE* and *SOD2*. Presented at the 2006 National Scientific Sessions of the America Heart Association, Chicago, IL, November 12-15. Circulation 2006; 114(18):II-590.
173. Hardikar S, Sobotka PA, **Binkley PF**. Diuretic Therapy Increases Plasma Volume in Patients with Congestive Heart Failure. Presented at the 11th Annual Scientific Meeting of the Heart Failure Society of America, Washington, DC, September 2007. Journal of Cardiac Failure 2007; 13(6) Suppl. 148.
174. Yeager KR, Saveanu R, **Binkley, PF**. The Depression Treatment Gap in Patients with Heart Failure. Presented at the 11th Annual Scientific Meeting of the Heart Failure Society of America, Washington, DC, September 2007. Journal of Cardiac Failure 2007; 13(6) Suppl 152.

CONFERENCES

Selected Invited Presentations

1. Assessment of Right and Left Ventricular Function - St. Luke/Roosevelt Medical Center Conference on Critical Care - 1987 - New York, New York.
2. Use of Calcium Antagonists in Management of Hypertension. Logan County Medical Society, 1988.
3. Current Concepts in the Pathophysiology of Congestive Heart Failure. Ohio Affiliate of the American College of Physicians, 1989.
4. The Vascular Effects of Dobutamine. Cleveland Clinic Cardiology Conference, February 1990.
5. The Influence of Pulsatile Load On Ventricular Performance. Veterinary Medicine Hemodynamics Seminar: January 1991.
6. Visiting Professor - McGill College of Medicine, the Royal Victoria Hospital, Montreal, Canada. March, 1991. 1) Research Experience in the Measurement of Pulsatile Hydraulic Load. 2) Medical Faculty Conference - The Evolution of Therapy for Congestive Heart Failure.
7. Biomedical Engineering Graduate Student Seminar - The Application of Engineering Principles to Cardiovascular Research, March 1991.
8. Merck, Sharpe and Dohme National Heart Failure Investigator's Conference - The Use of Spectral Analysis to Desired Changes in Autonomic Tone Associated with ACE Inhibition, May 1991.
9. Pulsatile Load In Congestive Heart Failure. Community Hospital, Indianapolis, Indiana, February 1991.
10. Visiting Professor - University of Chicago Division of Cardiology, September 1999
 - 1) Current Theory of the Pathophysiology and Management of Congestive Heart Failure.
 - 2) Ventriculoarterial Coupling - Its Role in the Evolution of Circulatory Failure.
11. Heart Rate Variability in the Assessment of Autonomic Tone - Loyola University. Division of Cardiology, Chicago, Ill., September 1991.
12. Positive Inotropic Therapy in the Management of Congestive Heart Failure. Riverside Methodist Hospital, Columbus, Ohio: January 1992.
13. Evaluation of Autonomic Tone in Congestive Heart Failure. Flosequinan Mortality Trial Investigators Scientific Sessions, Atlanta, Georgia: February 1992.

14. ACE Inhibitor in Congestive Heart Failure - Clinical Trials - Mount Carmel Family Practice Resident's Conference, Columbus, Ohio: March 1992.
15. Mortality Trials in Congestive Heart Failure and Cardiorenal Effects of ACE Inhibitors. Riverside Methodist Hospital, Columbus, Ohio: April 1992.
16. Visiting Professor - McGill College of Medicine, The Royal Victoria Hospital, Montreal Canada. The Influence of the Vasodilator Flosequinan on Autonomic Tone in Congestive Heart Failure. May 1992.
17. The Use of Spectral Analysis to Assess Autonomic Tone in Congestive Heart Failure. Cardiology - Grand Rounds. Case Western Reserve University. November 12, 1992
18. Current Management of Congestive Heart Failure: A Case Oriented Approach. Medicine Today - The Case Western Reserve University, Department of Medicine, November 13, 1992.
19. Spectral Analysis of Heart Rate Variability: A Tool for Clinical Investigation. Presented at the Ohio State University Interdisciplinary Seminar Series on Heart Rate Variability, March 1993.
20. Spectral Analysis of Heart Rate Variability as a Tool for Investigation of Autonomic Tone in Congestive Heart Failure. Presented at the Ohio State University Seminar Series in Physiology, The Ohio State University, Department of Physiology, May 1993.
21. Current Concepts in the Management of Congestive Heart Failure - St. Luke's Hospital, Kansas City, MO. May 1993
22. Management of Congestive Heart Failure - A Case Oriented Approach. Medical Grand Rounds, The Truman Medical Center, University of Missouri Medical School, Kansas City, MO. May 1993.
23. Acute Management of Congestive Heart Failure. Grand Rounds, Licking Memorial Hospital, Newark, OH. July 1993.
24. Management of Chronic Congestive Heart Failure - New Approaches. Lancaster Fairfield Hospital, Lancaster, OH. July 1993.
25. New Frontier in the Management of Ventricular Failure. Grand Rounds, Good Samaritan Hospital, Zanesville, OH. August 1993.
26. Strategies for the Management of Chronic Ventricular Failure. Park Hospital, Columbus, OH. August 1993.
27. Assessment of Autonomic Tone of the Cardiovascular System - Neurology Grand Rounds. The Ohio State University Hospitals, Columbus, OH. August 1993

28. State of the Art Lecture: Use of Heart Rate Variability to Assess Autonomic Tone in Human Subjects. The 1993 Midwest Regional Meetings of the American Federation for Clinical Research, Chicago, Illinois.
29. Cardiology Research Conference - University of Minnesota. Impedance Measurement as an Index of Circulatory Control in Humans and Animal Models. August 3, 1994.
30. Medical Grand Rounds, Ohio State University Medical Center: Heart Rate Variability, Noise or Music? October 6, 1994.
31. Use of Heart Rate Variability as a Tool for Clinical Investigation. Research Data World Wide and Rhone-Pelanc-Phoer Pharmaceutical Company, Philadelphia, Pa. October 20, 1994.
32. Medical Grand Rounds, Mansfield General Hospital: Emerging Concepts in the Treatment of Hypertension. May 4, 1995.
33. Use of Echocardiography and hemodynamic Monitoring in the Management of Acute Heart Failure. OSU Division of Cardiology, Update on Heart Failure. June 1995.
34. OSU Family Practice, Grand Rounds. New Concepts in the Pathophysiology and Management of Hypertension. June 1995.
35. New Concepts in the Management of Hypertension. Grand Rounds Union County Mercy Hospital, Marysville, Ohio. August 9, 1995 (10 attendees)
36. Congestive Heart Failure. The Columbus Board of Health "To Your Health" Public Education Television Network. July, 1994
37. Evolving Concepts in the Management of Hypertension. Grand Rounds Riverside Methodist Hospital, Columbus, Ohio. August 22, 1995. (75 attendees)
38. Heart Rate Variability as a Measure of Autonomic Tone in Clinical Investigation. Invited Lecture, Bristol Myers Squibb. September, 1995.
39. Hemodynamic Stimuli to Vascular Remodeling. Interdisciplinary Transplant Seminar, Ohio State University. October 4, 1995. (15 attendees)
40. Use of Heart Rate Variability to Assess Autonomic Tone in Clinical Investigation. Clinical Sciences Lecture; Medtronic, Inc. Minneapolis, Minnesota, July 9, 1996. (40 attendees)
41. Early Autonomic Changes in the Evolution of Congestive Heart Failure. International Conference on Clinical Cardiology, Athens, Greece, April 18, 1996.(300 attendees)
42. Vascular Remodeling in Congestive Heart Failure. International Symposium on Functional

Abnormalities of the Aorta. Athens, Greece, April 22, 1996. (200 attendees)

43. Mechanisms and Therapy for the Management of Congestive Heart Failure. National Meeting of the American College of Sports Medicine, Cincinnati, Ohio, May 26, 1996. (300 attendees)

44. Depression, Gender and C-Reactive Protein: Results from NHANES III. Society for Epidemiologic Research Annual Meeting, June 14, 2003.

45. Depression, Gender and C-Reactive Protein: Results from NHANES III. 130th Annual Meeting of the American Public Health Association, November 19, 2003.

46. From Mouse to Man: Lessons Learned from a Translational Science Laboratory. Duke Heart Failure Research Conference. April 24, 2004.

47. A Case of Medical Equipoise. Stich Investigators' Meeting; the 2004 National Meeting of the Heart Failure Society of America, Toronto, Canada.

2. Division/Department

1. Impedance - Basic Concepts - OSU Cardiology Research Conference - December, 1986.

2. Efficacy of Isosorbide Dinitrate in Congestive Heart Failure. Expert Witness for State of Ohio Medicare Committee - 1988.

3. Pathophysiology of Congestive Heart Failure - OSU Symposium on Heart Failure, 1988.

4. Evaluation of Dyspnea. OSU Review Course in Internal Medicine, 1987.

5. The Management of Congestive Heart Failure: Current Strategies. Mount Carmel Medical Center - Resident and Staff Conference - 1989.

6. Management of Congestive Heart Failure - OSU Review Course in Internal Medicine, 1988, 1989, 1990.

7. OMEN Network Presentation. Current Strategies in Congestive Heart Failure Therapy. 1988, 1990.

8. Afterload Reduction in Ventricular Failure. OSU Division of Cardiology Conference, 1990.

9. Vascular Remodeling in Heart Failure. Medical Grand Rounds. 1998

10. Current Medical and Surgical Management of Heart Failure. Medical Grand Rounds. 1998

3. Community Instruction

1. Central Ohio Heart Association Support Group for Patients with Heart Disease. The Cardiomyopathies and Their Therapy, 1989.
2. Ohio State University Cardiomyopathy Support Group- Exercise and Cardiomyopathy, 1990.
3. Management of Heart Failure. City of Columbus Public Affairs Network, 1995.
4. Update on Management of Congestive Heart Failure, Columbus Community Hospital, July 18, 1995.
5. Clinical Use of Angiotensin II Antagonists, Ohio State University Pharmacy Journal Club, Columbus, Ohio. September 28, 1995.
6. Current Concepts in the Management of Hypertension. Ashland County Medical Society. Ashland, Ohio. November 7, 1996.
7. Pathophysiology of Hypertension. Medical Grand Rounds. Kettering Memorial Hospital, Kettering, Ohio. January 5, 1996.
8. New Concepts in Management of Hypertension. Grand Rounds, Miami Valley Hospital, Dayton, Ohio. January 17, 1996.
9. New Developments in the Management of Heart Failure. Grand Rounds, Park Medical Center, Columbus, Ohio, February 23, 1996.
10. What's New in the Management of Congestive Heart Failure? Grand Rounds, Lancaster Medical Center, Lancaster, Ohio. June 25, 1996.

4. Invited Chair of Scientific Sessions

1. Chair, Neurohormonal Mechanisms of Congestive Heart Failure. National Scientific Sessions of the American College of Cardiology, Orlando, Florida. March 1996.
2. Chair, Measurement of Ventricular Function, National Scientific Session of American College of Cardiology, Orlando, Florida, March 1996.
3. Chair, Mechanisms and Treatment of Congestive Heart Failure. 1996 Meetings of the Midwestern AFCR, Chicago, Illinois.
4. Chair, Heart Failure. 1996 Meetings of the Midwestern AFCR, Chicago, Illinois.

GRADUATE STUDENTS, MEDICAL STUDENTS, AND FELLOW TRAINEES

1. Christine Ruther - Biomedical Engineering Masters Candidate. Advisor. Completed 1989.

2. Peter Constable - Consultant to and Member of Doctoral Dissertation Committee, Veterinary Medicine. Completed 1994.
3. Scott Patterson - Biomedical Engineering Masters Candidate. Advisor and member of thesis committee. Completed 1994.
4. George Proicou - Biomedical Engineering Masters Candidate. Advisor and member of thesis committee. Completed 1995.
5. Steven Hirsch , M.D. - Fellow in Cardiology. Research Fellowship Advisor, 1987-88.
6. Assem Farhat, M.D. - Fellow in Cardiology. Research Fellowship Advisor, 1988-89.
7. Gregory Eaton, M.D. - Fellow in Cardiology. Research Fellowship Advisor, 1990-91.
8. Steven Boyer, M.D. - Fellow in Cardiology. Research Fellowship Advisor, 1994-95.
9. Brian Foley, M.D. - Fellow in Cardiology. Research Fellowship Advisor, 1995-96.
10. Robert Lewe - Roessler Research Medical Student Advisee, 1984.
11. Robert Rupport - Roessler Research Medical Student Advisee, 1985.
12. Stephen Fahrig - Roessler Research Medical Student Advisee, 1986.
13. Frank Lorch - Roessler Research Medical Student Advisee, 1987.
14. Susan Hammer - Roessler Research Medical Student Advisee, 1987.
15. Shane Summers - Roessler Research Medical Student Advisee, 1987.
16. Abdul Al-Awwa - Research Medical Student Advisee, 1985-87.
17. Kevin Kruse - Roessler Research Medical Student. Advisee, 1988.
18. Juan Carlos Maymer - Roessler Research Medical Student Advisee, 1992.
19. Paul Wadwa - Roessler Research Medical Student Advisee, 1992.
20. Umesh N. Khot - Roessler Research Medical Student Advisee, 1993.
21. Scott Patterson - Roessler Research Medical Student Advisee, 1995.
22. Saleem Ahmed - Boroncle Scholar in Research in Internal Medicine, 1995-1996.

23. Joel Henderson - MD/PHD Candidate, General Examination and Thesis Committee, May 1996.
24. Talal Attar, MD - Resident, Internal Medicine, Cardiovascular Research, 1996
25. Sammer Khouri - MD-Fellow in Cardiology, Research Advisee, 1999 to present.
26. Talal Attar, MD - Fellow in Cardiology, Research Advisee, 1999 to present.
27. Sumithra Mandrikar - One of a Kind PhD candidate in Biostatistics, Thesis Committee, 2000-2001
28. Jeanette Pohorence - PhD Candidate in Pathology, Advisor, 2000 to 2005.