

# CURRICULUM VITAE

## PERSONAL DATA

Name: **Wiltz Walker Wagner, Jr., Ph.D.**  
Home Address: 19421 Quail Creek Drive, Fairhope, AL 36532  
Cell Telephone: (251) 533-2731  
Birth date: July 7, 1939  
Place of Birth: New Orleans, Louisiana  
Citizenship: U.S.A.  
Family: Spouse: Teresa McKay Wagner (deceased)  
Children: Anne Belen Wagner,  
Matthew McKay Schmidt, Thomas McKay Schmidt

## CURRENT POSITION

Professor Emeritus of Molecular and Cellular Pharmacology  
Professor Emeritus of Physiology and Cell Biology  
Emeritus V.K. Stoelting of Anesthesia  
Center for Lung Biology  
College of Medicine  
University of South Alabama  
Mobile, AL 36688  
Telephone: (251) 533-2731  
Email: [wwwagner@southalabama.edu](mailto:wwwagner@southalabama.edu)

## EDUCATION

Ph.D. Physiology and Biophysics, Colorado State University, 1974

## PROFESSIONAL EXPERIENCE

1960-1974 Research Associate, University of Colorado Medical School  
1972-1985 Faculty, NIH Training Grant, University of Colorado Medical School  
1974-1980 Instructor in Medicine, University of Colorado Health Sciences Center  
1980-1985 Assistant Professor of Medicine, University of Colorado Medical School  
1981-1985 Graduate Faculty, University of Colorado Medical School  
1982-1985 Assistant Director, CVP Laboratory, University of Colorado Medical Center  
1985-1990 Associate Professor, Anesthesiology and Physiology, Indiana University Medical School  
1985-2005 Director of Research, Anesthesia Department, Indiana University Medical School  
1986-2005 Graduate Faculty, Indiana University School of Medicine  
1989-1990 V.K. Stoelting Distinguished Investigator, Indiana University School of Medicine  
1990-2005 V.K. Stoelting Chair in Anesthesiology, Indiana University School of Medicine  
1985-1985 Professor of Physiology and Biophysics, Indiana University School of Medicine  
2019-2020 V.K. Stoelting Chair in Anesthesiology Emeritus, Indiana University School of Medicine  
2019-2020 Professor Emeritus of Physiology and Biophysics, Indiana University School of Medicine  
2005-2020 Graduate Faculty, University of South Alabama  
2005-2020 Emeritus Professor of Pharmacology and Physiology, University of South Alabama, Mobile, AL

## RESEARCH INTERESTS

Control of the pulmonary circulation  
Pulmonary gas exchange  
Pulmonary pathophysiology of neutrophils  
Collateral ventilation  
History of medicine  
Comparative physiology of high altitude  
Diagnosis of burn severity

## PROFESSIONAL SOCIETIES

American Society of Anesthesiologists  
American Thoracic Society (board 1999 - 2003)  
Biomedical Engineering Society  
European Respiratory Society  
Fellow, American Heart Association, Cardiopulmonary Council  
Fellow, American Physiological Society, Cardiovascular Section  
International Anesthesia Research Society  
Microcirculatory Society  
New York Academy of Sciences  
Society of the Sigma Xi

## PROFESSIONAL SERVICES

Reviewer for the following journals: *Journal of Applied Physiology* (editorial board 1995-1999), *Pulmonary Circulation* (editorial board 2010 - 2014 ), *American Review of Respiratory Diseases*, *American Journal of Physiology*, *Science*, *Circulation Research*, *Journal of Clinical Investigation*, *Journal of Physiology*, *American Journal of Pathology*, *Journal of Laboratory and Clinical Investigation*, *Microvascular Research*, *Microcirculation*, *Chest*, *Lung*, *Medicine and Science in Sports*, *American Journal of Respiratory and Critical Care Medicine*, *Journal of Vascular Research*, *Annals of Bioengineering*, *Respiratory Physiology & Neurobiology*.

## Study Sections

Cardiovascular A Study Section, NIH, ad hoc 1990.

Respiratory and Applied Physiology Study Section, NIH, ad hoc 1993.

Medical Research Council of Canada, ad hoc 1993, 1995, 1998.

Veterans Administration Merit Review, ad hoc 1993.

Schweizerischer Nationalfonds zur Förderung der wissenschaftlichen Forschung, ad hoc 1994, 1998

Special Consultant, Aerospace Medicine Board, NASA, 1998

John Simon Guggenheim Memorial Foundation, fellowship evaluation, ad hoc 1998.

Small Business Innovation Research Study Section, Center for Scientific Review, NIH, 2000.

Parker B. Francis Foundation, fellowship evaluation, ad hoc, 2000.

NIH RIBT Study Section, ad hoc committee, 2006, 2007

Canada Foundation for Innovation, 2011

## Wiltz W. Wagner, Jr.

### Conference Organizations

Advisory Committee, 4th International Symposium on High Altitude Medical Science, Matsumoto, Japan, 1991.  
Chairman, Fifth Grover Conference, The Pulmonary Circulation and Gas Exchange, Deckers, Colorado, 1991.  
Steering Committee, The Grover Conference, 1990 - present.  
Steering Committee, Mechanisms of Hypoxia Pulmonary Vasoconstriction, Matsumoto, Japan, 1991.  
Program Committee, Assembly on Pulmonary Circulation, American Thoracic Society, 1993 - present.  
Chairman, Pulmonary Circulation Assembly Program Committee, American Thoracic Society, 1994 - 1997  
Chairman, Pulmonary Circulation Assembly, American Thoracic Society, 1999 - 2003  
Executive Committee, Pulmonary Circulation Assembly, American Thoracic Society, 1999 - present  
Planning Committee, Pulmonary Circulation Assembly, American Thoracic Society, 1999 - present  
Board of Directors, American Thoracic Society, 1999 - 2003.  
American Thoracic Society Assembly Structure Task Force, 2000.  
Board of Directors, Pulmonary Circulation Foundation, 1999 - present.  
Pulmonary Circulation Foundation, Treasurer, 1999 - present.  
Chair, Special topics in pulmonary physiology: the next generation; American Thoracic Society, 2002  
Strategic Planning Committee, American Thoracic Society, 2003 - 2005.  
Organizational Structure Task Force, American Thoracic Society, 2008 - 2009.

### HONORS AND AWARDS

1966 Honors Achievement Award, The Angiology Research Foundation  
1975 The Wagner Cup, North American Trials Council (Eponym)  
1979 Lectures in Physiology and Medicine, Harvard Medical School, Boston  
1989 Glaxo Visiting Professor, University of British Columbia Medical School, Vancouver  
1990 Distinguished Scientist Lecturer, University of South Alabama, Physiology Department, Mobile  
1990 V.K. Stoelting Chair in Anesthesiology, Indiana University School of Medicine  
1990 Alliance of Distinguished Ranked Professors, Indiana University  
1991 Silver Medal, Chiba Medical Society, Tokyo  
1993 Chairman, Grover Conference on the Pulmonary Circulation, American Heart Association  
1994 Chairman, Pulmonary Circulation Assembly Program Committee, American Thoracic Society  
1999 Chairman, Pulmonary Circulation Assembly, American Thoracic Society (1999-2003)  
1999 Board of Directors, American Thoracic Society (1999-2003)  
2000 Chairman, Awards Committee, Pulmonary Circulation Assembly, American Thoracic Society (1999-present)  
2001 Robert F. Grover Prize: Peter D Wagner, San Diego  
2000 Leadership Award: Carol Vriem, Washington  
2000 Estelle Grover Lecturer, American Heart Association  
2001 Robert F. Grover Prize: John T Reeves, Denver  
2001 Leadership Award: Suzanne Hurd, Washington  
2002 Keynote speaker, Respiratory Section Dinner, American Physiological Society, New Orleans  
2002 Leadership Award: Edward Block, Gainesville  
2002 Robert F. Grover Prize: Charles A Hales, Boston  
2003 Leadership Award: Dorothy Berlin Gail, Washington  
2003 Inaugural Fellow, Council on Cardiopulmonary Physiology, American Heart Association.  
2003 Robert F. Grover Prize: E Kenneth Weir, Minneapolis  
2004 Leadership Award: E. Kenneth Weir, Minneapolis  
2004 Recipient, Robert F. Grover Prize, American Thoracic Society, Indianapolis  
2005 Recipient, Leadership Award, Pulmonary Circulation Assembly, American Thoracic Society  
2005 Retirement portrait (oil), V.K. Stoelting Chair of Anesthesiology, Indiana University School of Medicine  
2005 Emeritus V.K. Stoelting Chair in Anesthesiology, Indiana University School of Medicine  
2007 Robert F. Grover Prize: Jimmie. T, Sylvester, Baltimore  
2008 Robert F. Grover Prize: Dante Peñaloza and Javier Arias-Stella, Lima  
2009 Robert F. Grover Prize: Johannes Piiper, Göttingen  
2011 Robert F. Grover Prize: Jan Herget, Prague  
2011 Nominated, American Thoracic Society Treasurer, declined due to age  
2012 Robert F. Grover Prize: John Newman, Nashville, TN  
2013 Robert F. Grover Prize: Lorna Moore, Denver, CO  
2014 Robert F. Grover Prize: Peter Hackett, Grand Junction, CO  
2014 Emeritus, American Thoracic Society  
2014 Emeritus, American Physiological Society  
2014 G. Edward Folk Senior Physiologists Award, American Physiological Society Distinguished Physiologists Committee  
2019 Emeritus Professor of Pharmacology and Physiology, University of South Alabama, Mobile, AL  
2019 Friend of American Motorcycle Association, Class of 2019, Pickerington, OH  
2019 Hall of Fame, American Motorcycle Association, Class of 2019, Pickerington, OH

## TEACHING EXPERIENCE

### Visiting Lectureships/Professorships

1969 Duke University, Department of Medicine, Durham, NC  
1970 University of California Medical School, Cardiovascular Research Institute, San Francisco, CA  
1972 University of Southern California Medical School, Los Angeles, CA  
1974 University of California Medical School, Department of Medicine, La Jolla, CA  
1979 University of California Medical School, Cardiovascular Research Institute, San Francisco, CA  
1979 Harvard Medical School, Department of Medicine, Boston, MA  
1981 Colorado State University, Department of Physiology, Fort Collins, CO  
1984 Medical College of Wisconsin, Department of Physiology, Milwaukee, WI  
1984 Harvard Medical School, Department of Medicine, Boston, MA  
1987 Université de Paris - Sud, School of Medicine, Paris, France  
1987 Royal Postgraduate Medical School, University of London, England  
1987 Washington University School of Medicine, Department of Medicine, St. Louis, MO  
1988 University of Virginia Medical School, Department of Bioengineering, Charlottesville, VA  
1988 Pennsylvania State University Medical School, Department of Medicine, Hershey, PA  
1988 University of Kentucky Medical School, Division of Pharmacology, Lexington, KY  
1988 Université de Paris - Sud, School of Medicine, Paris, France  
1988 Royal Postgraduate Medical School, University of London, England  
1988 Institut für Anaesthesiologie der Universität Erlangen-Nürnberg, Erlangen, West Germany  
1989 University of Washington School of Medicine, Department of Medicine, Seattle, WA  
1989 University of British Columbia Medical School, Vancouver, British Columbia, Canada  
1989 École Normale Supérieure, Laboratoire de Physique, Paris, France  
1989 Instituto Boliviano de Biología de Altura, La Paz, Bolivia  
1989 Colegio Medico de Santa Cruz, Santa Cruz, Bolivia  
1989 Ludwig-Maximilians-Universität, München, West Germany  
1990 University of Washington School of Medicine, Bioengineering Department, Seattle WA  
1990 University of South Alabama, Physiology Department, Distinguish Scientist Lecture, Mobile, AL  
1991 Baylor Medical School, Leukocyte Biology Department, Houston, TX  
1991 Chiba University School of Medicine, Department of Chest Medicine, Chiba, Japan  
1991 National Cardiovascular Research Institute, Osaka, Japan  
1991 Colorado State University, Department of Physiology, Fort Collins, CO  
1992 NASA/Johnson Space Center, Division of Medical Sciences, Houston, TX  
1992 Guthrie Research Foundation, Sayre, PA  
1992 University of Texas Health Center, Tyler, TX  
1992 University of Utah, Pediatrics Department, Salt Lake City, UT  
1993 University of Minnesota, Department of Medicine, Minneapolis, MN  
1993 University of Cincinnati, Department of Anatomy and Cellular Biology, Cincinnati, OH  
1995 Harvard School of Public Health, Department of Physiology, Boston MA  
1995 Massachusetts Institute of Technology, Department of Fluid Mechanics, Boston, MA  
1996 Tulane University Medical School, Department of Pharmacology, New Orleans, LA  
1996 University of Colorado Medical School, Cardiovascular Pulmonary Laboratory, Denver, CO  
1996 University of South Alabama, Pharmacology Department, Mobile, AL  
1996 Colorado College, Biology Department, Colorado Springs, CO  
1997 Vascular Biology Center, Medical College of Georgia, Augusta, GA  
1998 University of California Medical School, Cardiovascular Research Institute, San Francisco, CA  
1999 Columbia College of Physicians and Surgeons, New York, NY  
1999 Brown University College of Medicine, Providence, RI  
1999 Harvard Medical School, Department of Medicine, Boston, MA  
1999 Johns Hopkins Medical School, Pulmonary Division, Baltimore MD  
2000 University of Pennsylvania, Institute for Environmental Medicine, Philadelphia, PA  
2001 Université de Paris - Est, School of Medicine, Paris, France  
2002 University of Washington, Department of Medicine, Seattle, WA  
2003 University of Washington, Department of Medicine, Seattle, WA  
2003 University of Minnesota, Department of Medicine, Minneapolis, MN  
2004 Medical College of Wisconsin, Christopher Dawson Memorial Symposium, Milwaukee, WI  
2014 Keynote Speaker, Quest Program on Integrity, New York, NY  
2016 Living History of Physiology American Physiological Society <http://www.the-aps.org/mm/Membership/Living-History/Wiltz-Wagner>

**Courses *Indiana***

F 735 Respiratory Physiology Seminar, Course Director, 1987, 1990  
F 702 Seminar in Physiology, 1986-1989, 1995-2006  
F 509 Respiratory Physiology in Dental Physiology Course, 1987- 2005  
F 513 Respiratory Physiology in Medical Physiology, 1988  
F 513 Medical Physiology – Problem Based Learning, 1993-2000  
Pulmonary and Critical Care Fellows Pulmonary Physiology, 1997, 1999, 2000, 2003

**Courses *Alabama***

IDL 590 – Special Topics – 2007 – present  
IDL 630 – Lung Biology – 2006 – present  
IDL 650 – Special Topics – Historical Figures in Pulmonary Research – 2007  
RES-140-001 Respiratory Module Medical students 2013 – present  
Medical School Admissions Committee, *ad hoc* interviewer 2015-2018

**Graduate Student Research Committee Chairman:** *Colorado:* C.B. Feicht, M.S., 1979, C.F. Sanborn, Ph.D., 1983, S.M. Brooks, M.S. 1983, J.M. Berning, M.S., *Indiana:* 1985, J.P. Bartek, M.S., M.D., 1987, L.L. Checkley, M.D., Ph.D., 1992, C.J. Warner, M.S., M.D., 1992, A.M. Lindeman, M.S., 1998, E.M. Jaryszak, M.S., 2000, D. Sines, M.S. 2002, E.M. Jaryszak, M.D., Ph.D. 2003.

**Research Committee Member/Mentor:** *Indiana:* J.W. Barnard, Ph.D., 1987, J.C. Falcone, Ph.D., 1988, J.M. Steenbergen, Ph.D., 1993, D.M. Walker, Ph.D., 1998, Y.M. Kobayashi, Ph.D., 1999, B.T. Weinzapfel, M.D., Ph.D. 2000, M.D., B. Zani, Ph.D. 2005, *Alabama:* Wenkuan Xin, Ph.D., 2008. Xiulan Yang, Ph.D. 2009, Cristhiaan Ochoa, M.D., Ph.D. 2009, Wei Feinstein. Ph.D. 2010, Abdallah AlZoubi, M.D., Ph.D. 2012, Jamie Hill, Ph.D., 2015, Salina Gairhe, PhD, 2014, Ed Crockett, Ph.D., 2015, Kaori Oshima, Ph.D., 2016.

**Post-Doctoral Research Fellows *Colorado, Indiana, and South Alabama***

T. Kuriyama 1973-1975; faculty at Chiba University Medical School  
S. I. Rounds, M.D., 1975-1976; faculty at Brown University College of Medicine  
J.H. Newman, M.D., 1975-1976; faculty at Vanderbilt Medical Center  
G.J. Redding, M.D. 1976-1977, faculty at University of Washington  
M.C. Hammill, M.D., 1976-1977; faculty at Mayo Clinic  
T.S. Johnson, M.D., 1976-1977; faculty at Harvard Medical School  
M.N. Gillespie, Ph.D., 1981-1982; chairman at University of South Alabama  
M.D. Petrun, M.D., 1982-1983; private practice, Ft. Collins  
D.F. Boggs, Ph.D., 1983-1985; faculty at University of Montana  
S.A. Gebb, Ph.D., 1993-1994; faculty at University of South Alabama

**Anesthesia, Surgical, and Pediatric Clinician Scientists *Indiana***

J. D. Emhardt, M.D., 1986-1987; faculty at Indiana University  
L. J. Means, M.D., 1986-1987; faculty at Indiana University  
P. M. McCormick, M.D., 1987; private practice, Minneapolis  
R. G. Presson, M.D., 1987-1988; faculty at Indiana University  
T. N. Harwood, M.D., 1988-1989; faculty at Bowman Gray Medical School  
M. C. Yoder, M.D., 1988-1990; faculty at Indiana University  
S. C. Hillier, M.D., 1989-1990; faculty at Indiana University  
K. O. Mounts, M.D., 1990-1991; faculty at Medical College of Wisconsin  
S. G. Walker, M.D., 1997-1999; faculty at Indiana University  
P. Urusopone, M.D., 1999; faculty of Medicine, Chulalongkorn University, Bangkok  
M.D. Rodefeld, M.D. 2004; faculty at Indiana University School of Medicine

## Wiltz W. Wagner, Jr.

### Sabbatical Fellows *Colorado and Indiana*

R. L. Capen, Ph.D., 1977-1978, 1984-1986, 1992-1993; Biology Chairman at The Colorado College  
T. Kuriyama, M.D., 1978-1980; Pulmonary Chairman at Chiba University Medical School, Japan  
T. Sugita, M.D., Ph.D., 1980-1982; faculty at Chiba University Medical School, Japan  
P. A. Hervé, M.D., 1986; faculty at the University of Paris  
O. Okada, M.D., 1989-1991; faculty at Chiba University Medical School, Japan  
N. Tanabe, M.D., 1994-1996; faculty at Chiba University, Japan  
J. Aono, M.D., 1995-1996; faculty at Kochi Medical School, Japan.

### Indiana University Administrative Duties

Physiology Graduate Committee, 1996-1999  
Physiology Faculty Meeting Moderator, 1996-2003  
Chairman Education Committee, NIH training grant "Lung Pathophysiology," 1997-2003  
Salary Equity Panel, 1999  
Search Committee for Pulmonary Division Chief, 2001  
Search Committee for Anesthesia Chairman, 2002

### University of South Alabama Medical School

Liaison Committee on Medical Education 2010

### MAJOR RESEARCH GRANTS

"The Effect of Hypoxia on the Pulmonary Vessels," National Science Foundation, Co-Principal, 1963-1969	150,000
"The Effect of Hypoxia on the Pulmonary Vessels," U.S. Army Medical R&D Command, Principal, 1967-1972	124,000
"Pulmonary Circulatory Response to Hypoxia," National Institutes of Health RO1, Principal, 1971-1973	80,578
"Program Project Grant; Project C: Pulmonary Microcirculation," National Institutes of Health, Principal, 1972-1982	712,000
"Training Grant on Hypoxia and High Altitude," National Institutes of Health T-32, Co-Principal, 1977-1985	785,000
"Program Project Grant; Project C: Pulmonary Microcirculation," National Institutes of Health, Principal, 1972-1982	712,000
"Athletic Amenorrhea," National Institutes of Health, Principal, 1981-1984	256,000
"Program Project Grant; Project C-V: Collateral Ventilation," National Institutes of Health, Principal, 1982-1985	162,000
"Pulmonary Microcirculatory Hemodynamics," National Institutes of Health RO1, Principal, 1983-2007	3,400,000
"Skeletal Integrity of Amenorrheic Runners," National Dairy Council, Principal, 1984-1985	38,000
"Special Fellowship" for R. L. Capen, National Institutes of Health, Sponsor, 1985-1986	27,000
"Pulmonary Circulatory Transport Functions," American Heart Association, Indiana Affiliate, Principal, 1985-1986	28,000
"Hemodynamics of the Pulmonary Microcirculation," Indiana University Research Grant, Principal, 1986-1987	12,800
"Almitrine et Circulation Capillaire Pulmonary," Servier Laboratories, Co-Principal, 1987-1990	105,000
"Hormone Profiles in Amenorrheic Runners," Methodist Research Foundation, Co-Principal, 1987-1988	15,000
"Pathophysiology of Lung Vascular Injury," National Institutes of Health RO1, Co-Principal, 1986-1991	676,766
"Pulmonary Microcirculation in Perinatal Lambs," American Society of Anesthesiologists, Co-Principal, 1988-1989	15,000
"The Fate of Gas Emboli in Pulmonary Circulation," International Anesthesia Research Grant, Co-Principal, 1988-1989	5,000
"Effect of Almitrine on Pulmonary Microcirculation," International Anesthesia Research Grant, Co-Principal, 1989	25,000
"Pulmonary Microcirculation in Perinatal Lambs," Riley Memorial Association, Co-Principal, 1988-1989	18,300
"The Fate of Gas Emboli in the Pulmonary Circulation," Indiana University Research Grant, Co-Principal, 1989-1990	18,000
"The Pulmonary Circulation and Gas Exchange," National Institutes of Health, Principal, 1991-1992	10,000
"The Pulmonary Circulation and Gas Exchange," American Heart Association Grant, Principal, 1991-1992	15,000
"Mechanisms of Neutrophil Margination in the Normal Lung," National Institutes of Health, Principal, 1992-1996	1,621,264
"Training Grant on Lung Pathophysiology," National Institutes of Health T-32, Co-Investigator, 1993-2003	3,335,310
"The Imaging CryoMicrotome, National Institutes of Health RO1, Co-Investigator, 2001-2002 (pending)	208,701
"Capillary Fractal Perfusion Patterns May Protect the Lung During Microgravity, NASA, Principal, 2001-2002	22,000
"Training in Cell Signaling and Lung Pathobiology" National Institutes of Health, faculty, 2004-2014	1,842,758
"G. Edgar Folk Senior Physiologist Award", American Physiological Society, 2014	500

## Wiltz W. Wagner, Jr.

### PUBLICATIONS

- 1 Averill, K.H., W.W. Wagner, Jr., and J.H.K. Vogel. Studies on bronchial arterial blood flow and bronchopulmonary anastomoses. *Med. Thorac.* 19: 598-608, 1962.
- 2 Averill, K.H., W.W. Wagner, Jr., and J.H.K. Vogel. Correlation of right ventricular pressure with right ventricular weight. *Amer. Heart J.* 66: 632-635, 1962.
- 3 Vincent, T.N., R.S. Mitchell, G.F. Filley, G. Dart, L. Harris, W.W. Wagner, Jr., T. Petty, and S. Ryan. Alveolar duct ectasia: An asymptomatic pulmonary change related to age. *J. Lancet* 84: 331-336, 1964.
- 4 Wagner, W.W. Jr. Duct ectasia as studied by microradiography. *Med. Thorac.* 22: 188-195, 1965.
- 5 Wagner, W.W. Jr. and G.F. Filley. Microscopic observation of the lung in vivo. *Vascular Dis.* 2: 229-241, 1965.
- 6 Wagner, W.W. Jr., D.B. Barker, and G.F. Filley. A photographic method for quantitating blood flow in the pulmonary microcirculation. *J. Biol. Photo. Assn.* 35: 95-108, 1967.
- 7 Wagner, W.W. Jr., D.B. Barker, and G.F. Filley. The bioengineering of cinemicrography of the lung in vivo. *San Diego Biomed. Engineering Symp.* 7: 95-98, 1967.
- 8 Wagner, W.W. Jr. Pulmonary microcirculatory observations in vivo under physiologic conditions. *J. Appl. Physiol.* 26: 375-377, 1969.
- 9 Wagner, W.W. Jr., L.P. Latham, P.D. Brinkman, and G.F. Filley. Pulmonary gas transport time. *Science* 163: 1210-1211, 1969.
- 10 Wagner, W.W. Jr. and D.E. Olson. Concerning pulmonary gas transport time. *Science* 165: 824, 1969.
- 11 Wagner, W.W. Jr, P.D. Brinkman, D.B. Barker, and G.F. Filley. Erythrocyte photomicrography: contrast control by monochromatic transillumination. *J. Biol. Photo. Assn.* 37: 156-164, 1969.
- 12 Olson, D.E., K. Horsfield, J. Wagner, W.W. Wagner, Jr., and G.F. Filley. Investigation of flow patterns in the upper airways during mouth breathing. *Amer. Rev. Resp. Dis.* 101: 456-457, 1970
- 13 Wagner, W.W. Jr. Interpretation of in vivo microscopic changes of the pulmonary microanatomy. *Anesth. Analg.* 49: 843-845, 1970.
- 14 King, E.G., W.W. Wagner, Jr., D.G. Ashbaugh, L.P. Latham, and D.R. Halsey. Alterations in pulmonary microanatomy after fat embolism. *Chest* 59: 524-530, 1971.
- 15 Wagner, W.W. Jr., L.P. Latham, and D.R. Halsey. The effect of hypoxia on the pulmonary microcirculation. *In Research Animals in Medicine.* L.T. Harmison (ed) DHEW(NIH) 72-333. Washington DC, p 253-259, 1972.
- 16 Wagner, W.W. Jr. and L.P. Latham. Vasomotion in the pulmonary microcirculation. *In Small Vessel Angiography.* S.K. Hilal (ed), Mosby, St. Louis MO, p 301-306, 1973.
- 17 Wagner, W.W. Jr., L.P. Latham, and D.R. Halsey. The effects of hypoxia and high alveolar pressure on the pulmonary microcirculation. *Chest* 63: 41s-42s, 1973.
- 18 Wagner, W.W. Jr. The effects of hypoxia on the pulmonary capillaries. Ph.D. Dissertation, Colorado State University, Fort Collins CO, 1974.

**Wiltz W. Wagner, Jr.**

- 19 Wagner, W.W. Jr. and L.P. Latham. Airway hypoxia causes pulmonary capillary recruitment in the dog. *J. Appl. Physiol.* 39: 900-905, 1975.
- 20 Wagner, W.W. Jr. and L.P. Latham. Regulation of pulmonary capillary blood flow. *In Muscular exercise and the lung.* Reed CE and Dempsey J (eds), Univ Wisc Press, Madison WI, Chapter 26, p 369-386, 1976.
- 21 Hammill, S.C., W.W. Wagner W.W. Jr., L.P. Latham, W.W. Frost, and J.V. Weil. Autonomic cardiovascular control during hypoxia in the dog. *Circ. Res.* 44: 569-575, 1979.
- 22 Feicht, C.B., T.S. Johnson, B.J. Martin, K.E. Sparks, and W.W. Wagner, Jr. Secondary amenorrhea in athletes. *Lancet II* (9100): 1145-1146, 1979.
- 23 Wagner, W.W. Jr., L.P. Latham, and R.L. Capen. Capillary recruitment during airway hypoxia: the role of pulmonary artery pressure. *J. Appl. Physiol.* 47: 383-387, 1979.
- 24 Reeves, J.T., W.W. Wagner, Jr., I.F. McMurtry, and R.F. Grover. Physiological effects of high altitude on pulmonary circulation. *Int. Rev. Physiol.* 20: 289-310, 1979.
- 25 Capen, R.L., L.P. Latham, and W.W. Wagner, Jr. Diffusing capacity of the lung during hypoxia: the role of capillary recruitment. *J. Appl. Physiol.* 50: 165-171, 1981.
- 26 Kuriyama, T. and W.W. Wagner, Jr. Collateral ventilation protect against high altitude pulmonary hypertension. *J. Appl. Physiol.* 51: 1251-1256, 1981.
- 27 Kuriyama, T., T. Sugita, A. Sawada, S. Watanabe, L.P. Latham, L.D. Horwitz, and W.W. Wagner, Jr. Experimental pulmonary hypertension. *Nippon Kyobu Shikkan Gakkai Zasshi* 19: 820-825, 1981.
- 28 Capen, R.L. and W.W. Wagner, Jr. Intrapulmonary blood flow redistribution during hypoxia increases gas exchange surface area. *J. Appl. Physiol.* 52: 1575-1581, 1982.
- 29 Sanborn, C.F., B.J. Martin, and W.W. Wagner, Jr. Is athletic amenorrhea specific to runners? *Am. J. Ob-Gyn* 143: 859-861, 1982.
- 30 Wagner, W.W. Jr., L.P. Latham, M.N. Gillespie, J. Guenther, and R.L. Capen. Red cell transit times across pulmonary capillaries. *Science* 218: 379-380, 1982.
- 31 Sugita, T., T.M. Hyers, I.M. Dauber, W.W. Wagner, Jr., I.F. McMurtry, and J.T. Reeves. Lung vessel leak precedes right ventricular hypertrophy in monocrotaline treated rats. *J. Appl. Physiol.* 54: 371-374, 1983.
- 32 van Grondelle, A., R.V. Ditchey, B.M. Groves, W.W. Wagner, Jr., and J.T. Reeves. The thermodilution method overestimates low cardiac output in man. *Am. J. Physiol.* 245: H690-H692, 1983.
- 33 Sugita, T., K.R. Stenmark, W.W. Wagner, Jr., P.M. Henson, J.E. Henson, T.M. Hyers, and J.T. Reeves: Abnormal alveolar cells in monocrotaline induced pulmonary hypertension. *Exptl. Lung Res.* 5: 200-215, 1983.
- 34 Grover, R.F., W.W. Wagner, Jr., I.F. McMurtry, and J.T. Reeves. The pulmonary circulation. *In The Handbook of Physiology.* Shepherd J.T. and Abboud F.M. (eds). Waverly Press, Baltimore MD, p 103-136, 1983.
- 35 Brooks, S.M., C.F. Sanborn, B.H. Albrecht, and W.W. Wagner, Jr. Diet in athletic amenorrhea. *Lancet* 1: 559-560, 1984.



**Wiltz W. Wagner, Jr.**

- 36 Kuriyama, T., L.P. Latham, L.D. Horwitz, J.T. Reeves, and W.W. Wagner, Jr. The role of collateral ventilation in maintaining ventilation-perfusion balance. *J. Appl. Physiol.* 56: 1500-1506, 1984.
- 37 Wagner, W.W. Jr. and H.B. Wagner. A history of the pulmonary circulation. *Seminars in Respiratory Medicine* 7: 117-123, 1985.
- 38 Wagner, W.W. Jr. Control of the pulmonary circulation. *Seminars in Respiratory Medicine* 7: 124-135, 1985.
- 39 Sanborn, C.F. and W.W. Wagner, Jr. Athletic amenorrhea - Chap 8, pp 125-148. *In Female Endurance Athletes.* B.L. Drinkwater (ed). Human Kinetics Publ. Champaign IL, 1986.
- 40 Wagner, W.W. Jr., L.P. Latham, W.L. Hanson, S.E. Hofmeister, and R.L. Capen. Vertical gradient of pulmonary capillary transit times. *J. Appl. Physiol.* 61: 1270-1274, 1986.
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### ABSTRACTS 161 titles

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