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Date: April 2017

**ACADEMIC APPOINTMENTS/MAJOR POSITIONS**

2015-present	Executive Vice Chancellor, University of Arkansas for Medical Sciences
2015-present	Dean, College of Medicine, University of Arkansas for Medical Sciences
2015-present	Professor, Department of Biomedical Informatics, University of Arkansas for Medical Science
2015-present	Professor, Department of Internal Medicine, University of Arkansas for Medical Sciences
2013-2015	Distinguished Professor, University of New Mexico
2013-present	Affiliated Professor, Novo Nordisk Foundation Centre for Protein Research, University of Copenhagen <a href="http://www.cpr.ku.dk/about/adjunct-professors/">http://www.cpr.ku.dk/about/adjunct-professors/</a>
2012-2014	Guest Professor, Department of Systems Biology, Danish Technical University, Kgs. Lyngby, Denmark
2008-2015	Reva S. Skelton Research Endowment for Cardiovascular Research
2007-2015	Regents' Professor, University of New Mexico
2001-2015	Professor and Chair, Department of Internal Medicine University of New Mexico School of Medicine, Albuquerque, New Mexico
07/2000- 06/2001	Associate Dean for Research, University of New Mexico School of Medicine, Albuquerque, NM
07/1997-06/2000	Director, Program of Occupational and Environmental Health, University of New Mexico School of Medicine, Albuquerque, NM
07/1997-2015	Professor, Department of Biochemistry & Molecular Biology, University of New Mexico School of Medicine, Albuquerque, NM
07/1996-2015	Professor, Department of Family and Community Medicine, University of New Mexico School of Medicine, Albuquerque, NM
07/1996-2015	Senior Scientist, Lovelace Respiratory Research Institute, Albuquerque, NM
07/1995-09/2001	Chief, Division of Pulmonary, Allergy and Critical Care Medicine,

Department of Internal Medicine, University of New Mexico School of Medicine,  
Albuquerque, NM

- 07/1995-2015 Professor of Medicine, University of New Mexico School of Medicine, Albuquerque, NM
- 07/1995-06/1996 Adjunct Scientist, Inhalation Toxicology Research Institute, Albuquerque, NM
- 07/1990-06/1995 Associate Professor, Division of Pulmonary and Critical Care Medicine,  
Department of Internal Medicine, University of Iowa, College of Medicine, Iowa City, IA
- 07/1990-06/1995 Assistant Professor, Department of Exercise Science, University of Iowa, Iowa City, IA
- 07/1986-06/1990 Assistant Professor, Division of Pulmonary and Critical Care Medicine, Department of  
Internal Medicine, University of Iowa, College of Medicine, Iowa City, IA
- 07/1985-06/1986 Instructor, Division of Pulmonary and Critical Medicine, Department of Internal Medicine,  
University of Iowa, College of Medicine, Iowa City, IA

### **LICENSURE**

- Iowa License No. 22502, 1981 (inactive)  
New Mexico License No. 95-305 (expiration 07/01/2017)  
Arkansas License (expiration 01/02/2016)  
New Mexico Board of Pharmacy License No. CS00017780 (expiration 01/31/2017)

### **BOARD CERTIFICATION**

- Diplomat, National Board of Medical Examiners, 1980; No. 222226  
Diplomat, American Board of Internal Medicine, 1985; No. 100854  
Diplomat, American Board of Internal Medicine, Subspecialty: Pulmonary Diseases, 1988; No. 100854  
Diplomat, American Board of Preventive Medicine, Subspecialty: Occupational Medicine, 1989; No.  
22120  
Diplomat, National Institute of Occupational Safety and Health (“A” reader certification for  
Pneumoconiosis), 1991

### **EDUCATION**

- 07/1984-06/1986 Postdoctoral Research Fellow, Laboratory of R. Chalkley,  
Ph.D., Department of Biochemistry, University of Iowa, Iowa City, IA
- 07/1983-06/1985 Fellow, Pulmonary and Critical Care Medicine,  
University of Iowa Hospitals and Clinics, Iowa City, IA
- 07/1982-06/1983 M.S., Preventive Medicine and Environmental Health,  
University of Iowa College of Medicine, Iowa City, IA
- 07/1980-06/1983 Intern and Resident, Internal Medicine and Occupational Medicine

University of Iowa Hospitals and Clinics, Iowa City, IA

09/1976-06/1980 M.D, University of Illinois College of Medicine, Chicago, IL

09/1972-05/1976 B.S, Davidson College, Davidson, NC (cum laude)

### **HONORS AND AWARDS**

- 2013 Distinguished Professor of the University of New Mexico
- 2008 Reva S. Skelton Research Endowment for Cardiovascular Research
- 2007 Regents' Professor, University of New Mexico
- 2007 Visiting Senior Scholar, Center for Inflammation and Metabolism,  
Copenhagen Muscle Research Center, Rigshospitalet and Copenhagen University, Copenhagen,  
Denmark
- 2006 Outstanding graduate honoree, University of Iowa program in Pulmonary, Critical Care, and  
Occupational Medicine
- 1999 Visiting Scholar, School of Sports Sciences, University of Sydney, NSW, Australia
- 1998 Ralph C. Williams Jr., M.D. UNM Department of Internal Medicine Research Award
- 1987 Invited Speaker, NHLBI Symposium of the NIH Centennial Celebration
- 1980 Fellowship from the National Fund for Medical Education to study byssinosis among cotton  
workers at the High Institute of Public Health, Alexandria, Egypt
- 1977 James Scholar, University of Illinois
- 1976-78 Illinois General Assembly Scholarship
- 1976 Charles Dana Foundation Scholarship at Davidson College  
Phi Beta Kappa

### **NIH/PHS/DOE PROFESSIONAL SERVICE**

- 1997 Reviewer, NHLBI Clinical Investigator Award Presentation Abstracts
- 1993 NSF Reviewer for research proposals for the former Soviet Union and Baltic States.
- 1993 NIEHS P30 Centers Program Scientific Review.
- 1990-1995 Member, American Federation for Clinical Research Foundation Awards Review Committee
- 1990-1995 Reviewer, American Heart Association Grant Awards

- 1990-1995 Grant Review Committee, American Cancer Society Institutional Research Program (University of Iowa Cancer Center).
- 2003 Special Consultant, Office of Human Research Protection, Review of ARDSnet
- 2006-present Special emphasis study section, National Institute of Arthritis, Musculoskeletal, and Skin Diseases
- 2006 American Thoracic Society Career Development Award Grant Review
- 2007-2010 NIEHS P30 Center Review Committee
- 2007-2010 NIH/ NIEHS Environmental Health Sciences Review Committee
- 2011 NIEHS R25 Education Grant Review Committee

**BOARD SERVICE**

- 2000-2004 Board of Directors, Relay New Mexico
- 2000-present Board of Directors, UNM Science and Technology Corporation
- 2001-2007 Board of Directors, University Physicians Associates
- 2001-2004 New Mexico ACP/ASIM Board Member
- 2003-2006 Exagen, Inc. University of New Mexico Affiliation Committee
- 1999-2012 Lovelace Respiratory Research Institute Research Program Oversight Committee
- 2004-2008 MIND Institute Advisory Board
- 2005-2012 Board of Directors, Lovelace Respiratory Research Institute (LRRI) Directors
- 2007-present University of New Mexico Medical Group, Board of Directors
- 2011-present Chair, Finance Committee, University of New Mexico Medical Group
- 2012-present Board of directors, National Center for Genome Research

**EDITORIAL BOARDS/CONSULTATION**

Editorial Positions:

- 1993-1999 Editorial Advisory Board, Journal of Laboratory and Clinical Medicine
- 1993-1996 Editorial Board, American Journal of Respiratory and Critical Care Medicine, 1993-1996
- 2005-present Associate Editor, Exercise and Sport Sciences Review (ESSR)
- 2005-present Editorial Board, The American Journal of Medicine

AD HOC Editorial Consultant:

American Journal of Physiology  
American Journal of Respiratory Cell and Molecular Biology  
American Review of Respiratory Disease  
Biochemistry  
Cancer Research  
Chest  
Comparative Biochemistry and Physiology  
Cytokine  
Journal of Applied Physiology  
Journal of Biological Chemistry  
Journal of Clinical Investigation  
Journal of Laboratory and Clinical Medicine  
Medicine and Science in Sports and Exercise

**PRIOR & CURRENT LEADERSHIP POSITIONS/PROFESSIONAL SOCIETIES & ORGANIZATIONS**

UNM School of Medicine Finance Committee

UNM School of Medicine Facilities Task Force

University Physician Associates Financial Review Task Force

UNM Health Sciences Center Executive Clinical Leadership Board

Chair, UNM Health Sciences Center Task Force on Uncompensated Care

Chair, UNM Health Sciences Center Task on Hospital Renovations for Adult Services

University of New Mexico Medical Group, Executive Committee

Health Sciences Center Committee on Rural Health, University of New Mexico, School of Medicine

Advanced Residency Committee, University of New Mexico, School of Medicine

Outreach Steering Committee, Department of Internal Medicine, University of New Mexico, School of Medicine

Howard Hughes Medical Institute Research Committee, University of New Mexico, School of Medicine.

University of New Mexico MBRF Scientific Advisory Committee, University of New Mexico.

Co-Director, Task Force on Outcomes, Health Management Guidelines Group, University of New Mexico, School of Medicine

Strategic Planning Committee, Research Work Group, UNM Cancer Research and Treatment Center, University of New Mexico, School of Medicine.

Health Sciences Center Research Committee, University of New Mexico, School of Medicine

Development Committee, Department of Epidemiology, University of New Mexico, School of Medicine

Chair, Research Executive Committee, University of New Mexico, School of Medicine

Chair, Transition group UNM/National Foundation for Functional Brain Imaging

Member, University of New Mexico Presidential Search Committee

Member, UNMHSC Clinical Executive Council (CEC)

Chair, Uncompensated Care Task Force

### **NATIONAL ORGANIZATIONS/PROFESSIONAL SOCIETIES**

National Cancer Institute Advisory Panel on the Biochemical Effects of Pesticide Exposures

Consultant on Workers' Safety, Iowa Department of Transportation

Abstract Review Committee, Midwest Section, American Federation for Clinical Research, Pulmonary Subspecialty Section

Consultant, American Board of Preventive Medicine, Board Review Course

Membership Committee, American Thoracic Society

NIH/APS/ACSM, Working Group on Integrative Biology in Cardiac and Vascular Diseases

State of New Mexico Governor's Advisory Board on Respiratory Care

Advisory Board, National Environmental Respiratory Center, Environmental Protection Agency

Consultant on Agricultural & Environmental Health, Texas Tech University, Lubbock, TX

Western Society of Clinical Investigation, Councilor

Research Institute of New Mexico (BRINM), 2005-present, Vice president 2009-present

Association of Professors of Medicine Communications Committee July 2002-2006

AAIM Professional Development Task Force, 09/04/03-08/04/04

Association of Professors of Medicine Program Planning Committee 2008-2010

Association of Professors of Medicine New Chairs Program-Building the Research Enterprise 2008-2010

### **CLINICAL CARE, University of New Mexico**

Attending Physician, Medical Intensive Care Unit 1995-2002

Attending Physician, Pulmonary Consultation Service 1995-present

Attending Physician, Occupational Lung Clinic 1995-2002

Attending Physician, Multi-Disciplinary Toxicology Clinic 1995-2001

### **RESEARCH PROGRAM**

My research focuses on the role of the cellular heat shock protein (HSP) response in the adaptation of the whole organism. In the intracellular environment, the HSPs serve as protein transporters and are associated with tolerance to a variety of stresses. Our research group made the initial observations that alterations in cellular HSP accumulation occur in humans under physiologic conditions (aerobic exercise), and that a conditioning heat stress sufficient to cause HSP accumulation protects the whole organism from endotoxin exposure.

We have also explored the mechanisms behind the differential regulation of the heat shock response by oxidants, and demonstrated that the inability of aged organisms to accumulate HSP70 following heat stress reflects an alteration in gene regulation rather than a loss of potential to produce HSP70. Using both cellular systems and

studies in the intact organism, our research group has identified gut injury and the loss of epithelial barrier integrity as early and pivotal events in the pathogenesis of heat stress. We have also defined the role of HSPs in modulating the inflammatory response. We use both basic and translational systems that examine the mechanisms of cellular adaptation using exercise and glutamine supplementation to augment the heat shock response and HSF-1 inhibitors in exercising humans to block the heat shock response. Using our gene transfer system, our group demonstrated the requirement of HSPs in viral replication. Our patents on methods to purify and synthesize HSP-peptide complexes will allow us to conduct a variety of studies on the immune response to tumors, and make possible a number of studies and potential treatment applications.

In addition to my laboratory based research program, I have an ongoing collaboration with the Novonordisk Foundation Center for Protein Research, University of Copenhagen, where we are developing models of disease prediction using the Danish National Patient Registry. In this role, I am an Affiliated Professor in Disease Systems Biology at the University of Copenhagen.

## **GRANTS**

### **Funded Proposals – Principal Investigator/Co-Investigator**

Funding Organization: National Institute of Health, RM-07-007  
Project Title: University of New Mexico Clinical Translational Science Center (UL1)  
Principal Investigator: Richard Larson, M.D., Ph.D.  
Pope L. Moseley, M.D., Associate Director  
Member, National CTSA Comparative Effectiveness Key Function Committee  
Percent Effort: 20%  
Dates: 06/1/10-07/14/15

Funding Organization: National Institute of Health 1U54GM104944-01A1  
Project Title: Clinical and Translational Research Infrastructure Network (CTR-IN)  
Principal Investigator: R. Langer (UNLV), R. Larson (co-PI UNM) and P. Moseley (co-PI UNM)  
Percent Effort: 15%  
Dates: 09/01/13-07/14/15

Funding Organization: University of Copenhagen Center for Biologic Sequence Analysis, Department of Systems Biology  
Principal Investigator: Soren Brunak, Pope L. Moseley (UNM)  
Percent Effort: 25%  
Dates: 09/01/12-08/31/15

Funding Organization: National Institutes of Health, NIH RO1-AR40771  
Project Title: Heat Stroke and Hyperthermia: Molecular Mechanisms  
Principal Investigator: Pope L. Moseley, M.D.  
Duration of Award: July 1, 2002 – June 30, 2008 (years 11-15)  
Percent Effort: 20%

Funding Organization: National Institute of Environmental Health Sciences, NIEHS P20-ES012072  
Project Title: NIEHS Environmental Center Environmental Respiratory Disease in Native Americans

Principal Investigator: Pope L. Moseley, M.D.  
Duration of Award: April 1, 1999 to March 31, 2003

**Note:** Scott W. Burchiel, Ph.D., Deputy Director, assumed directorship on 10/01/01 when I became Chair of Internal Medicine

Funding Organization: National Institute of Environmental Health Sciences, NIEHS P30-ES012072  
Project Title: NIEHS Environmental Health Sciences Center Environmental Respiratory Diseases in Native Americans  
Principal Investigator: Scott Burchiel, Ph.D.  
Pope L. Moseley, M.D., Deputy Director  
Duration of Award: April 1, 2003 to March 31, 2008  
Percent Effort: 10%

Funding Organization: National Institute of Health, NIH RO1-HL61389  
Project Title: GI Barrier Heat Injury: Systemic and Molecular Mechanisms  
Principal Investigator: Larry Oberley, Ph.D.  
Co-Investigator: Pope L. Moseley, M.D.  
Duration of Award: December 1, 1998 to November 30, 2003

Funding Organization: National Institute of Health, NIH R01-AG14687  
Project Title: Heat Shock Protein Regulation with Stress and Aging  
Principal Investigator: K. Kregel, Ph.D.  
Co-Investigator: Pope L. Moseley, M.D.  
Duration of Award: September 1, 1998 to August 31, 2003

Funding Organization: NIH  
Project Title: Role of Heat Shock Response in Activation of a Zoonotic Virus  
Principal Investigator: Brian L. Hjelle, M.D.  
Duration of Award: February 1, 2001 to January 31, 2002

Funding Organization: American Lung Association Asthma Research Center, RFA ES-98004  
Project Title: Asthma Research Center-Pilot Project Program  
Principal Investigator: Mary Lipscomb, M.D.  
Co-Investigator: Pope L. Moseley, M.D. (Pilot Project Program Director)  
Duration of Award: January 1, 1997 to December 31, 2001

Funding Organization: National Institute of Environmental Health Sciences  
Project Title: Uranium Education in the Navajo Nation  
Principal Investigator: M. Bauer, Ph.D., DINE College, D. Coultas, M.D.  
Co-Investigator: Pope L. Moseley, M.D.  
Duration of Award: October 23, 1996 to September 29, 2000

Funding Organization: Dept. of Defense Women's Health Research Program, DAMD 17-95-C-5093  
Project Title: Use of Biomarkers to Optimize Heat Acclimatization in Women  
Principal Investigator: Carl V. Gisolfi, Ph.D.



Co-Investigator: Pope L. Moseley, M.D.  
Duration of Award: September 1995 to February 1999

Funding Organization: Centers for Disease Control  
Project Title: Identify the Relationship between Exposures and Health Concerns in Persian Gulf War Veterans  
Principal Investigator: J. A. Merchant  
Duration of Award: December 1, 1994 to November 30, 1996

Funding Organization: National Institutes of Health R27-HL40349, First Award  
Project Title: Mechanisms of Bleomycin Lung Disease  
Principal Investigator: Pope L. Moseley, M.D.  
Duration of Award: April 1988 to September 1994

Funding Organization: National Institutes of Health Clinical Investigator Award, K08-HLO1366  
Project Title: Granulocyte Augmentation of Drug-Induced Lung Injury  
Principal Investigator: Pope L. Moseley, M.D.  
Duration of Award: July 1985 to June 1990

Funding Organization: National Institutes of Health, RO3-04-018-56  
Project Title: Lung Parenchymal Injury Induced by Environmental Factors  
Principal Investigator: Pope L. Moseley, M.D.  
Duration of Award: July 1983 to June 1985

## **RESEARCH AWARDS GRANTED TO TRAINEES**

National Institutes of Health Institutional Training Grant T32 HLO7638. Awarded: Shawn Flanagan; Sponsor: P. L. Moseley. July 1991-June 1993, \$9,600.

National Institutes of Health Clinical Associate Physician Award: "Organic Dust Disease: Mechanisms Related to the Stress Protein (HSP) Response", PI: J. I. Gotchall; Sponsor: P. L. Moseley, December 1992-November 1995, \$57,500/year.

Iowa Cardiovascular Center-Institutional Research Fellowship. Awarded: L. Solomon, Ph.D.; Sponsor: P. L. Moseley, August 1987-July 1988, \$17,000.

University of Iowa Interdisciplinary Research Assistantship Program. Awarded: Alan Ryan; Sponsors: P. L. Moseley and C. V. Gisolfi, June 1990-May 1991, \$11,000.

American Heart Association Fellowship. Awarded: Larry Solomon; Sponsor: P. L. Moseley, July 1990-June 1991, \$17,000.

Gatorade Sports Science Institute Student Research Award. Awarded: Shawn Flanagan; Sponsor: P. L. Moseley, October 1994-September 1995, \$1,000.

Deutscher Akademischer Austauschdienst (German Academic Exchange Service). Awarded: Jan Roigas, M.D. Sponsor: P. L. Moseley, June, 1995-Nov., 1996, \$60,000.

American Physiological Society's Perkins Memorial Award. Fellowship Awarded: Karol Dokladny, PhD. Sponsor: P. L. Moseley, 1999.

National Institutes of Health Institutional Training Grant T32 AI07538. Awarded: Karla Melendez, Sponsor: P. L. Moseley, 2000 to 2003.

Coor de Nacao de Aperfeicoamento de Pessoal Ensino Superior, Awarded: Fabiano Amorim, Ph.D.

## **PATENT AWARDED**

U.S. Patent Number 5,747,332 Awarded, "Methods for Purifying and Synthesizing Heat Shock Protein Complexes"

Federal Republic of German Patent Number 297 24 684.4 Awarded "Methods for Synthesizing Heat Shock Protein Complexes"

U.S. Patent Number 5,981,706 Awarded, "Methods for Synthesizing Heat Shock Protein Complexes"

U.S. Patent Number 6,066,716 Awarded, "Purified Heat Shock Protein Complexes"

U.S. Patent Number 6,433,141 Awarded, "Purified Heat Shock Protein Complexes"

U.S. Patent Number 6,455,493 Awarded, "Methods for Using Heat Shock Protein Complexes"

U.S. Patent Number 6,713,608 Awarded "Purified Heat Shock Protein Complexes"

## **PUBLICATIONS**

**<https://scholar.google.com/citations?user=G6TJFxsAAAAJ&hl=en&cstart=20&pagesize=20>**

### **Articles in Peer-Reviewed Journals**

1. **Moseley PL**, Kohler JP, Rice CL, Schwartz J, Zarins C, Gould S, Kerstein M and Moss G. Does Sepsis Reduce Threshold Hydrostatic Pressure in Pulmonary Edema? **Surg Forum** 30:170-172, 1979.
2. **Moseley PL** and Kerstin MD. Pregnancy and Thrombophlebitis. **Surg Gynecol Obstet** 150(4):593-599, 1980.
3. Kohler J, Rice C, **Moseley PL**, Schwartz J, Zarins C, Gold S and Moss G. Sepsis Reduces the Threshold for Pulmonary Edema in Baboons. **J Surg Res** 30:129-134, 1981.
4. **Moseley PL**, Gold R, Field R, Rodriguez-Erdmann F. Hemophilia, Maintenance Hemodialysis and Septic Arthritis. **Arch Int Med** 141:138-139. 1981 (Case Report).
5. Kerstein MD, Kohler JP, Gould S and **Moseley PL**. Pulmonary Extraction of Biogenic Amines during Septic Shock. **Am Surgeon** 48:552-554. 1982.
6. Cobb, WB, Helms, CM and **Moseley PL**. Toxic Shock Syndrome in a Young Man with a Pilonidal Abscess. **N Engl J Med** 306:1422-1423, 1982. (Case Letter).

7. Goldsmith JC, **Moseley PL**, Monick N, Brady M and Hunninghake GW. T-lymphocyte Subpopulation Abnormalities in Apparently Healthy Patients with Hemophilia. **Ann Int Med** 98:294-297, 1983.
8. **Moseley PL**, Shasby DM, Brady M and Hunninghake GW. Lung Parenchymal Injury Induced by Bleomycin. **Am Rev Respir Dis** 130:1082-1086, 1984.
9. Goldsmith JC, **Moseley PL**, Monick MM, McCormick JJ, Walker DY, Hunninghake GW. Immunologic Profiles of Adult Hemophiliacs. **J AIDS Res** 1(3):163-179, 1984.
10. Metzger WJ, Nugent KM, Richerson JB, **Moseley PL**, Lakin R, Zavala D and Hunninghake GW. Methods for Bronchoalveolar Lavage in Asthmatic Patients Following Bronchoprovocation and Local Antigen Challenge. **Chest** 87(1):16S-19S, 1985.
11. **Moseley PL**, Hemken C, Hunninghake GW. Augmentation of Fibroblast Proliferation by Bleomycin. **J Clin Invest** 78:1150-1154, 1986.
12. **Moseley PL**, Nugent KN, Monick M, Hunninghake GW. Interferon Growth Factor Activity for Human Lung Fibroblasts. **Chest** 89:657-662, 1986.
13. Metzger WJ, **Moseley PL**, Richerson HB, Zavala DC, Iwamoto P, Monick M, Sjoerdsma K, Hunninghake GW. Local Allergen Challenge and Bronchoalveolar Lavage of Allergic Asthmatic Lungs. **Am Rev Respir Dis** 135:433-440, 1987.
14. **Moseley PL** and Chalkley R. Bleomycin Induced DNA Damage in Vitro and in Intact Cells. **J Lab Clin Med** 110:618-623, 1987.
15. Fick RB, Metzger WJ, Richerson HB, Zavala DC, **Moseley PL**, Schoderbek WE, Hunninghake GW. Increased Bronchovascular Permeability Following Allergen Exposure Asthmatics. **J Appl Physiol** 63:1147-1155, 1987.
16. **Moseley PL**, Monick M, Hunninghake GW. Divergent Effects of Silica on Lymphocyte Proliferation and Immunoglobulin Production. **J Appl Physiol** 65:350-357, 1988.
17. **Moseley PL**, York SJ and York J. Bleomycin Induces Expression of the HSP 70 Heat Shock Promoter. **Am J Resp Cell Mol Biol** 1:89-93, 1989.
18. Gotchall J, Comried L, Bredlau G and **Moseley PL**. Evaluation of an Inaccurate Pulmonary Artery Catheter Themistor. **Chest** 96:941-943, 1989.
19. Jolles H, **Moseley PL**, Peterson MW. Nodular Pulmonary Opacities in Patients with Rheumatoid Arthritis. **Chest** 96(5):1022-1025, 1989.
20. **Moseley PL**. Augmentation of Bleomycin-Induced DNA Damage in Intact Cells. **Am J Physiol Cell**: 257:882-887, 1989.
21. Solomon LR, Beerelli RD and **Moseley PL**. Bleomycin: Fe can Degrade DNA in the Presence of Excess EDTA in Vitro. **Biochemistry** 28:9932-9937, 1989.
22. Ryan AJ, Gisolfi CV, **Moseley PL**. Synthesis of the 70kD Stress Protein in Exercising Humans. **J Appl Physiol** 70:466-471, 1991.

23. Peterson MW, Geist L, **Moseley PL**. Mortality Following Cardiopulmonary Resuscitation in the Medical Intensive Care Unit. **Chest** 100:168-17, 1991.
24. Buettner GR, **Moseley PL**. Ascorbate both Activates and Inactivates Bleomycin by Free Radical Generation. **Biochemistry** 31:9784-9788, 1992.
25. Ryan AJ, Flanagan S, **Moseley PL**, Gisolfi CV. Acute Heat Stress Protects Rats Against Endotoxin Shock. **J Appl Physiol** 73:1517-1522, 1992.
26. Cox G, **Moseley PL**, Hunninghake GW. Induction of Heat Shock Protein 70 in Neutrophils During Exposure to Subphysiological Temperatures. **J Infect Dis** 167:769-771, 1993.
27. **Moseley PL**, Gisolfi CV. New Frontiers in Thermoregulation and Exercise. (Invited "Lead Article") **Sports Medicine** 16:163-167, 1993.
28. Buettner GR, **Moseley PL**. ESR Spin Trapping of Radicals Produced by Iron, Bleomycin, and Ascorbate. **Free Rad Res Commun** 19:589-593, 1993.
29. **Moseley PL**, McCafferty JD, Wallen E, Flanagan S, Kern JA. Heat Stress Regulates the Human 70kD Heat Shock Gene Through Its 3' Untranslated Region. **Am J Physiol** 64:L533-L537, 1993.
30. Paulas JA, Tucker RD, Flanagan SW, **Moseley PL**. Heat Shock Protein Response to Interstitial Thermotherapy in a Prostate Tumor Model. **Prostate** 23:263-270, 1993.
31. **Moseley PL**, Gapen C, Wallen ES, Walter ME, Peterson MW. Thermal Stress Induces Epithelial Permeability. **Am J Physiol (Cell)** 36:425-434, 1994.
32. **Moseley PL**. Molecular Aspects of Thermotolerance and Heat Acclimatization. (Invited Review) **J Lab Clin Med** 123:48-53, 1994.
33. Moseley KA, **Moseley PL**. The TDD: An Inclusion Tool. **Perspectives in Education and Deafness** 13:10-12, 1994.
34. Flanagan SW, Ryan AJ, Gisolfi CV, **Moseley PL**. Tissue Specific HSP70 Response in Animals Undergoing Heat Stress. **Am J Physiol** 268:R268-32, 1994.
35. Hall DM, Oberley TW, Oberley LW, **Moseley PL**, Gisolfi CV. Hyperthermia Stimulates HSP70 Synthesis and Increases the Concentration of MnsoD in Splanchnic Viscera of the Rat. **FASEB Journal** 9:256, 1995.
36. Gapen C, **Moseley PL**. Acidosis Alters Hyperthermic Cytotoxicity and the Cellular Stress Response. **Thermal Biology** 20:321-325, 1995.
37. Kregel KC, **Moseley PL**, Skidmore R, Gutierrez J, Guerriero V. HSP70 Accumulation in Tissues of Heat-Stressed Rats in Blunted with Advancing Age. **J Appl Physiol** 79(5):1673-1678, 1995.
38. Kregel KG, and **Moseley PL**. Differential Effects of Exercise and Heat Stress on Liver HSP70 Accumulation with Aging. **J Appl Physiol** 80(2):547-551, 1996.

39. **Moseley PL**, Blanck PD, Merritt R. Hospital Privileges and the Americans with Disabilities' Act. **Spine** 21(2):2288-2293, 1996.
40. Mittelberg KN, Tucker RD, Loening SA, **Moseley PL**. Effect of Radiation and Hyperthermia on Prostate Tumor Cells with Induced Thermal Tolerance and the Correlation with HSP70 Accumulation. **Urologic Oncology** 2:146-151, 1996.
41. **Moseley PL**. Heat Shock Proteins in Human Disease (Invited Commentary). **J Lab Clin Med** 128:223-224 1996.
42. Roigas J, Wallen ES, Loening SA, **Moseley PL**.  $\beta$ -galactosidase as a Marker of HSP70 Promoter Induction in Dunning R3327 Prostate Carcinoma Cells. **Urological Research** 25:251-252, 1997.
43. Kluger MJ, Rudolph K, Soszynski D, Conn CA, Leon LR, Kozak W, Wallen ES, **Moseley PL**. Effect of Heat Stress on LPS-induced Fever and Tumor Necrosis Factor. **Am J Physiol** 273(42):R858-R863, 1997.
44. Rudolph D, Soszynski D, Kozak W, Conn CA, Leon LR, Kluger MJ, Wallen ES, **Moseley PL**. Effect of Heat Stress on LPS-induced Fever. **FASEB J** 11:58, 1997.
45. Wallen ES, Buettner GR and **Moseley PL**. Oxidants Differentially Regulate the Heat Shock Response. **Int J Hyperthermia** 13(5):517-524, 1997.
46. **Moseley PL**. "Heat Shock Proteins and Heat Adaptation of the Whole Organism. **J Appl Physiol** 83(5):1413-1417, 1997 (State of the Art Review).
47. Roigas J, Wallen ES, Loening SA, **Moseley PL**. Effect of Combined Treatment of Chemotherapeutics and Hyperthermia on Survival and the Regulation of Heat Shock Proteins in Dunning R3327 Prostate Carcinoma Cells. **Prostate** 34:195-202, 1998.
48. Flanagan SW, **Moseley PL**, Buettner G. Increased Flux of Free Radicals in Cells Subjected to Hyperthermia: Detection by Electron Paramagnetic Resonance Spin Trapping. **FEBS Letters** 431:285-286, 1998.
49. **Moseley PL**. Heat Shock Proteins and the Inflammatory Response. **Annals of the New York Academy of Sciences** 856:206-213, 1998 (invited review)
50. Chang RT, Lambert GP, **Moseley PL**. Effect of Estrogen Supplementation on Exercise Thermoregulation in Pre-menopausal Females. **J Appl Physiol** 85 (#6):2082-2088, 1998.
51. Roigas J, Wallen ES, Loening SA, **Moseley PL**. Heat Shock Proteins (HSP72) Surface Expression Enhances the Lysis of a Human Renal Cell Carcinoma by IL-2 Stimulated NK Cells. **Advances in Experimental Medicine and Biology** 451:225-229, 1998.
52. Iwamoto GW, Ainsworth A, **Moseley PL**. Hyperthermia Enhances Cytomegalovirus Regulation of HIV-1 and TNF  $\alpha$  Gene Expression. **Am J Physiol.** 277:L1051-L1056, 1999.
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102. Kempaiah P, Dokladny K, Karim Z, Raballah E, Ong'echa JM, **Moseley PL**, Perkins DJ.: Reduced Hsp70 and Glutamine in Pediatric Severe Malaria Anemia: Role of Hemozoin in Suppressing Hsp70 and NF-kB activation. **Mol Med**. 2016 Aug 30. Doi: 10.2119
103. Vazquez Guillamet R, Ursu O, Iwamoto G, **Moseley PL**, Oprea T. Chronic obstructive pulmonary disease phenotypes using cluster analysis of electronic medical records. **Health Informatics J**. 2016 Nov 17. Pii: 1460458216675661. (Epub ahead of print)
104. Beck MK, Jensen AB, Nielsen AB, Perner A, **Moseley PL**, Brunak S. Diagnosis trajectories of prior multi-morbidity predict sepsis mortality. **Sci Rep**. 2016 Nov 4;6:36624. Dio: 10.1038/srep36624

**MANUSCRIPTS IN REVIEW/REVISION**

1. Song H, **Moseley PL**, Ozbun MA. HSP70i Enhances HPV31 Major Capsid Protein L1 Nuclear Accumulation and Virion Morphogenesis Dependent upon the HSP70i ATPase Function (submitted).
2. Setty P, Dokladny K, **Moseley PL**, Bard J, and Lin HE: Legume Lectin Counters Heat Shock Protein 70 to Impair Protein Folding (submitted).

## **BOOKS/CHAPTERS**

1. Hunninghake GW, **Moseley PL**. Immunological Abnormalities of Chronic Non-Infectious Pulmonary Diseases. In: Immunology of the Lung, J Bienenstock (Ed). New York, McGraw Hill, pp. 345-364, 1984.
2. Metzger MJ, Sjoerdsma K, Richerson HB, **Moseley PL**, Zavala D, Monick M, Hunninghake G. Platelets in Bronchoalveolar Lavage from Asthmatic Patients and Allergic Rabbits with Allergen-Induced Late Phase Responses. In: PAF, Platelets, and Asthma, G Menz, CP Page and M Schmitz-Schumann (Eds.), Agents & Actions Supplements, Vol. 21, pp. 151-159, 1987.
3. **Moseley PL**. Drug-Induced Lung Disease. In: Foundations of Respiratory Care, D J Pierson (Ed), Churchill Livingstone, Inc., 1991.
4. **Moseley PL**. Exercise, Heat, and Thermotolerance: Molecular Mechanisms. In: Exercise, Heat, and Thermoregulation, E Nadel (Ed.), Benchmark Press, 1993.
5. **Moseley PL** and Oppenheimer D. JI Frey and B Fornoff (Eds.). Respiratory Care. (Chapter IV) In: Speech Pathology for Tracheostomized and Ventilator Dependent Patients, Voicing, Inc., Newport Beach, CA, pp. 184-256, 1993.
6. **Moseley PL**. Heat Shock Proteins and Endotoxin. In: Exercise and Thermoregulation, J Sutton and R Balnave, (Eds.), Published by Faculty of Health Sciences of the University of Sydney, Australia, pp. 95-103, 1995.
7. **Moseley PL**. Thermal Protection: The Role of Heat Shock Proteins and Epithelial Barrier Integrity. In: Exercise and Thermoregulation, J Sutton and R Balnave, (Eds.), Published by Faculty of Health Sciences of the University of Sydney, Australia, pp. 181-189, 1995.
8. **Moseley PL**. Heat Shock Proteins and Fever. In: Fever: Basic Mechanisms and Management, 2nd edition, P Mackowiak (Ed.), Published by Raven Press. 1996.
9. Roach R, **Moseley PL**. Effects of High Altitude. In: Allergy and Respiratory Disease in Sports Medicine, JM Weiler (Ed.), Published by Raven Press. 1997.
10. **Moseley PL**. Heat Shock Proteins and the Inflammatory Response. (Chapter V) In: Molecular Mechanisms of Fever, M Kluger, T Bartfai and CA Dinarello, (Eds.), Published by Annals of the New York Academy of Sciences, Vol. 856, pp. 206-213, 1998.
11. Iwamoto G, **Moseley PL**. Modulation of Cytokines by the Heat shock Response. In: Renal Cell Carcinoma, D Schnorr, SA Loening, (Eds.), Published by Blackwell Wissenschaft-Verlag, Berlin, Germany, pp. 29-34, 1998.

12. Roigas J, Meyer D, Wallen ES and **Moseley PL**. Cytokines and Renal Carcinoma. The role of HSP72 in tumor cells by activated natural killer cells. In: Renal Cell Carcinoma, D Schnorr, SA Loening, (Eds.), Published by Blackwell Wissenschaft-Verlag, Berlin, Germany, pp. 181-187, 1998.
13. **Moseley PL**, Wallen ES and Roigas J. Heat Shock Protein Vaccines for Tumor Immunotherapy In: Renal Cell Carcinoma, D Schnorr, SA Loening, (Eds.), Published by Blackwell Wissenschaft-Verlag, Berlin, Germany, pp. 188-193, 1998.
14. **Moseley PL**. Exercise and Stress Response: The Role of Stress Proteins. M Locke, EG Noble, (Eds.), Published by CRC Press LLC, Boca Raton, Florida, pp. 179-195, 2002.
15. **Moseley PL** and Amorim FA: Heat Shock Proteins and Inflammation. In AA Asea and BK Pedersen (Eds) Heat Shock Proteins Springer Publishing pp 57-83, 2010.
16. Schneider SS and **Moseley PL**: Chapter 19: The Temperature Regulatory System. In Tipton C (Ed) The Regulation of Body Temperature, 2014.

### **OTHER WRITING**

- Moseley PL**. The Hot Weather Athlete: New Findings about Old Myths. Masters Sports Vol. 5, No. 8, 1995.
- Moseley PL**. Do You Get a Good Workout in Bad Air? Masters Sports Vol. 6, No. 8, 1996.
- Moseley PL**. Course syllabus for Advanced Exercise Physiology Seminar 27:242: Temperature Regulation, University of Iowa, 1995.

### **INVITED PRESENTATIONS (Selected)**

- The Clinical Application of Techniques of Molecular Biology, American College of Chest Physicians Annual Meeting, 1986.
- National Heart, Lung and Blood Institute Centennial Event Research Symposium, 1987.
- “Heat Shock Gene Regulation by Oxidants,” Lung Immunochemical Research Laboratory, University of Birmingham Hospital, Birmingham, England, 1989.
- “Drug Induced Lung Disease,” American Thoracic Society Annual Meeting, May 14 1991.
- “Exercise, Heat and Thermotolerance: Molecular Mechanisms,” Conference on Exercise, Heat and Thermoregulation, Baveno, Italy, June 18-21, 1992.
- “Potential Role of Heat Shock Proteins in Organic Dust Induced Airway Disease,” National Meeting of the NIEHS Centers Board of Directors, November 19-20, 1992.
- “Environment Stress: HSP70 Regulation in Vivo and In Vitro,” The Lovelace Medical Foundation Institute for Basic and Applied Research, Albuquerque, NM, January 31, 1994.
- 1995-1999
- “Application of the Tissue Stress Response,” American College of Sports Medicine Annual Meeting, May 31, 1995.

“Heat Stroke and Endotoxemia: Applied Molecular Mechanisms,” Biennial Conference on the Biochemistry of Exercise, Sydney, Australia, September 25-27, 1995.

“Molecular Biology and Physiology: Building the Bridge,” American College of Sports Medicine Annual Meeting, Cincinnati, OH, May 1996.

“Heat-related Illness,” International Pre-Olympic Scientific Conference, Dallas, TX, July 10-14, 1996.  
30th European Conference on Hyperthermia, Berlin, Germany, April 1-5, 1997.

“Occupational Asthma,” Mayo Clinic’s Eighth Annual Pulmonary & Infectious Diseases Seminar, Tucson, AZ, October 4, 1997.

“Heat Stroke,” Mayo Clinic’s Eighth Annual Pulmonary & Infectious Diseases Seminar, Tucson, AZ, October 5, 1997.

“Heat Shock Proteins,” New York Academy of Sciences Conference: Molecular Mechanism of Fever, Santa Fe, NM November 2-4, 1997.

“Heat Shock Proteins and the Immune Response,” Humboldt University, Berlin, Germany, November 14, 1997.

“Heat Shock Proteins and the Immune Response: A New Job for the Stress Family,” Western Association of Physicians, Carmel, CA, February 4, 1998.

ALA Asthma Research Center,” New Mexico Thoracic Society, 26<sup>th</sup> Annual Lung disease Symposium, Santa Fe, New Mexico, February 1998.

“Heat Shock Proteins, Free Radicals, and Oxidative Stress: Integration of Basic Science with Exercise Stress,” American College of Sports Medicine Annual Meeting, Orlando, FL, June 2-5, 1998.

1998 ALA/ATS International Conference, Chicago, Illinois, April 2-5, 1998.

“Immune Modulation by Heat Shock Proteins,” John B. Pierce Laboratory, Yale University, New Haven, Conn., May 19, 1998.

“Modulation of Cytokines by the Heat Shock Response,” International Charite’ Symposium, Berlin, Germany, October, 1998.

“Heat Shock Protein Vaccines for Tumor Immunotherapy,” International Charite’ Symposium, Berlin, Germany, October 1998.

“Heat Shock Protein and the Immune Response,” Research Institute for Molecular Pathology, Vienna, Austria, October 1998.

“Immune Therapy Strategies in Lung Cancer,” International Conference on Immune Therapy and Lung Cancer, Vienna, Austria, May 3-7, 1999.

“Impact of Aging on HSP70 Accumulation and Thermotolerance with Heat Stress,” American College of Sports Medicine, Annual Meeting, Seattle, WA, June 3-5, 1999.

“Stress Proteins and the Immune Response,” Lovelace Respiratory Research Institute’s International Symposium: Respiratory Immunology. Santa Fe, NM. October 10-13, 1999.

“Exercise Stress, and the Immune Conversation,” University of Colorado at Boulder, CO. December 1-3, 1999.

2000-2005

“Stress Proteins and Physical Exercise,” International Symposium on Training, Overtraining and Regeneration in Sport Ulm, Germany. October 26-28, 2000.

“Heat Shock Protein: Environmental and Exercise Stress,” at the Annual Meeting of the American Society for Biochemistry and Molecular Biology (FASEB), Experimental Biology 2001, in Orlando, FL. April 1, 2001.

Roger Larsen Visiting Professor; University of California, San Francisco, Fresno Regional Medical Center, November 18-19, 2002.

“Pathogenesis Hypotheses of Exertional Heat Injury/Stroke,” American College of Sports Medicine, San Francisco, CA, May 28-31, 2003.

“Heat Shock Proteins: Understanding the Immune/Inflammatory Paradox,” International Symposium on Exercise and Immunology (ISEI) Copenhagen, Denmark, July 17-19, 2003.

Invited Speaker: “Cytokines, Muscle, and Metabolism,” 2004 APS Intersociety Meeting-Integrative Biology of Exercise, Austin, Texas, October 6-9, 2004.

Invited Speaker: “Immune Activation by Heat Shock” IUPS Commission on Thermal Physiology Symposium on Temperature Regulation, Rhodes, Greece, October 10-15, 2004.

2006-2010

Invited Speaker: “Physiological Thermotolerance: Protein Stability and Endotoxin Tolerance, Copenhagen Muscle Research Institute, Copenhagen, Denmark, September 25, 2006.

Invited Speaker, 19<sup>th</sup> International Puijo Symposium: “Physical Activity, Muscle Metabolism and Chronic Diseases” Kuopio, Finland, June 27-29, 2007.

Invited Speaker: “Heat Shock Proteins and Protection”, American College of Sports Medicine Annual Meeting, Seattle, WA, May 28, 2009.

2010-present

Invited Speaker: “Modulating Inflammation and Adaptation through the Cellular Stress Response,” Program on Aging, Panum Institute, University of Copenhagen, Denmark, March 23, 2011.

Keynote Speaker, American Physiological Society featured symposium in environmental physiology: “Aligning Whole Body Cellular Adaptations to Repeated Heat Stress”, Experimental Biology Annual Meeting, Washington DC, April 12, 2011.

Pennsylvania State University Physiology Colloquium series lecture: “Exercise and Inflammation: The Role of the Stress Proteins,” October 20, 2011.

Noll Lecture, Pennsylvania State University, “The Gut As the Door of Exercise Perception,”

October 21, 2011 Grand Rounds, University of Nebraska Department of Internal Medicine, “Exercise and Myokines: Fitness over Fatness and Why,” November 4, 2011.

Invited Lecture, Center for Biological Sequencing, Danish Technical University, “Heat Shock Proteins and Inflammation: the Virus/Chaperone Connection,” November 17, 2011.

Invited Seminar: “Accessing Big Data to Drive Precision Medicine: Sepsis as a Model,” Faculty of Health Sciences, University of Copenhagen, October 30, 2016.

Invited Seminar, “ The Role of Big Data in Risk Stratification for RCT’s ,” Department of Aesthesia and Criticl Care Medicine, Rigshospitalet, University of Copenhagen, May 5, 2017.