

CURRICULUM VITAE
John W. Eaton

ADDRESS: James Graham Brown Cancer Center
Department of Medicine
University of Louisville
529 South Jackson Street
Louisville, Kentucky 40202

Phone: (502)852-1075 FAX: (502)852-3661

BIRTHDATE: March 13, 1941; Ann Arbor, Michigan

MARITAL: Married; one child

EDUCATION: Florida State University, Tallahassee, Florida
B.A., 1963 (anthropology/archeology)

University of Florida, Gainesville, Florida
M.A., 1964 (biological anthropology)

University of Michigan, Ann Arbor, Michigan
M.S., 1966 (biological anthropology)

University of Michigan, Ann Arbor, Michigan
Ph.D., 1969 (biological anthropology/human genetics)

University of Linköping, Linköping, Sweden
M.D. (*hc*), 2001 (medicine)

EMPLOYMENT: Assistant Field Archeologist, Department of Anthropology, University of Michigan, Ann Arbor, Michigan, 1963

Research Technician, Departments of Cardiology and Biochemistry, University of Florida Medical School, Gainesville, Florida, 1965

Instructor in Anthropology, Department of Anthropology, Florida State University, Tallahassee, Florida, 1965-1966

Research Associate, Department of Human Genetics, University of Michigan, Ann Arbor, Michigan 1969-1970

Assistant Professor of Anthropology, Department of Anthropology, Washington University, St. Louis, Missouri, 1970-1972

Assistant Professor of Medicine and Clinical Investigator, Department of Medicine, University of Minnesota Medical School, Minneapolis, Minnesota, 1972-1977

Associate Professor of Medicine and Clinical Investigator, Department of Medicine, University of Minnesota Medical School, 1977-1979

Director, Division of Medical Genetics, Department of Laboratory Medicine & Pathology, University of Minnesota Medical School, 1979-1990

Professor, Department of Medicine, University of Minnesota Medical School, 1979-1992

Professor, Department of Laboratory Medicine and Pathology, University of Minnesota Medical School, 1979-1992

Vice President, Research and Development, Biomedical Frontiers, Inc., Minneapolis, Minnesota, 1987-1995

Professor, Departments of Pathology and Laboratory Medicine, and Biochemistry and Molecular Biology, Albany Medical College, Albany, New York, 1992-1996

Director, Division of Experimental Pathology, Department of Pathology and Laboratory Medicine, Albany Medical College, 1992-1996

Professor, Department of Physiology and Cell Biology, Albany Medical College, 1994-1996

Professor, Section of Neonatology, Department of Pediatrics, Baylor College of Medicine, Houston, Texas, 1996-2000

James Graham Brown Professor of Cancer Biology, James Graham Brown Cancer Center, University of Louisville, Louisville, Kentucky, 2000-present

Professor, Center for Genetics and Molecular Medicine, University of Louisville, Louisville, Kentucky, 2000-present

Professor, Departments of Medicine and Pharmacology/Toxicology, University of Louisville, Louisville, Kentucky, 2000-present

Deputy Director, James Graham Brown Cancer Center, University of Louisville, Louisville, Kentucky, 2001-present.

ADJUNCT: Adjunct Professor, The Picower Institute for Medical Research, Manhasset, New York, September 1995 - 2001

Adjunct Professor, Department of Pathology and Laboratory Medicine, Albany Medical College, Albany, New York, May 1996 – 2010

Visiting Professor, Medical School, University of Debrecen, Debrecen, Hungary; October 2012-January 2015.

First visit February-April, 2013, second visit September, 2013; third visit February-March 2014; additional dates to be determined. [Supported by a European Union grant to 10 professors at the University of Debrecen; Eaton is the only external professor]

MEMBERSHIPS

American Association for the Advancement of Science
American Chemical Society
American Diabetes Association
American Federation for Clinical Research (AFCR)
American Society for Biochemistry and Molecular Biology
American Society of Clinical Oncology
American Society of Hematology
East Coast Iron Club
Oxygen Society
International Society for Free Radical Research (Australasia)
Red Cell Club
Society of Toxicology
Southern Society for Clinical Investigation
Surfaces in Biomaterials Foundation

HONORS AND AWARDS

Recipient, U. S. Public Health Service Graduate Training Grant, Human Genetics, 1966-1967, 1967-1968, 1968-1969

Recipient, National Institutes of Health Research Career Development Award, 1978-1983

Participant, International Biological Program, Section on Biology of Human Populations at High Altitude

Member, Ad Hoc Committees & Site Visit Teams, Sickle Disease Branch, National Heart, Lung and Blood Institute, National Institutes of Health, 1973, 1974, 1976, 1978, 1981-present

Member, Comprehensive Sickle Cell Centers Parent Review Committee and Site Visit Teams, National Heart, Lung and Blood Institute, National Institutes of Health, 1986-1987, 1991-1992, 2002

Member, Hematology-2 Study Section, National Heart, Lung and Blood Institute, National Institutes of Health, 1988-1992; 1998-2002; Special Reviewer, 1993, 1997

Member, National Institutes of Health Reviewers Reserve, 2002-present

Member, Sickle Cell Disease Therapy Special Study Section, National Heart, Lung and Blood Institute, National Institutes of Health, 1996

Chair, SBIR Phase I (1997) and II (1998) Special Review Groups, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health

Member, Special Emphasis Panel on Tissue Engineering, National Heart, Lung and Blood Institute, National Institutes of Health, 1998

Member, Research Resource Special Study Section 2 and Site Visit Team, Center for Scientific Review, National Institutes of Health, 1998

Member, Special Emphasis Panel on Iron Overload and Hemochromatosis, National Institute of Diabetes, Digestive and Kidney Diseases, National Institutes of Health, 1999

Member, Organizing Committee, First (1982) and Second (1984) University of Minnesota/3M Research Poster Sessions, Minneapolis, Minnesota; Co-Organizer, Third (1986), Fourth (1988) and Fifth (1990) statewide Uof MN Research Poster Sessions: Basic and Applied Research in Academia and Industry, Minneapolis, Minnesota

Organizer, International Conference on Cellular and Molecular Aspects of Aging: The Red Cell as a Model, September 8-11, 1984, Minneapolis, Minnesota

National Science Foundation Lectureship to India, 1982

FASEB (MARC) Visiting Scientist for Minority Institutions, 1984, 1985, 1990

Visiting Professor, Department of Physiology, University of New England, Armidale, New South Wales, Australia, November 1985

Visiting Professor, Department of Pharmaceutical Chemistry, University of California, San Francisco, February-April 1987

Visiting Professor, The Picower Institute for Medical Research, Manhasset, New York, April 1 - June 30, 1995

Visiting Scientist, International Center for Advanced Studies, Nizhny Novgorod, Russia, May-June, 1997

Visiting Professor, Medical School of Linköping University, Linköping, Sweden, May-October, 1999 and October-December, 2001

Recipient, Iron Bolt Award, presented at the Gordon Research Conference on Oxygen Radicals in Biology and Medicine, February 1987

Advisor, Biomedical Engineering Graduate Student Society, University of Minnesota, 1989-1992

Recipient, Gordon L. Starr Award for Outstanding Service to Students, University of Minnesota, 1990

Vice-Chairman (1990) and Chairman (1992) Gordon Research Conference on Oxygen Radicals in Biology

Treasurer, The Oxygen Society, January 1993 - December 1994

Head, Scientific Advisory Council, Biomedical Frontiers, Inc., Minneapolis, Minnesota, 1993-present

Member, Scientific Advisory Board, Albany Medical College, 1994-1996

Editor for the Americas (1994-1995) / Co-Editor-in-Chief (1995-2003), *Redox Report: Communications in Free Radical Research* (Maney Publishing)

Member, Scientific Advisory Board, SynZyme Technologies, Inc., Irvine, California, 1994-1999

Member, Editorial Board, *Free Radical Biology & Medicine* (Pergamon Press), 1994-1999

Member, Organizing Committee (Co-organizer, Albany Medical College), First Albany Medical College/ Rensselaer Polytechnic Institute Joint Research Symposium, March 25, 1995; and Second AMC/RPI Joint Research Symposium, March 23, 1996

External Scientific Advisor and Member, Technical Advisory Panel, Focal, Inc., Lexington, Massachusetts, 1996-2000

Member, 1999 Awards Committee, American Society of Hematology

Co-Organizer, First International Conference on Tumor Cell Metabolism, Point Clear, AL, October 27-31, 2001

Organizer, Second International Conference on Tumor Cell Metabolism, Point Clear, AL, Nov. 1-4, 2003

Co-Organizer, Third International Conference on Tumor Cell Metabolism, Louisville, KY, October, 2005

Co-Organizer, Fourth International Conference on Tumor Cell Metabolism, Louisville, KY, October, 2009

United States Patents

Method and Agents for Arresting Infection. Patent No. 4,462,989. July 31, 1984.

Method and Agents for Raising Animal Tolerance to Oxidant Stress-Inducing Antibiotics. Patent No. 4,548,927. October 22, 1985.

Method for the Early Diagnosis of Bordetella Diseases and Kit Therefor. Patent No. 4,652,521. March 24, 1987.

A Method for the Stabilization of Deferoxamine to Chelate Free Ions in Physiological Fluid. Patent No. 4,863,964. September 5, 1989.

Biocompatible Materials Comprising Albumin Binding Dyes. Patent No. 5,073,171. December 17, 1991.

Composition for the Stabilization of Deferoxamine to Chelate Free Ions in Physiological Fluid. Patent No. 5,217,998. June 8, 1993.

Graft Polymer Articles Having Bioactive Surfaces. Patent No. 5,344,455. September 6, 1994.

Articles Having Graft Polymer Bioactive Surfaces. Patent No. 5,476,509. December 19, 1995.

Fixed Tissue Medical Devices Comprising Albumin-Binding Dyes. Patent No. 5,509,932. April 23, 1996.

Method for Administering a Bioactive Agent. Patent No. 5,545,213. August 13, 1996.

Antigenic Modulation of Cells. Patent No. 5,908,624. June 1, 1999 (see below).

Method and Agents for Universal Virus Detection. Provisional.

Method and Agents for Vaccination against Neoplastic Diseases. 1577/7 PCT/US

Antigenic Modulation of cells. Patent No. 8,007,784, August 30, 2011

Consultantships (past and present)

Advanced Surface Technology (AST), Billerica, Massachusetts
Alcon, Inc., Fort Worth, Texas
Alteon, Inc., Northvale, New Jersey
Biometric Systems, Inc., Minneapolis, Minnesota
Cerami Consulting, Inc., Tarrytown, New York
Enzon, Inc., South Plainfield, New Jersey
Focal, Inc., Cambridge, Massachusetts
Genzyme, Inc., Cambridge, Massachusetts
Hunt Mining and Exploration, Dallas, Texas
Infimed Therapeutics, Inc., Cambridge, Massachusetts
Medtronic, Inc., Minneapolis, Minnesota
Minntech, Inc., Minneapolis, Minnesota
Pall Corporation, Port Washington, New York
Pharmacia AB, Uppsala, Sweden
Shearwater Polymers, Inc., Huntsville, Alabama
Sulzer Orthopedics, Austin, Texas
SynZyme Technologies, Inc., Irvine, California
Teltech, Inc., Minneapolis, Minnesota

Grant Support

Ongoing Research Support

Funding Agency: National Institutes of Health
Title: Molecular Targets Center of Biomedical Research Excellence
This third 5-year phase of the grant (P30) provides funding for four core facilities [Microarray Core, NMR Suite Core, Molecular Modeling Core, Mouse Model Core], an Administrative Core and a Pilot Project Program (run by Dr. Eaton) for the Molecular Targets Program, James Graham Brown Cancer Center.

Funding Period: July 1, 2013 - June 30, 2018.

Total Direct Costs: \$3,750,000 (Miller – PI; Eaton Co-Investigator)

Funding Agency: National Aeronautics & Space Administration
Title: A Paradigm-shifting Therapy for Humans Exposed to Radiation
This grant centers on the problem of radiation exposure to astronauts – how to measure such exposure and how to prevent radiation damage. The overall goals of our work are to (1) determine which cellular response elements are the best reflection of radiation exposure and (2) to find practical approaches to remediate the effects of acute radiation exposure.

Funding Period: 01/01/13 – 12/31/15

Total Direct Costs: \$750,000 (Soucy PSA – PI; Eaton co-PI)

Funding Agency: Gift
Title: Immune Basis for Chronic Obstructive Pulmonary Disease
Funding Period: 01/01/03 - 12/31/16
Total Direct Costs: \$86,000 (Eaton – PI)

PUBLICATIONS

-Articles-

1. Eaton, J.W. Pipe stem dating and the date for Silver Bluff, South Carolina. *The Florida Anthropologist*, Volume XV, No. 2, 1962
2. Eaton, J.W. The preservation of wood by the alum process. *The Florida Anthropologist*, Volume XV, No. 4, 1962
3. Eaton, J.W. and Gavan, J.A. Sensitivity to P-T-C among primates. *American Journal of Physical Anthropology* 23:381-388, 1965
4. Eaton, J.W., Brewer, G.J., Beck, C.C. and Shreffler, D.C. ATP and potassium content of sheep erythrocytes. *Biochemical and Biophysical Research Communications* 28:898-903, 1967
5. Brewer, G.J., Eaton, J.W., Knutsen, C.S. and Beck, C.C. A starch-gel electrophoretic method for the study of diaphorase isozymes and preliminary results with sheep and human erythrocytes. *Biochemical and Biophysical Research Communications* 29:198-204, 1967
6. Kitchen, H., Eaton, J.W. and Stenger, V.G. Hemoglobin types of adult, fetal, and newborn sub-human primates: *Macaca speciosa*. *Archives of Biochemistry and Biophysics* 123: 227-234, 1968
7. Kitchen, H., Eaton, J.W. and Taylor, W.J. Rapid production of a hemoglobin by induced hemolysis in sheep: Hemoglobin C. *American Journal of Veterinary Research* 29:281-289, 1968
8. Eaton, J.W. and Brewer, G.J. The relationship between red cell 2,3-diphosphoglycerate and levels of hemoglobin in the human. *Proceedings of the National Academy of Sciences USA* 61:756-760, 1968
9. Brewer, G.J., Eaton, J.W., Beck, C.C., Feitler, L. and Shreffler, D.C. Sodium-potassium stimulated ATPase activity of mammalian hemolysates: Clinical observations and dominance of ATPase deficiency in the potassium polymorphism of sheep. *Journal of Laboratory and Clinical Medicine* 71:744-753, 1968
10. Eaton, J.W. and Brewer, G.J. Red cell ATP and malaria infection. *Nature* 222:389-390, 1969
11. Eaton, J.W., Faulkner, J.A. and Brewer, G.J. Response of the human red cell to muscular activity. *Proceedings of the Society for Experimental Biology and Medicine* 132:886-887, 1969
12. Eaton, J.W., Brewer, G.J. and Grover, R.F. Role of red cell 2,3-diphosphoglycerate in the adaptation of man to altitude. *Journal of Laboratory and Clinical Medicine* 73:603-609, 1969
13. Faulkner, J.A., Brewer, G.J. and Eaton, J.W. Adaptation of the red blood cell to muscular exercise. In: Red Cell Metabolism and Function, G. J. Brewer (ed.), Plenum Press: New York, pp. 213-227, 1970
14. Brewer, G.J., Coan, C., Eaton, J.W., Shreffler, D.C., Sing, C.F., Rasmussen, B. and Beck, C.C. Blood groups and sodium-potassium stimulated ATPase. In: Blood and Tissue Antigens, D. Aminoff (ed.), Academic Press: New York, pp. 51-66, 1970

15. Dinman, B.D., Eaton, J.W. and Brewer, G.J. Effects of carbon monoxide on 2,3-diphosphoglycerate concentrations in the erythrocyte. In: Biological Effects of Carbon Monoxide, Annals of the New York Academy of Sciences 174: 246-251, 1970
16. Brewer, G.J., Eaton, J.W., Weil, J. and Grover, R.F. Studies of red cell glycolysis and interactions with carbon monoxide, smoking and altitude. In: Red Cell Metabolism and Function, G. J. Brewer (ed.), Plenum Press: New York, pp. 95-114, 1970
17. Eaton, J.W., Brewer, G.J., Schultz, J.S. and Sing, C.F. Variation in 2,3-diphosphoglycerate and ATP levels in human erythrocytes and effects on oxygen transport. In: Red Cell Metabolism and Function, G. J. Brewer (ed.), Plenum Press: New York, pp. 21-38, 1970
18. Brewer, G.J. and Eaton, J.W. Erythrocyte metabolism: Interaction with oxygen transport. *Science* 171:1205-1211, 1971
19. Brewer, G.J., Eaton, J.W. Grover, R.F. and Weil, J.V. Cigarette smoking as a cause of hypoxemia in man at altitude. *Chest* 59(Suppl):30, 1971
20. Eaton, J.W. and Mucha, J.I. Increased fertility in males with the sickle cell trait? *Nature* 231:456-457, 1971
21. Seward, C.W., Eaton, J.W. and Chaplin, H. Jr. Artificially-induced thyroid suppression in sickle cell disease. *Blood* 40:905-913, 1972
22. Brewer, G.J., Oelshlegel, F.J. Jr. and Eaton, J.W. Biochemical, physiological, and genetic factors in the regulation of mammalian erythrocyte metabolism and DPG levels. In: Alfred Benzon Symposium IV. Oxygen Affinity of Hemoglobin and Red Cell Acid-Base Status, M. Rorth and P. Astrup (eds.), Munksgaard, Copenhagen, pp. 539-551, 1972
23. Eaton, J.W., Boraas, M. and Etkin, N.L. Catalase activity and red cell metabolism. In: Advances in Experimental Medicine and Biology: Hemoglobin and Red Cell Structure and Function, G. J. Brewer (ed.), Plenum Press: New York, pp. 121-131, 1972
24. Eaton, J.W. Catalase activity and cancer. *Lancet* 2:46, 1972
25. Eaton, J.W. Review of natural selection in human populations. *American Journal of Physical Anthropology* 38:42, 1972
26. Eaton, J.W., Kolpin, C.F., Swofford, H.S., Kjellstrand, C.-M. and Jacob, H.S. Chlorinated urban water: A cause of dialysis-induced hemolytic anemia. *Science* 181:463-464, 1973
27. Eaton, J.W., Skelton, T.D., Swofford, H.S., Kolpin, C.F. and Jacob, H.S. Elevated erythrocyte calcium concentration in sickle cell disease. *Nature* 246:105-106, 1973
28. Brewer, G.J., Sing, C.F., Eaton, J.W., Weil, J., Brewer, L.F. and Grover, R. Effects on hemoglobin oxygen affinity of smoking in residents of intermediate altitude. *Journal of Laboratory and Clinical Medicine* 84:191-205, 1974
29. von Hartitzsch, B., Eaton, J.W., Buselmeier, T.J. and Kjellstrand, C.-M. Dialysis disequilibrium: A manifestation of impaired tissue oxygenation. *Transactions of the American Society of Artificial Internal Organs* 20A:373-376, 1974
30. Kjellstrand, C.-M., Shideman, J.R. and Eaton, J.W. Continuous extracorporeal chemotherapy of blood utilizing hemodialysis: Potential for the treatment of sickle cell

- disease. *Transactions of the American Society of Artificial Internal Organs* 20B:574-578, 1974
31. Eaton, J.W. Oxygen affinity and environmental adaptation. In: *Hemoglobin: Comparative Molecular Biology Models for the Study of Disease, Annals of the New York Academy of Sciences* 241:491-497, 1974
 32. Kjellstrand, C.-M., Eaton, J.W., Yawata, Y., Swofford, H.S., Kolpin, C.F., Buselmeier, T.J., von Hartitzsch, B. and Jacob, H.S. Hemolysis in dialyzed patients caused by chloramines. *Nephron* 13: 427-433, 1974
 33. Eaton, J.W. and Brewer, G.J. Pentose phosphate metabolism. In: *The Red Blood Cell*, D.M. Surgenor (ed.), Academic Press: New York, Volume 1, pp. 435-471, 1974
 34. Eaton, J.W., Skelton, T.D. and Berger, E. Survival at extreme altitude: Protective effect of increased hemoglobin-oxygen affinity. *Science* 183:743-744, 1974
 35. Grothe, D.R. and Eaton, J.W. Chlorine-induced mortality in fish. *Transactions of the American Fisheries Society* 104:800-802, 1975
 36. Etkin, N.L. and Eaton, J.W. Malaria-induced erythrocyte oxidant sensitivity. In: *Erythrocyte Structure and Function*, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 219-234, 1975
 37. Jacob, H.S., Eaton, J.W. and Yawata, Y. Shortened red cell survival in uremic patients: Beneficial and deleterious effects of dialysis. *Kidney International* (Supplement) 2:139-143, 1975
 38. Eaton, J.W., Berger, E., White, J.G. and Jacob, H.S. Effects of calcium on hemoglobin SS erythrocytes: Evidence that calcium accumulation underlies the formation of irreversibly sickled red cells. In: *Molecular and Cellular Aspects of Sickle Cell Disease*, J. I. Hercules, G. Cottam, M. R. Waterman and A. N. Schechter (eds.), Department of Health, Education and Welfare: Washington, Publication No. (NIH) 76-1007, pp. 327-342, 1976
 39. Eckman, J.R., Eaton, J.W., Berger, E. and Jacob, H.S. Role of vitamin E in regulating malaria expression. *Transactions of the Association of American Physicians* 89:105-115, 1976
 40. Eaton, J.W., Eckman, J.R., Berger, E. and Jacob, H.S. Suppression of malaria infection by oxidant-sensitive host erythrocytes. *Nature* 264:758-760, 1976
 41. Eckman, J.R., Modler, S., Eaton, J.W., Berger, E. and Engel, R.R. Host heme catabolism in drug-sensitive and drug-resistant malaria. *Journal of Laboratory and Clinical Medicine* 90:767-770, 1977
 42. Hebbel, R.P., Kronenberg, R.S. and Eaton, J.W. Hypoxic ventilatory response in subjects with normal and high oxygen affinity hemoglobins. *Journal of Clinical Investigation* 60:1211-1215, 1977
 43. Kuettner, J.F., Dreher, K.L., Rao, G.H., Eaton, J.W., Blackshear, P.L. Jr. and White, J.G. Influence of the ionophore A23187 on the plastic behavior of normal erythrocytes. *American Journal of Pathology* 88:81-94, 1977
 44. Eaton, J.W., Berger, E., White, J.G. and Jacob, H.S. Metabolic and morphologic effects of intra-erythrocytic calcium: Implications for the pathogenesis of sickle cell disease. In:

Progress in Clinical and Biological Medicine 14: Zinc Metabolism: Current Aspects in Health and Disease, G.J. Brewer and A.S. Prasad (eds.), Alan R. Liss: New York, pp. 275-298, 1977

45. Rao, G.H.R., Gerrard, J.M., Eaton, J.W. and White, J.G. Arachidonic acid peroxidation, prostaglandin synthesis and platelet function. *Photochemistry and Photobiology* 29:845-850, 1978
46. Eaton, J.W., Berger, E., White, J.G. and Jacob, H.S. Calcium-induced damage of hæmoglobin SS and normal erythrocytes. *British Journal of Haematology* 38:57-62, 1978
47. Steinberg, M.H., Eaton, J.W., Berger, E., Coleman, M.B. and Oelshlegel, F. Erythrocyte calcium abnormalities and the clinical severity of sickling disorders. *British Journal of Haematology* 40:533-539, 1978
48. Hebbel, R.P., Eaton, J.W., Modler, S. and Jacob, H.S. Extreme but asymptomatic carboxyhemoglobinemia and chronic lung disease. *Journal of the American Medical Association (JAMA)* 239:2584-2586, 1978
49. Hebbel, R.P., Eaton, J.W., Berger, E.M., Kronenberg, R.S., Zanjani, E.D. and Moore, L.G. Hemoglobin oxygen affinity and adaptation to altitude: Evidence for pre-adaptation to altitude in humans with left-shifted oxyhemoglobin dissociation curves. *Transactions of the Association of American Physicians* 91:212-228, 1978
50. Hebbel, R.P., Eaton, J.W., Kronenberg, R.S., Zanjani, E.D., Moore, L.G. and Berger, E.M. Human llamas: Adaptation to altitude in subjects with high hemoglobin oxygen affinity. *Journal of Clinical Investigation* 62:593-600, 1978
51. Neilan, B.A., Ehlers, S.M., Kolpin, C.F. and Eaton, J.W. Prevention of chloramine-induced hemolysis in dialyzed patients. *Clinical Nephrology* 10:105-108, 1978
52. Eaton, J.W., Berger, E., White, J.G. and Nelson, D. Interspecies variation in erythrocyte calcium response. In: Progress in Clinical and Biological Research 20: Erythrocyte Membranes, W. Kruckeberg, J.W. Eaton and G.J. Brewer (eds.), Alan R. Liss: New York, pp. 37-49, 1978
53. Eaton, J.W., Berger, E., Nelson, D., White, J.G. and Rundquist, O. Intracellular calcium: Lack of effect on ovine red cells. *Proceedings of the Society for Experimental Biology and Medicine* 157:506-510, 1978
54. Eaton, J.W., Eckman, J.R., Berger, E. and Jacob, H.S. Malaria infection: Protective effect of oxidant sensitive host erythrocytes. In: Proceedings of the 18th International Congress of Hematology, pp. 495-497, 1978
55. Dreher, K.L., Eaton, J.W., Kuettner, J.F., Breslawec, K.P., Blackshear, P.L. and White, J.G. Retention of water and potassium by erythrocytes prevents calcium-induced membrane rigidity. *American Journal of Pathology* 92:215-225, 1978
56. Rao, G.H.R., Gerrard, J.M., Eaton, J.W. and White, J.G. The role of iron in prostaglandin synthesis: Ferrous iron mediated oxidation of arachidonic acid. *Prostaglandins and Medicine* 1:55-70, 1978

57. Branda, R.F. and Eaton, J.W. Skin color and nutrient photolysis: An evolutionary hypothesis. *Science* 201:625-626, 1978
58. Kjellstrand, C.M., Alfrey, A.C., Eaton, J.W., Friedman, E.A., Ginn, H.E., Hull, A.R. and Ogden, D. Toxicity of materials and medications used in dialysis. *Transactions of the American Society of Artificial Internal Organs* 24:764-769, 1978
59. Hebbel, R.P., Kronenberg, R.S. and Eaton, J.W. Utilization of humans with high oxygen affinity hemoglobins in identifying mediators of physiologic responses to hypoxia. In: *Progress in Clinical and Biological Research* 21: *The Red Cell*, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 739-747, 1978
60. Repine, J.E., Eaton, J.W., Anders, M.W., Hoidal, J.R. and Fox, R.B. Generation of hydroxyl radical by enzymes, chemicals, and human phagocytes *in vitro*: Detection using the anti-inflammatory agent, dimethyl sulfoxide. *Journal of Clinical Investigation* 64:1642-1651, 1979
61. Repine, J.E., Hoidal, J.R., Beall, G.D., Fox, R.B., Rasp, F.L., Clifford, D.P., Eaton, J.W., Davies, S., Clawson, C.C. and White, J.G. The effect of temperature on the chemiluminescence response of polymorphonuclear leukocytes *in vitro*. In: *Biochemical and Clinical Aspects of Oxygen*, W. Caughey (ed.), Academic Press: New York, pp. 725-736, 1979
62. Eckman, J.R. and Eaton, J.W. Dependence of plasmodial glutathione metabolism on the host cell. *Nature* 278:754-756, 1979
63. Eaton, J.W. and Eckman, J.R. Malaria infection and host cell oxidant defense. In: *Biochemical and Clinical Aspects of Oxygen*, W. Caughey (ed.), Academic Press: New York, pp. 825-838, 1979
64. Eaton, J.W., Jacob, H.S. and White, J.G. Membrane abnormalities of irreversibly sickled cells. *Seminars in Hematology* 16:52-64, 1979
65. Hebbel, R.P., Yamada, O., Moldow, C.F., Jacob, H.S., White, J.G. and Eaton, J.W. Abnormal adherence of sickle erythrocytes to cultured vascular endothelium: Possible mechanism for microvascular occlusion in sickle cell disease. *Journal of Clinical Investigation* 65:154-160, 1980
66. Eaton, J.W., Branda, R.F., Hadland, C. and Dreher, K.L. Anion channel blockade: Effects upon erythrocyte membrane calcium metabolism. *American Journal of Hematology* 9:391-399, 1980
67. Dawson, R.B., Hershey, R.T., Myers, C.S. and Eaton, J.W. Blood preservation XLIV: 2,3-DPG maintenance by dehydroascorbate better than D-ascorbic acid. *Transfusion* 20:321-323, 1980
68. Dreher, K.L., Eaton, J.W., Breslawec, K.P., Berger, E., Blackshear, P.L. and White, J.G. Calcium-induced erythrocyte rigidity: the roles of cellular metabolism, hydration and ionic balance. *American Journal of Pathology* 101:543-556, 1980
69. Burris, S.M., White, J.G. and Eaton, J.W. Calcium-induced erythrocyte shape change: Evidence against involvement of diacylglycerol accumulation. In: *Red Blood Cell and Lens Metabolism: Developments in Biochemistry*, Volume 9, S.K. Srivastava (ed.), Elsevier North-Holland, pp. 49-54, 1980

70. Hebbel, R.P., Berger, E.M. and Eaton, J.W. Effect of increased maternal hemoglobin oxygen affinity on fetal growth in the rat. *Blood* 55:969-974, 1980
71. Hebbel, R.P., Boogaerts, M.A.B., Eaton, J.W. and Steinberg, M.H. Erythrocyte adherence to endothelium in sickle cell anemia. A possible determinant of disease severity. *New England Journal of Medicine* 302:992-995, 1980
72. Hebbel, R.P., Boogaerts, M.A.B., Koresawa, S., Jacob, H.S., Eaton, J.W. and Steinberg, M.H. Erythrocyte adherence to endothelium as a determinant of vasocclusive severity in sickle cell disease. *Transactions of the Association of American Physicians* 93:94-99, 1980
73. Hebbel, R.P., White, J.G. and Eaton, J.W. Erythrocyte membrane damage in Hb SS disease: Possible relationships to circulatory abnormalities. In: The Molecular Basis of Murrant Hemoglobin Dysfunction, P. Siegler (ed.), Academic Press: New York, 1980
74. Burris, S.M., Eaton, J.W. and White, J.G. Evaluation of the role of diacylglycerol in calcium-induced erythrocyte shape change and rigidity. *Journal of Laboratory and Clinical Medicine* 96:749-756, 1980
75. Shalev, O., Leida, M.N., Hebbel, R.P., Jacob, H.S. and Eaton, J.W. Abnormal erythrocyte calcium homeostasis in oxidant-induced hemolytic disease. *Blood* 58:1232-1235, 1981
76. Mahoney, J.R. and Eaton, J.W. Chloroquine-resistant malaria: Association with enhanced plasmodial protease activity. *Biochemical and Biophysical Research Communications* 100:1266-1271, 1981
77. Mahoney, J.R. and Eaton, J.W. Chloroquine resistant *P. berghei*: Association with variation in plasmodial protease activity. In: Progress in Clinical and Biological Research 55: The Red Cell; Ann Arbor Conference, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 505-516, 1981
78. Sheppard, J.R., Schumacher, W., Jackman, R., Cox, D.E., Edstrom, R.D., Mahoney, J.R. and Eaton, J.W. Cyclic AMP metabolism in *P. berghei*-infected murine red cells. In: Progress in Clinical and Biological Research 55: The Red Cell; Ann Arbor Conference, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 491-502, 1981
79. Hebbel, R.P., Steinberg, M.H. and Eaton, J.W. Erythrocyte calcium abnormalities in sickle cell disease. In: Progress in Clinical and Biological Research 51: The Function of Red Blood Cells - Erythrocyte Pathobiology, Alan R. Liss: New York, pp. 321-332, 1981
80. Hebbel, R.P., Eaton, J.W., Steinberg, M.H. and White, J.G. Erythrocyte/endothelial interactions and the vasocclusive severity of sickle cell disease. In: Progress in Clinical and Biological Research 55: The Red Cell; Ann Arbor Conference, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 145-157, 1981
81. Leida, M.N., Mahoney, J.R. and Eaton, J.W. Intraerythrocytic plasmodial calcium metabolism. *Biochemical and Biophysical Research Communications* 103:402-406, 1981
82. Meshnick, S.R. and Eaton, J.W. Leishmanial superoxide dismutase: A possible target for chemotherapy. *Biochemical and Biophysical Research Communications* 102:970-976, 1981

83. Barbosa, J., Menth, L., Eaton, J., Sutherland, D., Freier, E. and Najarian, J. Long-term, ambulatory, subcutaneous insulin infusion versus multiple daily injections in brittle diabetic patients. *Diabete Care* 4:269-274, 1981
84. Eaton, J.W. and Hebbel, R.P. Pathogenesis of sickle cell disease. In: Pathobiology Annual 1981, Volume II, H.L. Joachim (ed.), Raven Press: New York, pp. 31-52, 1981
85. Eaton, J.W., Tsai, M.Y., Leida, M.N. and Branda, R. Red cell anion channel blockade: Extracellular modulation of internal membrane function. In: Progress in Clinical and Biological Research 55: The Red Cell; Ann Arbor Conference, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 409-420, 1981
86. Mahoney, J.R., Etkin, N.L., McSwigan, J.D. and Eaton, J.W. Assessment of red cell sodium transport in essential hypertension. *Blood* 59:439-442, 1982
87. Wang, N., Yu, S.H., Liener, I.E., Hebbel, R.P., Eaton, J.W. and McKhann, C.F. Characterization of high- and low-metastatic clones derived from a methylcholanthrene-induced murine fibrosarcoma. *Cancer Research* 42:1046-1051, 1982
88. Hebbel, R.P., Eaton, J.W., Steinberg, M.H. and White, J.G. Erythrocyte/endothelial interactions in the pathogenesis of sickle cell disease: A real logical assessment. *Blood Cells* 8:163-173, 1982
89. Eaton, J.W., Brandt, P., Mahoney, J.R. and Lee, J.T. Jr. Haptoglobin: A natural bacteriostat. *Science* 215:691-693, 1982
90. Confer, D.L. and Eaton, J.W. Phagocyte impotence caused by an invasive bacterial adenylate cyclase. *Science* 217:948-950, 1982
91. Etkin, N.L., Mahoney, J.R., Forsthoefel, M.W., Eckman, J.R., McSwigan, J.D., Gillum, R.F. and Eaton, J.W. Racial differences in hypertension-associated red cell sodium permeability. *Nature* 297:588-589, 1982
92. Hebbel, R.P. and Eaton, J.W. Sickle cell disease: Beyond the hemoglobin abnormality. In: Progress in Clinical and Biological Research 97: Membranes and Genetic Disease, J. R. Sheppard, V.E. Anderson and J.W. Eaton (eds.), Alan R. Liss: New York, pp. 341-349, 1982
93. Hebbel, R.P., Eaton, J.W., Balasingham, M. and Steinberg, M.H. Spontaneous oxygen radical generation by sickle erythrocytes. *Journal of Clinical Investigation* 70:1253-1259, 1982
94. Confer, D.L. and Eaton, J.W. Pathogen-host jujitsu: Phagocyte impotence caused by internalized bacterial adenylate cyclase. *Transactions of the Association of American Physicians* 95:1-7, 1982
95. Weir, E.K., Will, J.A., Lundquist, L.J., Eaton, J.W. and Chesler, E. Diamide inhibits pulmonary vasoconstriction induced by hypoxia or prostaglandin F_{2a}. *Proceedings of the Society for Experimental Biology and Medicine* 173:96-103, 1983
96. Hebbel, R.P., Eaton, J.W. and Steinberg, M.H. Generation of activated oxygen by sickle erythrocytes: Membrane-bound hemichrome as a biological Fenton's reagent. In: Oxygen

Radicals and Their Scavenger Systems, Volume II: Cellular and Medical Aspects. R. Greenwald and G. Cohen (eds.), Elsevier/North Holland, pp. 53-58, 1983

97. Bhargava, K.K., Le Trang, N., Cerami, A. and Eaton, J.W. Effect of arsenical drugs on glutathione metabolism of *Litomosoides carinii*. *Molecular and Biochemical Parasitology* 9:29-35, 1983
98. Meshnick, S.R., Le Trang, N., Kitchener, K., Cerami, A. and Eaton, J.W. Iron-containing superoxide dismutases in trypanosomatids. In: Oxygen Radicals and Their Scavenger Systems, Volume 1: Molecular Aspects. G. Cohen and R. Greenwald (eds.), Elsevier/North Holland, pp. 348-352, 1983
99. Allen, D.W., Groat, J.D., Finkel, B., Rank, B.H., Wood, P.A. and Eaton, J.W. Increased adsorption of cytoplasmic proteins to the erythrocyte membrane in ATP-depleted normal and pyruvate kinase-deficient mature cells and reticulocytes. *American Journal of Hematology* 14:11-25, 1983
100. Confer, D.L., Slungaard, A.S., Graf, E., Panter, S.S. and Eaton, J.W. Bordetella adenylate cyclase toxin: Entry of bacterial adenylate cyclase into mammalian cells. In: Proceedings of the Fifth International Conference on Cyclic Nucleotides (Milan, Italy), 1983
101. Le Trang, N., Meshnick, S.R., Kitchener, K., Eaton, J.W. and Cerami, A. Iron-containing superoxide dismutase from *Crithidia fasciculata*: Purification, characterization, and similarity to Leishmanial and Trypanosomal enzymes. *Journal of Biological Chemistry* 258:125-130, 1983
102. Fairfield, A.S., Meshnick, S.R. and Eaton, J.W. Malarial parasites adopt host cell superoxide dismutase. *Science* 221:764-766, 1983
103. Wiser, M.F., Wood, P.A., Eaton, J.W. and Sheppard, J.R. Membrane-associated phosphoproteins in *Plasmodium berghei*-infected murine erythrocytes. *Journal of Cell Biology* 97:196-201, 1983
104. Wiser, M.F., Eaton, J.W. and Sheppard, J.R. A plasmodium protein kinase which is developmentally regulated, stimulated by spermine and inhibited by quercetin. *Journal of Cellular Biochemistry* 21:305-314, 1983
105. Graf, E. and Eaton, J.W. Dietary phytate and nutritional calcium bioavailability. In: Calcium Utilization and Bioavailability, C. Kies (ed.), American Chemical Society, Washington, D.C., pp. 51-62, 1983
106. Slungaard, A., Confer, D.L., Jacob, H.S. and Eaton, J.W. Antineoplastic effects of *Bordetella pertussis* adenylate cyclase. *Transactions of the Association of American Physicians* 96:401-405, 1983
107. Shalev, O., Eaton, J.W. and Ben-Ishay, D. Erythrocyte ²²Na influx in hypertension. *Clinical and Experimental Hypertension* A6:1367-1377, 1983
108. Graf, E., Mahoney, J.R., Bryant, R.G. and Eaton, J.W. Iron-catalyzed hydroxyl radical formation: Stringent requirement for free iron-coordination site. *Journal of Biological Chemistry* 259:3620-3624, 1984

109. Fairfield, A.S., Meshnick, S.R. and Eaton, J.W. Host superoxide dismutase incorporation by intraerythrocytic plasmodia. In: Progress in Clinical and Biological Research 155: Malaria and The Red Cell, J.W. Eaton and G.J. Brewer (eds.), Alan R. Liss: New York, pp. 13-23, 1984
110. Wood, P.A., Rock, L.M. and Eaton, J.W. Chloroquine resistance and host cell hemoglobin catabolism in *Plasmodium berghei*. In: Progress in Clinical and Biological Research 155: Malaria and The Red Cell, J.W. Eaton and G.J. Brewer (eds.), Alan R. Liss: New York, pp. 159-169, 1984
111. Eaton, J.W. and Wood, P.A. Antimalarial red cells. In: Progress in Clinical and Biological Research 165: The Red Cell; Sixth Ann Arbor Conference, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 395-412, 1984
112. Confer, D.L., Slungaard, A.S., Graf, E., Panter, S.S. and Eaton, J.W. Bordetella adenylate cyclase toxin: Entry of bacterial adenylate cyclase into mammalian cells. In: Advances in Cyclic Nucleotides and Protein Phosphorylation Research, Volume 17, P. Greengard et al. (eds.), Raven Press: New York, 183-187, 1984
113. Graf, E. and Eaton, J.W. Effects of phytate on mineral bioavailability in mice. *Journal of Nutrition* 114:1192-1198, 1984
114. Sanchez de la Peña, S., Halberg, F., Schweiger, H.-G., Eaton, J.W. and Sheppard, J. Circadian temperature rhythm and circadian-circaseptan aspects of murine death from malaria. *Proceedings of the Society for Experimental Biology and Medicine* 175:196-204, 1984
115. Sadrzadeh, S.M.H., Graf, E., Panter, S.S., Hallaway, P.E. and Eaton, J.W. Hemoglobin: A biologic Fenton reagent. *Journal of Biological Chemistry* 259:14354-14356, 1984
116. Panter, S.S., Sadrzadeh, S.M.H., Hallaway, P.E., Haines, J., Anderson, V. and Eaton, J.W. Hypohaptoglobinemia: A possible predisposition to epilepsy. *Transactions of the Association of American Physicians* 97:56-62, 1984
117. Pru, C., Eaton, J.W. and Kjellstrand, C.-M. Vitamin C intoxication and hyperoxalemia in chronic hemodialysis patients. *Nephron* 39:112-116, 1985
118. Confer, D.L. and Eaton, J.W. Bordetella adenylate cyclase: Host toxicity and diagnostic utility. In: Proceedings of the Fourth International Symposium on Pertussis, Developments in Biological Standardization, Volume 61, pp. 3-10, S. Karger: Basel, 1985
119. Hrushesky, W.J.M., Olshefski, R., Wood, P.A., Meshnick, S.R. and Eaton, J.W. Modifying intracellular redox balance: An approach to improving therapeutic index. *Lancet* i:565-567, 1985
120. Panter, S.S., Sadrzadeh, S.M.H., Hallaway, P.E., Haines, J., Anderson, V. and Eaton, J.W. Hypohaptoglobinemia associated with familial epilepsy. *Journal of Experimental Medicine* 161:748-754, 1985
121. Eaton, J.W. and Leida, M.N. Hemolysis in chronic renal failure. *Seminars in Nephrology* 5:133-139, 1985

122. Peterson, D.A., Asinger, R.W., Elsperger, K.J., Homans, D.C. and Eaton, J.W. Reactive oxygen species may cause myocardial reperfusion injury. *Biochemical and Biophysical Research Communications* 127:87-93, 1985
123. Shalev, O., Lavi, V., Hebbel, R.P. and Eaton, J.W. Erythrocyte (Ca²⁺ + Mg²⁺)-ATPase activity: Increased sensitivity to oxidative stress in glucose-6-phosphate dehydrogenase deficiency. *American Journal of Hematology* 19:131-136, 1985
124. Graf, E. and Eaton, J.W. Dietary suppression of colonic cancer: Fiber or phytate? *Cancer* 56:717-718, 1985
125. Weir, E.K., Eaton, J.W. and Chesler, E. Redox status and pulmonary vascular reactivity. *Chest* 88 (4 Supplement):249S-252S, 1985
126. Meshnick, S.R., Febbraio, M., Edwards, S., Abosch, A., Fairfield, A. and Eaton, J.W. The antimalarial activity of DDC-treated superoxide dismutase. In: Proceedings of the Fourth International Conference on Superoxide and Superoxide Dismutase (Rome, Italy), 1985
127. Hrushesky, W.J.M., Olshefski, R., Wood, P.A., Meshnick, S.R., Babson, J.R., Woods, W. and Eaton, J.W. Methylene blue ameliorates doxorubicin toxicity. In: Proceedings of the Fourth International Conference on Superoxide and Superoxide Dismutase (Rome, Italy), 1985
128. Gomez-Marin, O., Prineas, R.F., Etkin, N.L. and Eaton, J.W. Red cell sodium permeability and blood pressure in adults and children. *Hypertension*, 1986
129. Agar, N.S., Sadrzadeh, S.M.H., Hallaway, P.E. and Eaton, J.W. Erythrocyte catalase: A somatic oxidant defense? *Journal of Clinical Investigation* 77:319-321, 1986
130. Eaton, J.W., Mahoney, J.R. and Confer, D.L. When host defense fails. In: Contributions in Mathematics and Natural Sciences, H.W. Jones and C.B. Subrahmanyam (eds.), FAMU Press: Tallahassee, Florida, pp. 2-8, 1986
131. Haines, J.L., Panter, S.S., Rich, S.S., Eaton, J.W., Tsai, M.Y. and Anderson, V.E. Reduced plasma haptoglobin and urinary taurine in familial seizures identified through the multisib strategy. *American Journal of Medical Genetics* 24:723-734, 1986
132. Fairfield, A.S., Eaton, J.W. and Meshnick, S.R. Superoxide dismutase and catalase in the murine malaria, *Plasmodium berghei*: Content and subcellular distribution. *Archives of Biochemistry and Biophysics* 250:526-529, 1986
133. Sadrzadeh, S.M.H., Anderson, D.K., Panter, S.S., Hallaway, P.E. and Eaton, J.W. Hemoglobin potentiates central nervous system damage. *Journal of Clinical Investigation* 79:662-664, 1987
134. Scott, M.D., Meshnick, S.R. and Eaton, J.W. Superoxide dismutase-rich bacteria: Paradoxical increase in oxidant toxicity. *Journal of Biological Chemistry* 262:3640-3645, 1987
135. Lee, J.Y., Prineas, R.J., Hallaway, P.E. and Eaton, J.W. Natural variation in passive sodium permeability in human erythrocytes. *American Journal of Hematology* 26:27-36, 1987

136. Graf, E., Empson, K.L. and Eaton, J.W. Phytic acid: A natural antioxidant. *Journal of Biological Chemistry* 262:11647-11650, 1987
137. Hebbel, R.P., Morgan, W.T., Eaton, J.W. and Hedlund, B.E. Accelerated autoxidation and heme loss due to instability of sickle hemoglobin. *Proceedings of the National Academy of Sciences USA* 85:237-241, 1988
138. Heppner, D.G., Hallaway, P.E., Kontoghiorghes, G.J. and Eaton, J.W. Antimalarial properties of orally active iron chelators. *Blood* 72:358-361, 1988
139. Vennerstrom, J.L. and Eaton, J.W. Oxidants, oxidant drugs and malaria. *Journal of Medicinal Pharmacology* 31:1269-1277, 1988
140. Sadrzadeh, S.M.H. and Eaton, J.W. Hemoglobin-mediated oxidant damage to the central nervous system requires endogenous ascorbate. *Journal of Clinical Investigation* 82:1510-1515, 1988
141. Fairfield, A.S., Abosch, A., Ranz, A., Eaton, J.W. and Meshnick, S.R. Oxidant defense enzymes of *Plasmodium falciparum*. *Molecular and Biochemical Parasitology* 30:77-82, 1988
142. Peterson, D.A., Mehta, N., Butterfield, J., Husak, M., Christopher, M.M., Jagarlapudi, S. and Eaton, J.W. Polyunsaturated fatty acids stimulate superoxide formation in tumor cells: A mechanism for specific cytotoxicity and a model for tumor necrosis factor? *Biochemical and Biophysical Research Communications* 155:1033-1037, 1988
143. Eaton, J.W. Chapter 60. Acatalasemia. In: The Metabolic Basis of Inherited Disease, 6th edition, C. Scriver, A. Beaudet, W. Sly and D.L. Valle (eds.), McGraw-Hill Book Company: New York, pp. 1551-1561, 1989
144. Scott, M.D., Meshnick, S.R. and Eaton, J.W. Superoxide dismutase amplifies organismal sensitivity to ionizing radiation. *Journal of Biological Chemistry* 264:2498-2501, 1989
145. Skubitz, K.M., Vercellotti, G.M., Greenberg, C.S. and Eaton, J.W. Impermeant stilbene disulfonic acids block chemotactic peptide receptor function on human granulocytes. *Inflammation* 13:31-45, 1989
146. Eaton, J.W., Hallaway, P.E. and Agar, N.S. Erythrocyte glutathione: A dispensable oxidant defense? In: Progress in Clinical and Biological Research: The Red Cell; Ann Arbor Conference, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 23-38, 1989
147. Christopher, M.M., Perman, V. and Eaton, J.W. Propylene glycol-induced Heinz body formation and D-lactic acidosis in cats. In: Progress in Clinical and Biological Research: The Red Cell; Ann Arbor Conference, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 69-92, 1989
148. Christopher, M.M., Perman, V. and Eaton, J.W. Contribution of propylene glycol-induced Heinz body formation to anemia in cats. *Journal of the American Veterinary Medical Association* 194:1045-1056, 1989
149. Husak, M., Allen, D.W., White, J.G., Lee, J.Y., Ney, P., Eaton, J.W. and Johnson, G.J. Band 3 abnormality and hemolytic disease associated with myelodysplasia. *British Journal of Haematology*, 1989

150. Hebbel, R.P. and Eaton, J.W. Pathobiology of heme interaction with the erythrocyte membrane. *Seminars in Hematology* 26:136-149, 1989
151. Archer, S.L., Peterson, D., Nelson, D.P., DeMaster, G., Kelly, B., Eaton, J.W. and Weir, E.K. Oxygen radicals and antioxidant enzymes alter pulmonary vascular reactivity in the rat lung. *Journal of Applied Physiology* 66:102-111, 1989
152. Scott, M.D., Eaton, J.W., Kuypers, F.A., Chiu, D.T.-Y. and Lubin, B.H. Enhancement of erythrocyte superoxide dismutase activity: Effects on cellular oxidant defense. *Blood* 74:2542-2549, 1989
153. Mahoney, J.R. Jr., Hallaway, P.E., Hedlund, B.E. and Eaton, J.W. Acute iron poisoning: Rescue with macromolecular chelators. *Journal of Clinical Investigation* 84:1362-1366, 1989
154. Qian, M.W. and Eaton, J.W. Tobacco-borne siderophoric activity. *Archives of Biochemistry and Biophysics* 275:280-288, 1989
155. Peterson, D.A. and Eaton, J.W. Electron transfer facilitated by superoxide dismutase: A model for membrane redox systems? *Biochemical and Biophysical Research Communications* 165:164-167, 1989
156. Hallaway, P.E., Eaton, J.W., Panter, S.S. and Hedlund, B.E. Modulation of deferoxamine toxicity and clearance by covalent attachment to biocompatible polymers. *Proceedings of the National Academy of Sciences USA* 86:10108-10112, 1989
157. Eaton, J.W., Peterson, D.A. and Sadrzadeh, S.M.H. Hemoglobin as a potentiator of central nervous system damage. In: Free Radicals, Lipoproteins, and Membrane Lipids, A. Crastes de Paulet, L. Douste Blazy and R. Paoletti (eds.), Plenum Press: London, pp. 73-79, 1990
158. Graf, E. and Eaton, J.W. Antioxidant functions of phytic acid. *Free Radical Biology and Medicine* 8:61-69, 1990
159. Christopher, M.M., Eckfeldt, J.H. and Eaton, J.W. Propylene glycol ingestion causes D-lactic acidosis. *Laboratory Investigation* 62:114-118, 1990
160. Meshnick, S.R., Scott, M.D., Lubin, B., Ranz, A. and Eaton, J.W. Antimalarial activity of diethyldithiocarbamate: Potentiation by copper. *Biochemical Pharmacology* 40:213-216, 1990
161. Confer, D.L., Zackrisson, G., Lagergard, T. and Eaton, J.W. Rapid diagnosis of pertussis. *Scandinavian Journal of Infectious Diseases* 22:175-177, 1990
162. Balla, G., Vercellotti, G.M., Eaton, J.W. and Jacob, H.S. Iron loading of endothelial cells augments oxidant damage. *Journal of Laboratory and Clinical Medicine* 116:546-554, 1990
163. Christopher, M.M., White, J.G. and Eaton, J.W. Erythrocyte pathology and mechanisms of Heinz body-mediated hemolysis in cats. *Veterinary Pathobiology* 27:299-310, 1990
164. Balla, G., Vercellotti, G.M., Eaton, J.W. and Jacob, H.S. Heme uptake by endothelium synergizes polymorphonuclear granulocyte-mediated damage. *Transactions of the Association of American Physicians* CIII:174-179, 1990

165. Vennerstrom, J.L., Ellis, W.Y., Milhous, W.K. and Eaton, J.W. Antimalarial synergism and antagonism. In: Synergism and Antagonism IN Chemotherapy. Chou, T.-C. and Rideout, D. (eds.), Academic Press, Inc.: San Diego pp. 183-222, 1991
166. Agar, N.S., Mahoney, J.R. and Eaton, J.W. Hemolytic and microbicidal action of diethyl-dithiocarbamic acid. *Biochemical Pharmacology* 41:985-993, 1991
167. Balla, G., Vercellotti, G.M., Muller-Eberhard, U., Eaton, J.W. and Jacob, H.S. Exposure of endothelial cells to free heme potentiates damage mediated by granulocytes and toxic oxygen species. *Laboratory Investigation* 64:648-655, 1991
168. Jiang, Z.Y., Zhou, Q.-L., Eaton, J.W., Koppenol, W.H., Hunt, J.V. and Wolff, S.P. Spirohydantoin inhibitors of aldose reductase inhibit iron- and copper-catalysed ascorbate oxidation *in vitro*. *Biochemical Pharmacology* 42:1273-1278, 1991
169. Chesney, J.A., Mahoney, J.R. Jr. and Eaton, J.W. A spectrophotometric assay for chlorine-containing compounds. *Analytical Biochemistry* 196:262-266, 1991
170. Ma, M. and Eaton, J.W. Oxidative stress genes and proteins: Fire alarms and fire extinguishers. In: Oxidative Damage and Repair: Clinical, Biological and Medical Aspects, Davies, K.J.A. (ed.), Pergamon Press, pp. 1-4, 1991
171. Eaton, J.W. Is the lens canned? *Free Radical Biology and Medicine* 11:207-213, 1991
172. Qian, M. and Eaton, J.W. Iron translocation by free fatty acids. *American Journal of Pathology* 139:1425-1434, 1991
173. Balla, G., Jacob, H.S., Eaton, J.W., Belcher, J.D. and Vercellotti, G.M. Hemin: A possible physiological mediator of low density lipoprotein oxidation and endothelial injury. *Atherosclerosis and Thrombosis* 11:1700-1711, 1991
174. Keogh, J.R., Velander, F.F. and Eaton, J.W. Albumin-binding surfaces for implantable devices. *Journal of Biomedical Materials Research* 26:441-456, 1992
175. Ma, M. and Eaton, J.W. Multicellular oxidant defense in unicellular organisms. *Proceedings of the National Academy of Sciences USA* 89:7924-7928, 1992
176. Balla, G., Jacob, H.S., Balla, J., Rosenberg, M., Nath, K., Apple, F., Eaton, J.W. and Vercellotti, G.M. Ferritin: A cytoprotective antioxidant stratagem of endothelium. *Journal of Biological Chemistry* 267:18148-18153, 1992
177. Sadrzadeh, S.M.H. and Eaton, J.W. Hemoglobin-induced oxidant damage to the central nervous system. In: Free Radical Mechanisms of Tissue Injury, M.T. Moslen and C.V. Smith (eds.), CRC Press, Inc., pp. 23-32, 1992
178. Graf, E. and Eaton, J.W. Suppression of colonic cancer by dietary phytic acid. *Nutrition and Cancer* 19:11-19, 1993
179. Wood, P.A. and Eaton, J.W. Hemoglobin catabolism and host-parasite heme balance in chloroquine-sensitive and chloroquine-resistant *Plasmodium berghei* infections. *American Journal of Tropical Medicine and Hygiene* 48:465-472, 1993

180. Tang, L., Lucas, A.H. and Eaton, J.W. Inflammatory responses to implanted polymeric biomaterials: Role of surface adsorbed immunoglobulin G. *Journal of Laboratory and Clinical Medicine* 122:292-300, 1993
181. Sutherland, K., Mahoney, J.R. II, Coury, A.J. and Eaton, J.W. Degradation of biomaterials by phagocyte-derived oxidants. *Journal of Clinical Investigation* 92:2360-2367, 1993
182. Tang, L. and Eaton, J.W. Fibrin(ogen) mediates acute inflammatory responses to biomaterials. *Journal of Experimental Medicine* 178:2147-2156, 1993
183. Balla, J., Jacob, H.S., Balla, G., Nath, K., Eaton, J.W. and Vercellotti, G.M. Endothelial cell heme uptake from heme proteins: Induction of sensitization and desensitization to oxidant damage. *Proceedings of the National Academy of Sciences USA* 90:9285-9289, 1993
184. Keogh, J.R. and Eaton, J.W. Albumin binding surfaces for biomaterials. *Journal of Laboratory and Clinical Medicine* 121:537-545, 1994
185. Eaton, J.W. Malaria and the selection of the sickle gene. In: Sickle Cell Disease: Scientific Principles and Clinical Practice, S.H. Embury, R.P. Hebbel, N. Mohandas and M.H. Steinberg (eds.), Raven Press: New York, pp. 13-18, 1994
186. Qian, M. and Eaton, J.W. Free fatty acids enhance hypochlorous acid production by activated neutrophils. *Journal of Laboratory and Clinical Medicine* 124:86-95, 1994
187. Eaton, J.W. UV-mediated cataractogenesis: A radical perspective. *Documenta Ophthalmologica* 88:233-242, 1994/1995
188. Vercellotti, G.M., Balla, G., Balla, J., Nath, K., Eaton, J.W. and Jacob, H.S. Heme and the vasculature: An oxidative hazard that induces antioxidant defenses in the endothelium. *Artificial Cells, Blood Substitutes and Immobilization Biotechnology* 22:207-213, 1994
189. Tang, L. and Eaton, J.W. Mechanism of acute inflammatory response to biomaterials. *Cells and Materials* 4:429-436, 1994
190. Eaton, J.W. and Ma, M. Acatlasemia. In: The Metabolic and Molecular Bases of Inherited Disease, 7th edition, C. Scriver, A. Beaudet, W. Sly and D.L. Valle (eds.), McGraw-Hill Book Company: New York, pp. 2371-2383, 1995
191. Paller, M.S. and Eaton, J.W. Hazards of antioxidant combinations containing superoxide dismutase. *Free Radical Biology and Medicine* 18:883-890, 1995
192. Tang, L. and Eaton, J.W. Inflammatory responses to biomaterials. (invited review) *American Journal of Clinical Pathology* 103:466-471, 1995
193. Keogh, J.R. and Eaton, J.W. Albumin binding biomaterials. Proceedings, Biomaterials, Sterilization and Automated Assembly Techniques, 1995
194. Scott, M.D. and Eaton, J.W. Thalassemic erythrocytes: Cellular suicide arising from iron and glutathione-dependent oxidation reactions? *British Journal of Haematology* 91:811-819, 1995

195. Eaton, J.W. and Scott, M.D. Cooperativity in oxidant defense. In: Radicals in the Pulmonary Vasculature, E.K. Weir (ed.), Futura Publishing Co.: New York, pp. 155-166, 1996
196. Keogh, J.R., Wolff, M.F., Overend, M.E., Tang, L. and Eaton, J.W. Biocompatibility of sulfonated polyurethane surfaces. *Biomaterials* 17:1987-1994, 1996
197. Loegering, D.J., Raley, M.J., Reho, T.A. and Eaton, J.W. Macrophage dysfunction following the phagocytosis of IgG-coated erythrocytes: production of lipid peroxidation products. *Journal of Leukocyte Biology* 59:357-362, 1996
198. Scott, M.D. and Eaton, J.W. Superoxide is not the proximate cause of paraquat toxicity. *Redox Report* 2:113-119, 1996
199. Chesney, J.A., Eaton, J.W. and Mahoney, J.R. Jr. Bacterial glutathione: A sacrificial defense against chlorine compounds. *Journal of Bacteriology* 178:2131-2135, 1996
200. Tang, L., Ugarova, T.P., Plow, E.F. and Eaton, J.W. Molecular determinants of acute inflammatory responses to biomaterials. *Journal of Clinical Investigation* 97:1329-1334, 1996
201. Sethi, S., Eastman, A.E. and Eaton, J.W. Inhibition of phagocyte:endothelial interactions by oxidized fatty acids: A natural anti-inflammatory mechanism? *Journal of Laboratory and Clinical Medicine* 128:27-38, 1996
202. Keogh, J.R. and Eaton, J.W. Albumin affinity biomaterial surfaces. *Cells and Materials* 6:1-12, 1996
203. Scott, M.D. and Eaton, J.W. Chapter 19. Markers of free radical-mediated tissue injury: Tales of caution and woe. In: Free Radical Toxicology, K.B. Wallace (ed.), Lippincott-Raven Publishers: Philadelphia, pp. 401-420, 1997
204. Scott, M.D. and Eaton, J.W. Parasite-mediated progeria: A possible mechanism for antimalarial action of G-6-PD deficient erythrocytes. In: G6PD Deficiency: Evidence for Adaptation and Health Consequences, L.W. Green (ed.), Cambridge University Press, 1997
205. Qian, M., Eaton, J.W. and Wolff, S.P. Cyanate-mediated inhibition of neutrophil myeloperoxidase activity. *Biochemical Journal* 325:159-166, 1997
206. Scott, M.D., Murad, K. and Eaton, J.W. The other blood substitute: Antigenically inert erythrocytes. In: Advances in Blood Substitutes: Industrial Opportunities and Medical Challenges, Winslow, R.M., Vandegriff, K.D. and Intaglietta, M., eds. Birkhäuser: Boston, pp. 133-150, 1997
207. Scott, M.D., Murad, K., Koumpouras, F., Talbot, M. and Eaton, J.W. Chemical camouflage of antigenic determinants: Stealth erythrocytes. *Proceedings of the National Academy of Sciences USA* 94:7566-7571, 1997
208. Keogh, J.R. and Eaton, J.W. Albumin binding biomaterials. Proceedings – Society for Plastics Engineers, 1997

209. Edde, L., Zhou, X., Eaton, J.W. and Sherman, M.P. Induction of nitric oxide synthase in macrophages: Inhibition by fructose-1,6-diphosphate. *Biochemical and Biophysical Research Communications* 243:683-687, 1998
210. Tang, L., Jennings, T.A. and Eaton, J.W. Mast cells mediate acute inflammatory responses to implanted biomaterials. *Proceedings of the National Academy of Sciences USA* 95:8841-8846, 1998
211. Su, S.-H., Eaton, J.W., Venezia, R.A. and Tang, L. Interactions of vancomycin resistant enterococci with biomaterial surfaces. *Journal of the American Society for Artificial Internal Organs* 44:770-775, 1998
212. Ivanova, S., Botchkina, G., Al-Abed, Y., Meistrell, M. III, Batliwalla, F., Dubinsky, J.M., Iadecola, C., Wang, H., Gregersen, P.K., Eaton, J.W. and Tracey, K.J. Cerebral ischemia enhances polyamine oxidation: Identification of enzymatically formed 3-aminopropanal as an endogenous mediator of neuronal and glial cell death. *Journal of Experimental Medicine* 188:327-340, 1998
213. Mastrangelo, A.M., Jeitner, T.M. and Eaton, J.W. Oleic acid upregulates CD11b/CD18 expression on human neutrophils. *Journal of Immunology* 161:4268-4275, 1998
214. Qian, M., Liu, M. and Eaton, J.W. Transition metals bind to glycated proteins forming redox active 'glycochelates': Implications for the pathogenesis of certain diabetic complications. *Biochemical and Biophysical Research Communications* 250:385-389, 1998
215. Tang, L. and Eaton, J.W. Molecular determinants of acute inflammatory responses to biomaterials. In: Tissue Engineering of Vascular Grafts, Zilla, P.P. and Greisler, H.P., eds. R. G. Landes: Austin, Texas, 1999/2000
216. Murad, K.L., Mahany, K.L., Brugnara, C., Kuypers, F.A., Eaton, J.W. and Scott, M.D. Structural and functional consequences of antigenic modulation of red blood cells with methoxypoly(ethylene glycol). *Blood* 93:2121-2127, 1999
217. Tang, L. and Eaton, J.W. Natural responses to unnatural materials: A molecular mechanism for foreign body reactions. *Molecular Medicine* (Invited Review) 5:351-358, 1999
218. Garner, B., Roberg, K., Qian, M., Brunk, U.T., Eaton, J.W. and Truscott, R.J.W. Redox-availability of lens iron and copper: Implications for HO[•] generation in cataract. *Redox Report* 4:313-315, 1999
219. Qian, M. and Eaton, J.W. Transition metal chelators: Possible new therapies for diabetic complications. In: Iron Chelators: New Development Strategies, Badman, D.G., Bergeron, R.J. and Brittenham, G.M., eds. Saratoga Publishing Group: Ponte Vedra, Florida, pp. 399-414, 2000
220. Murad, K.L., Gosselin, E.J., Eaton, J.W. and Scott, M.D. Stealth cells: Prevention of major histocompatibility complex class II-mediated T-cell activation by cell surface modification. *Blood* 94:2135-2141, 1999
221. Qian, M. and Eaton, J.W. Glycochelates and the etiology of diabetic peripheral neuropathy. (Hypothesis) *Free Radical Biology and Medicine* 28:652-656, 2000

222. Eaton, J.W. and Dean, R. Diabetes and atherosclerosis. In: Atherosclerosis, R. Dean and D. Kelly (eds.). Oxford University Press: London, pp. 24-45, 2000
223. Borovikova, L.V., Ivanova, S., Zhang, M., Yang, H., Botchkina, G.I., Watkins, L.R., Wang, H., Abumrad, N., Eaton, J.W., and Tracey, K.J. Vagus nerve stimulation attenuates the systemic inflammatory response to endotoxin. *Nature* 405:458-462, 2000
224. Hu, W.J., Eaton, J.W. and Tang, L. Molecular basis of biomaterial-mediated foreign body reactions. *Blood* 98:1231-1238, 2001
225. Goth, L. and Eaton, J.W. Hereditary catalase deficiencies and increased risk of type II diabetes. *The Lancet* 356:1820-1821, 2000
226. Garner, B., Roberg, K., Qian, M., Eaton, J.W. and Truscott, R.J.W. Distribution of ferritin and redox-active transition metals in normal and cataractous human lenses. *Experimental Eye Research* 71:599-607, 2000
227. Zhao, M., Eaton, J.W. and Brunk, U.T. Protection against oxidant-mediated lysosomal rupture: a new anti-apoptotic activity of Bcl-2? *FEBS Letters* 485:104-108, 2000
228. Brunk, U.T., Neuzil, J. and Eaton, J.W. Lysosomal involvement in apoptosis. *Redox Report* 6:91-97, 2001
229. Li, W., Dalen, H., Eaton, J.W., and Yuan, X.M. Apoptotic death of inflammatory cells in human atheroma. *Atherosclerosis, Thrombosis and Vascular Biology* 21:1124-1130, 2001
230. Telang, S., Vimr, E., Mahoney, J.R., Law, I., Lundqvist-Gustafsson, H., Qian, M. and Eaton, J.W. Strain-specific iron-dependent virulence in *Escherichia coli*. *Journal of Infectious Disease* 184:159-165, 2001
231. Zhao, M., Eaton, J.W. and Brunk, U.T. Bcl-2 phosphorylation is required for inhibition of oxidative stress-induced lysosomal leak and ensuing apoptosis. *FEBS Letters* 509:405-412, 2001
232. Zhao, M., Brunk, U.T. and Eaton, J.W. Delayed oxidant-induced cell death involves activation of phospholipase A2. *FEBS Letters* 509:399-404, 2001
233. Yang, H., Wang, H., Bernik, T.R., Ivanova, S., Wang, H., Ulloa, L., Roth, J., Eaton, J.W. and Tracey, K.J. Globin attenuates the innate immune response to endotoxin. *Shock* 17:485-490, 2002
234. Eaton, J.W. and Qian, M. Interactions of copper with glycated proteins: Possible involvement in the etiology of diabetic neuropathy. *Molecular and Cellular Biochemistry* 234/235:135-142, 2002
235. Ivanova, S., Batliwalla, F., Mocco, J., Kiss, S., Huang, J., Mack, W., Coon, A., Eaton, J. W., Al-Abed, Y., Gregersen, P.K., Shohami, E., Connolly, E.S. Jr., and Tracey, K.T. Neuroprotection in cerebral ischemia by neutralization of 3-aminopropanal. *Proceedings of the National Academy of Sciences USA* 99:5579-5584, 2002
236. Eaton, J.W. and Ma, M.J. Catalases. In: Wiley Encyclopedia of Molecular Medicine, pp. 487-492, 2002

237. Neuzil, J., Zhao, M., Ostermann, G., Sticha, M., Gellert, N., Weber, C., Eaton, J.W. and Brunk, U.T. Tocopheryl succinate, an agent with *in vivo* anti-tumor activity, induces apoptosis by causing lysosomal instability. *Biochemical Journal* 362:709-715, 2002
238. Eaton, J.W. and Qian, M. Molecular bases of cellular iron toxicity. *Free Radical Biology and Medicine* 32:833-840, 2002
239. Zhao, M., Liu, Y., Bao, M., Kato, Y., Han, J. and Eaton, J.W. Vascular smooth muscle cell proliferation requires both p38 and BMK1 MAP kinases. *Archives of Biochemistry and Biophysics* 400:199-207, 2002
240. Jeney, V., Balla, J., Yachie, A., Varga, Z., Vercellotti, G.M., Eaton, J.W. and Balla, G. Pro-oxidant and cytotoxic effects of circulating heme. *Blood* 100:879-887, 2002
241. Li, W., Yuan, X-M, Ivanova, S., Tracey, K.J., Eaton, J.W. and Brunk, U.T. 3-Aminopropanal, formed during cerebral ischemia, is a potent lysosomotropic neurotoxin. *Biochemical Journal* 371:429-436, 2003
242. Persson, H.L., Yu, Z.Q., Tirosh, O., Eaton, J.W. and Brunk, U.T. Prevention of oxidant-induced cell death by lysosomotropic iron chelators. *Free Radical Biology and Medicine* 34:1295-1305, 2003
243. Yu, Z.Q., Persson, H.L., Brunk, U.T. and Eaton, J.W. The radioprotective agent, amifostine, suppresses the reactivity of intralysosomal iron. *Redox Report* 8:347-355, 2003
244. Terman, A., Dalen, H., Eaton, J.W., Neuzil, J., and Brunk, U.T. Mitochondrial recycling and aging of cardiac myocytes: The role of autophagocytosis. *Experimental Gerontology* 38:863-876, 2003
245. Yu, Z., Persson, H.L., Eaton, J.W. and Brunk, U.T. Intralysosomal iron: A major determinant of oxidant-induced cell death. *Free Radical Biology and Medicine* 34:1243-1252, 2003
246. Balla, J., Vercellotti, G.M., Nath, K., Yachie, A., Nagy, E., Eaton, J.W. and Balla, G. Haem, haem oxygenase and ferritin in vascular endothelial cell injury. *Nephrology, Dialysis and Transplantation* 18(Suppl. 5): v8-v12, 2003
247. Zhao, M., Antunes, F., Eaton, J.W. and Brunk, U.T. Lysosomal enzymes promote mitochondrial oxidant production, cytochrome c release and apoptosis. *European Journal of Biochemistry* 270:3778-3786, 2003
248. Terman, A., Dalen, H., Eaton, J.W., Neuzil, J. and Brunk, U.T. Aging of cardiac myocytes in culture: Oxidative stress, lipofuscin accumulation and mitochondrial turnover. *Annals of the New York Academy of Sciences* 1019:70-77, 2004
249. Busuttil, S.J., Ploplis, V.A., Castellino, F.J., Tang, L., Eaton, J.W. and Plow, E.F., A central role for plasminogen in the inflammatory response to biomaterials. *Journal of Thrombosis and Haemostasis* 2:1798-1805, 2004
250. Li, J., Gao, X., Qian, M. and Eaton, J.W. Mitochondrial metabolism underlies hyperoxic cell damage. *Free Radical Biology and Medicine* 36:1460-1470, 2004

251. Campian, J.L., Qian, M., Gao, X. and Eaton, J.W. Oxygen tolerance and coupling of mitochondrial electron transport. *Journal of Biological Chemistry* 279:46580-46587, 2004
252. Balla, J., Vercellotti, G.M., Jeney, V., Yachie, A., Varga, Z.E., Eaton, J.W. and Balla, G. Heme, heme oxygenase and ferritin in vascular endothelial cell injury (review). *Molecular and Nutritional Food Research* 49:1030-1043, 2005
253. Nagy, E., Jeney, V., Yachie, A., Szabo, R.P., Wagner, O., Vercellotti, G.M., Eaton, J.W., Balla, G. and Balla, J. Oxidation of hemoglobin by lipid hydroperoxide associated with low-density lipoprotein (LDL) and increased cytotoxic effect by LDL oxidation in heme oxygenase-1 (HO-1) deficiency. *Cellular and Molecular Biology* 51:377-385, 2005
254. Persson, H.L., Kurz, T., Eaton, J.W. and Brunk, U.T. Radiation-induced cell death: Importance of lysosomal destabilization. *Biochemical Journal* 389:877-884, 2005
255. Gao, X., Qian, M., Campian, J.L., Clark, D.R., Burke, T.J., Eaton, J.W. and McGregor, W.G. Cytotoxic and mutagenic effects of tobacco-borne free fatty acids. *Free Radical Biology and Medicine* 40:165-172, 2006
256. Ujhelyi, L., Balla, G., Jeney, V., Varga, Z., Nagy, E., Vercellotti, G.M., Agarwal, A., Eaton, J.W. and Balla, J. Hemodialysis reduces inhibitory effect of plasma ultrafiltrate on LDL oxidation and subsequent endothelial reactions. *Kidney International* 69:144-151, 2006
257. Telang, S., Yalcin, A., Clem, A.L., Bucala, R., Lane, A.N., Eaton, J.W. and Chesney, J. Ras transformation requires metabolic control by 6-phosphofructo-2-kinase. *Oncogene* 23:7225-7734, 2006
258. Li, W., Östblom, M., Xu, L-H., Hellsten, A., Leanderson, P., Liedberg, B., Brunk, U.T., Eaton, J.W. and Yuan, X-M. Cytocidal effects of atheromatous plaque components: the death zone revisited. *FASEB Journal* 20:2281-2290, 2006
259. Telang, S., Clem, A.L., Eaton, J.W. and Chesney, J. Depletion of ascorbic acid restricts angiogenesis and retards tumor growth in a mouse model. *Neoplasia* 9:47-56, 2007
260. Campian, J.L., Gao, X., Qian, M. and Eaton, J.W. Cytochrome c oxidase activity and oxygen tolerance. *Journal of Biological Chemistry* 282:12430-12438, 2007
261. Jiang, Y., Reynolds, C., Xiao, C., Feng, W., Zhou, Z., Rodriguez, W., Tyagi, S.C., Eaton, J. W., Saari, J.T. and Kang, Y.J. Dietary copper supplementation reverses hypertrophic cardiomyopathy induced by chronic pressure overload in mice. *Journal of Experimental Medicine* 204:657-666, 2007
262. Clem, A.L., Sims, J., Telang, S., Eaton, J.W. and Chesney, J. Virus detection and identification using random multiplex (RT)-PCR with 3 prime locked random primers. *Virology Journal* Jun 28;4:65, 2007
263. Ponka, P., Tenenbein, M. and Eaton, J.W. Iron. In: Handbook on the Toxicology of Metals, G. Nordberg, B. Fowler, M. Nordberg and L. Friberg (eds)., Academic Press, pp. 577-598, 2007
264. Zdolsek, J., Eaton, J.W. and Tang, L. Histamine release and fibrinogen adsorption mediate acute inflammatory responses to biomaterial implants in humans. *Journal of Translational Medicine* Jul 1;5:31, 2007

265. Balla, J., Vercellotti, G.M., Jeney, V., Yachie, A., Varga, Zsuzsa, V., Jacob, H.S., Eaton, J.W. and Balla, G. Heme, heme oxygenase and ferritin: How the vascular endothelium survives (and dies) in an iron-rich environment. *Antioxidants & Redox Signaling* 9:2119-2137, 2007
266. Kakar, S.S., Jin, H., Hong, B., Eaton, J.W. and Kang, K.A. LHRH receptor targeted therapy for breast cancer. *Advances in Experimental Biology and Medicine* 614:285-296, 2008
267. Mehta, J.P., Campian, J., Guardiola, J., Cabrera, J.A., Weir, K.E. and Eaton, J.W. Generation of oxidants by hypoxic human pulmonary and coronary smooth muscle cells. *Chest* 133:1410-1414, 2008
268. Thornburg, J.M., Nelson, K.T., Clem, B.F., Lane, A.N., Arumugam, S., Simmons, A., Eaton, J.W., Telang, S. and Chesney, J. Targeting aspartate aminotransferase in breast cancer. *Breast Cancer Research* 10:R84, 2008
269. Gao, X., Campian, J.L., Sun, X.F. and Eaton, J.W. Mitochondrial DNA damage in iron overload. *Journal of Biological Chemistry* 284:4767-4775, 2008
270. Jeney, V., Komodi, E., Nagy, E., Zarjou, A., Vercellotti, G.M., Eaton, J.W., Balla, G., and Balla, J. Suppression of hemin-mediated oxidation of LDL and subsequent endothelial reactions by H₂S. *Free Radical Biology and Medicine* 46:616-623, 2009
271. Brewer, B.G., Mitchell, R.A., Harandi, A. and Eaton, J.W. Embryonic vaccines against cancer: An early history. *Experimental and Molecular Pathology* 86:192-197, 2009
272. Lee, J.Y., Prineas, R.J. and Eaton, J.W. Heritability of erythrocyte sodium permeability: A possible genetic marker for hypertension. *Annals of Clinical and Laboratory Science* 39:329-336, 2009
273. Yalcin, A., Clem, B., Makoni, S., Clem, A., Nelson, K., Thornburg, J., Siow, D., Lane, A.N., Brock, S.E., Goswami, U., Eaton, J.W., Telang, S. and Chesney, J. Selective inhibition of choline kinase simultaneously attenuates MAPK and PI3K/AKT signaling. *Oncogene* 29:139-149, 2010
274. Hebbel, R.P., Vercellotti, G.M., Pace, B.S., Slovey, A.N., Kollander, R., Abanonu, C.F., Nguyen, J., Vineyard, J.V., Belcher, J.D., Abdulla, F., Osifuye, S., Eaton, J.W., Kelm, R.J. Jr. and Slungaard, A. The HDAC inhibitors trichostatin A and suberoylanilide hydroxamic acid exhibit multiple modalities of benefit for the vascular pathobiology of sickle transgenic mice. *Blood* 115:2483-90, 2010
275. Kurz, T., Eaton, J.W. and Brunk, U.T. Redox activity within the lysosomal compartment: Implications for aging and apoptosis. *Antioxidants and Redox Signaling* 13:511-23, 2010
276. Sharma, P.K., Singh, R., Novakovic, K.R., Eaton, J.W., Grizzle, W.E. and Singh, S. CCR9 mediates PI3K/AKT-dependent antiapoptotic signals in prostate cancer cells and inhibition of CCR9-CCL25 interaction enhances the cytotoxic effects of etoposide. *International Journal of Cancer* 127:2020-30, 2010
277. Barve, S., Kapoor, R., Moghe, A., Ramirez, J.A., Eaton, J.W., Gobejishvili, L., Joshi-Barve, S., McClain, C.J. Focus on the liver: Alcohol use, highly active antiretroviral

- therapy, and liver disease in HIV-infected patients. *Alcohol Research and Health* 33(3):229-36, 2010. PubMed PMID: 23584064; PubMed Central PMCID: PMC3860514
278. Nagy, E., Eaton, J.W., Jeney, V., Soares, M.P., Varga, Z., Galajda, Z., Szentmiklosi, J., Mehes, G., Csonka, T., Smith, A., Vercellotti, G.M., Balla, G. and Balla, J. Red cells, hemoglobin, heme, iron, and atherogenesis. *Atherosclerosis, Thrombosis and Vascular Biology* 30:1347-1353, 2010
 279. Gao, X., Qian, M., Campian, J.L., Marshall, J., Zhou, Z., Roberts, A.M., Yang, Y.J., Prabhu, S.D., Sun, X.F. and Eaton, J.W. Mitochondrial dysfunction may explain the cardiomyopathy of chronic iron overload. *Free Radical Biology and Medicine* 49:401-7, 2010
 280. Sohaebuddin, S.K., Thevenot, P.T., Baker, D., Eaton, J.W. and Tang, L. Nanomaterial cytotoxicity is composition, size and cell type dependent. *Particle and Fibre Toxicology* 7:22, 2010
 281. Kurz, T., Eaton, J.W. and Brunk, U.T. The role of lysosomes in iron metabolism and recycling. *International Journal of Biochemistry and Cell Biology* 42:1686-97, 2011
 282. Yaddanapudi, K. and Eaton, J.W. Multi-peptide immunotherapeutic vaccine for renal cell carcinoma: getting the troops all worked up. *Translational Andrology and Urology* Dec;1(4):229-233, 2012. PMID: 25221745; PMCID: PMC4160063.
 283. Yaddanapudi, K., Mitchell, R.A., Putty, K., Willer, S., Sharma, R.K., Yan, J., Haribabu, B. and Eaton, J.W. Vaccination with embryonic stem cells protects against lung cancer: Is a broad-spectrum prophylactic vaccine against cancer possible? *PLoS One* 7:e42289, 2012. doi: 10.1371/journal.pone.0042289; PMC3409174
 284. Lanceta, L., Li, C., Choi, A.M. and Eaton, J.W. Heme oxygenase-1 overexpression alters intracellular iron homeostasis. *Biochemical Journal* Jan 1;339(1):189-94, 2013. doi: 10.1042/BJ20120936; PMID 22989377
 285. Telang, S., Nelson, K.K., Siow, D.L., Yalcin, A., Thornburg, J.M., Imbert-Fernandez, Y., Klarer, A.C., Farghaly, H., Clem, B.F., Eaton, J.W. and Chesney, J. Cytochrome c oxidase is activated by the oncoprotein Ras and is required for A549 lung adenocarcinoma growth. *Molecular Cancer* 11:60, 2012. doi: 10.1186/1476-4598-11-60
 286. Zhu, Y., Eaton, J.W. and Li, C. Titanium dioxide (TiO₂) nanoparticles preferentially induce cell death in transformed cells in a Bak/Bax-independent fashion. *PLoS One* 7(11):e50607, 2012. doi: 10.1371/journal.pone.0050607; PMC3503962
 287. Yaddanapudi, K., Putty, K., Rendon, B.E., Lamont, G.J., Faughn, J.D., Satoskar, A., Lasnik, A., Eaton, J.W. and Mitchell, R.A. Control of tumor-associated macrophage alternative activation by macrophage migration inhibitory factor. *Journal of Immunology* 190:2984-2993, 2013. doi: 10.4049/jimmunol.1201650; PMID: 23390297
 288. Jeney, V., Eaton, J.W., Balla, G. and Balla, J. Natural history of the bruise: formation, elimination, and biological effects of oxidized hemoglobin. *Oxidative Medicine and Cell Longevity* 2013:703571, 2013. doi: 10.1155/2013/703571. Review. PMID 23766858; PMC3671564

289. Yaddanapudi, K., Mitchell, R.A. and Eaton, J.W. Cancer vaccines: Looking to the future. *Oncoimmunology* Mar 1;2(3):e23403, 2013. PMID 23802081; PMC3661166
290. Yan, J., Kloecker, G., Fleming, C., Bousamra, M. 2nd, Hansen, R., Hu, X., Ding, C., Cai, Y., Xiang, D., Donninger, H., Eaton, J.W. and Clark, G.J. Human polymorphonuclear neutrophils specifically recognize and kill cancerous cells. *Oncoimmunology* Jul 3;3(7):e950163, 2014. eCollection 2014. PMID 25610737; PMC4292216.

- Miscellaneous Publications -

1. Eaton, J.W. Ethnic Group, Ethnocentrism, and Ethenics (three short articles). *Encyclopedia Americana*, 1972
2. Eaton, J.W. Eugenics. *Encyclopedia Americana*, 1972
3. Eaton, J.W. Review of natural selection in human populations. *American Journal of Physical Anthropology* 38:42, 1972
4. Eaton, J.W. Low altitude hominids at high altitude. *Blood Cells* 7:509-511, 1981
5. Eaton, J.W. The red cell: A primer. In: *Progress in Clinical and Biological Research 56: Erythrocyte Membranes 2*, W. Kruckeberg, J.W. Eaton and G.J. Brewer (eds.), Alan R. Liss: New York, pp. 1-4, 1981
6. Eaton, J.W. and Meshnick, S.R. The unchanging plight of *Homo scientificus*. *Trends in Genetics* 3:147, 1987
7. Meshnick, S.R. and Eaton, J.W. How to give a scientific talk. In: *Progress in Clinical and Biological Research: The Red Cell*; Ann Arbor Conference, G.J. Brewer (ed.), Alan R. Liss: New York, pp. 663-664, 1989
8. Eaton, J.W. (book review) Oxygen radicals: Systemic events and disease processes. *Cancer Cells* 2:409-410, 1990
9. Eaton, J.W. (editorial) Catalases and peroxidases and glutathione and hydrogen peroxide: Mysteries of the bestiary. *Journal of Laboratory and Clinical Medicine* 118:3-4, 1991
10. Jenson, B., Eaton, J.W. and Miller, D.M. Cancer research at the James Graham Brown Cancer Center, University of Louisville. *Experimental and Molecular Pathology* 86:139-140, 2009
10. Eaton, J.W. The lens is canned?! [Letter to the Editor] *Free Radical Biology and Medicine* 11:523, 1991
11. Eaton, J.W. (invited editorial) Defenses against hypochlorous acid: Parrying the neutrophil's rapier thrust. *Journal of Laboratory and Clinical Medicine* 121:197-198, 1993
12. Eaton, J.W. (editorial) Location, location, location: Real-estate and inflammation. *Journal of Laboratory and Clinical Medicine* 125:10-11, 1995
13. Eaton, J.W. (editorial) Low density lipoprotein oxidation and atherogenesis: We got the bandwagon, we got the band, but where's the music? *Redox Report* 2:81-82, 1996
14. Eaton, J.W. (editorial) Hemoglobin-based blood substitutes: A dreamlike trade of blood and guile? *Journal of Laboratory and Clinical Medicine* 127:416-417, 1996
15. Eaton, J.W. (editorial) Iron: The essential poison. *Redox Report* 2:215, 1996
16. Tang, L. and Eaton, J.W. (invited essay) Molecular determinants of acute inflammatory responses to biomaterials. In: *International Society for Applied Cardiovascular Biology Newsletter*, Fall pp. 11-12, 1997
17. Eaton, J.W. and Hunt, N.H. (editorial) Redox redux. *Redox Report* 4:1, 1999

18. Eaton, J.W. (editorial) Hydrogen peroxide: friend of the faux blonde, foe of the cell. *Redox Report* 4(4):1, 1999
19. Eaton, J.W. (editorial) Thumbs up and thumbs down in the arena of science. *Redox Report* 5(4):164, 2000
20. Eaton, J.W. and Hunt, N.H. (editorial) NRK-dependent phosphorylation of NAB-3: Involvement in ACRK-13-mediated PUFFL activation or NEE-JRK activation of ACRO. *Redox Report* 6(3):131, 2001
21. Eaton, J.W. Bugs, guts and iron (editorial). *Shock* 18:483-484, 2002
22. Eaton, J.W. Our lilliputian scientific lexicon (editorial). *Redox Report* 7(2):63-64, 2002
23. Brunk, U.T. and Eaton, J.W. Peroxide Hormesis? A commentary on "Hydrogen peroxide inhibits caspase-dependent apoptosis by inactivating procaspase-9 in an iron-dependent manner." *Free Radical Biology and Medicine* 43:1372-1373, 2007
24. Jenson, B., Eaton, J.W. and Miller, D.M. Cancer research at the James Graham Brown Cancer Center, University of Louisville. *Annals of Clinical and Laboratory Science* 86:139-140, 2009
25. Barve, S., Kapoor, R., Moghe, A., Ramirez, J.A., Eaton, J.W., Gobejishvili, L., Joshi-Barve, S. and McClain, C.J. Focus on the liver: Alcohol use, highly active antiretroviral therapy, and liver disease in HIV-infected patients. *Alcohol Research & Health* 33:229-236, 2011
26. Yaddanapudi, K. and Eaton, J.W. Multi-peptide immunotherapeutic vaccine for renal cell carcinoma: getting the troops all worked up. *Translational Andrology and Urology* Dec 1;(4):229-233, 2012. doi: 10:3978/j.issn.2223-4683

- Books -

1. Kruckeberg, W., Eaton, J.W. and Brewer, G.J. (editors), Erythrocyte Membranes and Divalent Cations: Recent Clinical and Experimental Advances, Vol. 20. Alan R. Liss, Inc.: New York, 1978
2. Kruckeberg, W., Eaton, J.W. and Brewer, G.J. (editors) Erythrocyte Membranes 2: Recent Clinical and Experimental Advances, Vol. 56. Alan R. Liss, Inc.: New York, 1981
3. Sheppard, J.R., Anderson, V.E. and Eaton, J.W. (editors) Membranes and Genetic Disease: Progress in Clinical and Biological Research, Vol. 97. Alan R. Liss, Inc.: New York, 1982
4. Eaton, J.W. and Brewer, G.J. (editors) Malaria and the Red Cell: Recent Clinical and Experimental Advances, Vol. 155. Alan R. Liss, Inc.: New York, 1984
5. Brewer, G.J., Kruckeberg, W., Eaton, J.W. and Aster, J. (editors) Red Cell Membrane Workshop: Progress in Clinical and Biological Research, Vol. 165. Alan R. Liss, Inc.: New York, 1984
6. Eaton, J.W., Konzen, D.K. and White, J.G. (editors) Cellular and Molecular Aspects of Aging: The Red Cell as a Model - Progress in Clinical and Biological Research, Vol. 195. Alan R. Liss, Inc.: New York, 1985

7. Eaton, J.W., Meshnick, S.R. and Brewer, G.J. (editors) Malaria and the Red Cell – 2: Progress in Clinical and Biological Research, Vol. 313. Alan R. Liss, Inc.: New York, 1989