

## CURRICULUM VITAE

### **Michael H. Creer, MD**

**Date of Birth:** November 4, 1953  
**Place of Birth:** Spanish Fork, Utah  
**Marital Status:** Married. Wife - Tracy P. Creer,  
Attorney-at-Law  
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## EDUCATION

**Undergraduate Study:** Brigham Young University, Provo, Utah  
(1972-1974) and University of Utah,  
Salt Lake City, Utah (1974-1976)  
**Degree: Bachelor of Science, Chemistry**  
**Graduate Study:** University of Utah College of Medicine,  
Salt Lake City, Utah (1976-1980)  
**Degree: Doctor of Medicine**  
**NIH Post-Doctoral Fellowship:** Washington University School of Medicine,  
(Dept. of Medicine, Cardiology Division)  
St. Louis, MO (1983-1985)

## ACADEMIC HONORS

**1972** National Merit Scholar and Sterling Scholar, Science and Mathematics  
Letter of Commendation for Highest National Score on American Chemical  
Society Chemistry Aptitude Test  
**1972-1974** Presidential Honors Scholarship, Brigham Young University  
**1975-1976** University Merit Scholarship as the Outstanding Undergraduate in Chemistry,  
University of Utah  
Graduated Summa Cum Laude, B.S. Chemistry, University of Utah  
**1980** Dean's Award in Biochemistry, University of Utah College of Medicine  
**1989** Academy of Clinical Laboratory Physicians and Scientists Young Investigator  
Award

- 1992-1996** Recipient, Veteran's Administration Research Career Development Award, (Research Associate level) (final rank of application: 2<sup>nd</sup>)
- 2000-2001** Recipient, Faculty of the Year Award (Saint Louis University/Pathology)

## **RESEARCH AND EMPLOYMENT EXPERIENCE**

- Current Positions** Professor, Department of Pathology and Laboratory Medicine and Professor, Department of Pediatrics (Hematology/Oncology)  
 Director, Division of Laboratory Medicine, St. Louis University School of Medicine (Dr. Richard Hoover, Chairman), St. Louis, MO  
 Director, St. Louis Umbilical Cord Blood Bank, Cardinal Glennon Children's Hospital, St. Louis, MO  
 Director, Biochemical Genetics Laboratory, SSM Cardinal Glennon Children's Hospital, St. Louis, MO  
 Associate Director, St. Louis University Coagulation Consultants, St. Louis, MO  
 Medical Advisor, Allied Health Program, St. Louis University, St. Louis, MO
- 1997-2001** Director, Transfusion Medicine, St. Louis University Hospital, St. Louis, MO  
 Director, Core Laboratory (Hematology, Clinical Chemistry, Immunoassay), St. Louis University Hospital, St. Louis, MO
- 1999** Director of Pathology, Compton Heights Hospital, St. Louis, MO
- 1997-1999** Associate Professor, Department of Pathology and Laboratory Medicine, and Director, Division of Laboratory Medicine, St. Louis University School of Medicine, St. Louis, MO
- 1995-1997** Associate Professor, Department of Pathology, University of Arkansas for Medical Sciences (Dr. Aubrey Hough, Chairman), Little Rock, AR.
- 1991-1997** Staff Pathologist and Director, Clinical Chemistry, Immunoassay and Toxicology Divisions, Laboratory Service, JL McClellan VA Hospital, Little Rock, AR.  
 Associate Director, Transfusion Medicine and Therapeutic Apheresis, JL McClellan VA Hospital, Little Rock, AR
- 1991-1995** Assistant Professor, Department of Pathology, University of Arkansas for Medical Sciences, Little Rock, AR.
- 1988-1990** Instructor in Cardiology and Laboratory Medicine, Departments of Medicine and Pathology, Washington University and Barnes Hospital, St. Louis, MO.
- 1986-1987** Chief Fellow, Department of Laboratory Medicine, Washington University and Barnes Hospital, St. Louis, MO
- 1983-1985** NIH Postdoctoral Fellow, Department of Cardiology (Dr. Burton E. Sobel, Chairman), Washington University and Barnes Hospital, St. Louis, MO
- 1981-1985** Resident in Laboratory Medicine (Dr. J.M. McDonald, Chairman), Washington University and Barnes Hospital, St. Louis, MO
- 1980-1981** Post-Graduate Research at the Nora Eccles Harrison Cardiovascular Research and Training Institute (Dr. J.A. Abildskov, Director) and Department of Medical Biophysics and Computing (Dr. H.R. Warner, Director), University of Utah College of Medicine, Salt Lake City, Utah.
- 1974-1977** Research Associate, Division of Mass Spectrometry (Dr. J. Futrell, Director) and Teaching Assistant, General and Analytical Chemistry, Department of Chemistry, University of Utah, Salt Lake City, Utah.

## **ADMINISTRATIVE ACTIVITIES/SCIENTIFIC COMMITTEES**

Member of the Following Committees for the National Marrow Donor Program (NMDP):

Cord Blood Principal Investigators (PI) Committee  
Transplant Center and Collection Center Membership and Performance Improvement Committee  
Member, Advisory Board of the International Cord Blood Society  
Member, Medical Advisory Board, Gateway Community Blood Services  
Member, Medical Advisory Board, American Red Cross  
St. Louis University Hospital Permanent Committee Memberships:  
Medical Executive Committee, Clinical Quality Management, Ambulatory Care, Laboratory Utilization/Transfusion Practices, Diagnostic Test Performance Improvement  
International Society of Hemostasis and Thrombosis (ISTH) Scientific Subcommittee on Lupus Anticoagulants

## **PRIMARY RESEARCH INTERESTS**

Our laboratory is currently funded to investigate the biochemical mechanisms of apoptosis and ischemic cell injury, phospholipid metabolism and signal-activated phospholipase(s) A2 in endothelial cells and cardiac myocytes. Phospholipase-catalyzed hydrolysis of membrane phospholipids provides a means of modulating membrane transport functions, of regulating membrane-associated signal transduction events and of generating second messenger molecules which function to propagate chemical signals from the surface membrane to other intracellular compartments. My research is focused on the study of a novel class of membrane-associated calcium-independent phospholipase(s) A2 (referred to as membrane-associated iPLA2) that exhibit a distinct preference for ether-linked (ie alkylacyl and plasmalogen) phospholipid substrates containing esterified arachidonic acid. We have found that membrane-associated iPLA2 is rapidly activated during ischemia and in response to thrombin receptor ligation and generates lysophospholipid and unsaturated fatty acid products which directly modulate the function of a large repertoire of integral membrane proteins and serve as precursors for synthesis of diverse second messenger molecules including prostaglandins, thromboxanes, leukotrienes, hydroxy- and hydroperoxyeicosatetraenoic acids (HETE and HPETE) and platelet activating factor (PAF). These features of iPLA2 and its products provide a potentially important link between the processes of clot formation, apoptosis and the functional abnormalities that characterize ischemic cell injury. Our laboratory is currently engaged in studies to examine the unique catalytic features of iPLA2, to identify the endogenous phospholipid substrates which are targeted for hydrolysis by iPLA2 and to define the role of iPLA2-generated products as apoptotic mediators and effectors of cell responses to ischemia and thrombin stimulation. Future studies will examine the potential role of iPLA2 in atherogenesis and as molecular probes (ie specific antibodies and cDNA) for iPLA2 become available, we hope to use these probes to identify the specific molecular events linking ischemia and thrombin-receptor stimulation to iPLA2 activation.

At the St. Louis Cord Blood Bank and at St. Louis University Coagulation Consultants, we are also actively involved in basic and applied clinical research in the areas of stem cell biology, general hematology and hemostasis/thrombosis. We are currently engaged in several collaborative projects to study the processes of hematopoietic stem cell (HPSC) differentiation and engraftment kinetics in xenotransplant models, stem cell trafficking, atherogenesis, platelet-endothelial cell interactions and to develop and implement new laboratory approaches to the

diagnosis of bleeding and thrombotic disorders. One of the primary goals of our research at the St. Louis Cord Blood Bank is to investigate the potential of hematopoietic stem cells in the treatment of chronic vascular diseases related to abnormal lipid metabolism such as atherosclerosis, to investigate the role of endothelial cells as stromal elements capable of supporting the hematopoietic stem cell compartment and the role of phospholipases and phospholipid-derived second messenger molecules in the unique biology of stem cells.

## **MEDICAL LICENSURE AND BOARD CERTIFICATION**

American Board of Pathology (Clinical Pathology)  
National Board of Medical Examiners (Parts I, II and III)  
Missouri State Board of Healing Arts (1986) **MDR2G36**  
Arkansas State Medical Board (1990) **N-8036**

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

Fellow, American Society of Clinical Pathologists (**FASCP**)  
Fellow, College of American Pathologists (**FCAP**)  
American Association of Blood Banks  
American Association for Clinical Chemistry  
Academy of Clinical Laboratory Physicians and Scientists  
American Chemical Society  
New York Academy of Sciences  
American Association for the Advancement of Science  
American Heart Association  
American Federation for Clinical Research

## **EDITORIAL ACTIVITIES/GRANT REVIEW COMMITTEES**

Grant Review Committees: American Heart Association (2001-2005) Section 1A -  
Cardiovascular Pathophysiology (National and Local Affiliates).

I am also a member of the Wesley Foundation Grant Review Committee and served as an *ad hoc* reviewer on several occasions for the National Institutes of Health and the Veteran's Affairs Merit Review Grant Program in the areas of ischemic cardiovascular disease, phospholipid biochemistry, signal transduction and phospholipases.

Editorial Activities: I have reviewed numerous original manuscripts, reviews and case reports submitted to the following journals:

Circulation Research  
Biochemistry  
American Journal of Physiology  
Analytical Biochemistry  
Journal of Molecular and Cellular Cardiology  
Journal of Lipid Research  
Molecular and Cellular Biochemistry  
Journal of Pharmacological Sciences  
Kidney International  
Clinical Chemistry  
American Journal of Clinical Pathology

## **EDUCATIONAL AND ADMINISTRATIVE ACTIVITIES**

1. Director of Laboratory Medicine Service at St. Louis University (**1997-present**).
2. Director of St. Louis Umbilical Cord Blood Bank (**2001-present**). The St. Louis Umbilical Cord Blood Bank is responsible for the collection, processing, characterization and cryopreservation of approximately 1500 cord blood products/year and currently exports 160 products/year. We coordinate all transplant product selection activities and participate in the NMDP Umbilical Cord Blood transplant program. The activities of our bank are regulated by the FDA as an Investigational New Drug application and my role is to function as the program sponsor and principal investigator.
3. Clinical Pathology/Laboratory Medicine Residency Training Program Coordinator at St. Louis University (**1997-present**).
4. Lecturer, Department of Internal Medicine, St. Louis University School of Medicine (daily teaching conference for internal medicine residents and fellows) (**1999-present**). Topics covered: diagnosis and management of hemoglobinopathies, bleeding and thrombotic disorders, transfusion medicine and introduction to stem cell transplantation.
5. Medical Advisor, Clinical Laboratory Sciences Program, School of Allied Health, St. Louis University (**1999-present**).
6. St. Louis University School of Medicine Sophomore Pathology Course (medical student course) and Pathobiology Course Lecturer (basic science program at the graduate school) (**1997-present**).
7. Past President, Arkansas Gas Chromatography/Mass Spectrometry User's Group Association (**1992-1997**).
8. University of Arkansas for Medical Sciences Sophomore Pathophysiology Faculty Course Lecturer and Curriculum Committee Member (**1991-1997**).
9. Clinical Pathology Resident Training at the University of Arkansas for Medical Sciences (**1991-1997**).
10. Lecturer, Molecular and Biochemical Pathobiology in the graduate school at the University of Arkansas for Medical Sciences (**1994-1997**).
11. Member, Medical Student Promotions Committee (**1992-1995**)
12. Member, Graduate School Thesis Committee (Pathology and Pharmacology)  
Doctoral Thesis Advisor to Kevin Schreur (1995-1997, Pharmacology) and Wei Liu (1996-1997, Pathology)

## **PAST AND PRESENT GRANT SUPPORT**

1. **NIH Specialized Center of Research (SCOR) Grant, Coronary and Vascular Diseases (Washington University Cardiovascular Division)**, Burton E. Sobel, Principal Investigator, Project 1: The Biochemical Nature of Arrhythmogenesis in Ischemic Myocardium and Its Pharmacologic Prevention, Dr. Peter B. Corr, Responsible Investigator, Michael H. Creer, Co-Investigator, **1988-1993**.
2. **Phospholipid Catabolism and Membrane Dysfunction in Isolated Cardiac Myocytes, University of Arkansas for Medical Sciences Institutional Pilot Study, 1991-1992.** (Michael H. Creer, Principal Investigator).
3. **Lysoplasmalogen-Induced Electrophysiologic Dysfunction, American Heart Association, 1992-1994.** (Michael H. Creer, Principal Investigator).

4. Myocardial Plasmalogen and Diacyl Phospholipids in Ischemic Cell Injury, **Veteran's Administration Research Career Development Award, 1992-1996.**
5. Myocardial Phospholipid Metabolism and Ischemic Membrane Dysfunction, **Veteran's Administration Merit Review Grant, 1993-1997.** (Michael H. Creer, Principal Investigator).
6. Amphiphilic Lipid Metabolites and Renal Ischemic Membrane Dysfunction, **Veteran's Administration Merit Review Grant, 1994-1997.** (Michael H. Creer, Co-Principal Investigator)
7. Plasmalogen-Selective PLA<sub>2</sub> Activation in Ischemia, **National Institutes of Health, R29 Grant Program, 1996-2000.** (Michael H. Creer, Co-Investigator)
8. Ischemia and Thrombin- Activated Calcium-Independent PLA<sub>2</sub> in Cardiomyocytes and Endothelial Cells, **American Heart Association (National Affiliate), 1998-2000.** (Michael H. Creer, Principal Investigator).
9. Characterization of Ca<sup>2+</sup>-Independent PLA<sub>2</sub> Following Protease-Activated Receptor Stimulation in Human Endothelial Cells. **American Heart Association (Heartland Affiliate), 2000-2002.** (Michael H. Creer, Principal Investigator).
10. Thrombin-Stimulated PLA<sub>2</sub> and Platelet-Endothelial Cell Interactions. Michael H. Creer, Principal Investigator. **National Institutes of Health, R01 Grant Program** (under review).
11. Mechanisms and Functional Coupling of a Ca-Independent PLA<sub>2</sub> with Thrombin-Receptor Stimulation in Endothelial Cells. **American Heart Association (Heartland Affiliate), 2002-2004** (Michael H. Creer, Principal Investigator).
12. Plasmalogen metabolism by iPLA<sub>2</sub> in ischemic Myocardium, **National Institutes of Health, 2001-2006,** (Michael H. Creer, Co-Investigator)
13. Trypsin-stimulated phospholipase A<sub>2</sub> in the bladder, **National Institutes of Health, 2002-2006,** (Michael H. Creer, Co-Investigator)
14. Novel PLA<sub>2</sub> in Oxidant-Induced Renal Cell Oncosis, **National Institutes of Health, 2001-2004,** (Michael H. Creer, Co-Investigator)

## **PUBLICATIONS**

### **A. Peer-Reviewed Scientific Publications**

- 1) **Creer, M.H.**, Herold, D., Elwood, T. and Futrell, J., Synthesis of Deuterium Labelled 2,2-Dimethoxypropanes, J. Labelled Compounds and Radiopharmaceuticals, 24:843-848, 1977.
- 2) **Creer, M.H.** and Ladenson, J., Analytical Artifacts Due to Lipemia, Laboaratory Medicine, 14:351-355, 1983.
- 3) **Creer, M.H.**, Pastor, C., Corr, P.B., Gross, R.W. and Sobel, B.E., Quantification of Choline and Ethanolamine Phospholipids in Rabbit Myocardium, Analytical Biochemistry, 144:65-74, 1985.
- 4) **Creer, M.H.** and Gross, R.W., Reverse-Phase HPLC Separation of Molecular Species of Alkyl Ether, Vinyl Ether and Monoacyl Lysophospholipids, Journal of Chromatography, 338:61-69, 1985.
- 5) **Creer, M.H.** and Gross, R.W., Separation of Isomeric Lysophospholipids by Reverse-Phase HPLC, Lipids, 20:922-928, 1985.
- 6) Akita, H., **Creer, M.H.**, Sobel, B.E. and Corr, P.B., The Electrophysiologic Effects of Intracellular Lysophosphoglycerides and Their Accumulation in Cardiac Lymph with

- Myocardial Ischemia in Dogs, Journal of Clinical Investigation, 78:271-280, 1986.
- 7) Pak, J.H., Bork, V.X., Norberg, R.E., **Creer, M.H.**, Wolf, R.A. and Gross, R.W., Disparate Molecular Dynamics of Plasmalogen and Phosphatidylcholine Bilayers, Biochemistry, 26:4824-4830, 1987.
  - 8) Corr, P.B., Yamada, K.A., **Creer, M.H.**, Sharma, A.D. and Sobel, B.E., Lysophosphoglycerides and Ventricular Fibrillation Early After Onset of Ischemia, Journal of Molecular and Cellular Cardiology, 19 (Suppl. V):45-53, 1987.
  - 9) Chan, K.M., Svancarek, W.P., and **Creer, M.H.**, Fatality Due to Acute Hydrofluoric Acid Exposure, Journal of Toxicology-Clinical Toxicology, 25(4):333-339, 1987.
  - 10) Corr, P.B., **Creer, M.H.**, Yamada, K.A., Onufer, J.R., Saffitz, J.E., Pogwizd, S.M. and Sobel, B.E., Prophylaxis of Early Ventricular Fibrillation by Inhibition of Acylcarnitine Accumulation, Journal of Clinical Investigation, 83:927-936, 1989.
  - 11) **Creer, M.H.**, Lau, B., Jones, J.D. and Chan, K.M., Pyroglutamic Acidemia: An Unusual Cause of High Anion Gap Metabolic Acidosis, Clinical Chemistry, 35(4):684-686, 1989.
  - 12) Dobmeyer, D.J., Corr, P.B. and **Creer, M.H.**, A Sensitive Radiometric Assay for Lysophosphatidylcholine, Analytical Biochemistry, 185:36-43, 1990.
  - 13) DaTorre, S.D., Corr, P.B. and **Creer, M.H.**, A Sensitive Method for the Quantification of the Mass of Inositol Phosphates Employing Gas Chromatography/Mass Spectrometry, Journal of Lipid Research, 31:1925-1934, 1990.
  - 14) DaTorre, S.D., **Creer, M.H.**, Pogwizd, S.M. Corr, P.B., Amphipathic Lipid Metabolites and Their Relation to Arrhythmogenesis in the Ischemic Heart, Journal of Molecular and Cellular Cardiology, 23:11-22, 1991.
  - 13) DaTorre, S.D. and **Creer, M.H.**, Selective Incorporation of Polyunsaturated Fatty Acids in Diacyl and Plasmalogen Phospholipid Molecular Species in Isolated Canine Cardiac Myocytes, Journal of Lipid Research, 32:1159-1172, 1991.
  - 14) Abian, J., Stone, A., Morrow, M.G., **Creer, M.H.**, Fink, L.M., and Lay, J.O., Thermospray High Performance Liquid Chromatography - Mass Spectrometry of Cyclosporins, Rapid Communications in Mass Spectrometry, 6:684-689, 1992
  - 15) Portilla, D., Shah, S.V. and **Creer, M.H.**, Role of Cytosolic Calcium-Independent Plasmalogen-Selective PLA<sub>2</sub> in Hypoxic Injury to Rabbit Proximal Tubules, Journal of Clinical Investigation, 93:1609-1615, 1994.
  - 16) Scalzo, F.M., Primožic, S., Burge, T.M., Badger, T.M., **Creer, M.H.**, Nehus, C. and Karba, R., Effects of Labetalol on Cocaine Pharmacokinetics in Neonatal Piglets, Dev. Pharmacol. Ther., 67:29-37, 1994.
  - 15) Portilla, D. and **Creer, M.H.**, Plasmalogen Phospholipid Hydrolysis During Hypoxic Injury of Rabbit Proximal Tubules, Kidney International, 47:1087-1094, 1995
  - 16) McHowat, J., Miller, G.W., **Creer, M.H.** and Schnellman, R.G., Novel Roles of Phospholipase A<sub>2</sub> in Cellular Injury. J. Am. Soc. Nephrol., 5:931-935, 1995.
  - 17) McHowat, J., Jones, J. and **Creer, M.H.**, Quantitation of Individual Phospholipid Molecular Species by UV Absorption Measurements, Journal of Lipid Research, 37:2450-2460, 1996.
  - 18) Schonefeld, M., Bertorello, A.M., Mandel, L.J., **Creer, M.H.** and Portilla, D., Hypoxia-Induced Amphiphiles Inhibit Renal Na<sup>+</sup>-K<sup>+</sup>-ATPase, Kidney International, 49:1289-1296, 1996.
  - 19) McHowat, J. and **Creer, M.H.**, Lysophosphatidylcholine (LPC) Accumulation in Cardiomyocytes Requires Thrombin Activation of Ca<sup>2+</sup>-Independent PLA<sub>2</sub>, American

- Journal of Physiology, 272:H1972-H1980, 1997.
- 20) McHowat, J., Jones, J. and **Creer, M.H.**, A Gradient-Elution, Reverse Phase High Performance Liquid Chromatographic Technique for the Separation of Individual Phospholipid Molecular Species, Journal of Chromatography, 702:21-32, 1997.
  - 21) McHowat, J. and **Creer, M.H.**, Selective Hydrolysis of Plasmalogen Phospholipids by Ca<sup>2+</sup>-Independent PLA<sub>2</sub> in Hypoxic Ventricular Myocytes, American Journal of Physiology, 274:C1727-C1737, 1998.
  - 22) J. McHowat and **Creer, M.H.** Thrombin Activates a Membrane-Associated Calcium-Independent PLA<sub>2</sub> in Ventricular Myocytes, American Journal of Physiology, 274:C447-C454, 1998.
  - 23) McHowat, J. and **Creer, M.H.**, Characterization of Phospholipase A<sub>2</sub> in Isolated Rabbit Ventricular Myocytes, Lipids, 33:1203-1212, 1998.
  - 24) **Creer, M.H.** and McHowat, J., Selective Hydrolysis of Plasmalogens in Endothelial Cells Following Thrombin Stimulation, American Journal of Physiology, 275:C1498-1507, 1998.
  - 25) Eliason, S., Ritter, D., Chung, H.D. and **Creer, M.H.**, Interlaboratory Variability for Total Homocysteine Analysis in Plasma, Clinical Chemistry, 45:315-316, 1999.
  - 26) Polski, J.M., **Creer, M.H.**, Ritter, D. and Johnston, M., Polyethylene Glycol-Induced Immunoglobulin Precipitation May Cause Invalidation of Antiglobulin Tests, Transfusion, 39:537-539, 1999.
  - 27) McHowat, J., **Creer, M.H.**, Hicks, K.K., Jones, J.H., McCrory, R.D. and Kennedy, R.H., Induction of Ca-Independent PLA<sub>2</sub> and Conservation of Plasmalogen Polyunsaturated Fatty Acids in Diabetic Myocardium, American Journal of Physiology, 279:E25-32, 2000.
  - 28) McHowat, J. and **Creer, M.H.**, Selective Plasmalogen Substrate Utilization by Thrombin-Stimulated Ca<sup>2+</sup>-Independent PLA<sub>2</sub> in Cardiomyocytes, American Journal of Physiology, 278:H1933-H1940, 2000.
  - 29) Ritter, D., Taylor, J.F., Walkenbach, R., **Creer, M.H.** and Arens, M.Q., Diagnostic Testing for HIV Type 1 RNA in Seronegative Blood, American Journal of Clinical Pathology, 113:128-134, 2000.
  - 30) Galambos, C., Brink, D.S., Ritter, D., Chung, H.D. and **Creer, M.H.**, False-Positive Plasma Troponin I with the AxSYM Analyzer, Clin. Chem., 46:1014-1015, 2000.
  - 31) McHowat, J., **Creer, M.H.**, Rickard, A., Stimulation of Protease-Activated Receptors on RT4 Cells Mediates Arachidonic Acid Release via Ca<sup>2+</sup>-Independent PLA<sub>2</sub> (iPLA<sub>2</sub>), Journal of Urology, 165:2063-2067, 2001.
  - 32) Lewis, J.S., Taylor, J.F., Miklos, A.Z., Virgo, K.S., **Creer, M.H.** and Ritter, D.G., Clinical Significance of Low-Positive Troponin I by AxSYM and ACS:180, American Journal of Clinical Pathology, 116:396-402, 2001.
  - 33) Suarez, A., Sokol-Anderson, M.L., **Creer, M.H.**, Taylor, J. and Ritter, D.G., Diagnosis of Early HIV-1 Infection, Aids Patient Care and STDs, 15:237-241, 2001.
  - 34) Collins, J., Ritter, D., Bacon, B.R., Landt, M., **Creer, M.H.**, Macro-Aspartate Aminotransferase (Macro-AST) in an Apparently Healthy Female with Antibodies to Hepatitis C Virus, Archives of Pathology and Laboratory Medicine, (under review).
  - 35) McHowat, J. and **Creer, M.H.**, Phospholipase A<sub>2</sub>-Catalyzed Hydrolysis of Plasmalogen Phospholipids in Thrombin-Stimulated Platelets, (under review).
  - 36) McHowat, J., Kell, P.J., O'Neil, H.B. and **Creer, M.H.**, Endothelial Cell PAF Synthesis



Following Thrombin Stimulation Utilizes Ca<sup>2+</sup>-Independent Phospholipase A<sub>2</sub>, Biochemistry, 40:14921-14931, 2001.

- 37) McHowat, J. and **Creer, M.H.**, Comparative Roles of Phospholipase A<sub>2</sub> Isoforms in Cardiovascular Pathophysiology, Cardiovascular Toxicology, 01:253-265, 2002.
- 38) Espiritu, J.D., **Creer, M.H.**, Miklos, A.Z. and Bajaj, M.S., Fatal Tumor Thrombosis Due to Inferior Vena Cava Leiomyosarcoma in a Patient with Antiphospholipid Antibody Syndrome, Mayo Clinic Proceedings, 77(6):595-600, 2002
- 39) Wang, F., Morikawa, T., Biwa, S., Oliver, D., **Creer, M.**, Hamaguchi, Y. and Hirai, K., Monitoring Hematopoietic Stem and Progenitor Cells with Sysmex Automated Hematology Analyzers, Laboratory Hematology 8:119-125, 2002
- 40) Steer, S.A., Wirsig, K.C., **Creer, M.H.**, Ford, D.A. and McHowat, J., Regulation of Membrane-Associated iPLA<sub>2</sub> Activity by a Novel PKC Isoform in Ventricular Myocytes, American Journal of Physiology, (in press, 2002)
- 41) Hofling, AA., Vogler, C., **Creer, M.H.**, Sands, M.S., Engraftment of Human CD34+ Cells Leads to Widespread Distribution of Donor-Derived Cells and Correction of Tissue Pathology in a Novel Murine Xenotransplantation Model of Lysosomal Storage Disease, Blood, (submitted)
- 42) Liu, S.J., Kennedy, R.H., **Creer, M.H.** and McHowat, J., Alterations in Ca<sup>2+</sup> Cycling by Lysoplasmenylcholine in Adult Rabbit Ventricular Myocytes, Journal of Cardiac Electrophysiology (in review)
- 43) McHowat, J., **Creer, M.H.**, Catalytic Features, Regulation and Function of Myocardial Phospholipase A<sub>2</sub>. Current Medicinal Chemistry, (in press, 2002)
- 44) Meyerrose, T.E., Hoffling, A.A., DeUgarte, D.A., Manoj, R., Cordonnier, T., Rosova, I., Bauer, G., Eagon, C., **Creer, M.**, Johnson, C., Herrbrich, P., Hedrick, M.A., Sands, M.S. and Nolte, J.A., Human Adipose-Derived Mesenchymal and Adherent Cord Blood Stem Cell Trafficking Studies are Facilitated by Novel Xenotransplant Models, Blood, (submitted, 2002)

## **B. Book Chapters**

- 1) **Creer, M.H.** and Valdes, R., Alpha-Fetoprotein and its Use in Screening for Fetal Integrity: Part II, Chromosomal Abnormalities, Endocrinology and Metabolism Continuing Education Series, American Association for Clinical Chemistry, February, 1986.
- 2) **Creer, M.H.**, Dobmeyer, D.J. and Corr, P.B., Amphipathic Lipid Metabolites and Arrhythmias During Myocardial Ischemia, in: Cardiac Electrophysiology from Cell to Bedside, Zipes, D.P. and Jalife, J., W.B. Saunders, New York, Chapter 46, p. 417-433, 1990.
- 3) Corr, P.B., Yamada, K.A., **Creer, M.H.**, Wu, J., McHowat, J. and Yan, G.X., Amphipathic Lipid Metabolites and Arrhythmias During Ischemia, in: Cardiac Electrophysiology from Cell to Bedside, Zipes, D.P. and Jalife, J., (Second Edition), W.B. Saunders, New York, pp. 182-203, 1995.
- 4) McHowat, J. and **Creer, M.H.**, High-Molecular Weight Intracellular Calcium-Independent Phospholipase A<sub>2</sub> (cPLA<sub>2</sub>), in: Phospholipase A<sub>2</sub> in Clinical Inflammation: Molecular Approaches to Pathophysiology. CRC Press, Boca Raton, pp. 75-92, 1995.
- 5) McHowat, J. and **Creer, M.H.**, Catalytic Features of Calcium-Independent

- Phospholipase A<sub>2</sub>, in: Recent Progress in Phospholipase Research, K.B. Glaser and P. Vadas, editors, (in press).
- 6) **Creer, M.H.**, Jurisprudence and the Practice of Laboratory Medicine, Legal Issues in Forensic Pathology, (in press).
  - 7) **Creer, M.H.**, and McHowat, J., Biologic and Mechanistic Diversity of Mammalian Phospholipase A<sub>2</sub>, Recent Research Developments in Lipids, 4:13-24, 2000.

### **C. Abstracts and Presentations at National Meetings**

- 1) Knabb, M.T., Ahumada, G., **Creer, M.H.**, Sobel, B.E. and Saffitz, J.E., Accumulation of Endogenous Radiolabelled Long-Chain Acylcarnitine by Hypoxic Myocytes, Circulation, 70(Suppl. II):79, 1984.
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