



RADIATION
SAFETY OFFICE

May 16, 2007

Materials Licensing Section
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: NRC License No. 13-02752-08

Dear Sir/Madam:

The intent of this letter is to request an amendment to the above referenced NRC license, changing the Chairman of our Radionuclide Radiation Safety Committee (RRSC) from Mervin C. Yoder, Jr., MD to R. Mark Payne, MD, FAAP, FACC. Dr. Payne has been a Radionuclide Use Permit Holder here since August of 2005 and has considerable experience utilizing radioactive materials as evidenced by the attachments to this letter.

Should you have any additional questions, please do not hesitate to contact this office. Your prompt attention to this amendment request is appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Mack L. Richard".

Mack L. Richard, MS, CHP
Radiation Safety Officer

Attachments: 2

Cc: J. Froehlich, PhD, Vice Chancellor for Research & Graduate Education
O. Pescovitz, MD, Chairman, Radiation Safety Council
M. Yoder, Jr., MD, Chairman - RRSC

Clinical Building 159
541 Clinical Drive
Indianapolis, Indiana
46202-5111

317-274-4797
Fax: 317-274-2332



INDIANA UNIVERSITY
SCHOOL OF MEDICINE

May 1, 2007

Mr. Mack L. Richard, MS, CHP
IUPUI/IUMC Radiation Safety Officer
Department of Radiation Safety
Indiana University School of Medicine
Indianapolis, IN 46202

Dear Mack:

It was a pleasure to talk with you about chairing the Radiation Safety committees for Indiana University School of Medicine. As we discussed, I have many years of experience in working with radiation both in the research lab, as well as in the clinic. Relative to research, I have used most of the common isotopes for basic research over the course of 20 years in basic research. This also includes those isotopes used in Positron Emission Tomography. Within my past clinical duties as director of the Pediatric Cardiac Catheterization laboratory, I have also overseen the selection, installation and certification, and use of the X-Ray fluoroscopy equipment used in evaluating children and adults with congenital heart defects. I am also familiar with the issues and use of many other clinical tools, such as PET, Thallium scans, and X-ray emitting equipment (CT scans, etc) that concern the care of patients.

R. MARK PAYNE, MD
Professor of Pediatrics
(Cardiology)
317-278-6239
rpayne@iupui.edu

I would be glad to accept this position as Dr. Merv Yoder steps down, and look forward to working with you on this important committee. Please do not hesitate to contact me regarding this matter.

DEPARTMENT OF PEDIATRICS

Herman B Wells Center
for Pediatric Research
Cancer Research Institute
1044 West Walnut Street
Room 402
Indianapolis, Indiana
46202-5225

317-278-0543
Fax: 317-278-9298

Sincerely,

A handwritten signature in black ink, appearing to read "R. Mark Payne".

R. Mark Payne, MD, FAAP, FACC
Professor of Pediatrics (Cardiology)

RONALD MARK PAYNE, M.D.
CURRICULUM VITAE

ADDRESS:

R. Mark Payne, MD
Professor of Pediatrics (Cardiology)
Riley Hospital for Children
Wells Center for Pediatric Research
Indiana University School of Medicine
1044 West Walnut Street, R4 402
Indianapolis, IN 46202

E-mail: rpayne@iupui.edu
Phone: 317-278-6239
Cell: [REDACTED]

EDUCATION:

- a. **Undergraduate**
8/73-5/77 B.S., Washington and Lee University, Lexington, Virginia

- b. **Graduate**
8/79-6/83 M.D., University of Texas Medical School at Houston

- c. **Postgraduate**
 - 6/83-7/84 Pediatric Intern, Children's Hospital at Washington University Medical Center, St. Louis, Missouri
 - 7/84-6/86 Pediatric Resident, Children's Hospital at Washington University Medical Center, St. Louis, Missouri
 - 7/86-6/87 Chief Resident in Pediatrics, Dr. James P. Keating, Children's Hospital at Washington University Medical School, St. Louis, Missouri
 - 7/87-6/89 Fellow in Pediatric Cardiology, Children's Hospital at Washington University Medical Center, St. Louis, Missouri
 - 7/89-6/92 Research Fellow (Molecular Biology), Dr. Arnold W. Strauss, Washington University Medical Center, St. Louis, Missouri

ACADEMIC POSITIONS/EMPLOYMENT:

- 6/83-7/86 Assistant in Pediatrics (House staff), Washington University School of Medicine
- 7/86-6/91 Assistant in Pediatrics (Pediatric Fellow), Washington University School of Medicine
- 7/91-6/93 Instructor in Pediatrics, Washington University School of Medicine
- 7/93-1/97 Assistant Professor of Pediatrics, Washington University School of Medicine
- 2/97-6/99 Assistant Professor of Pediatrics, Wake Forest University School of Medicine

7/99-6/05 Associate Professor of Pediatrics, Wake Forest University School of Medicine
7/05- Adjunct Associate Professor of Pediatrics, and Associate, Institute of Regenerative Medicine, Wake Forest University School of Medicine
7/05- Professor of Pediatrics with Tenure, Indiana University School of Medicine
2/06- Professor (Associate), Department of Medical and Molecular Genetics, Indiana University School of Medicine

ACADEMIC TITLE AND RESPONSIBILITIES:

Professor of Pediatrics (Cardiology) and Medical and Molecular Genetics, Indiana University
Purdue University Indianapolis and Riley Hospital for Children

TEACHING TITLE:

Professor of Pediatrics

UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES:

7/91-1/97 Hospital Privileges, Barnes Hospital, St. Louis, MO
7/91-1/97 Hospital Privileges, Jewish Hospital, St. Louis, MO
7/91-1/97 Hospital Privileges, St. Louis Children's Hospital, St. Louis, MO
2/97-6/05 Hospital Privileges, North Carolina Baptist Hospital, Winston-Salem, NC
7/98-6/05 Hospital Privileges, Forsyth Memorial Hospital, Winston-Salem, NC
7/05- Hospital Privileges, Riley Hospital for Children, Indianapolis, IN

COMMITTEE APPOINTMENTS AND DIRECTORSHIP:

University of Texas Medical School at Houston
1980-81 Research Coordinator for Developing Occupational Environmental Health Program between University of Texas Medical School at Houston, University of Texas School of Public Health, and Baylor Medical School

Washington University School of Medicine
1986-87 Critical Care Committee
Medical Records Committee
Utilization and Review Committee
Infectious Disease Committee
Transport Committee
1991-97 Division of Pediatric Cardiology, Quality Assurance Committee

Wake Forest University School of Medicine
1997 Research Administrative Coordinator Task Force
1997 Co-Chair, Research Administrative Coordinator Working Group
1997-05 Director, Pediatric Cardiac Catheterization Laboratory
1998-03 General Clinical Research Center Advisory Committee (Standing Committee)
1999-01 Executive Committee for Molecular Medicine Program
2000-05 Cardiovascular Marketing Subcommittee

2001-05 Chair, Molecular Medicine Executive Committee
2001-05 Director, Graduate Program in Molecular Medicine
2001-05 Research Advisory Committee (Standing Committee)
2003-05 Cardiac Cath Lab Review and Administration
2003-05 Graduate School Biomedical Sciences (Standing Committee)
2003-05 Intramural Research Support Committee (Standing Committee)
2004-05 Graduate School Council (Standing Committee)

Indiana University School of Medicine

2005- Protocol Development Team
2006- Institutional Review Board (Standing Committee)
2006- Fellowship Director, Pediatric Cardiology
2006- Program Director, Morris Green Scholarship Program

MEDICAL LICENSURE AND BOARD CERTIFICATION:

1983 Federal Licensure Examination
1983 Texas License G5466 (active)
1985 Missouri License R4F35 (expired)
1997 North Carolina License 97-00358 (active)
2006 Indiana License 01061704A (active)

1983 Advanced Cardiac Life Support
1986 Advanced Trauma Life Support
1988 Pediatric Advanced Life Support
1990 Pediatric Advanced Life Support, Instructor
2006 Basic Life Support, re-certification
2006 Pediatric Advanced Life Support, re-certification

1988 Diplomat of the American Board of Pediatrics: 6/1/88, 12/19/95, 12/16/02
1996 Diplomat, Sub-Board of Pediatric Cardiology: 8/13/96, 4/5/04

HONORS AND AWARDS:

1980-81 President, Medical School Student Body
1980-82 President, Sophomore and Junior Medical School Classes
1987 Recipient: Antonio Hernandez Memorial Fellowship in Pediatric Cardiology
1997 Fellow, American College of Cardiology
1999 American Heart Association, Established Investigator Award
2006 Fellow, American Academy of Pediatrics

PROFESSIONAL SOCIETIES AND ORGANIZATIONS:

1992- American Heart Association, CV Disease in the Young Council
1993- American Association for the Advancement of Science
1994- American Society for Biochemistry and Molecular Biology
1995- American Physiological Society
1995- American Heart Association, Basic Science Council

1997- Fellow, American College of Cardiology
1998- Society for Pediatric Research
2006- Fellow, American Academy of Pediatrics

EDITORIAL AND REVIEW RESPONSIBILITIES:

1995- Reviewer: The American Journal of Physiology
1996- Reviewer: The Journal of Molecular and Cellular Cardiology
2002-06 American Heart Association, Molecular Signaling Study Section (MAT5, 2002-06, Chair 2005-06), Mid-Atlantic Heart Association
2005-09 National Institutes of Health, BRT-A Study Section
2007 NIH, Reviewer BRT-6, Special Emphasis Panel K12 applications
2007 NIH, Reviewer Special Emphasis Panel K99/R00 applications

RESEARCH SUPPORT:

Governmental:

1990-92 1 F32HL08332-01. NRSA Postdoctoral Individual Fellowship Award, National Institutes of Health: "Regulation of Mitochondrial Creatine Kinase". R. M. Payne, Principal Investigator.
1996-98 1 R03 AG14223-01. "Age and Disease Associated Changes in Creatine Kinase". \$50,000. R. M. Payne, Principal Investigator.
1999-02 R01 DK55765-01. "GTP-Binding Proteins in Mitochondrial Protein Import". \$459,735. R. M. Payne, Principal Investigator.
1999-02 3 R01 DK55765-01S1. "GTP-Binding Proteins in Mitochondrial Protein Import". Minority Student supplement, \$82,690. R. M. Payne, Principal Investigator.
2001-03 1 R43 HL68362-01. SODm for Management of Ischemic Heart Disease. \$261,230. D. Salvemini, Principal Investigator; RM Payne, Co-Investigator.
2001-05 K30 HL-04164 Education in patient-oriented research. \$925,925. Principal Investigator: C.E. McCall (Payne: Co-Investigator). June 1, 1999 – May 31, 2004.
2003-07 R01 DK67763-01. Non-viral delivery of proteins to mitochondria. \$1,015,011. RM Payne, Principal Investigator. Dec. 1, 2003 – Nov. 30, 2007.
2004-09 T32 GM063485-01A1. Training Program in Molecular Medicine. RM Payne, Principal Investigator. July 1, 2004 - June 31, 2009. Note: grant transferred to Dr. Linda McPhail effective July 2005.
2006-08 R21 NS052198-01. TAT-mediated delivery of Frataxin for Friedreich's Ataxia. RM Payne, Principal Investigator, May 2, 2006 – April 30, 2008.
2007-08 1 R13 HL088918-01 - The Scientific Basis of Heart Failure in the Young. \$10,000 Conference grant. RM Payne, Principal Investigator.

Non-governmental:

- 1988-89 Fleur-de-Lis grant: St. Louis University Hospital. "Epidemiology and clinical findings of tricuspid valve prolapse in children". R. M. Payne, Principal Investigator.
- 1989-90 American Heart Association, Fellowship Award (Missouri Chapter): "Regulation and Expression of Rat Heart Mitochondrial Creatine Kinase". R. M. Payne, Principal Investigator.
- 1990-91 American Heart Association, Fellowship Award (Missouri Chapter): "Characterization of Expression and Regulation of Rat Mitochondrial Creatine Kinase". R. M. Payne, Principal Investigator.
- 1993-94 Washington University Medical School institutional grant: "Isolation and Characterization of Mitochondrial Import Receptors". \$10,000. R. M. Payne, Principal Investigator.
- 1992-97 Clinician Scientist Award, American Heart Assoc., National Chapter, "Regulation and Function of Mitochondrial Creatine Kinase" \$246,000. R. M. Payne, Principal Investigator.
- 1995-97 Grant In Aid, American Heart Association, National Chapter, Regulation and Function of Mitochondrial Creatine Kinase". \$30,000. R. M. Payne, Principal Investigator.
- 1996-97 Eagle's Award, "Regulation and Function of Mitochondrial Creatine Kinase", \$5,000. R. M. Payne, Principal Investigator.
- 1999-02 Established Investigator Award, American Heart Association. "GTP-Binding Proteins in Mitochondrial Protein Import". \$300,000. R. M. Payne, Principal Investigator . Note: this award was returned to the AHA effective August 1, 1999, in order to accept the NIH award (R01 DK55765-01).
- 2001-02 Wake Forest University School of Medicine Intramural Research Support Award. "The Effect of Ischemia-Reperfusion Injury on Cardiac Mitochondria". \$12,500. R. M. Payne, Principal Investigator.
- 2001-03 Wake Forest University School of Medicine Intramural Research Support Award. "Therapeutic Targeting of Proteins to Mitochondria". \$15,000. R. M. Payne, Principal Investigator.
- 2003-05 Friedreich's Ataxia Research Association (FARA) and Muscular Dystrophy Association (MDA). Novel Therapy for Friedreich Ataxia. \$146,000. RM Payne, Principal Investigator.

PATENTS

- 2003 U.S. Application 60/514,892, filed October 22, 2003. *Non-viral Delivery of Compounds to Mitochondria*. **Payne, RM**.

CURRENT AND PAST TRAINEES

TRAINING RECORD					
Faculty Member	Trainee (Undergrad/EICS/PREP/Predoc/Postdoc/Med Student)	Training Period	Type of Degree Awarded, Institution, & Date	Title of Research Project	Current Position or Source or Support
R. Mark Payne, MD					
Past Trainees					
postdoctoral	M Johnson, MD (Cardiology Fellow)	1992-1996	MD, Washington University	Clinical Cardiovascular Sciences	Assistant Professor of Pediatrics, Director, Pediatric Cardiology Training Program, Washington, Univ. School of Medicine
postdoctoral	M. L. Clabby, MD (Cardiology fellow)	1993-1996	MD, Washington University	Clinical Cardiovascular Sciences	Assistant Professor of Pediatrics Emory Univ. School of Medicine Atlanta, GA
postdoctoral	M Thomure, M.D. Post-doctoral Research Fellow	1994-1995	MD, St. Louis University. Washington University.	Creatine kinase expression by 3'-UTR sequences	Assistant Professor, OB/Gyn, St. Louis University
postdoctoral	M Vranicar, M.D. (Cardiology Fellow)	1995-1997	MD, Washington University	Clinical Cardiovascular Sciences	Assistant Professor of Pediatrics University of Kentucky Medical Center Lexington, KY
predoctoral	JM Cheng, M.D., Ph.D. Pre-doctoral student	1995-1997	MD/PhD, Washington University	Regulation of creatine kinase by 3'-UTR sequences	Univ. Penn. Internal Med. Resident
postdoctoral	KS Crowley, Ph.D. Post-doctoral Fellow	1996-1999	PhD, University of Oklahoma. Washington University, and WFUSM	Ribosome binding to mitochondria	Pharmacia Corporation, St. Louis, MO
predoctoral	R Boyce (Pre-medical student)	1997	Undergraduate summer student, WFUSM	Identification of GTP-binding proteins in mitochondria	Undergraduate, Davidson College, NC

PAYNE, RONALD MARK, M.D.
CURRICULUM VITAE
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predoctoral	K. Peachman, PhD Pre-doctoral thesis committee	1997-2000	PhD, Wake Forest University, 05-2000	Mitochondria in Eosinophils and Neutrophils and their role in anti-inflammatory induced apoptosis but not in respiration	Post-doctoral fellow, Walter Reed Medical Center, Washington, DC
predoctoral	C Clay, PhD Pre-doctoral thesis Committee	1998-2002	PhD, Molecular Medicine, WFUSM, 05-2002	Role of peroxisome proliferators activated receptor γ and $15\text{Deoxy}\Delta^{12,14}$ prostaglandin J_2 in the growth and survival of breast cancer cells	Senior Medical Writer, Complete Healthcare Communications, Inc. Chadds Ford, PA
predoctoral	*J Galvez, PhD Thesis advisor, and Principal Investigator	1998-2004	BS, University of Florida, 1998. PhD, Pharmacology, WFUSM, 4-2004	Superoxide dismutase mimetics protect mitochondria during ischemia and reperfusion	United States Patent Office, Washington, DC
predoctoral	J MacKenzie, PhD Thesis advisor, and Principal Investigator	1999-2004	BS, MS, Western Univ. PhD, Molecular Medicine, WFUSM, 4-2004	Ribosome-Mitochondria interactions: Evidence of a ribosome receptor on mammalian mitochondria	Assistant Professor, Oswego State University, Oswego, New York
predoctoral	*R Jacinto, PhD Pre-doctoral thesis committee	1999-2004	PhD, MBA, Molecular Medicine WFUSM 3-2004	Toll receptors in inflammation	Product Manager, Process Chromatography. Bio-Rad Laboratories
predoctoral	Victoria Del Gaizo, PhD Thesis advisor, and Principal Investigator	2000-2004	BS, James Madison, VA PhD, Molecular Medicine, WFUSM, 4-2004	Targeting proteins to mitochondria using protein transduction domains	Post-doctoral Research Fellow, Medical Oncology Dana-Farber Cancer Institute, Harvard, Boston, MA
predoctoral	N Rajapakse, PhD Pre-doc, thesis committee	2001-2004	PhD, Molecular Medicine, WFUSM, 1-2004	Neuroprotective effects of diazoxide against ischemia-reperfusion brain injury	Post-doctoral research fellowship, NIH (EPA), Research Triangle, NC,
predoctoral	L Jing, PhD Pre-doctoral candidate, Molecular Medicine (Thesis committee)	2002-2005	BS, MD, China PhD, Molecular Medicine, WFUSM, 5-2005.	Role of RGS5 in the Vessel Wall.	NIH R01 HL057557 (Randall Geary, PI)
postdoctoral	Marta V. Thakkar, MD, MS. Master's defense	2003-2005	MD, 1998, Wayne State Univ. School	High Blood 17-Hydroxyprogesterone	Private Practice, Illinois

	committee chair, Clinical Epidemiology and Health Services Research.		of Medicine, Detroit, MI.	and the Risk of Bronchopulmonary Dysplasia in Very Low Birth Weight Infants.	
postdoctoral	J. Jason Hoth, MD Post-doctoral fellow (Surgery), Pre-MS candidate, Molecular Medicine, (Thesis advisor and PI)	2003-06	MD, Louisiana State Univ.	Inflammatory response to lung contusion.	Institutional Funding and Thoracic Society post-doctoral fellowship award
Present Trainees					
predoctoral	Manisha Nautiyal (Thesis committee)	2003- present (Wake Forest)	MS, India (chemistry)	BCAT-M targeting to mitochondria	NIH T32 GM063485 (Molecular Medicine)
predoctoral	Patrick Rowe, BS Pre-doctoral candidate, Molecular Medicine (Thesis committee)	2004- present (Wake Forest)	BS, Pennsylvania	The Role of Mitochondrial Iron in Hyperglycemia- Induced Endothelial Dysfunction.	NIH NHLBI T32HL007115 (Janice Wagner, PI), WFUSM
predoctoral	Deqiang Li, MD (Thesis committee)	2006 – present	MD, China Medical University, 1998	The role of BMP10 in cardioprotection	NIH R01 HD70259 (Weinian Shou, PI)
postdoctoral	Piyush M. Viyas, PhD	2006 – present	PhD, University of Iowa, 2006	TAT-mediated delivery of Frataxin for Friedreich's Ataxia	NIH R21 NS052198-01.
postdoctoral	Jayanagendra P. Rayapureddi, PhD	2006 – present	PhD, Visva- Bharati University, Santiniketan, WB, India, 2001	Non-viral delivery of proteins to mitochondria	NIH R01 DK67763- 01.
Postdoctoral	Allyson Boodram, MD	2006 – present	MD, 12-2002, St. George University, Grenada.	Clinical Cardiovascular Sciences	Pediatric Cardiology Fellow
Postdoctoral	Michael T. Wright, MD	2006 – present	MD, 5-2002, St. George University, Grenada.	Clinical Cardiovascular Sciences	Pediatric Cardiology Fellow
Postdoctoral	Matthew T. Bramlet, MD	2006 – present	MD, 5-2003, Southern Illinois University	Clinical Cardiovascular Sciences	Pediatric Cardiology Fellow
Postdoctoral	Edward C. Kirkpatrick, DO	2004 – present	DO, 6-1999, Chicago College of Osteopath	Clinical Cardiovascular Sciences	Pediatric Cardiology Fellow

* indicates minority trainee

BIBLIOGRAPHY:

Peer reviewed manuscripts:

1. Payne RM, Martin TC, Bower RJ, Canter CE: Management and follow-up of arterial thrombosis in the neonatal period. J Pediatr 1989;**114**:853-858.
2. Payne RM, Haas RC, Strauss AW: Structural characterization and tissue-specific expression of the mRNAs encoding isoenzymes from two rat mitochondrial creatine kinase genes. Biochim Biophys Acta 1991;**1089**:352-361.
3. Lewis W, Papoian T, Gonzalez B, Louie H, Kelly DP, Payne RM, Grody WW: Mitochondrial, ultrastructural, and molecular changes induced by zidovudine in rat hearts. Laboratory Investigation 1991;**65**:228-236.
4. Su C-Y, Payne RM, Strauss AW, Dillmann WH: Selective reduction of creatine kinase subunit mRNAs in muscle of diabetic rats. Am J Physiol 1992;**263**:E310-E316.
5. Payne RM, Friedman DL, Grant JW, Perryman B, Strauss AW: Creatine kinase isoenzymes are highly regulated during pregnancy in rat uterus and placenta. Am J Physiol 1993;**265**:E624-E635.
6. Payne RM, Sims HF, Jennens M, Lowe ME. Differential expression of rat pancreatic lipase mRNAs and two pancreatic lipase related protein mRNAs during development. Am J Physiol 1994;**266**:G914-G921.
7. Payne RM, Strauss AW: Developmental expression of ubiquitous and sarcomeric mitochondrial creatine kinase mRNAs. Biochim Biophys Acta 1994;**1219**:33-38.
8. O'Shea DL, Gast MJ, Murdock GL, Payne RM, Strauss AW. Expression of Engineered Human 17 β -Estradiol Dehydrogenase in a Prokaryotic System. J Soc Gynecol Invest 1994;**1**:143-149.
9. Payne RM, Strauss AW: Expression of the mitochondrial creatine kinase genes. Mol Cell Biochem 1994;**133/134**:235-243.
10. Payne RM, Johnson MC, Grant JW, Strauss AW: Towards a Molecular Understanding of Congenital Heart Disease. Circulation 1995;**91**:494-504.
11. Johnson MC, Payne RM, Grant JW, Strauss AW: The Genetic Basis of Paediatric Heart Disease. Annals of Medicine 1995;**27**:289-300.
12. Thomure MF, Gast MJ, Srivastava N, Payne RM: Regulation of creatine kinase isoenzymes in human placenta during early, mid, and late gestation. J Soc Gyn Invest, 1996;**3**:322-327.
13. Aksenov MY, Aksenova MV, Payne RM, Smith CD, Markesbery WR, Carney JM. The Expression of Creatine Kinase Isoenzymes in Neocortex of Patients with Neurodegenerative Disorders I: Alzheimer's and Pick's Disease. Experimental Neurology 1997;**146**:458-465.
14. Hoang CD, Zhang J, Payne RM, Apple FS. Post-Infarction Left Ventricular Remodeling Induces Changes in Creatine Kinase mRNA and Protein Subunit Levels in Porcine Myocardium. Am. J. of Pathology, 1997;**151**:257-264.
15. Mendeloff EN, Huddleston CB, Payne RM. Unusual Cause of Pulmonary Hypertension and Congestive Heart Failure in a Newborn. Ann. Thoracic Surg, 1997;**64**:1174-1177.

16. Qin W, Khuchua Z, Cheng J, Boero J, Payne RM, and Strauss AW. Molecular Characterization of the Creatine Kinases and some Historical Perspectives. Mol. Cell. Biochem. 1998;**184**:153-167.
17. Baorto E, Payne RM, Slater LN, Lopez F, Relman DA, Min K-W, St. Geme III JW. Culture-Negative Endocarditis caused by *Bartonella henselae*. J. Pediatrics 1998;**132**:1051-1054.
18. Crowley KS, and Payne RM. Ribosome Binding to Mitochondria is Regulated by GTP and the Transit Peptide. J. Biol. Chem. 1998;**273**:17278-17285.
19. Qin W, Khuchua Z, Boero J, Payne RM, Strauss AW. Expression of a Mitochondrial Creatine Kinase in Oxidative Myofibers of heart and Skeletal Muscle in Mice. Histochem J. **31**:357-65, 1999.
20. Aksenova MV, Aksenov MY, Payne RM, Trojanowski JQ, Schmidt ML, Carney JM, Butterfield DA, Markesbery WR. Oxidation of Cytosolic Proteins and Expression of Creatine Kinase BB in Frontal Lobe in Different Neurodegenerative Disorders. Dementia & Geriatric Cognitive Disorders 1999;**10**:158-165.
21. Khuchua ZA, Qin W, Boero J, Cheng J, Payne RM, Saks VA, Strauss AW. Octamer Formation and Coupling of Cardiac Sarcomeric Mitochondrial Creatine Kinase is Mediated by Charged N-terminal Residues. J Biol Chem 1998;**273**:22990-22996.
22. Brian CA, Payne RM, Hundley WG, Link KM, Warner JG. Pulmonary Arteriovenous Malformation. Circulation 1999;**100**:e29-e30.
23. Payne RM, Bensky AS, Hines MH. Division of venous collateral after Glenn Shunt by Minimally Invasive Surgery. The Annals of Thoracic Surgery, 2000;**70**:973-975.
24. Rajapakse N, Shimizu K, Payne M, Busija D. Isolation and characterization of intact mitochondria from neonatal brain. Brain Research Protocols, 2001;**8**:176-183.
25. Shimizu K, Rajapakse N, Horiguchi T, Payne RM, Busija DW. Protective effect of a new nonpeptidyl mimetic of SOD, M40401, against focal cerebral ischemia in the rat. Brain Research, 2003;**963**:8-14.
26. Del Gaizo V, and Payne RM. A Novel TAT-Mitochondrial Signal Sequence Fusion Protein is Processed, Stays in Mitochondria, and Crosses the Placenta. Molecular Therapy, 2003;**7**:720-730.
27. Shimizu K, Rajapakse N, Horiguchi T, Payne RM, Busija DW. Neuroprotection against hypoxia-ischemia in neonatal rat brain by novel superoxide dismutase mimetics. Neuroscience Letters 2003;**346**:41-44.
28. Del Gaizo V, MacKenzie J, and Payne RM. Targeting proteins to mitochondria using TAT. Molecular Genetics and Metabolism, 2003;**80**:170-180.
29. Hines MH, Raines KH, Payne RM, Covitz W, Cnota JF, Smith TE, O'Brien JJ, Ririe DG. Video-assisted ductal ligation in premature infants. Ann Thorac Surg 2003;**76**:1417-20.
30. MacKenzie JA, and Payne RM. Ribosome specifically bind to mammalian mitochondria via protease-sensitive proteins on the outer membrane. J Biol Chem 2004;**276**:9803-9810.

31. Moore VDG, and Payne RM. TAT fusion protein transduction causes membrane inversion. J Biol Chem 2004;**279**:32541-32544.
32. Ibdah JA, and Payne RM. Novel Therapeutic Approaches to Mitochondrial Disease. Letters in Drug Design & Discovery, 2004;**1**:308-313.
33. Fahey FH, Gage HD, Buchheimer N, Smith HC, Harkness BA, Williams RC, Bounds MC, Mercier J, Robbins MEC, Payne RM, and Morton KA, Mach RH. Evaluation of the quantitative capability of a high-resolution positron emission tomography scanner for small animal imaging. Journal of Computer Assisted Tomography, 2004;**28**(6):842-848.
34. Angdisen J, Del Gaizo V, Cline JM, Payne RM, and Ibdah JA. Mitochondrial trifunctional protein defects: molecular basis and novel therapeutic approaches. Current Drug Targets-Immune, Endocrine, & Metabolic Disorders 2005;**5**(1):27-40.
35. Grace BE, Cnota JF, Hines MH, Payne RM, Ririe DG. Traumatic coronary artery fistula in a child. Circulation 2005;**111**:e272-273.
36. Stitzel JD, Gayzik FS, Hoth J, Mercier J, Gage HD, Morton KA, Duma SM, and Payne RM. Development of a Finite Element-Based Injury Metric for Pulmonary Contusion Part I: Model Development and Validation. Stapp Car Crash Journal, 2005;**49**: 271-289.
37. MacKenzie JA and Payne RM. Preparation of Ribosomes Loaded with Truncated Nascent Proteins to Study Ribosome Binding to Mammalian Mitochondria. Mitochondrion, 2006; **6**(2): 67-75.
38. Hoth JJ, Stitzel JD, Gayzik FS, Brownlee NA, Miller PR, Yoza BK, McCall CE, Meredith JW, Payne RM. The Pathogenesis of Pulmonary Contusion: An Open Chest Model in the Rat. J Trauma. 2006;**61**(1):32-45.
39. Chen H, Yong W, Ren S, Shen W, He Y, Cox KA, Zhu W, Soonpaa M, Payne RM, Franco D, Field LJ, Rosen V, Wang Y and Shou W. Postnatal ectopic overexpression of BMP10 in ventricular myocardium disrupts cardiac developmental hypertrophic growth. J Biol Chem, 2006;**281**(37):27481-91.
40. MacKenzie JA and Payne RM. Mitochondrial Protein Import and Human Health and Disease. Biochimica et Biophysica Acta, 2007;**1772**:509-523.

INVITED REVIEWS, BOOK CHAPTERS, EDITORIALS AND SYMPOSIA:

1. Payne RM: "Aids in Childhood". Co-chaired symposia with Stephan H. Polmar. St. Louis Children's Hospital at Washington University Medical Center, March, 1987.
2. Payne RM, Strauss AW: Expression of the mitochondrial creatine kinase genes. In: Cellular Bioenergetics: Role of Coupled Creatine Kinases. V.A. Saks and R. Ventura-Clapier (eds.), Kluwer Academic Publishers, The Netherlands 1994.
3. Payne RM: Mitochondrial Biogenesis and Function. In: Pediatrics & Perinatology: The Scientific Basis. P.D. Gluckman and M.A. Heymann (eds.), Edward Arnold (Publishers) Ltd., London, pp. 80-91, 1996.

4. Payne RM: Polymorphisms in Heart Disease. In: Genetic Polymorphisms and Susceptibility to Disease. M.S. Miller (ed), Taylor & Francis Ltd. (Publishers), London, pp 175-205, 2000.
5. Galvez JJ and Payne RM. The Role of Superoxide in Heart Disease. In: Therapeutic Applications of Superoxide Dismutase and its Mimetics. Daniela Salvemini and Salvatore Cuzzocrea (ed). Landes Bioscience (Publishers), 2004.

INVITED PRESENTATIONS AND LECTURES:

1. Payne RM: Regulation of Creatine Kinase Expression by the 3'-Untranslated Region. Department of Pharmacology, University of Kentucky School of Medicine, Lexington, KY. 1996.
2. Payne RM: Genetic Counseling in Congenital Heart Disease. American Heart Association 69th Scientific Session, November, 1996.
3. Payne RM: Evaluation of Cardiac Disease in the Newborn. Invited presentation, North Carolina Pediatric Society Annual Meeting, Asheville, NC. 1997.
4. Payne RM: Evaluation and Management of Congenital Heart Disease in the Cardiac Cath Lab. Invited presentation, Institute Jantung Negara (National Heart Institute), Kuala Lumpur, Malaysia, 1998.
5. Payne RM: The Post-operative Congenital Heart Patient: When to Re-evaluate. Invited presentation, Institute Jantung Negara (National Heart Institute), Kuala Lumpur, Malaysia, 1998.
6. Payne RM: Evaluation and Management of Congenital Heart Disease. Invited presentation, Bangkok Children's Hospital, Bangkok, Thailand, 1998.
7. Payne RM: Re-evaluation of the Post-operative Congenital Heart Patient. Invited presentation, Bangkok Children's Hospital, Bangkok, Thailand, 1998.
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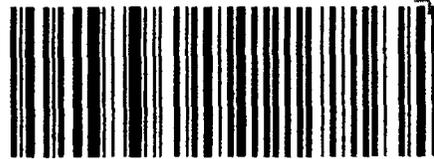
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