

CURRICULUM VITAE
JAMES F. PADBURY, M.D.

Business Address: Department of Pediatrics
Women & Infants Hospital
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EDUCATION

Undergraduate: University of California, Irvine,
1965-69, B.S.

Medical School: University of California, Los Angeles, School of Medicine
1969-73, M.D.

POSTGRADUATE TRAINING

Internship: San Francisco General Hospital (Pediatrics)
San Francisco, California
1973-74

Residency: Postgraduate Fellow in Pediatrics
Children's Hospital Medical Center
Boston, Massachusetts
1975-76

Chief Resident in Pediatrics
University of California, San Francisco
San Francisco General Hospital
1976-77

Fellowship: Clinical Fellowship in Neonatology
Children's Hospital Medical Center
Boston, Massachusetts
1974-75

Research Fellowship in Neonatology
Harbor-UCLA Medical Center
UCLA School of Medicine
Torrance, California
1979-80

POSTGRADUATE HONORS AND AWARDS

University of California, Irvine, Magna Cum Laude Honors, Biological Sciences

Richard E. Weitzman, M.D. Memorial Endocrinology Research Award, Harbor-UCLA Medical Center, 1981

Basil O'Connor Research Scholar Award, March of Dimes, 1984

Jonas Salk Health Leadership Award for Healthcare Providers, March of Dimes Rhode Island Chapter, 2004

Medical Staff Distinguished Service Award, Women & Infants Hospital, 2005

2008 March of Dimes National Distinguished Volunteer Service Award, Eastern Region
2009 Volunteer of the Year Award, March of Dimes Rhode Island

MILITARY SERVICE: none

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Licensure:

California, #G27131, Rhode Island, #08966, Massachusetts, #151961, Connecticut, #046986

Board Certification:

Diplomat, American Board of Pediatrics, July, 1978 #021880

Diplomat, Sub-Board of Neonatal-Perinatal Medicine, October, 1981, #994

ACADEMIC APPOINTMENTS

Chief of Pediatrics, Natividad Medical Center, Salinas, California, 1977 - 1979

Clinical Instructor, Ambulatory & Community Medicine, University of California, San Francisco
1977 - 1979

Assistant Professor of Pediatrics, Harbor-UCLA Medical Center, UCLA School of Medicine,
1980-1985

Associate Professor of Pediatrics, Harbor-UCLA Medical Center, UCLA School of Medicine,
1985-1990

Professor of Pediatrics, Harbor-UCLA Medical Center, UCLA School of Medicine, 1990 - 1995

Professor of Pediatrics, Brown Medical School, 1995 – present

Professor and Associate Chair for Research, Department of Pediatrics, 2007- present

Oh – Zopfi Professor of Pediatrics for Perinatal Research, The Warren Alpert Medical School of
Brown University, 2008 – present

HOSPITAL APPOINTMENTS

Director, Neonatal Intensive Care Unit, Harbor-UCLA Medical Center, 1988-1992

Chief, Division of Neonatology, Harbor-UCLA Medical Center, 1992 - 1995

Chief of Pediatrics, Women & Infants Hospital of Rhode Island, 1995 – present

Consulting Staff, Department of Pediatrics, Brockton Hospital, 1997 - present

Consulting Staff, Department of Pediatrics, Charlton Memorial Hospital, 1997 - present

Affiliate Staff, Department of Neonatology, Kent County Memorial Hospital, 1997 - present

Consulting Staff, Department of Pediatrics, Rhode Island Hospital, 1997 - present

Consulting Staff, Department of Pediatrics, St. Luke's Hospital, 1998 - present

Consulting Staff, Department of Pediatrics, Memorial Hospital of Rhode Island, 2000 - present

Affiliate Staff, Department of Pediatrics, Sturdy Memorial Hospital, 2000 – present

Consulting Staff, Department of Pediatrics, The William W. Backus Hospital, 2008

OTHER APPOINTMENTS

Co-Chair, American Heart Association Fellowship Study Section, 1993-1995

Scientific Advisory Board, Nephrogenic Diabetes Insipidus Foundation, 1998-present

President-elect, Council of the New England Association of Neonatologists, 1999

Member, Child Health Advisory Committee, Charles H. Hood Foundation, 1999-2003

Chair, Child Health Advisory Committee, Charles H. Hood Foundation, 2004

RI Department of Health Genetics Screening Advisory Committee, 1998 - present

Chair, RI Department of Health Newborn Screening Advisory Committee, 1998- present

Member, National Conference for Community and Justice

Member, Program Committee, Pediatric Academic Societies' Annual Meeting, 2001-2005

Member, Human Embryology & Development Study Section, National Institutes of Health, 2002-2005

Member, Rhode Island Association for Infant Mental Health, 2003-present

Member, Pregnancy and Neonatology Study Section, National Institutes of Health, 2001-2004

Member, Special Emphasis Review Panel, National Institutes of Health RFA RM-04-010

Interdisciplinary Health Research Training: Behavior, Environment and Biology, 2004

Member, RI COBRE InBRE Program Directors Steering Committee, 2006-present

Chair, Pregnancy and Neonatology Study Section, National Institutes of Health, 2005-2007

Member, Advisory Council, National Center for Research Resources IDeA Networks of Biomedical Research Excellence (INBRE), 2008-present

Member, "Best Doctors in America," 2007-08

Member Representative, NIH-NCRR National Council of IDeA Association, 2008-12

HOSPITAL COMMITTEES

Harbor-UCLA Medical Center

NICU Steering Committee, 1980-1995

Radiation Safety Control Committee, 1980-1995

Infection Control Committee, 1981-1995

Search Committee Pediatric Cardiology, 1991-1995

Research Advisory Committee, 1993-1995

Review and Appraisal Committee, 1988-1995

Women & Infants Hospital of Rhode Island

Board of Trustees, 1995-present

Executive Committee, 1995-present

Medical Care Evaluation Committee, 1995-present

Radiation Safety Committee, 1995-present

Indemnity Board, 1996-present

Claims Committee, 1996-present

Care New England Physician Integration Task Force, 1996-present

Lifespan Research Advisory Committee, 1996-present

Pediatric Curriculum Committee, 1999-2003

Human Genetics Committee, 2001-present

Information Services Steering Committee, 2001-present

Newborn Screening Task Force, 2001-present

Clinical Services Planning - Obstetrical Task Force, 2002-2004

Clinical Services Planning - NICU Task Force, 2002-2004

Medical Home Task Force, 2002-present

Lifespan Development Grant Committee, 2002-present

Business Growth Steering Committee, 2003-2005

Kilguss Advisory Committee, 2003-present

Kilguss Governance Committee, 2003-present

Imaging Services Task Force, 2004- 2005

NICU Steering Committee, 2004-present

Strategic Leadership Group, 2004-present

Certificate of Need Workgroup, 2004-2005

Interim NICU Committee, 2005-present

Hospital Advisory Committee, 2005-present

Grant Reviewer, COBRE Center for Cancer Research Development, 2005
ONWARD Campaign Steering Committee, 2005-present
NICU Design Committee, 2005-present
NICU Family Advisory Council, 2006-present
KidsNet Task Force, 2007-present
Emergency Medical Services for Children Task Force, 2007-present
Physician Advisory Team, 2008-present
NICU INet PowerNote Design Committee, 2008-present
Professional Revenue Cycle Board, 2008-present

BROWN UNIVERSITY COMMITTEES

Pediatric Department Faculty Executive Council, 1995-present
Search Committee, Chief of Pediatric Surgery, 1996-1997
Liaison Committee on Medical Education Task Force, 1996-1997
Search Committee, Research Associate, Department of Surgery, 1998-2001
Search Committee, Director, Pediatric Gastroenterology and Nutrition, 1998-2000
Chair, Search Committee, Staff Neonatologist, Department of Pediatrics, 1998-2000
Search Committee, Pathologist-in-Chief, 1998-2000
Search Committee, Clinical Geneticist, 1998-1990
Faculty Member/Advisor, Graduate Program in Pathobiology, 1999-present
Steering Committee Member, Center for Genetics & Genomics, 2000-2002
Chair, Search Committee, Staff Neonatologist, Department of Pediatrics, 2000-2003
Chair, Search Committee, Pediatric Cardiologist, 2001- 2004
Search Committee, Provost and Executive Vice President, 2001-2004
Steering Committee, Strategic Planning Process, 2001-present
Search Committee, Chief of Pediatrics, Memorial Hospital of Rhode Island, 2002-2003
Chair, Clinical Advisory Committee for Chair of Pediatrics Search Committee, 2002-2004
Member, Medical Faculty Executive Committee, 2002-2006
Vice Chair, Medical Faculty Executive Committee, 2003-2004
Liaison Committee on Medical Education Task Force, 2003-2004
Search Committee, Staff Pathologist, Department of Pathology & Laboratory Medicine, 2004-05
Chair, Medical Faculty Executive Committee, 2004-2005
Member, President's Executive Committee, 2004-2005
Member, BioMed Faculty Council, 2004-2005
Member, Faculty Executive Committee, 2005- present
Member, Search for Dean for Cross-Disciplinary Sciences, 2005-2007
Member, Search for Associate Dean for Graduate and Postdoctoral Training, 2005- 2006
Reviewer, Richard B. Salomon Faculty Research Awards, 2005-2006
Reviewer, Research Seed Fund Awards, 2006
Member, Brown Cardiovascular Center Steering Committee, 2006-present
Member, Search for Director, Division of Research, 2006-2007
Member, Search for University Provost, 2006-2008
Member, Faculty Review and Promotions Committee, 2006-present
Member, Executive Committee, Ship Street Research Building, 2006- present
Member, Steering Committee, Brown Center for Genomics and Proteomics, 2006-present
Member, Search for Chair, Department of Obstetrics and Gynecology, 2007-2008
Reviewer, Smith Family Foundation Awards, 2007
Member, Rhode Island BioBank Steering Committee, 2007

Member, Executive Committee and Director, Core Laboratories, Application for Clinical and Translational Science Award, 2007-present
Member, Search for Chair, Department of Medicine, 2008-09

EDITORIAL BOARD

American Journal of Physiology: Regulatory, Integrative & Comparative Physiology, 1998-2002
The Journal of Pediatrics, 1999-2009
American Society for Reproductive Immunology, 2006-2009

EDITORIAL REVIEWER

Brain Research
Journal of the Society for Gynecologic Investigation
American Journal of Physiology
The Journal of Clinical Endocrinology & Metabolism
The Journal of Pediatrics
Pediatric Research
Journal of Pharmacology and Experimental Therapeutics
Molecular Psychiatry/Nature
Developmental Biology
Placenta
Acta Paediatrica
European Journal of Pediatrics
American Journal of Reproductive Immunology
Experimental Hematology
Molecular Reproduction and Development
Proceedings of the National Academy of Sciences

MEMBERSHIP IN SOCIETIES

American Public Health Association
American Association for the Advancement of Science
Western Society for Pediatric Research
Society for Pediatric Research
Eastern Society for Pediatric Research
American Physiological Society
American Pediatric Society
Society for Neuroscience
Perinatal Research Society
Council, 1996-98
American Academy of Pediatrics (Section on Perinatal Pediatrics)
European Society for Pediatric Research (affiliate)
American Society for Cell Biology

COMMUNITY SERVICE

Board of Directors, Ronald McDonald House of Providence, 2002-2004
Member, Advisory Council for the March of Dimes 2005 Prematurity Summit: “Prematurity – A Focus on Prevention”

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Padbury JF, Hobel CJ, Diakomanolis ES, Lam RW and Fisher DA: Ontogenesis of beta-adrenergic receptors in the ovine placenta. *Am J Obstet Gynecol* 139(4):459-464, 1981.
2. Padbury JF, Diakomanolis ES, Hobel CJ, Perelman A and Fisher DA: Neonatal adaptation: sympatho-adrenal response to umbilical cord cutting. *Pediatr Res* 15:1483-1487, 1981.
3. Jobe A, Ikegami M, Glatz, T.H., Yoshida, Y., Diakomanolis, E.S. and Padbury JF: The duration and characteristics of treatment of premature lambs with natural surfactant. *J Clin Invest* 67:370-375, 1981.
4. Padbury JF, Hobel CJ, Lam RW. and Fisher DA: Sex differences in lung and adrenal neurosympathetic development rabbits. *Am J Obstet Gynecol* 141(2):199-204, 1981.
5. Padbury JF, Diakomanolis ES, Lam RW, Hobel CJ and Fisher DA: Ontogenesis of tissue catecholamines in fetal and neonatal rabbits. *J Develop Physiol* 3:297-303, 1981.
6. Padbury JF, Roberman B, Hobel CJ and Fisher DA: I. Fetal catecholamines during labor and delivery. The role of fetal acid base status, labor, sex and heart rate patterns at term. *Obstet. Gynecol.* 60:607-611, 1982.
7. Jobe A, Ikegami M, Glatz, T., Yoshida, Y., Diakomanolis, E.S. and Padbury JF: Saturated phosphatidylcholine metabolism and surfactant replacement therapy in premature lambs. *Exp Lung Res* 4:259-267, 1983.
8. Padbury JF, Hobel CJ, Gonzalez FA and Fisher DA: Ontogenesis and sex differences in rabbit fetal adrenal phenylethanolamine N-methyltransferase. *Biol Neonate* 43:205-210, 1983.
9. Klein AH, Reviczky A, Chou P, Padbury JF and Fisher DA: Development of brown adipose tissue (BAT) thermogenesis in the ovine fetus and newborn. *Endocrinology* 112:1662-1666, 1983.
10. Klein AH, Reviczky A, Padbury JF and Fisher DA: Effect of changes in thyroid status on tissue respiration in fetal and newborn sheep. *Am J Physiol* 244:E603-E606, 1983.
11. Padbury JF, Lam RW, Hobel CJ and Fisher DA: Identification and partial purification of phenylethanolamine – methyltransferase in the developing ovine lung. *Pediatr Res* 17:262-267, 1983.
12. Padbury JF, Jacobs HC, Lam RW, Conaway D, Jobe AH and Fisher DA: Adrenal epinephrine and the regulation of pulmonary surfactant release in neonatal rabbits. *Exp Lung Res* 7: 177-86, 1984.

13. Klein AH, Reviczky A and Padbury JF: Thyroid hormones augment catecholamine stimulated brown adipose tissue thermogenesis in the ovine fetus. *Endocrinology* 114:1065-1069, 1984.
14. Newnham JP, Marshall, C.L., Padbury JF, Larn, R.W., Hobel CJ and Fisher DA: Fetal catecholamine release with preterm delivery. *Am J Obstet Gynecol* 149:888-893, 1984.
15. Padbury JF: A straight forward guide to neonatal resuscitation. *Contemporary Ob/Gyn* 24:174-179, 1984.
16. Padbury JF, Polk DH, Newnham JP and Lam RW: Neonatal adaptation: greater sympathoadrenal response in preterm than full-term fetal sheep at birth. *Am J Physiol* 248:E443- E449, 1985.
17. Padbury JF, Ludlow JK, Humme JA and Agata, Y: Metabolic clearance rates and production rates of catecholamines in preterm and term fetal sheep. *Pediatr Res* 20:992-995, 1986.
18. Venkatesh N, Padbury JF and Singh BN: Effects of amiodarone and desethylamiodarone on rabbit myocardial adrenoceptors and serum thyroid hormones -absence of relationship to serum and myocardial drug concentrations. *J Cardiovas Pharmacol* 8: 989-997, 1986.
19. Lakshmanan J, Padbury JF, Macaso T, Wang D, Beri U and Fisher DA: Involvement of sympathetic nervous system in thyroxine submandibular gland nerve growth factor and epidermal growth factor responses. *Pediatr Res* 20:232- 237, 1986.
20. Padbury JF, Klein AH, Polk DH, Lam RW, Hobel CJ and Fisher DA: The effect of thyroid status on lung and heart beta adrenergic receptors in fetal and newborn sheep. *Devel Pharmacol Therapeut* 9:44-53, 1986.
21. Padbury JF, Lam RW, Polk DH, Newnham JP, Lakshmanan J and Fisher DA: Autoimmune sympathectomy in fetal rabbits. *J Devel Physiol* 8:369-379, 1986.
22. Agata Y, Padbury JF, Ludlow JK, Polk DH and Humme JA: The effect of chemical sympathectomy on catecholamine release at birth. *Pediatr Res* 20:1338-1344, 1986.
23. Newnham JP, Lam RW, Hobel CJ, Padbury JF, Polk DH and Fisher DA: Differential response of ovine placental lactogen levels in maternal and fetal circulations following single umbilical artery ligation in fetal sheep. *Placenta* 7:51-64, 1986.
24. Polk DH, Padbury JF, Callegari CC, Newnham JP, Reviczky A and Klein AH: Effect of fetal thyroidectomy on newborn lambs. *Pediatr Res* 21 :453-457, 1987.
25. Padbury JF, Ludlow JK, Ervin MG, Jacobs HC and Humme JA.: Thresholds for the metabolic and hemodynamic effects of plasma catecholamines in fetal sheep. *Am J Physiol* 252 (Endocrinol Metab):E530-E537, 1987.

26. Polk DH, Ervin MG, Padbury JF, Lam RW, Reviczky A and Fisher DA: Epidermal growth factor acts as a corticotropin releasing factor in chronically catheterized fetal lamb. *J Clin Invest* 79:984-988, 1987.
27. Padbury JF, Agata Y, Baylen BG, Polk DH, Goldblatt E and Pescetti J: Dopamine pharmacokinetics in critically ill newborn infants. *J Pediatr* 110:293, 1987.
28. Padbury JF, Agata Y, Polk DH, Wang D.L. and Callegari CC: Neonatal adaptation: Naloxone increases the catecholamine surge at birth. *Pediatr Res* 21 :590-593, 1987.
29. Padbury JF, Agata Y, Ludlow JK, Ikegami M, Jobe A, and Humme J: Effect of fetal adrenalectomy on catecholamine release and physiologic adaptation at birth in sheep. *J Clin Invest* 80:1096-1103, 1987.
30. Padbury JF, Agata Y, Polk DH, Wang DL, Lam RW and Callegari CC: Catecholamine and endorphin responses to delivery in term and preterm lambs. *Devel Pharmacol & Ther* 11:44-50, 1988.
31. Clyman RI, Teitel D, Padbury JF, Roman C and Mauray F: The role of beta adrenoreceptors stimulation and contractile state in the preterm lamb's response to altered ductus arteriosus patency. *Pediatr Res* 23:316-322, 1988.
32. Martinez AM, Padbury JF, Shames L, Evans C and Humme JP: Naloxone potentiates epinephrine release during hypoxia in fetal sheep: Dose response and cardiovascular effects. *Pediatr Res* 23:343-347, 1988.
33. Padbury JF and Martinez AM: Sympathoadrenal system activity at birth: Integration of postnatal adaptation. *Sem Perinatol* 12:163-172, 1988.
34. Agata Y, Padbury JF, Hiraishi, S., Fujino, N., Horiguchi, Y., Ervin, M. and Yashiro, K.:The effects of adrenalectomy and volume loading on cardiac performance and plasma catecholamine level in newborn lambs. *J Jap Soc Pediatr* 92:2303-2308, 1988.
35. Padbury JF, Martinez AM, Ludlow JK, Evans, C.W. and Thio SL: Radioenzymatic assay for the simultaneous estimation of dobutamine and endogenous catecholamines. *J Clin Chem* 34:2380-2381, 1988.
36. Ervin MG, Padbury JF, Ross MG, Leake RD and Fisher DA: Developmental changes in the adrenergic regulation of fetal arginine vasopressin secretion. *Am J Physiol* 256:(Endocrinol Metab 19):E406-E412, 1989.
37. Padbury JF, Martinez AM, Thio SL, Burnell E and Humme JA: Free and sulfoconjugated catecholamine responses to hypoxia in fetal sheep. *Am J Physiol (Endocrinol Metab)* 257:E198-E202, 1989.
38. Baylen BG, Agata Y, Padbury JF, Ikegami M, Jobe AH and Emmanouilides GC: Hemodynamic and neuroendocrine adaptations of the preterm lamb left ventricle to acutely increased afterload. *Pediatr Res* 26:336-342, 1989.

39. Padbury JF, Habib DM and Martinez AM: Thresholds for the physiologic effects of adrenergic agents: A methodologic appraisal. *J Devel Physiol* 14:115-124, 1990.
40. Martinez AM, Padbury JF, Burnell EE, Thio SL and Humme J: The effects of hypoxia on (methionine) enkephalin peptide and catecholamine release in fetal sheep. *Pediatr Res* 27:52-55, 1990.
41. Habib DM, Padbury JF, Martinez AM, Chappell B, Thio SL and Burnell E: Neonatal adaptation: Cardiac adrenergic effector mechanisms after birth in newborn sheep. *Pediatr Res* 29:98-103, 1991.
42. Martinez AM, Padbury JF, Humme JA, Evans CW and Shames L: Plasma catecholamines and their physiologic thresholds during the first ten days of life in sheep. *J Devel Physiol* 13: 141-146, 1990.
43. Padbury JF, Agata Y, Baylen BG, Ludlow JK, Polk DH, Habib DM and Martinez AM: Dopamine pharmacokinetics in critically ill newborn infants. *J Pediatr* 117:472- 476, 1990.
44. Martinez AM, Padbury JF, Burnell EE and Thio SL: Plasma methionine enkephalin levels in the human newborn at birth. *Biol Neonate* 60:102-107, 1991.
45. Harwell CM, Padbury JF, Anand RS, Martinez AM, Ipp E, Thio SL and Burnell EE: Fetal glucose and catecholamine responses to maternal hypoglycemia, *Am J Physiol(Reg Integr & Comp Physiol 28):R1126-R1130*, 1990.
46. Savich RD, Guerra FA., Lee CH, Padbury JF and Kitterman JA: The effect of acute oligohydramnios on the respiratory system of fetal sheep. *J Appl Physiol* 73(2):610-617, 1992.
47. Chappell BA, Padbury JF, Habib DM, Martinez AM, Thio SL and Burnell E: Pulmonary clearance of norepinephrine in lambs. *Pediatr Res* 29:93-97, 1991.
48. Ervin MG, Castro R, Sherman DJ, Ross MG, Padbury JF, Leake RD and Fisher DA: Ovine fetal renal and hormonal responses to changes in plasma epinephrine, *Am J Physiol (Reg Integr & Comp)* 260:R82-89, 1991.
49. Collins JW Jr., Hoppe M, Brown K, Edidin DV, Padbury JF, and Ogata ES: A controlled trial of insulin infusion and parenteral nutrition in glucose intolerant extremely low birth weight infants with glucose intolerance. *J Pediatr* 118:921-927, 1991.
50. Martinez AM, Padbury JF, Habib DM, Chappell B, Thio S, Burnell E and Humme J: Maturation changes in expression of enkephalin peptides in adrenal and extra-adrenal tissue of fetal and adult rabbits. *Brain Res Bull* 26:935-940, 1991.
51. Padbury JF, Martinez AM, Chappell BA, Oyama K, Stein H and Barberie L: Dopamine clearance may vary. *Pediatr Trauma Acute Care* 3 :47, 1991.

52. Chappell BA, Padbury JF, Martinez AM, Habib DM, Stein H and Oyama K: Cardiovascular effects of SKF 104078 in lambs. *Devel Pharm& Therap* 17:44-51, 1991.
53. Martinez AM, Padbury JF and Thio S: Dobutamine pharmacokinetics and cardiovascular responses in critically ill neonates. *Pediatrics* 89:47-51, 1992.
54. Ballard RA, Ballard PL, Creasy RK, Padbury JF, Polk DH, Bracken M, Moya FR, Gross I and TRH study group. Respiratory disease in very-low-birthweight infants after prenatal thyrotropin-releasing hormone and glucocorticoid. *Lancet* 339:510-515, 1992.
55. Habib DM, Padbury JF, Anas NG, Perkin RM and Minegar C: Dobutamine pharmacokinetics and pharmacokinetics in pediatric intensive care patients, *Crit Care Med* 20:601-608, 1992.
56. Sapien R, Stein H, Padbury JF, Thio S, and Hodge D: Intraosseous versus intravenous epinephrine infusion in lambs: Pharmacokinetics and pharmacodynamics. *Pediatr Emerg Care* 8:179-183, 1992.
57. Oyama K, Padbury JF, Chappell B, Martinez A, Stein H and Humme J: Single umbilical artery ligation-induced fetal growth retardation: effect on postnatal adaptation. *Am J Physiol (Endocrinol & Metab)* 263:E575-E583, 1992.
58. Oyama K, Padbury JF, Martinez A, Chappell B, Stein H, Blount L, and Buhl E: Free and sulfoconjugated catecholamine responses at birth in newborn sheep. *Am J Physiol (Endocrinol & Metab)* 263:E23-E27, 1992.
59. Stein HM, Oyama K, Sapien R, Chappell B, and Padbury JF: Prolonged beta agonist infusion does not induce desensitization or down-regulation of beta adrenergic receptors in newborn sheep. *Pediatr Res* 31 :462-467, 1992.
60. Martinez AM, Padbury JF, Barberie LM, Burnell EE, and Thio S: Elevated plasma met-enkephalin levels in the human newborn are a poor indicator of perinatal stress. *Am J Obstet Gynecol* 166:1429-1435, 1992.
61. Berg RA, Donnerstein RL and Padbury JF: Dobutamine infusions in stable, critically ill children: Pharmacokinetics and hemodynamic effects in critically ill children. *Crit Care Med* 21(5):678-86, 1993.
62. Ballard PL, Ballard RA, Creasy RK, Padbury JF, Polk DH, Bracken M, Moya FR, and Gross I: Plasma thyroid hormones and prolactin in premature infants and their mothers after prenatal treatment with thyrotropin-releasing hormone. *Pediatr Res* 32:673-678, 1992.
63. Stein H, Oyama K, Martinez A, Chappell B and Padbury JF: Plasma epinephrine appearance and clearance rates in fetal and newborn sheep. *Am J Physiol (Reg Integr & Compar Physiol* 34):R756-R760, 1993.

64. Oyama K, Padbury JF, Humme J, Chappell B, Stein HM, Blount E, and Buhl E: Effects of fetal growth retardation on the development of central and peripheral catecholaminergic pathways. *J Devel Physiol* 18:217-222, 1992.
65. Chan K, Dodd A, Day L, Kullama L, Ervin MG, Padbury JF and Ross MG: Fetal catecholamine, cardiovascular and neurobehavioral responses to cocaine. *Am J Obstet Gynecol* 167:1616-23, 1992.
66. Ogundipe OA, Kullama LK, Stein H, Nihland MJ, Ervin MG, Padbury JF and Ross MG: Fetal endocrine and renal responses to in utero ventilation and umbilical cord occlusion. *Am J Obstet Gynecol* 169:1479-86, 1993.
67. Stein HM, Oyama K, Martinez A, Chappell BA, Buhl L, Blount L and Padbury JF: Effects of corticosteroids in preterm sheep on adaptation and sympathoadrenal mechanisms at birth. *Am J Physiol* 264 (Endocrinol Metab 27):E763-E769, 1993.
68. Berg RA, Padbury JF, Donnerstein RL, Klewer SE, and Hutter JJ: Dobutamine pharmacokinetics and pharmacodynamics in normal children and adolescents. *J Pharmacol Exp Therap* 265(3):1232-8, 1993.
69. Stein HM, Martinez A, Blount L, Oyama K, and Padbury JF: The effects of corticosteroids and thyrotropin-releasing hormone on newborn adaptation and sympathoadrenal mechanisms in preterm sheep. *Am J Obstet.Gynecol* 171 (1): 17-24, July, 1994.
70. Newnham JP, Polk DH, Kelly, R.V., Padbury JF, Evans, S.F., Ikegami M, and Jobe AH: Catecholamine responses to ultrasonographically guided percutaneous blood sampling in fetal sheep. *Am J Obstet Gynecol* 71:460-46, 1994.
71. Padbury JF, Tseng, Y-T., and Waschek JA: A cloning strategy for G-protein coupled hormone receptors: The ovine beta 1-adrenergic receptor. *Reprod Fertil Dev* 7:521-5, 1995.
72. Stein HM, Martinez AM, Oyama K, Blount L, and Padbury JF: Effect of corticosteroids on free and sulfoconjugated catecholamines at birth in premature newborn sheep. *Am J Physiol* 268 (Endocrinol and Metab) E28-E32, 1995.
73. Padbury JF, Polk DH, Ervin MG, Berry LM, Ikegami M, and Jobe AH: Postnatal cardiovascular and metabolic responses to a single intramuscular dose of betamethasone in fetal sheep born prematurely by cesarian section. *Pediatr Res* 38:709-715, 1995.
74. Padbury JF, Tseng YT, and Waschek JA: Transcription initiation is localized to a tataless region in the ovine β 1 adrenergic receptor gene. *Biochem Biophys Res Comm* 211(1):254-261, 1995.
75. Tseng YT, Tucker, M.A., Kashiwai, K.T., Waschek JA and Padbury JF: Transcriptional regulation of β 1-adrenergic receptors by corticosteroids and thyroid hormone in fetal sheep. *Eur J Pharmacol (Mol Pharmacol Sect)* 289:353-359, 1995.

76. Bzoskie LA, Blount L, Kashiwai, K., Tseng YT, Hay, W.W. Jr., and Padbury JF: Placental Norepinephrine Clearance: In Vivo Measurement and Physiological Role. *Am J Physiol* 269 (Endocrinol Metab 32): E145-E149, 1995.
77. Tseng YT, Waschek JA, and Padbury JF: Functional analysis of the 5' flanking sequence in the ovine β_1 -adrenergic receptor gene. *Biochem Biophys Res Comm* 215:606-612, 1995.
78. Agata Y, Hiraishi S, Misawa H, et al including Padbury JF: Hemodynamic adaptation at birth and neonates delivered vaginally and by cesarean section. *Biol Neonate* 68(6):404-411, 1995.
79. Padbury JF, Ervin MG, and Polk DH: Extrapulmonary effects of antenatally administered steroids. *J Pediatr* 128:167-72, 1996.
80. Downs T, Padbury JF, Blount L, Kashiwai K, and Chan K: Ovine fetal-placental cocaine pharmacokinetics during continuous cocaine infusion. *J Soc Gynecol Invest* 3, 185-90, 1996
81. Jobe AH, Polk DH, Ervin MG, Padbury JF, Rebello CM, and Ikegami M: Preterm betamethasone treatment of fetal sheep: Outcome after term delivery. *J Soc Gynecol Invest* 3:250-8, 1996.
82. Ervin MG, Berry LM, Ikegami M, Jobe AH, Padbury JF, and Polk DH: Single dose fetal betamethasone administration stabilizes postnatal glomerular filtration rate and alters endocrine function in premature lambs. *Pediatr Res* 40:645-651, 1996.
83. Walther FJ, Mehta EI, Padbury JF: Lung CuZn-superoxide dismutase and catalase gene expression in premature rabbits treated intratracheally with antioxidant-surfactant liposomes. *Biochem Mol Med* 59, 169-173, 1996.
84. Bzoskie LA, Blount L, Kashiwai, K., Humme J, and Padbury JF: Placental norepinephrine transporter development in the ovine fetus. *Placenta* 18: 65-70, 1997.
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220. Tseng YT, Rojan A, Stabila JP, Wadhawan R, McGonnigal BG, Padbury JF: Ontogeny of the p70 ribosomal protein S6 kinase in the developing heart. FASEB 16:450.5, 2002.
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224. Rojan A, Stabila JP, McGonnigal BG, Wadhawan R, Tseng YT, Padbury JF: Ontogeny of p70 S6 kinase (p70S6K) and phosphoinositide 3-kinase (P13K) in the developing heart. Presented at the 10th Annual Hospital Research Celebration.
225. Kuzniar M, McGonnigal BG, Stabila JP, Tseng YT, Wadhawan R, Thompson N, Padbury JF: LAT-1 Expression in early embryonic development: Role in nutrient regulation and implantation. Presented at the 10th Annual Hospital Research Celebration.
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237. Sadowska GB, Ron NP, Padbury JF, Stonestreet BS: The effects of development and corticosteroid pretreatment on aquaporin water channels in the ovine cerebral cortex. *Pediatr Res* 55:431A, 2004.
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 253. Ianus VD, Mance M, Nye J, Clyman RI, Padbury JF. Ductus arteriosus re-opening rate among extremely premature infants. Presented at the 2006 PAS Annual meeting.
 254. Ianus VD, Yano N, Zhao T, Padbury JF, Tseng Y-T. Regulation of H9C2 cardiomyocyte proliferation involves a crosstalk between the β -adrenergic receptors (β AR) and PI3K via a G β /Src signaling pathway. Presented at the 2006 PAS Annual meeting.
 255. Lim Y-P, Opal SM, Padbury JF. Inter-alpha inhibitors in adult and neonatal sepsis: A potential application as an integrated clinical marker and therapeutic agent. Presented at the 29th Annual Conference on Shock, June 3-6, 2006.

256. Zhao TC, Tseng A, Stabila JP, McGonnigal BG, Yano N, Tseng Y-T, Davol P, Lum L, Padbury JF: The essential role of akt-1 hematopoietic stem cells in preserving myocardial function following myocardial infarction. Presented at the New England Conference on Perinatal Research, 2006.
257. Yano N, Zhao TC, Padbury JF, Tseng T-T: Angiotensin II-induced collagen synthesis of MES-13 mesangial cell: Involvement of a crosstalk between the Ang II subtype 1 receptor and phosphatidylinositol 3-kinase/AKT signaling pathway via epidermal growth factor receptor transaction. Presented at the New England Conference on Perinatal Research, 2006.
258. Fritzell JA, Mao Q, Aliotta J, Padbury JF, DePaepe M: Stem cell therapy for bronchopulmonary dysplasia. Presented at the New England Conference on Perinatal Research, 2006.
259. Murphy S, Padbury JF, Romero R, Sharma SS: IL-10 deficiency and inflammation link uterine NK cell-activation to preterm birth. Presented at the New England Conference on Perinatal Research, 2006.
260. Zhao TC, Tseng A, McGonnigal BG, Stabila JP, Yano N, Tseng Y-T, Davol P, Lum L, Lee RJ, Padbury JF: The role of akt-1 and hematopoietic stem cells in amelioration of myocardial function following myocardial infarction. Presented at the American Heart Association Scientific Sessions, Chicago, IL, November, 2006.
261. Haley S, Zhao TC, Zou L, Padbury JF, Kochilas L: Forced expression of the cell cycle inhibitor *p57^{KIP2}* in cardiomyocytes is protective from ischemia-reperfusion injury. Presented at the American Heart Association Scientific Sessions, Chicago, IL, November, 2006.
262. Tseng Y-T, Yano N, Ianus V, Tseng A, Zhao TC, Padbury JF: A novel signaling pathway for β -adrenergic receptor-mediated activation of PI3K in H9c2 cardiomyocytes. *FASEB J* 21 (6): 908.26, 2007.
263. Zhao TC, Tseng A, McGonnigal BG, Stabila JP, Yano N, Tseng Y-T, Davol P, Lum L, Padbury JF: The role of akt-1 and hematopoietic stem cells in amelioration of myocardial function following myocardial infarction. Presented at the 2007 Pediatric Academic Societies meeting.
264. Ianus V, Mance M, Nye J, Tucker R, Clyman R, Padbury JF: Rate and clinical predictors of ductus arteriosus re-opening in very low birthweight infants. Presented at the 2007 Pediatric Academic Societies meeting.
265. Haley S, Zhao TC, Zou L, Padbury JF, Kochilas L: Forced expression of the cell cycle inhibitor *p57^{KIP2}* in cardiomyocytes is protective from ischemia-reperfusion injury. Presented at the 2007 Pediatric Academic Societies meeting.
266. Jegatheesan P, Ianus V, Buchh B, Yoon G, Chorne N, Ewig A, Milstein J, Schreiber M,

- Padbury JF, Clyman R: Higher Indomethacin doses do NOT increase the rate of PDA closure but DO increase the rate of threshold ROP. Presented at the 2007 Pediatric Academic Societies meeting.
267. Y.-P. Lim, L. Zhang, E. Siryaporn, S.M.Opal, J.F. Padbury, D. Josic, D.C. Hixson. Plasma Derived Inter-Alpha Inhibitor Complex Proteins: A Novel Immunomodulator in Systemic Inflammation & Sepsis. Presented at The Fifth Plasma Product Biotechnology Meeting. Elba, Italy in May 8-12, 2007.
268. Padbury JF, Verspyck J: Designing for family-centered care in the Newborn Intensive Care Unit: Designing for the future. American Institute of Architects Academy Journal, Nov. 1, 2007.
268. Padbury JF, Bauer J, Robertson D: Chromatin remodeling as a mechanism for placental gene programming. Presented at the International Federation of Placenta Association Annual Meeting, 2007.
269. Padbury JF, Hansson SR, Centlow M: Profiling high risk pregnancies in search for preeclampsia associated genes. Presented at the International Federation of Placenta Association Annual Meeting, 2007.
270. Padbury JF, Chrostowski M, McGonnigal BG: LAT-1 expression in placental invasion and development. Presented at the International Federation of Placenta Association Annual Meeting, 2007.
271. Fritzell JA, Mao Q, Gundavarapu S, Padbury JF, DePaepe M: The fate of adult marrow cells in normoxic and hyperoxic newborn murine lungs. Presented at the New England Conference on Perinatal Research, 2007.
272. Mercer JS, Erickson-Owens D, Vohr BR, Oh W, Padbury JF: Seven-month outcomes of infants enrolled in a randomized controlled trial of delayed versus immediate cord clamping. Presented at the New England Conference on Perinatal Research, 2007.
273. Zhao TC, Cheng G, Zhang L, Tseng A, Tseng YT, Yano N, Shannon R, Padbury JF: Inhibition of histone deacetylases triggers delayed pharmacologic preconditioning effects against myocardial ischemic injury. Presented at the American Heart Association, 2007.
274. Lester B, Sullivan M, Bigsby R, Laptook A, Padbury J, Van Middlesworth VV: Design & evaluation of a single family NICU. Presented at the 21st Annual Gravens Conference on the Physical and Developmental Environment of the High Risk Infant, 2008.
275. Ponder K, McGonnigal BG, Bauer J, Laliberte A, Stroud L, Salisbury A, Padbury JF: Effects of Maternal Depression or SSRI Use on Placental SERT, NET and 11 β -HSD-2 Gene Expression. Presented at the Eastern Society for Pediatric Research meeting, March, 2008.
276. Yano N, Zhao TC, Tseng A, Padbury JF, Tseng YT: Conditional Overexpression of Cardiac-Specific PI3K α Improves Basal Myocardial Function. FASEB J 22:966.6, 2008.

277. Tseng YT, Yano N, Zhao TC, Tseng A, Padbury JF: The Beneficial Effects of Overexpressing Cardiac PI3K α – Lessons from a Novel Transgenic Animal Model. E-PAS 2008:3425.9.
278. Chaaban H, Singh K, Lam J, Siryaporn E, Lim YP, Padbury JF: The Role of Inter-alpha Inhibitor Protein in the Diagnosis of Neonatal Sepsis. E-PAS 2008:3540.2.
279. Chaaban H, Singh K, Padbury JF, Lam J, Siryaporn and Lim YP: Clinical Evaluation of Assay Specificity and Sensitivity of Inter-alpha Inhibitors in the Diagnosis of Neonatal Sepsis. Shock. 29(7) Suppl 1:1-120, June 2008.
280. Chaaban H, Lam J, Siryaporn E., Lim YP, Padbury JF: Inter Alpha Inhibitor Protein Levels in Neonates with Necrotizing Enterocolitis. Presented at the New England Conference on Perinatal Research, 2008.
281. Bender GJ, Rubin LP, McCourt, Alskinis B, Heber W, Etheridge D, Peipert J, Padbury JF: Neonatal Intensive Care Unit: Predictive Models for Length of Stay. Presented at the New England Conference on Perinatal Research, 2008.
282. Mercer J, Erickson-Owens D, Macksoud E, Tucker R, Padbury JF: Effects of Timing and Amount of First Transfusions on Neonatal, 7 month and 18 month Outcomes of ELBW Infants: A Pilot Study. Presented at the Count for the Advancement of Nursing Science, October 3, 2008.
283. Yarborough EK, McGonnigal BG, Padbury JF: Placental Gene Expression in Intrauterine Drug and Nicotine Exposure. Presented at the Annual Biomedical Research Conference for Minority Students (ABRCMS), November, 2008.
284. Chaaban H, Chin M, Siryaporn, Lim Y-P, Padbury JF: Inter-Alpha Inhibitor Protein Levels in Neonates with Necrotizing Enterocolitis. E-PAS 2009:4350.757.

INVITED PRESENTATIONS - 1993-present

1. Visiting Professor: Pediatric Grand Rounds, 2/93. University of Michigan. Title: “New Approaches to Hormonal Control of Fetal Maturation.”
2. Invited Speaker: 18th Annual Care of the Sick Newborn, Memorial Medical Center of Long Beach, CA, and University of California, Irvine, 4/93. Titles: “Combined Hormonal Therapy and RDS” and “Pharmacology of Inotropic Drugs”
3. Invited Speaker, Gordon Conference, 5/93, New Hampshire. Title: “Unique Aspects Fetal/Neonatal Catecholamine Turnover”
4. Invited Speaker, Annual Joint Medicine and Pediatrics Conference, 8/93. Southern California Kaiser Permanente, Bellflower, CA. Title: “Clinical Pharmacology of Isotropic Drugs”

5. Perinatology/Neonatology Conference, University of Southern California, 10/93. Title: "Update on Clinical Pharmacology of Adrenergic Agents in Neonates"
6. Visiting Professor, Grand Rounds, Brown University, 3/94. Title: "New Approaches to Fetal Maturation"
7. OB/Gyn Grand Rounds, Cedars Sinai Medical Center, Beverly Hills, CA, 6/94. Title: "New Approaches to Fetal Maturation"
8. Invited Speaker, Society for Study of Fetal Physiology, Cairns, Australia, 8/94. Title: "Placental Norepinephrine Transporter: In Vivo Measurement and Physiological Role"
9. Invited Speaker, Thorburn Symposium, Hamilton Island, Australia, 8/94. Title "Cloning and Sequence Analysis of Ovine B1 Adrenergic Receptor and 5' Flanking Sequence"
10. Interviewed Guest for cable program, Health Research, 10/94. Title: "Advances in Fetal Research"
11. Keynote Speaker, 21st Annual New England Conference on Perinatal Research, Chatham Bars, MA, 10/95. Title: "Placental Transporters: Cloning and Significance"
12. Invited Speaker, Mead Johnson Community Neonatology Conference, Chatham Bars, MA, 10/95. Title: "Novel Uses of Surfactant"
13. Guest Speaker, March of Dimes Walk America Corporate Breakfast, Providence, RI, 1/96. Title: "Mission of the March of Dimes: Why We Walk"
14. Keynote Speaker, New England Perinatal Society Annual Meeting, Woodstock, Vermont, 3/96. Title: "A Novel Placental Norepinephrine Transporter is the Site of Action in Cocaine"
15. Invited Speaker, High Risk Mother and Fetus, Anesthetic and Obstetric Management 1996 Conference, Providence, RI, 4/96. Title: "Adaptation of the Newborn: Physiologic and Clinical Aspects"
16. Invited Speaker, Current Concepts in Fetal and Neonatal Care, Newport, RI, 5/96. Title: "New Strategies for Fetal Maturation"
17. Invited Speaker, 5th Congress of the European Society for Developmental Pharmacology, Pécs, Hungary, 5/96. Title: "Clinical Pharmacology of Adrenergic Agents in the Newborn and Pediatric Patients with Particular Reference to the Septic Shock Syndrome"
18. Invited Speaker, Neonatology/Pediatric Conference, Charlton Memorial Hospital, 11/96. Title: "Recent Advances in Respiratory Distress Syndrome"

19. Invited Speaker, Obstetrics & Gynecology Lecture, Charlton Memorial Hospital, 4/97. Title: "New Strategies for Fetal Maturation"
20. Invited Speaker, Wake Forest University, Bowman Gray School of Medicine, 3/98. Title: "Developmental Biology and Transcriptional Regulation of the β 1 Adrenergic Receptor"
21. Invited Speaker: University of Toronto, Department of Molecular Medicine & Medical Genetics, Toronto, Canada, 4/98. Title: "Developmental Biology and Transcriptional Regulation of the β 1 Adrenergic Receptor"
22. Invited Speaker: Symposium on Women's Health Issues, Newport, RI 5/98. Title: "Mothers and Babies: High Tech to Warm Touch -- Improving Outcomes for High Risk Mothers and Infants."
23. Invited Speaker: The 5th Congress of the Latin American Society for Perinatal Medicine, Santo Domingo, Dominican Republic, 8/98. Titles: "Site of Action of Cocaine on the Fetus: Clinical and Molecular Biology", "Nitric Oxide and Respiratory Failure in the Newborn", "Prenatal Steroids: Lessons from Animal and Human Studies"
24. Invited Speaker: NICHD-Sponsored Special Session at the Annual Fetal and Neonatal Physiological Society entitled "Prenatal Influences on Early Postnatal Life," Lake Arrowhead, CA, 9/98. Titles: "Multiple-Dose Glucocorticoids in Ovine Pregnancy: Effects on the Fetus and Newborn", "Glucocorticoid Response Element (GRE) Characterization in the Ovine β 1 Adrenergic Receptor (β 1AR) Gene Promoter"
25. Invited Speaker: Jerry Elliott Memorial Lecture, sponsored by Mead Johnson Nutritionals, at the South Central Conference on Perinatal Research, Austin, TX, 10/98. Title: "Developmental Biology and Transcriptional Regulation of the Ovine β 1 Adrenergic Receptor".
26. Chair, Third Annual American Academy of Pediatrics District I Perinatal Pediatrics Program, "Advances in Neonatology: Science, Money and Law," Worcester, MA, 11/98.
27. Invited Speaker: Annual Meeting of the National Perinatal Association, Providence, RI, 11/98. Title: "Integrated Neonatal Home Care of the High Risk Newborn"
28. Invited Speaker: Neuroscience and Behavior Program Seminar, University of Massachusetts, Amherst, MA, 12/98. Title: "Placental biogenic Amine Transporters: Cloning, Regulation and Physiological Significance"
29. Chair, Poster Symposium, Annual Meeting of the New England Perinatal Society, Woodstock, VT, 3/99
30. Guest Faculty, Annual Meeting of the Rhode Island Society for Respiratory Care, Newport, RI, 3/99. Title: "Expanded Clinical Applications of Surfactant in the Newborn"

31. Invited Speaker, Perinatal Conference at Cape Cod Hospital, Hyannis, MA 9/99. Title: "Surfactant Therapy in the Newborn: No Longer Just for Respiratory Distress Syndrome"
32. Co-Chair, 25th Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/99
33. Keynote Presenter, Meeting of the Brown University School of Medicine Corporation Committee on Biomedical Affairs, Providence, RI 12/99. Title: "Science and Medicine in the 21st Century: What Does It Mean for Brown"
34. Invited Speaker, Annual Meeting, Rhode Island Academy of Family Physicians "Primary Care Update," Newport, RI, 4/1/00. Title: "The Unusual Newborn Exam: Needle in the Haystack or Fly in the Ointment"
35. Invited Speaker, Genetic Influences on Human Behavior Development Conference, Brown University, Providence, RI, 4/00. Title: "Biogenic Amine Transporters: Behavior, Regulation and Genetics"
36. Invited Speaker, Mead Johnson Nutritionals Perinatal & Developmental Medicine Symposium, Aspen, CO, 6/00. Titles: "Physiological Adjustments during the Transition to Postnatal Life", "Developmental Biology and Transcriptional Regulation of Adrenergic Receptors"
37. Invited Speaker, Consensus Development Conference on Antenatal Corticosteroids Revisited: Repeat Course, National Institutes of Health, Bethesda, MD, 8/00. Title: "Glucocorticoids and Normal Development"
38. Co-Chair, 26th Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/00
39. Invited Speaker, Pediatric Grand Rounds, Landmark Medical Center, Woonsocket, RI 12/00. Title: Micropremature Infants"
40. Invited Speaker, Newborn Medicine Conference at Children's Hospital, Boston, MA 2/01. Title: "Developmental Regulation of the Beta₁ Adrenergic Receptor"
41. Invited Speaker, Brown University Molecular & Cell Biology Faculty Retreat, Bristol, RI 8/01. Title: "Transcriptional Regulation and Developmental Biology of the β -Adrenergic Receptor"
42. Invited Speaker, Sturdy Memorial Hospital, Attleboro, MA 10/01. Title: "Micro-Premies in the New Century: Care and Improving Outcomes"
43. Co-Chair, 27th Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/01

44. Invited Speaker, Faculty Forums of the Brown University Presidential Inauguration, Providence, RI 10/01. Title: "Becoming Human"
45. Invited Speaker, Division of Neonatology, University of New Mexico School of Medicine, Albuquerque 2/02. Title: "Transcriptional Regulation and Development Biology of the Beta₁ Adrenergic Receptor"
46. Invited Speaker, 2002 Cincinnati Nearest, Cincinnati Children's Hospital Medical Center, 3/02. Title: "Importance of Catecholamines to the Newborn"
47. Invited Speaker, Congress on Beta Agonists, Miami, FL 4/02. Title: "Molecular Interactions Between Glucocorticoid and Catecholamine Signaling Pathways"
48. Invited Speaker, Pediatric Grand Rounds, Medical University of South Carolina, 4/02. Title: "Beta 1 Adrenergic Receptor: Expression, Regulation and Role in Cardiac Development"
49. Member, Program Committee for the American Pediatric Society at the Annual Meeting of Pediatric Academic Societies, Baltimore, MD 5/02.
50. Chair, State of the Art Session entitled Pharmacogenomics: Clinical and Therapeutic Implications at the Annual Meeting of Pediatric Academic Societies, Baltimore, MD 5/02
51. Guest Lecturer, Conference on Cardiovascular Disorders in the Newborn and Infant, Benediktbeuren, Germany 7/02. Titles: "Hemodynamic and Physiologic Adaptation at Birth", "Clinical Pharmacology of Adrenergics", "Cardiovascular and Metabolic Responses to Glucocorticoids in Low Birthweight Infants"
52. Co-Chair, 28th Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/02
53. Invited Speaker, A Baby's Breath....Clinical Challenges Conference, Providence, RI 10/02. Title: "High Frequency Ventilation"
54. Invited Speaker, Brown University Corporation Committee on Biomedical Affairs, Providence, RI 10/02. Title: "The New Biology Versus the New Medicine"
55. Invited Speaker, The 1st Brown-Linköping Conference on Basic and Clinical Aspects of Reproductive Immunology, Providence, RI 11/02. Title: "Placental Neurotransmitter Transporter Proteins and Integration of Placental Neuroendocrine Functions"
56. Guest Faculty, Biomedical Research Day, Brown University, 4/03. Title: "Developmental Biology of the Beta 1 Adrenergic Receptor or A Corollary to Sutton's Law"
57. Member, Program Committee for the American Pediatric Society at the Annual Meeting of Pediatric Academic Societies, Seattle, WA 5/03

58. Invited Speaker, Pediatric Grand Rounds, Sturdy Memorial Hospital, Attleboro, MA 6/03. Title: "Stabilization of the Newborn in Distress"
59. Invited Speaker, "From Fertilization to Fetal Development: Diagnostic and Therapeutic Challenges" ASRI Pre-Congress Symposium, Yale University, New Haven, CT 6/03. Title: "Embryogenesis: Developmental Biology Perspective."
60. Co-Chair, 29th Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/03.
61. Invited Speaker, NICHD Colloquia, and Scientific Issues in Implementing Best Pharmaceuticals for Children Act (BPCA), Washington, DC, 11/03. Title: Neonatal Pharmacokinetics and Pharmacodynamics of Dobutamine and Dopamine."
62. Moderator, Placental Biology Post Symposia, Pediatric Academic Societies Meeting, San Francisco, CA 5/2004.
60. Guest Speaker, March of Dimes "Citizen of the Year Celebration" honoring Benjamin P. Harris, III, Portsmouth, RI, 06/04. Title: "March of Dimes NICU Family Support Project"
61. Invited Speaker, COBRE Research Seminar to the Roger Williams Medical Center COBRE for Stem Cell Biology, Providence, RI 8/04. Title: The Beta1 Adrenergic Receptor: Gene Expression, Regulation, Cardiac Growth and Regeneration"
62. Invited Speaker, New York Medical College/Westchester Medical Center, Valhalla, NY 9/04: Titles: Clinical Pharmacology of Adrenergic Agents" and "Developmental Regulation and Role of Beta1 Adrenergic Receptors."
63. Co-Chair, 30th Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/04.
64. Guest Speaker, 28th Annual International Conference, Neonatology 2004", University of Miami School of Medicine, 11/04: Titles: Millennium Neonatology in the Post Genome Era" and "Pharmacology of Adrenergic Agents in the Newborn."
65. Invited Speaker, Charlton Memorial Hospital Neonatology Rounds, Fall River MA, 01/05. He and Dr. Betty Vohr presented: "Borderline Viability in Premies."
66. Invited Speaker, Eastern Society for Pediatric Research Annual Meeting, Old Greenwich, CT, 3/05: Open Discussion at "Meet the Professors Luncheon."
67. Guest Faculty, XIX Nordic Congress of Perinatal Medicine, Lund, Sweden, 5/05: Title: Placental Transport and Regulation of the Fetal Neuroendocrine Environment.
68. Invited Speaker, Brown University Commencement Weekend, Providence RI, 5/05: Title: Millennium Neonatology: Merging Care and Science in the Post Genome Era."

69. Invited Speaker, 32nd Annual Fetal and Neonatal Physiological Society Meeting, Adelaide, South Australia 9/05: Titles: “Armed Stem Cells Delivered to Injured Myocardium Restore Function and Assume Elements of the Gen Program Regulating Fetal-Neonatal Cardiomyocyte Proliferation,” Role of Beta1-Adrenergic Receptor (β 1AR) Pi3K/p70S6k Signaling in the Regulation of Neonatal Cardiomyocyte Proliferation” and Activation of H9C2 Cell Proliferation by β -Adrenergic Receptors (AR) is via Involvement of Pi3K Signaling Pathway”
70. Co-Chair, 31st Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/05.
71. Visiting Professor, COBRE Delaware – Center for Pediatric Research, Wilmington, 10/05 Title: The β 1-Adrenergic Receptor: Gene Expression, Regulation, Cardiac Growth and Regeneration”
73. Visiting Professor, Children’s Hospital of Pittsburgh, 11/05 Title: The β 1-Adrenergic Receptor: Gene Expression, Regulation, Cardiac Growth and Regeneration”
74. State of the Art Lecturer, 22nd Annual Interdisciplinary Neonatal Nutrition and Gastroenterology Symposium, Key Biscayne, FL, 12/05 Title: “Nutrigenomics” Nutrient Regulation of Gene Expression.”
75. Invited Speaker, Cardiovascular Science and Technology Research Retreat, Brown University, Providence, RI, 1/06 Title: The Beta-1 Adrenergic Receptor: Expression, Regulation, Cardiac Growth and Regeneration.”
76. Co-Chair, 1st Annual Pediatric Neonatal GI Summit, Providence, RI, March 2006.
77. Invited Speaker, 12th International Federation of Placenta Associations, Kobe, Japan, 9/06 Title: "Placental programming and intrauterine stress."
78. Co-Chair, 32nd Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/06.
79. Co-Chair, 2nd Annual Pediatric Neonatal GI Summit, Providence, RI, March 2007.
80. Program Chair, COBRE/InBRE Symposium “Development, Cancer and Regenerative Medicine, Providence, RI 5/07.
81. Invited Speaker, Design & Health 5th World Congress and Exhibition, Glasgow, Scotland, 06/07 Title: “Neonatal Medical Evidence and Design Implementations.”
82. Invited Speaker, 13th Annual Meeting of the International Federation of Placenta Associations, Toronto, Canada, 08/07. Title: “Chromatin Remodeling as a Mechanism for Placental Gene Programming.”

83. Co-Chair, 33rd Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/07.
84. Visiting Professor, Washington University School of Medicine at St. Louis Children's Hospital, St. Louis, MO, 11/07. Title: Beta-Adrenergic Receptors, Cardiac Growth and Regeneration of What's a Developmentalist doing with Stem Cells in the Adult Heart?"
85. Invited Speaker, Fifth International Symposium on Genetics, Health and Disease, Guru Nanak Dev University, Amritsar, India, 2/08. Titles: Epigenetics: Fetal Programming & the Origins of Adult Disease" and "How to Fix a Broken Heart."
86. Invited Speaker, National Association of Children's Hospitals and Related Institutions (NACHRI) and National Association of Children's Hospitals (NACH) Creating Connections Conference, Miami, FL, March 18-19, 2008. Title: Neonatal Medical Evidence and Design Implementation."
87. Co-Chair, 3rd Annual Pediatric Neonatal GI Summit, Providence, RI, March 2008.
88. Keynote Speaker, Nemours Biomedical Research Center 4th Annual COBRE Retreat, September 15-16, 2008. Title: "COBRE Type 1 to Type 2 Transition: Do's and Don't Dos"
89. Co-Chair, 34th Annual Meeting of the New England Conference on Perinatal Research, Chatham, MA 10/08
90. Co-Chair, 3rd Annual Pediatric Neonatal GI Summit, Providence, RI, March 2009

RESEARCH GRANTS

Principal Investigator - USPHS NICHD 1 R01 HD 18014. Catecholamine Physiology and Newborn Adaptation. 8/84-7/87

Principal Investigator - March of Dimes Birth Defects Foundation, Basil O'Connor Research Grant - 9/84-6/87

Principal Investigator - USPHS NICHD 1 R01 HD 22003. Opiate Peptides in Fetal Sheep: Ontogeny & Physiology - 7/87-6/90

Principal Investigator - USPHS NICHD 2 R01 HD 18014. Catecholamine Physiology and Newborn Adaptation - 8/85-7/92

Principal Investigator/Group Leader - American Heart Association Investigative Group Fellowship - 4/88-4/94

Principal Investigator - Eli Lilly Inc. - Dobutamine Pharmacokinetics and Cardiovascular Responses in Neonates - 7/88

Co-Investigator - 1 P50HD29713 Perinatal Emphasis Research Center - New Strategies for Fetal Maturation. Principal Investigator - Subproject Neuroendocrine Maturation - 4/93 - 4/98

Principal Investigator - USPHS NIDA 1 RO1 DA 07753, Neurochemical Effects of Cocaine in Fetal Sheep - 7/93-7/96

Co-Investigator - R10-HL 52635-01 Fetal Maturation of the Baboon - 7/94-6/99

Program Director - 2 PO1 HD11343 Program Project Grant - The Biological Basis for Perinatal Transition. Principal Investigator - Subproject III, Developmental Regulation of the β 1 Adrenergic Receptor Gene - 7/96-6/03

Co-Investigator - Hormonal Regulation of Brain Maturation (Principal Investigator - Barbara S. Stonestreet, M.D.) - 7/97-6/01

Program Director - Perinatal Biology Training Grant 5T32HD007511-05 - 7/99-6/04

Co-Principal Investigator - 1R01HD041701 - Polymorphisms in IL-10 Locus Predispose to Preterm Birth (Principal Investigator - Surendra Sharma, Ph.D.) - 9/01/02-8/31/07 - \$1,027,975. This grant deals with the pathophysiology of preterm labor with a focus on dysregulation of IL-10 and polymorphic changes in the IL-10 gene locus.

Project Director - PL107-116 E1 C76 HF-00362-01 "Kilguss Research Institute" 6/11/02 - \$984,488

Mentor – Howard Hughes Medical Institute, Student Fellowship – Leela Davies. The Transcriptional Regulation of the Norepinephrine Transporter. 2003-2004, \$15,000.

Collaborator - 2R44GM065667-02 – Therapeutic Use of Inter-Alpha Inhibitors in Sepsis (Principal Investigator: Yow-Pin Lim, M.D., Ph.D.) - 3/01/04-2/28/05 - \$517,546 This grant deals with the pathogenesis of neonatal sepsis, the reliability of Inter-Alpha Inhibitors as diagnostic markers for sepsis and the role of Inter-Alpha Inhibitors in therapy of neonatal sepsis.

Program Director - 1P20 RR018728-01 - Center of Biomedical Research Excellence (*COBRE*) 10/01/03-9/30/08 - \$1,601,148. This is a Center of Biomedical Research Excellence (*COBRE*) award devoted to interdisciplinary research training for junior faculty in cardiopulmonary signaling and developmental biology.

Co-Investigator - NIH-NICHD 1R21HD047600-01 Inter-alpha-inhibitors in Neonatal Sepsis (Principal Investigator: Yow-Pin Lim, MD, PhD). 01/01/04-12/30/06 \$253,000 Primary goal is to demonstrate the feasibility of Inter-alpha inhibitors as potential therapeutic agents in neonatal sepsis.

Co-Investigator – American Diabetes Association – Immune Programming of Gestational Diabetes (Principal Investigator: Surendra Sharma, PhD) 01/01/04-12/31/07) \$100,000/yr

To examine the mechanisms for dysregulation of placental function in diabetic pregnancies with an emphasis on the immune system activation, altered signal transduction and placental apoptosis and altered gene expression in chorionic villous tissue from gestational diabetic and normal pregnancies.

Collaborator – NIH/NINDS/ R01 NS049479 Role of the BBB and Choroid Plexus in VP-mediated Edema (Principal Investigator: Adam Chodobski, PhD) 06/01/05-05/30/09 \$387,870

The primary goal of this study is transcriptional regulation of the vasopressin receptor V1a in the central nervous system

Co-Investigator - NIDA R01 DA019558-02 Prenatal Smoking, Fetal Behavior and Infant Withdrawal (Principal Investigator: Laura Stroud, PhD) 06/01/05-05/31/10 \$605,110

This project involves an intensive examination of effects of prenatal smoking on fetal and infant neurobehavior and neuroendocrine functioning (cortisol reactivity).

Specifically, we investigate whether infants of mothers who smoke during pregnancy show neurobehavioral and cortisol responses consistent with an abstinence syndrome.

Co-Principal Investigator – NIMH R01 MH079153-01A1 Maternal Depression Placental HPA Regulation & Fetal-Neonatal Stress Response (Principal Investigator: Laura Stroud, PhD) 09/01/07 – 08/31/12 \$648,113

This project seeks to characterize effects of maternal depression during pregnancy on fetal and neonatal stress response and neurobehavior and to test the hypothesis that maternal depression influences fetal/neonatal stress response via alterations in maternal cortisol and downregulation of placental expression of NET and 11 β HSD2.

Program Director - 1P20 RR018728-01 - Center of Biomedical Research Excellence (*COBRE*) 08/01/08-9/30/13 - \$1,601,148. This is a Center of Biomedical Research Excellence (*COBRE*) award devoted to interdisciplinary research training for junior faculty in cardiopulmonary signaling and developmental biology.

Principal Investigator – National Foundation March of Dimes #21-FY08-563 – Preterm Birth: A Novel Bioinformatics and Genomics Approach. 03/01/2009-02/28/2012 \$300,882

This project will employ a *Pathway Analysis* approach to find the most frequent and most statistically significantly enriched pathways in this set of genes and proteins which will be curated in the KEGG Ontology Based Annotation System (KOBAS). Once candidate genes in the Pathway are defined, we will identify the Minimally Informative Marker Set of SNPs and haplotype blocks that will be used to determine the association of the single nucleotide polymorphisms in genes identified associated with preterm delivery in a case-controlled study of patients experiencing preterm delivery.

UNIVERSITY THESIS COMMITTEE SERVICE

Graduate Program in Molecular & Cell Biology Advisor:

Thomas Bush, Committee Chair, Graduation, PhD 2002

Ekaterina Voronina, Committee Member, Graduation, PhD 2003

Jennifer Sanders, Committee Member, Graduation, PhD 2005

Graduate Program in Molecular Pharmacology and Physiology Advisor:
Cindy Park, Committee Member, thesis preparation ongoing

Graduate Program in Pathobiology Thesis/Research Advisor:
Magdalena Chrostowski, PhD Graduation, PhD 2009
Ashley Smith, PhD candidate, rotation advisor

Graduate Program in Pathobiology Advisor:
Shaun Murphy, Committee Member, Graduation, PhD 2006
Rhonda Simper, Committee Chair, Graduation, PhD 2006
Rebecca Rozich, Committee Chair, Graduation, PhD 2006
Stephanie Beall, Committee Member, Graduation, MD- PhD 2006
Jade Carter, Committee Member, Graduation, PhD 2008
Jessica Thaxton, Committee Member, Graduation, PhD 2009
Bonnie Lau, Committee Chair, Graduation, PhD 2008
Matthew Maccani, Committee Member, PhD candidate, thesis preparation ongoing

Masters in Medical Science Thesis/Research Advisor:
Kathy Ponder, MS thesis preparation ongoing

Masters Thesis Committee Member:
Rachel D. Rogers, Graduation, MS 2008
Babatunde Olgun, Graduation, MS 2008

UNIVERSITY/HOSPITAL TEACHING ROLES

1980-94	M-201	Sophomore Medical Student: Physical Diagnosis
1980-94	PE-013	Pediatric Clerkship (Jr. Medical Student Rotation)
1980-94	PE-308	Adv. Clinical Clerkship (Sr. Medical Student Externship)
1980-94	PE-311	Neonatology-Perinatology (Sr. Medical Student Externship)
1980-94	PE-317	Neonatal Management (Sr. Medical Student Externship)

Neonatal Intensive Care Unit Attending; 3 months/year
Intermediate Newborn Intensive Care Attending; 1 month/year
Organizer Annual Neonatal Resuscitation Workshop Advanced Neonatal Life Support; 1980-1994.
Pediatric Grand Rounds. Harbor-UCLA: annually.
Research Seminar - Developmental Biology Group - UCLA "Neuroendocrine Maturation of the Fetus." 6/17/93

Pediatric Grand Rounds. UCLA: annually.
 Perinatal Biology Seminar. Harbor-UCLA: tri-annually.
 OB-Gyn Residents Conference. Harbor-UCLA: bi-annually.
 Anesthesia Grand Rounds. Harbor-UCLA: annually.
 Critical Care Nurses Course. Harbor-UCLA: annually.
 Pediatric Residents Conference on Circumcision: annually.
 Pediatric Grand Rounds, Rhode Island Hospital, annually
 Pediatric Research Colloquium, Women & Infants' Hospital, annually
 Perinatal Biology Seminar, Women & Infants' Hospital, annually
 Research Journal Club, Rhode Island Hospital, annually
 Perinatal Management Conference, Women & Infants' Hospital, bi-annually
 Perinatal Outreach Seminar, Pawtucket Memorial Hospital, 10/95
 Neonatal Core Pathophysiology Lecture, Women & Infants' Hospital, bi-annually
 BioMed 195/196, (Research Honors Course in a laboratory setting to undergraduate students)
 Sumona Saha 1997-98
 Gordon Li 1998-99
 Risha Kopel 1999-00
 Adam Rojan 2000-01
 Leela Davies 2003-2005
 Jennifer Bauer 2005-2006
 Kathryn Ponder 2006-2007
 Rosalind Bogan 2007-2008
 Molecular & Cell Biology Journal Club, Brown University, 1/96
 Pathobiology Seminar, Brown University, annually
 Perinatal Management Conference, Brockton Hospital, 6/96
 Program in Molecular, Cell Biology & Biochemistry Lecture, Brown University, 12/97
 NE 102, Neuroscience Course to medical students, Brown University, bi-annually
 Neonatal-Perinatal Clerkship course to medical students, Brown University, bi-annually
 Introduction to Clinical Medicine course to medical students, Brown University, annually
 Neuroscience Lecture, Brown University, 4/98, 12/98
 Obstetric Medicine Weekly Conference, Women & Infants Hospital, 10/98
 Multidisciplinary Antenatal Diagnosis & Management Conference, Women & Infants Hospital,
 annually
 Pediatric Resident Teaching Conference, Hasbro Children's Hospital, annually
 Maternal-Fetal Medicine Fellows' Lecture Series, annually
 Neonatal Fellows Lecture Series, annually
 Obstetric & Gynecology Grand Rounds, Women & Infants Hospital, 6/99, 1002, 6/04, 6/06
 Department of Pathology Teaching and Research Rounds, Brown University, 4/00
 Department of Molecular Pharmacology, Physiology & Biotechnology Seminar, Brown
 University, 4/00
 Bio 285, Introduction to Pathobiology Faculty Research, 10/00, 10/01, 12/04
 Molecular & Cell Biology Data Club, 1/02
 BioMed 232, The Biology of Reproduction, 2/02
 Faculty Development Workshop, 3/02
 Biomedical Research Day Keynote Speaker, 4/03
 BioMed 203, Advanced Cellular Neurobiology, 10/04
 Panel Discussant, Brown University Faculty Development Workshop "Developing your
 Research/Academic Career, 3/04

Panel Discussant, “Whole Physicians Program” for PLME Students, 4/04
Research Rounds, Department of Pathology and Laboratory Medicine, “Transcriptional Regulation of the Beta 1 Adrenergic Receptor and its Function in the Adult Heart” 4/04
BioMed 117, Histology and Physiology of Cells, Tissues and Organ Systems, 9/04.
BioMed 285, Introduction to Research in Pathobiology, annually
Lifespan Cardiology Conference, “Cardiac Regeneration with Bone Marrow-Derived Stem Cells: New Strategies and New Insights” 1/05
BioMed 572, Introduction to Fetal Medicine, annually
Predoctoral Trainer, Department of Medical Pharmacology, Physiology and Biotechnology
Molecular Cardiology Research Program Retreat, “The Beta₁-Adrenergic Receptor: Expression, Regulation, Cardiac Growth and Regeneration” 1/06
BIRCWH Program Pathobiology Core Curriculum, 11/06 & 12/06
Faculty Mentor, Brown University Leadership Alliance Summer Research Early Identification Program: Dominique Robertson, 2006; Erin Yarborough, 2008; Deaira Berry 2009
Brown University Faculty Development Workshop “Evaluating Mentor Success: Tales from the Trenches” 04/07
Cardiovascular Research Center Data Club presentation “Regulation, Cardiac Growth and Regeneration,” 07/07
Cardiology Fellows lecture, Beta-adrenergic Receptors, Cardiac Growth and Regeneration or What’s a Developmentalist doing with Stem Cells in the Adult Heart,” 01/08
Pediatric Fellows Leadership Core Curriculum, “Translational Research” 08/08, 9/09