

1. PERSONAL INFORMATION

Mark Stephen Wainwright M.D., Ph.D

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Citizenship: UK (US Permanent Resident)

Social Security Number: 324-XX-XXXX

Place of birth: Liverpool, United Kingdom

Marital status: Married, two children

2. EDUCATION

September 1982	University of London	B.A. (Hons)	Philosophy & German
June 1994	University of Chicago	Ph.D	Neuropharmacology

3. GRADUATE MEDICAL EDUCATION

June 1995	University of Chicago, Pritzker	Medicine
June 1995 - June 1996	University of North Carolina	Intern (Pediatrics)
July 1996 - June 2000	Duke University Medical Center	Fellow (Child Neurology)

4. POSTDOCTORAL RESEARCH TRAINING

July 1999-June 2000	Duke University	Fellow	Neuroanesthesia Research (Laboratory of Multidisciplinary Neuroprotection. PI, David Warner MD)
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5. BOARD CERTIFICATION and MEDICAL LICENSURE

State of Illinois License No. 036-111633
Neurology with special qualification in Child Neurology: Board Eligible

6. MILITARY SERVICE N/A

7. FACULTY APPOINTMENTS

Sept 2007 Associate Professor Department of Pediatrics, Northwestern University

July 2000 – Sept 2007 Assistant Professor Feinberg School of Medicine, Department of Pediatrics
 July 2003 Assistant Professor Feinberg School of Medicine
 Molecular Pharmacology and Biologic Chemistry

8. HOSPITAL APPOINTMENTS

2004 – present Attending Physician, Children’s Memorial Hospital, Division of Neurology.
 2005 – present Director, Pediatric Critical Care Neurology Service, Children’s Memorial Hospital.
 2007 – present Director, Center for Interdisciplinary Research in Pediatric Critical Illness and Injury

9. ADMINISTRATIVE APPOINTMENTS

2006 Physician Leader, Guidelines for the management of status epilepticus, Children’s Memorial Hospital
 2005 Physician Leader, Pre-operative assessment of neurologic disorders, Children’s Memorial Hospital

10. COMMITTEE SERVICE

2008 Reviewer, Northwestern University Clinical and Translational Sciences Institute, Pilot Grant Program
 2004 – present *Institutional Review Board*: Children’s Memorial Hospital
 2004 – 2005 Animal MRI working committee, Feinberg School of Medicine
 2004 – present Resident selection committee, Division of Child Neurology
 2003 – present Northwestern University Center for Drug Discovery and Chemical Biology
Steering Committee Member
 2003 – present Faculty interviewer for Northwestern University Integrated Graduate Program
 2003 Pediatric Fellowship Task Force, Children’s Memorial Hospital
 2002 – present Reviewer, Northwestern University Medical Student Summer Research Program

11. AWARDS, HONORS, DISTINCTIONS

2008 Department of Pediatrics Faculty Award for outstanding contributions to Research, Education and Clinical Service
 2008 Nominated for Northwestern University Feinberg School of Medicine, Medical Faculty Senate Council Mentor of the Year Award
 2007 Bernard L Mirkin Research Chair, Department of Pediatrics
 2007 Department of Pediatrics Faculty Award for outstanding contributions to Research, Education and Clinical Service
 2006 Department of Pediatrics Faculty Award for outstanding contributions to Research, Education and Clinical Service
 2005 Dept of Pediatrics Faculty Award for contributions to research
 2004 Searle Faculty Teaching Fellowship, Northwestern University
 1996 Outstanding Teaching Resident, Department of Pediatrics, University of North Carolina, Chapel Hill
 1996 Research Merit Award, Department of Pediatrics, University of North Carolina, Chapel Hill
 1995 University of Chicago Departmental award for outstanding performance in the field of Neurology
 1993 University of Chicago, Department of Pharmacological and Physiological Sciences, Harry Ginsburg Memorial Prize
 1992-1994 National Institute of Mental Health Predoctoral Fellow (ADAMHA MH10262)
 1988-1992 National Institute of Health Training Grant Predoctoral Fellow (GM 07151)

Regional and national invited presentations

'Bioinformatics approaches to pediatric critical care medicine'. Children's Memorial Research Center Leadership Meeting. June 2008.

'Glial activation and epileptogenesis', University of Maryland Neuroprotection Seminar Series, June 2008

'Neuroinflammation and Epilepsy', Southern Epilepsy and EEG Society, Florida May 2008

Neurology without neurons: the role of glia in pediatric brain injury'. Children's Memorial Research Center, Research Progress Series. March 2008.

'Neurologic management of hepatic encephalopathy', University of Pittsburgh Pediatric Acute Liver Failure Investigators Meeting, March 2008

"EEG monitoring in the pediatric intensive care unit" Society for Critical Care Medicine Annual Congress February 2008

"Glial activation following early-life seizures" Department of Pediatrics, Duke University Medical School. November 2007.

"Role of Apolipoprotein E in cerebral palsy: lessons from Alzheimer's disease" Northwestern University, Cognitive Neurology and Alzheimer's Disease Center. September 2007

"Apolipoprotein E genotype and cerebral palsy" Society for Pediatric Research, Toronto May 2007

'Risk factors and management of pediatric stroke" Society for Critical Care Medicine Annual Congress, Orlando February 2007

"Advances in neurological monitoring in the PICU" Society for Critical Care Medicine. Chicago July 2006

"Management of status epilepticus." Grand Rounds, Department of Pediatrics, Children's Memorial Hospital Chicago. July 2006

"Is carnitine metabolism a therapeutic target in pediatric acute brain injury?" Duke University Medical School, Division of Neurology. April 2006

"Glial activation as a treatment target in acute brain injury in children: a novel mechanism of epileptogenesis." University of Montana Department of Pharmacology. October 2004

'Carnitine and treatment of perinatal hypoxia-ischemia.' Grand Rounds, Department of Pediatrics, Children's Memorial Hospital Chicago. September 2004

'Mitochondrial dysfunction in perinatal brain injury.' University of Montana Neuroscience Program Retreat, June 2004

'Discovery of potential new therapeutic targets in critical care medicine.' National Institutes of Health Symposium on the Functional Genomics of Critical Illness and Injury, Bethesda MD Nov 17,2003

'Protein kinases as treatment targets in neurologic disease.' Tel Aviv University Medical School, Department of Neurology. October 29, 2003

'Neuroprotection in animal models of acute brain injury.' Great Lakes Glial Meeting, Crystal Mountain MI Sept 21, 2003

'Predictors of outcome after stroke in children.' Childhood Stroke: the way forward: Great Ormond Street Hospital, Pediatric Stroke Conference July 11, 2003

'Neuroprotection in the Developing Brain.' Chicago Neural Repair Group, Children's Memorial Research Center, Chicago January 2003

'Neuroprotective Strategies in Pediatric Brain Injury.' Division of Life Sciences, Bar-Ilan University, Tel Aviv. May 2003

'Development of a targeted MLCK210 (endothelial MLCK) knock out mouse and a novel class of bioavailable MLCK inhibitors for the study of in vivo pathophysiology and drug discovery.' ASPET Experimental Biology April 2003

'Mechanisms of hypothermic neuroprotection.' Grand Rounds, Department of Neurology, Northwestern University Medical School, May 2001.

Conferences Organized

Davee Conference: Investigators Meeting in Pediatric Neurocritical Care. Chicago September 26-28, 2008

12. PROFESSIONAL SOCIETY MEMBERSHIPS

2000 – present Child Neurology Society

2000 – present American Academy of Neurology

13. PROFESSIONAL and SCIENTIFIC SERVICE

Editorial Activities

Reviewer	2001	Developmental Brain Research
Reviewer	9/04	Experimental Gerontology
Reviewer	1/05	Neuroscience Letters
Reviewer	5/05	Journal of Infectious Diseases
Reviewer	5/05	Neurobiology of Aging
Reviewer	6/05	Journal of Medicinal Chemistry
Reviewer	10/05	Restorative Neurology and Neuroscience
Reviewer	10/05	Sleep Medicine
Reviewer	10/00	Pediatrics
Reviewer	4/06	Pediatric Research
Reviewer	2/07	Pediatric Research
Reviewer	2./07, 3/07	Pediatrics
Reviewer	7/07	Biochimica et Biophysica Acta
Reviewer	9/07	Stroke
Reviewer	7/08	J Neurotrauma
Reviewer	8/08	Experimental Neurology
Reviewer	9/08	Epilepsy Research

Grant Review Activities

Reviewer 2004 Epilepsy Foundation

14. TEACHING

Clinical Supervision

Attending Physician Division of Neurology, Children's Memorial Hospital.

Graduate Students: thesis supervision

7/2004 - 12/2007 Kathleen Somera Northwestern University IGP. PhD Thesis committee chair
7/2004 - present Wendy L. Gugliotta Northwestern University IGP. PhD committee member
7/2005 – present Christopher Heier Northwestern University IGP. PhD committee member
6/2004 - 2007 Thomas Rau, University of Montana School of Pharmacy, PhD committee member.

Physician Research Mentor

2007-present. Janet Rossi MD, Attending Physician. Division of Critical Care Medicine. Co-Mentor for KO8 application (NINDS), 'The role of myosin light chain kinase in traumatic brain injury.' *Submitted*

2007- present. Charu Venkatesan MD PhD, Attending physician, Division of Neurology. Co-mentor for K12. Neurodevelopmental sequelae of early-life glial activation.

2008 Scott Weiss MD, Fellow, Division of Critical Care, CMH (primary mentor). Identification of novel biomarkers for sepsis.

2008 Tensing Maa MD, Fellow, Division of Critical Care, CMH (mentor committee). Transplantation of human neural progenitor cells for combined cell replacement and gene therapy in a mouse model of hypoxic-ischemic brain injury.

2006 – 2008 Danielle DeCoursey MD Fellow, Division of Critical Care, CMH (primary mentor). Development of a web-based teaching curriculum for pediatric neurocritical care.

2004 – 2007 Rohit Kohli MD, Fellow, Division of Gastroenterology, Hepatology and Nutrition, CMH (mentor committee). Role of mitochondrial dysfunction in non-alcoholic steatohepatitis.

2004 – 2007 Eric Lloyd MD, Fellow, Division of Critical Care, CMH (primary mentor). Glial activation as a therapeutic target in a mouse model of traumatic brain injury.

2002 – 2005 Dwight M. Bailey, DO. Fellow, Division of Critical Care, CMH (primary mentor). Increased susceptibility to neurologic injury after traumatic brain injury in mice overexpressing the glial protein S100B.

Undergraduate

2008 Tina Dragisic Loyola University, Chicago. 'Role of metallothionein in glial activation after closed skull traumatic brain injury'. Honors Neurosciences.

2007 Thom deVries Loyola University, Chicago. 'Detection of non-convulsive seizures in critically ill children using continuous EEG monitoring: a retrospective study.'

2005 Fatima Patel, University of Illinois, Chicago. 'The role of apolipoprotein E as a susceptibility factor in cerebral palsy.' CMRC research award. Research Preceptor

2004 Ashita Bhatt, McMaster University. 'Melatonin as a neuroprotective therapy for perinatal asphyxia.' BSc Honors Thesis

2004 Ryan Fink, University of Michigan Medical School. 'Neuroinflammatory responses to traumatic brain injury in the mouse.' University of Michigan summer scholarship.

2003 Marin Mannix, Northwestern University Feinberg School of Medicine. 'Childhood stroke: effects of hyperthermia and hyperglycemia' Child Neurology Foundation Student Award. Research Preceptor

2003 Stephanie Kim University of Buffalo Medical School. 'Predictors of outcome after childhood stroke.' CMRC summer research grant. Research Preceptor

2001 Christopher Anderson., Northwestern University Feinberg School of Medicine. 'Neurologic injury and neuroinflammation after neonatal seizures.' NMH CNADC research fellowship. Research Preceptor

Classroom teaching

2003 – present. Advanced Topics in Drug Discovery. This is a core class in the IGP Drug Discovery Program.

2004- present. Drug Discovery Summer Research Program. This is an NIH sponsored program under the auspices of the Drug Discovery Training Grant.

Course Director

2005 - present. Pediatric Neurocritical Care Interesting Cases. Monthly review of neurologic consultations in the PICU for Critical Care and Neurology fellows.

15. RESEARCH GRANTS/CONTRACTS

National Institutes of Health 03/01/2004 – 02/28/2009

PA-00-003 KO8 NS044889-02 \$729,000

Glial activation after perinatal hypoxia-ischemia

This is a Mentored Clinical Scientist Development Award. The study focuses on the mechanisms of glial activation after perinatal hypoxia-ischemic in the S100B transgenic mouse.

Role: Principal Investigator

NIH Pediatric Acute Liver Failure Multi-Center Study

PI: R. Squires MD University of Pittsburgh

Role: Chair, Workgroup on Hepatic Encephalopathy

Excellence in Academic Medicine, State of Illinois 11/1/2007 – 10/31/2009 \$100,000

Center for Interdisciplinary Research in Pediatric Critical Illness and Injury

Medical Research Foundation Junior Board 2007-2009 \$250,000

Translational research in pediatric neurocritical care

Shaw Foundation 11/1/2008 – 10/31/2009

Work Impairment Secondary to Headaches in Pediatric Nurses

Role: Co-Investigator

National Institutes of Health NINDS 09/01/2003 – 08/31/2008

Loan Repayment Program recipient. This award was for 2 years and was renewed after progress review in July 2005, 2006 and 2007

Completed

United Cerebral Palsy Foundation 02/01/2004 – 01/30/2006 \$94,158

The apolipoprotein E e4 allele in children with cerebral palsy

The goal of this study was to establish a genetic marker for vulnerability to enhanced neurologic injury in a multifactorial disorder such as cerebral palsy.

Role: Co- Investigator

National Institutes of Health 07/01/2003 – 06/30/2004

NICHD/NINDS R01 HD39110 \$54,000

Role of neuronal NOS dimerization in neurotoxicity

This study investigated the contribution of and mechanisms of nitric oxide-dependent free radical mediated cell death after hypoxia-ischemia in the newborn brain.

Sub-contract from University of Montana. Principal Investigator: Stephen M. Black Ph.D

Silent Cerebral Infarct Multi-Center Clinical Trial (SIT) Trial 2005-2008

Role: Neurologist for participating center (CMH). Study is ongoing.

Child Neurology Foundation

06/01/2002-09/30/2003

Medical Student Summer Fellowship

\$2,500

Childhood stroke: effects of hyperthermia and hyperglycemia

Role: Research mentor. Student: Marin K. Mannix, NWU MI.

Pediatric Faculty Foundation

10/1/2001- 9/30/2003

Children's Memorial Hospital

\$150,000

Glial activation after perinatal hypoxia-ischemia

Role: Principal Investigator

CMIER 930540

12/1/2001 - 11/30/2002

5%

Children's Memorial Hospital

\$20,000

Inflammatory mediators of traumatic brain injury

This study examined the role and mechanism of action of the glial-derived protein, S100 in brain injury following controlled cortical impact in the S100 transgenic mouse.

Role: Principal Investigator

16. SCHOLARLY BIBLIOGRAPHY

a. Research articles

1. Lloyd, E, Somera-Molina, K, Nair, S., Van Eldik, L, Watterson, D, and Wainwright, MS, 2008. Suppression of acute proinflammatory cytokine and chemokine upregulation by post-injury administration of a novel small molecule improves long-term neurologic outcome in a mouse model of traumatic brain injury. *J Neuroinflammation*. 5:28
2. Millichap, J., Wainwright, MS., 2008. Neurological complications of respiratory syncytial virus infection: case series and review of literature. *J Child Neurol*. *In Press*.
3. Theodore WH, Epstein L, Gaillard WD, Shinnar S, Wainwright MS, Jacobson S (2008) Human herpes virus 6B: A possible role in epilepsy? *Epilepsia*. 49, 1828-1837.
4. Venkatesan C and Wainwright MS (2008) Pediatric endocarditis and stroke: a single center retrospective review of seven cases. *Pediatr Neurol*. 38, 243-247
5. Somera-Molina K, Robin B, Somera C, Anderson C, Stine C, Koh S, Behanna H, Van_Eldik L, Watterson D, Wainwright MS. (2007) Glial activation links early-life seizures and long-term neurologic dysfunction: Evidence using a small molecule inhibitor of pro-inflammatory cytokine up-regulation. *Epilepsia* 48:1785-1800

6. Kohli R, Malladi, P, Pan X, Wainwright MS, Whittington PF (2007) Mitochondrial reactive oxygen species signal hepatocyte steatosis by regulating the PI3-kinase cell survival pathway. *J Biol Chem* 282:21327-21336
7. Kuroda MM, Weck, M, Sarwark J, Hamidullah A, Wainwright MS (2007) Association of apolipoprotein E genotype and cerebral palsy in children. *Pediatrics* 119:306-313
8. Rossi J, Velentza A, Steinhorn D, Watterson D, Wainwright MS (2007) MLCK210 gene knockout or kinase inhibition preserves lung function following endotoxin-induced lung injury in mice. *Am J Physiol Lung Cell Mol Physiol*. 292: L1327-L1334
9. Wainwright MS, Grundhoefer D, Sharma S, Black SM (2007) A nitric oxide donor reduces brain injury and enhances recovery of cerebral blood flow after hypoxia-ischemia in the newborn rat *Neurosci Lett* 415:124-129
10. Wainwright MS, Kohli R, Whittington P, Chace D (2006) Carnitine treatment inhibits increases in cerebral carnitine esters and glutamate detected by mass spectrometry following hypoxia-ischemia in newborn rats *Stroke* 37:524-530
11. Wainwright MS, Arteaga E, Fink R, Ravi K, Chace D, Black SM (2005) Tetrahydrobiopterin and nitric oxide synthase dimer levels are not changed following hypoxia-ischemia in the newborn rat. *Brain Res Dev Brain Res* 156:182-192
12. Wainwright MS, Craft JM, Pineda J, Padgett J, Griffin WST, Marks A, Van Eldik L (2004) S100B Transgenic mice are more susceptible than S100B knockout or wild-type mice to injury following perinatal hypoxia-ischemia. *Ann Neurol* 56:61-67
13. Wainwright MS, Mannix MK, Brown J and Stumpf DA (2003) L-Carnitine reduces brain injury after hypoxia-ischemia in newborn rats. *Pediatr Res* 54:688-695
14. Wainwright MS, Rossi J, Schavocky J, Crawford S, Steinhorn D, Velentza A, Zasadzki M, Shirinsky V, Jia Y, Haiech J, Van Eldik L and Watterson DM (2003) A protein kinase involved in lung injury susceptibility: evidence from enzyme isoform genetic knockout and *in vivo* inhibitor treatment. *Proc Natl Acad Sci* 100:6233-6238
15. Wainwright MS, Brennan L, Dizon M, Black SM (2003) p21^{ras} Activation following hypoxia-ischemia in the newborn rat brain is dependent on nitric oxide synthase activity but p21^{ras} does not contribute to neurologic injury. *Brain Res Dev Brain Res* 146:79-85
16. Velentza AV, Wainwright MS, Zasadzki M, Mirzoeva S, Haiech J, Focia PJ, Eglia M, Watterson DM (2003) An aminopyridazine based inhibitor of a pro-apoptotic protein kinase attenuates hypoxia-ischemia induced brain damage. *Bioorganic Med Chem Letters* 13:3465-3470
17. Van Eldik L, Wainwright MS (2003) The Janus Face of Glial-derived S100B: Beneficial and Detrimental Functions in the Brain. *Restorative Neurology and Neuroscience* 21:97-108
18. Duan J, Wainwright MS, Comeron JM, Saitou N, Sanders AR, Gelernter and Gejman PV (2003) Synonymous mutations in the human dopamine receptor D2 (DRD2) affect mRNA stability and synthesis of the receptor. *Human Molecular Genetics* 12:205-216
19. Schumacher AM, Velentza AV, Watterson DM and Wainwright MS (2002) DAPK catalytic activity in the hippocampus increases during the recovery phase in an animal model of brain hypoxic-ischemic injury. *Biochimica et Biophysica Acta* 1600 128-137
20. Wainwright MS, Sheng H, Sato Y, Mackensen GB, Steffen RP, Pearlstein RD and Warner DS (2002) Pharmacologic correction of hypothermic P50 shift does not alter outcome after transient focal cerebral ischemia in the rat. *Am J Physiol* 282:H1863-H1870

21. Wainwright MS, Martin PL, Morse RP, Lacaze M, Provenzale JM, Coleman E, Morgan MA, Hulette C, Kurtzberg J, Bushnell C, Epstein L and Lewis DV (2001) Limbic encephalitis associated with human herpesvirus 6 after stem cell transplant. *Ann Neurol* 50:612-619
22. Jobe A, Lewis D, Wainwright M, and Delong GR. (2000) Three children with a syndrome of obesity and overgrowth, atypical psychosis, and seizures: a problem in neuropsychopharmacology. *J Child Neurol* 15:518-528
23. Wainwright MS, Perry BD, Won LA, O'Malley KL, Wang W, Ehrlich ME, Heller A (1995) Immortalized Murine Striatal Neuronal Cell Lines Expressing Dopamine Receptors and Cholinergic Properties. *J Neurosci* 15: 676-688.
24. Cook EH, Fletcher KE, Wainwright M, Marks N, Yan S, Leventhal B (1994) Primary structure of the human platelet serotonin 5-HT_{2A} receptor: identity with frontal cortex serotonin 5HT-2A receptor. *J Neurochem* 63: 465-469.
25. Cook EH, Perry BD, Dawson G, Wainwright M, Leventhal BL (1993) Receptor inhibition by immunoglobulin fraction: No evidence for specific inhibition by autistic children and their relatives. *J Autism Dev Disord* 23: 67-76.
26. Perry BD, Cook EH, Leventhal BL, Wainwright MS, Freedman DX (1991) Platelet 5-HT₂ serotonin receptor binding sites in autistic children and their first degree relatives. *Biol. Psychiatry* 29: 1-10.
27. Cook EH, Leventhal BL, Heller W, Metz J, Wainwright M, Freedman DX (1990) Autistic children and their first-degree relatives: Relationships between peripheral neurotransmitters and metabolites and measured intelligence. *J Neuropsychiatry Clinical Neurosci* 2: 268-274

b. Editorials, Reviews, Chapters, Books, Commentaries

28. Wainwright MS (2007) Pharmacogenomics of Alzheimer's disease and cerebral palsy: implications of the apolipoprotein E genotype. *Future Neurology* 2:353-356.
29. Wainwright MS Evaluation and management of childhood headache In Green T., Franklin W., Tanz R. (eds) *Pediatrics: Just the facts* 2005 McGraw-Hill

c. Case reports

30. DeCoursey, D., Wainwright, M., Kane, J., January 23, 2008. A 14-Year-Old Boy with Progressive Weakness and Dyspnea. *eMedicine CME Case Study*. Available at <http://www.medscape.com/viewprogram/17455>.

d. Patents

'*Compositions for Treating Epilepsy*' NU27039. Patent applied for.

g. Recent Abstracts (last 5 years)

1. Somera-Molina, K., Nair, K.S., Van Eldik, L.J., Watterson, D., Wainwright, M., 2008. Glial activation links early life seizures and increased susceptibility to seizures in adulthood. American Epilepsy Society Annual Meeting. IW.41 Seattle December 2008.

2. Chrzaszcz, M., Nair, S., Patel, F., Eldik, L.V., Watterson, D., Wainwright, M., 2008. Glial activation links traumatic brain injury and long-term vulnerability to epilepsy. National Neurotrauma Society Meeting, Orlando July 2008.
3. Ralay-Ranaivo, H., Wainwright, M., 2008. Albumin activates astrocytes via activation of MAPKs and the TGF β -receptor. National Neurotrauma Society Meeting. Orlando July 2008.
4. Kuroda MM, Weck M, Sarwark J, Hamidullah A, Wainwright MS Apolipoprotein E Genotype Predicts Risk for Cerebral Palsy Society for Pediatric Research 2007 (PAS 751411) Selected for platform presentation.
5. Lloyd E, Somera-Molina K, Robin B, Behanna H, Van Eldik L, Watterson DM, Wainwright MS Treatment with a small molecule inhibitor of glial activation reduces neurologic injury after traumatic brain injury in the mouse NIH Functional Genomics of Critical Illness Natcher Conference November 2006
6. Somera K and Wainwright MS Chronic glial activation following perinatal seizures: a novel susceptibility factor for neurological injury Hershey Conference on Developmental Brain Disorders May 2006
7. Somera K and Wainwright MS Effects of glial activation on complement regulation and glial glutamate transporters following hypoxia-ischemia in the newborn brain Society for Pediatric Research (PAS 754211) 2006
8. Kohli R, Pan X, Malladi P, Wainwright MS, Whittington PF Hepatocyte steatosis induced by nutritional perturbation is signaled by increased generation of mitochondrial reactive oxygen species. Hepatology 2006;44;662A
9. Kohli R, Pan X, Malladi P, Wainwright MS, Whittington PF AASLD- Single Topic Conference 2006- Pediatric Hepatitis Oral presentation Generation of mROS signals hepatocyte steatosis via phosphatidylinositol 3-kinase activation
10. Kohli R, Pan X, Malladi P, Wainwright MS, Whittington PF AASLD annual meeting 2006 Hepatocyte steatosis induced by nutritional perturbation is signaled by increased generation of mitochondrial reactive oxygen species (mROS).
11. Bailey D, Somera K, Eldik LV, Griffin S, Marks A, Wainwright M. S100b transgenic mice are more susceptible than S100b knockout or wild-type mice to neurologic injury following traumatic brain injury. Society for Pediatric Research, 2005
12. Wainwright MS, Fink R, Arteaga A, Derbin D, Black SM Hydroxyl radical levels increase after hypoxia-ischemia in the newborn brain by a nitric oxide-dependent mechanism Society for Pediatric Research, May 2004
13. Wainwright MS, Fink R, Arteaga A, Derbin D, Black SM Simultaneous real time monitoring of nitric oxide and cerebral blood flow in vivo during hypoxia-ischemia in the newborn rat Society for Pediatric Research, May 2004
14. Wainwright MS, Arteaga A, Fink R, Ravi K, Black SM Loss of NO synthase (NOS) activity after hypoxia-ischemia in the newborn rat is not associated with a decrease in tetrahydrobiopterin (BH4) or NOS dimer levels Society for Pediatric Research, May 2004
15. S100B Transgenic mice are more susceptible than S100B knockout or wild-type mice to injury following perinatal hypoxia-ischemia Van Eldik LJ, Craft JM, Griffin WST, Marks A, Wainwright MS Society for Neuroscience 2003.

16. Wainwright MS, Mannix M, Brown J, Stumpf DS L-Carnitine reduces brain injury after hypoxia-ischemia in newborn rats Child Neurology Society October, 2003
17. Wainwright M, Schavocky J, Velentza A, Zasadzki M, Shirinsky V, Haiech J, Van Eldik J, Watterson DM Development of a targeted MLCK210 (endothelial MLCK) knock out mouse and a novel class of bioavailable MLCK inhibitors for the study of in vivo pathophysiology and drug discovery. ASPET Experimental Biology April 2003
18. Wainwright M, Schumacher A, Velentza A, Zasadzki M, Haiech J, Watterson DM Investigation of a calcium and calmodulin regulated, pro-apoptotic protein kinase as a potential therapeutic target in cerebral ischemia. ASPET Experimental Biology April 2003
19. Rossi J, Wainwright M, Velentza A, Zasadzki M, Schavocky J, Crawford S, Jia, Y Van Eldik LJ, Watterson DM, Steinhorn DM Inhibition of endothelial cell MLCK (EC-MLCK) reduces endotoxin induced lung injury in adult wild type (WT) mice Society for Pediatric Research, May 2003