

SEPTEMBER 1, 2009

CURRICULUM VITAE

NAME: LOUIS G. CHICOINE, M.D.

RESIDENCE: 1029 Sunbury Lake Dr.
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CURRENT POSITION: Assistant Professor
Center for Gene Therapy
Nationwide Children's Research Institute
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Section of Neonatology
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EDUCATION:

Completed: 1996	University of Colorado Health Sciences Center Denver, CO	Fellowship	Neonatal-Perinatal Medicine
Completed: 1993	Stanford University Medical Center Stanford, CA	Residency	Pediatrics
Conferred: 1990	University of Texas Medical Branch Galveston, TX	M.D.	Medicine
Conferred: 1983	University of California Santa Barbara, CA	M.A.	Cellular Biology
Conferred: 1981	University of California Santa Barbara, CA	B.A.	Physiology/Cellular Biology and Business Economics

ACADEMIC APPOINTMENTS:

2006 – Present	Assistant Professor of Pediatrics (Tenure Track): The Ohio State University Department of Pediatrics, 700 Children’s Drive, Rm 3021, Columbus OH.
August 2003-2006	Assistant Clinical Professor of Pediatrics: The Ohio State University Department of Pediatrics, 700 Children’s Drive, Rm 3021, Columbus, OH.
July 1996-August 2003	Assistant Professor of Pediatrics: University of New Mexico Health Sciences Center, Department of Pediatrics ACC 3/W, Albuquerque, NM.
July 1993-June 1996	Neonatal Fellow: University of Colorado Health Sciences Center, Denver, CO.
July 1990-July 1993	Pediatric Resident: Dept. of Pediatrics, Stanford University Medical Center, Stanford, California.
May 1987-May 1988	Medical Student Research Assistant: Dept. of Surgery, University of Texas Medical Branch, Galveston, Texas.
January 1984-August 1986	Research Assistant: Dept. of Biochemistry, Baylor College of Medicine, Houston Texas.
August 1982-December 1982	Teaching Assistant and Research Assistant: Dept. of Biology, University of California, Santa Barbara.
June 1979-August 1979	Teaching Assistant: Dept. of Genetics, University of California, Davis.
HOSPITAL APPOINTMENTS	
September 2003-Present	Attending Neonatologist at Nationwide Children’s Hospital, OSU, and Mount Carmel East Hospital Neonatal ICUs, Columbus, OH
July 1996-August 2003	Attending Neonatologist at St. Josephs Hospital, Albuquerque, NM.
July 1996-August 2003	Attending Neonatologist at University of New Mexico Health Sciences Center, Department of Pediatrics ACC 3/W, Albuquerque, NM.
June 1992-April 1999	ICN Courtesy Staff Physician: Kaiser Permanente Medical Center, Santa Clara, CA.

PROFESSIONAL/ADMINISTRATIVE POSITION:

- 2006- Present** Medical Director of Neonatal ECMO Services, Nationwide Children's Hospital, Columbus, Ohio
- 2001-2003** Assistant Medical Director of the UNM Intensive Care Nurseries

CURRENT LICENSURE/CERTIFICATION:

- 2004** Medical License: Ohio-#35-083934 (Good Standing)
- 1999** Certification, Sub-specialty Board of Neonatal-Prenatal Medicine.
Recertified 2006
- 1996** Certification, Pediatrics, American Board of Pediatrics,
Recertified 2000
- 1994** Neonatal Resuscitation Program (NRP) Instructor, Recertified at Nationwide Children's Hospital in Columbus, Ohio 2006
- 1990** Federal Licensure Examination, (FLEX)

Expired Licensure/Certification:

- 1996** Medical License: New Mexico-#96-211 (Expired in Good Standing)
- 1996** New Mexico Board of Pharmacy (Expired in Good Standing)
- 1991** Medical License: California-#A 50710 (Expired in Good standing)

HONORS/AWARDS:

- February 1994** Western Society for Pediatric Research (WSPR'94) Travel Award
- June 1987** Research Award, N.I.H. Medical Student Training Program, University of Texas Medical Branch
- 1982-1983** California State Graduate Fellowship: University of California at Santa Barbara.

PROFESSIONAL SOCIETIES:

American Academy of Pediatrics: Fellow
American Academy of Pediatrics: District VIII, Section on Perinatal Pediatrics
Society for Pediatric Research
American Thoracic Society
The American Physiological Society
American Society for Gene Therapy

OTHER PROFESSIONAL ACTIVITIES:

Abstract Selection Reviewer for the Category: Pulmonary
Vascular Biology, PAS-SPR Annual Meeting, Honolulu, HI,
2008

Guest Reviewer, Pediatric Pulmonology. 2006

ACADEMIC COMMITTEES:

2007 – 2009	Scholarly Oversight Committee (Chair) – Fellow in Neonatal-Perinatal medicine: Patrick Carroll, MD. Nationwide Children’s Hospital
2006 - 2009	Scholarly Oversight Committee – Fellow in Neonatal-Perinatal medicine: Daniel Malleske, MD. Nationwide Children’s Hospital
2004 - 2007	Scholarly Oversight Committee – Fellow in Neonatal-Perinatal medicine: Michael Stenger, MD, Nationwide Children’s Hospital
2003 - 2006	Scholarly Oversight Committee – Fellow in Neonatal-Perinatal medicine: Trent Tipple, MD. Nationwide Children’s Hospital
2002 – 2004	Ph. Dissertation Committee – Student: Nikki Jernigan, University of New Mexico
2002 - 2003	Biomedical Sciences Graduate Exam Committee -Student: Nathaniel Roybal, University of New Mexico
2002 - 2003	Masters Thesis Committee - Student: Barney Carter, University of New Mexico
1998 - 2003	Department of Pediatrics Research Committee
1998 - 2003	Departmental Promotions and Tenure Committee

HOSPITAL COMMITTEES:

- 2005- Present** Transfusion Committee, Nationwide Children's Hospital, Columbus, Ohio
- 2004 - 2005** Search Committee: Program Manager position of the J4 NICU. Nationwide Children's Hospital
- 1997 - 2003** UNM/HSC Pharmacy and Therapeutics Committee, University of New Mexico

RESEARCH GRANTS:***FUNDED:***

1 U54 NS055958-0181 (JR Mendell, PI), 09/01/2007 – 08/31/2011
 Title: "Diverse Strategies to Correct the Dystrophin Gene Using Vascular Delivery"
 Total Funds: \$8,110,167
 Total Models Core Funds: \$1,800,438
 Role: Core Director; 30%

5 R21 HL084165-01 (LG Chicoine, PI) 07/01/2007 - 06/30/2009
 Title: "Pulmonary Vascular Targeting of Gene Delivery Using Directed Evolution of AAV"
 Total Funds: \$402,728
 Role: Principal Investigator; 10%

R01 HL075261 HLBI (LD Nelin, PI) 02/03/2006 – 12/31/2010
 Title: "Cationic amino acid transporters and lung NO production"
 Total Funds: \$1,618,000
 Role: Co-Investigator; 5%

Funding Agency: Center of Cardiovascular and Pulmonary Disease/NCH-Intramural
 Title: The Effect of ventilator mode, ECMO and ultrafiltration on cytokine levels during acute lung injury (ALI).
 Total Funds: \$50,000 07/01/2009 - 06/30/2010
 Role: Principal Investigator

PENDING:

Heart Center Translational Research Fund [Internal] (James Stewart, PI)

Title: Right ventricular remodeling in pulmonary hypertension
Requested Total Funds: \$25,000 for 2 years
Role: Chicoine – Co-PI

COMPLETED

CCRI/OSU (Chicoine, Co-PI) 07/01/2006 – 06/30/2008
Title: “The Role of Endogenous Nitric Oxide Synthase Inhibitors in Neonatal Pulmonary Hypertension”
Total Funds: \$100,000
Role: Joint-Principal Investigator; 10%

NIH/NHLBI (LG Chicoine, PI)
Grant #: 1 KO1 HL04050-01 ZHL1-CSR-Y (F1)
Title: “Viral-mediated iNOS gene transfection in pulmonary hypertension”
Total Funds (1999-2004): \$826,479.
Role: Principal Investigator

Wyeth Pediatrics Neonatology Research Grants Program (LG Chicoine, PI)
Title: “Developmental and hypoxic regulation of IGF binding proteins in pulmonary vascular cells”
Total Funds (1995): \$3,500
Role: Principal Investigator

Wyeth Pediatrics Neonatology Research Grants Program (LG Chicoine, PI)
Title: “Effects of IGF-II on tropoelastin mRNA in developing pulmonary vascular smooth muscle cells”
Total Funds (1994): \$3,500
Role: Principal Investigator

Not Funded Grants

Federal Identifier: GRANT10309294; Recovery Act Limited Competition: High-End Instrumentation Grant Program (S10)
NIH/NCRR 2009
Title: Bruker BioSpin 9.4/30 High Field MRI Acquisition for The Research Institute
Total Funds: \$6,258,050
Role: PI

R21 NIH/NHLBI (LG Chicoine, PI) Scored 226
Title: “Modified AAV-mediated siRNA delivery targeting iNOS in endotoxic shock”
Requested Funds: \$400,000 2009
Role: Principal Investigator; 15%

TEACHING:

- JULY 30, 2009** **Chairman's case conference:** "Hypoglycemia" with 3rd year medical students (32/34), Nationwide Children's Hospital, Columbus, Ohio.
- JUNE 10, 2009** **PPHN:** "Pathophysiology of the Neonate: Pulmonary Hypertension in the Neonate and Nitric Oxide with pediatric residence on NICU rotation (3), Nationwide Children's Hospital, Columbus, Ohio
- JUNE 3, 2009** **PEDS RESIDENT LECTURE:** "Hypoglycemia" with 3rd year medical students (32/34), Nationwide Children's Hospital, Columbus, Ohio
- JUNE 3, 2009** **NEONATAL PHARMACOLOGY:** "INHALED NITRIC OXIDE FOR THE PRETERM INFANT AND MEDICATION SAFETY IN THE NICU.
- APRIL 2, 2009** **Chairman's case conference:** "Hypoglycemia" with 3rd year medical students (32/34), Nationwide Children's Hospital, Columbus, Ohio.
- Jan 30, 2009** **MAS:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pathogenesis of Disease in the Newborn, Meconium Aspiration"
- JAN 27, 2009** **PPHN:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pulmonary Hypertension in the Neonate and Nitric Oxide".
- JAN 21, 2009** **MAS:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pathogenesis of Disease in the Newborn, Meconium Aspiration".
- JAN 27, 2008** **PPHN:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pulmonary Hypertension in the Neonate and Nitric Oxide".
- JAN 21, 2008** **MAS:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pathogenesis of Disease in the Newborn, Meconium Aspiration".
- JUNE 19, 2008** **PEDS RESIDENT LECTURE:** "Hypoglycemia" with pediatric residence on NICU rotation (3), Children's Hospital, Columbus, Ohio
- MAY 29, 2008** **Chairman's case conference:** "Hyperbilirubenemia" with 3rd year medical students (27/34), Nationwide Children's Hospital, Columbus, Ohio
- APR 23, 2008** **Chairman's case conference:** "Respiratory Distress in a Preterm" with 3rd year medical students, Nationwide Children's Hospital, Columbus, Ohio

- APR 17, 2008** **Chairman's case conference:** "Hypoglycemia" with 3rd year medical students (32/34), Nationwide Children's Hospital, Columbus, Ohio
- FEB 14, 2008** **Chairman's case conference:** "Respiratory Distress in a Preterm" with 3rd year medical students, Children's Hospital, Columbus, Ohio
- JAN 31, 2008** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pathogenesis of Disease in the Newborn, Meconium Aspiration".
- JAN 29, 2008** **PPHN:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pulmonary Hypertension in the Neonate and Nitric Oxide".
- JAN 24 2008** **Chairman's case conference:** "Hyperbilirubenemia" with 3rd year medical students, Children's Hospital, Columbus, Ohio
- JAN 22, 2008** **MAS:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pathogenesis of Disease in the Newborn, Meconium Aspiration".
- DEC 13, 2007** **Chairman's case conference:** "Hypoglycemia" with 3rd year medical students (32/34), Children's Hospital, Columbus, Ohio
- JULY 26, 2007** **Chairman's case conference:** "Hypoglycemia" with 3rd year medical students (34/35), Children's Hospital, Columbus, Ohio
- JAN 23, 2007** **PPHN:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pulmonary Hypertension in the Neonate and Nitric Oxide".
- JAN 18, 2007** **Chairman's case conference:** "Hyperbilirubenemia" with 3rd year medical students (31/31), Children's Hospital, Columbus, Ohio
- DEC 7, 2006** **Chairman's case conference:** "Respiratory Distress in a Preterm" with 3rd year medical students, Children's Hospital, Columbus, Ohio
- Nov 16, 2006** **Chairman's case conference:** "Hypoglycemia" with 3rd year medical students (30/34), Nationwide Children's Hospital, Columbus, Ohio
- SEPT 28, 2006** **Chairman's case conference:** "Respiratory Distress in a Preterm" with 3rd year medical students (34/34), Nationwide Children's Hospital, Columbus, Ohio

- Sept 21, 2006** **Chairman's case conference:** "Hypoglycemia" with 3rd year medical students (34/34), Nationwide Children's Hospital, Columbus, Ohio
- JULY 13, 2006** **Chairman's case conference:** "Hypoglycemia" with 3rd year medical students (32/35), Nationwide Children's Hospital, Columbus, Ohio
- JUNE 7, 2006** **NNP Skills Day:** for Nurse Practitioners, Nationwide Children's Hospital, Columbus, Ohio
- MAY 17, 2006** Denman Undergraduate Research Forum - judge
- JAN 31, 2006** **MAS:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pathogenesis of Disease in the Newborn, Meconium Aspiration".
- JAN 24, 2006** **PPHN:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pulmonary Hypertension in the Neonate and Nitric Oxide".
- SEPT 22, 2005** **NRP Renewal Course:** For residents. Nationwide Children's Hospital, Inc., Columbus, Ohio
- JUNE 1, 2005** **PPHN:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pulmonary Hypertension in the Neonate and Nitric Oxide".
- JAN 25, 2005** **PPHN:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pathogenesis of Disease in the Newborn, Meconium Aspiration".
- JAN 9, 2004** **MAS:** In service lecture for neonatal nurses. Children's Hospital, Columbus, Ohio
- JAN 23, 2004** **PPHN:** Graduate Course Lecture within The Ohio State University School of Nursing; Course # N727 "Pathophysiology of the Neonate: Pathogenesis of Disease in the Newborn, Meconium Aspiration".
- JAN 27, 2004** **NRP Renewal Course:** For residents. Nationwide Children's Hospital, Inc., Columbus, Ohio
- 2003** **Neonatal Nursing Orientation:** "High frequency oscillatory ventilation in the newborn" (2 hours), Nationwide Children's Hospital, Inc., Columbus, Ohio.
- 2003-Present** **Teaching Rounds:** with fellows, residents and students in neonatal intensive care unit, Nationwide Children's Hospital, Columbus, Ohio

- 2003** **Teaching Rounds:** with fellows, residents and students in neonatal intensive care unit, University of New Mexico, School of Medicine.
- 2003** **First Year Medical Student Lecture:** “Acid-Base Physiology”
University of New Mexico, School of Medicine.
- 2003** **Medical Systems Biology-Graduate Course, Biomed Sci 510:**
“High-Altitude Physiology and Acclimation. University of New Mexico,
School of Medicine.
- July 2, 2003** **2003 Neonatal Clinical Update:** New Jet Ventilation Strategies
- June 12, 2003** **Pediatric Grand Rounds:** “Nitric Oxide and Hypoxic Respiratory
Failure in the NICU”, University of New Mexico, School of Medicine.
- June 4, 2003** **2003 Neonatal Clinical Update:** New Jet Ventilation Strategies
- May 2002** **Outreach:** “Resuscitation of the high risk neonate”, Taos, NM
- April 2002** **Outreach:** “ Mechanical Ventilation”, St. Vincent’s Hospital, Santa
Fe, NM
- 2002** **Neonatal Nursing Orientation:** “Developmental respiratory
physiology; the new BPD; Conventional ventilation in the newborn;
High frequency ventilation in the newborn” (3 hours), University of
New Mexico, School of Medicine.
- 2001** **Neonatal Nursing Orientation:** “Developmental respiratory
physiology, Conventional ventilation in the newborn, High frequency
ventilation in the newborn” (3 hours), University of New Mexico,
School of Medicine.
- 2001** **Neonatal Nursing Orientation:** “High frequency oscillatory
ventilation in the newborn” (2 hours), University of New Mexico,
School of Medicine.
- 1999** **Outreach:** “Necrotizing Interocolitis”, Lovelace Hospital,
Albuquerque, NM
- 1998** **Outreach:** “Necrotizing Interocolitis”, St. Joseph’s Hospital,
Albuquerque, NM

INVITED LECTURES:

- JUNE 12, 2003** **Pediatric Grand Rounds:** “Hypoxic Respiratory Failure
in the Neonate and use of Nitric Oxide”, University of New Mexico,
School of Medicine.

August 1999 **New Mexico Society of Respiratory Care Annual Meeting:** “High frequency oscillatory ventilation in the newborn”, University of New Mexico, School of Medicine.

PAST MENTORED STUDENTS:

1998-2001 Jose Avitia-Undergraduate Student, University of New Mexico. Currently attending medical school at University of Chicago, Chicago IL

1999-2001 Carmen Barnes-Undergraduate Student, University of New Mexico. Currently attending medical school at Duke University

1999-2002 Kate P Stanley - Fellow in Neonatology, University of New Mexico. Currently on faculty at University of New Mexico

2002 Summer Joelle Jones, High School Summer Research Experience Program. Currently undergraduate Student at the University of New Mexico

2001- 2003 Rebekah Bryon-Undergraduate Student, University of New Mexico. Currently, attending graduate school, in the College of Education at the University of New Mexico.

2001- 2003 Steven Sean-Undergraduate Student, University of New Mexico. Currently graduate student at the Duke University

2001-2003 Cody C Dean – Medical Student, Honors Research Project, University of New Mexico

2001- 2004 Rosanna Chang-Fellow in Neonatology, University of New Mexico. Currently on faculty at University of New Mexico

2006 - 2006 Patrick Carroll- Pediatric Resident, The Ohio State University, College of Medicine, Department of Pediatrics, Columbus Children’s Hospital. Mentored residency basic science project.

Current Mentored Students:

2008 – Present Jessica L Slutzky, The Ohio State University, Columbus, Ohio

BIBLIOGRAPHY: Peer Reviewed Manuscripts

1. Inimary T Toby, Louis G Chicoine, Hongmei Cui, Bernadette Chen, Leif D Nelin. Hypoxia-induced proliferation of human pulmonary Microvascular endothelial cells depends on epidermal growth factor receptor tyrosine kinase activation. *AM J Physiol.* (Submitted 2009 – In Revision 2009)
2. Louise R. Rodino-Klapac, Chrystal L Montgomery, William G Bremer, Vinod Malik, Kimberly M Shontz, Nancy Davis, Spencer Sprinkle, Katherine J Campbell, Zarife Sahenk, K Reed Clark, Christopher M Walker, Jerry R Mendell, **Louis G Chicoine**. Persistent expression of FLAG tagged micro-dystrophin in non-human primates following intramuscular and vascular delivery. (Submitted July 2009)
3. **Chicoine LG**, Steward JA, Lucchesi, PA. Is Resveratrol the Magic Bullet for Pulmonary Hypertension? DOI: 10.1161/HYPERTENSIONHA.109.135251, JUL 13, 2009. (Submitted 2009)
4. **Chicoine LG**, Mice deficient in MKP-1 develop more severe chronic hypoxia-induced pulmonary vascular remodeling". *Am J Resp Cell Mol Biol.* 2009. (submitted)
5. Stenger M, Rose M, Joshi M, Rogers L, **Chicoine LG**, Welty S, Bauer J, Nelin LD, Inhaled Nitric Oxide Prevents 3-nitrotyrosine Formation in the Lungs of Neonatal Mice Exposed to Lethal Hyperoxia. *Lung.* 2009.(submitted)
6. Martin PT, Xu R, Rodino-Klapac LR, Oglesbay E, Camboni M, Montgomery CL, Shontz K, **Chicoine LG**, Clark KR, Sahenk Z, Mendell JR, Janssen PM. Overexpression of Galgt2 in skeletal muscle prevents injury resulting from eccentric contractions in both mdx and wild type mice. *Am J Physiol Cell Physiol.* Epub 2008 Dec 24.
7. Chang R, **Chicoine LG**, Cui H, Kanagy NL, Walker BR, Liu Y, English BK, Nelin LD. Cytokine-induced Arginase Activity in Pulmonary Endothelial Cells is Dependent on Src-Family Tyrosine Kinase Activity. *Am J Physiol Lung Cell Mol Physiol.* 2008 Oct;295(4):L688-97. Epub 2008 Jul 11.
8. Calvert TJ, **Chicoine LG**, Liu Y, Nelin LD. Deficiency of Mitogen Activated Protein Kinase Phosphatase-1 Results in iNOS-mediated Hypotension in Response to Low-Dose Endotoxin. *Am J Physiol Heart Circ Physiol.* 2008 Apr; 294(4):H1621-9. Epub 2008 Feb 15.
9. Nelin LD, Stenger MR, Malleske DT, **Chicoine LG**. Vascular Arginase and Hypertension. *Current Hypertension Reviews.* 2007 November;3(4):242-249.
10. Louise R Rodino-Klapac, Paul ML Janssen, Chrystal L Montgomery, Brian D Coley, **Louis G Chicoine**, K Reed Clark, and Jerry R Mendell. A translational approach for limb vascular delivery of the micro-dystrophin gene without high

- volume or high pressure for treatment of Duchenne muscular dystrophy. *Journal of Translational Medicine*. 2007, 5:45 doi:10.1186/1479-5876-5-45
11. Pope AJ, Druhan L, Guzman JE, Forbes SP, Murugesan V, Lu D, Xia Y, **Chicoine LG**, Parinandi NL, Cardounel AJ. Role of DDAH-1 in Lipid Peroxidation Product mediated inhibition of Endothelial NO Generation. *Am J Physiol Cell Physiol*. 293:C1679-C1686. E-pub Sep 19, 2007; doi:10.1152/ajpcell.00224.2007
 12. **Chicoine LG**, Paffett ML, Girton MR, Metropoulos MJ, Joshi MS, Bauer JA, Nelin LD, Resta TC, Walker BR. Maturational Changes in the Regulation of Pulmonary Vascular Tone by Nitric Oxide in Neonatal Rats. *Am J Physiol Lung Cell Mol Physiol*. 293:L1261-1270, 2007. doi:10.1152/ajplung.00235.2006
 13. Nelin, LD, Wang X, Zhao Q; **Chicoine LG**, Young TL, Hatch DM, Englins BK, and Liu, Y. MKP-1 Switches Arginine Metabolism from Nitric Oxide Synthase to Arginase Following Endotoxin Challenge. *Am J Physiol Cell Physiol* 293:C632-C640, 2007
 14. Rodino-Klapac LR, **Chicoine LG**, Kaspar BK, Mendell JR. Gene Therapy for Duchenne Muscular Dystrophy: Expectations and Challenges. *ARCH NEUROL* 64(9):1236-1241, Sep 2007
 15. Nankervis CA; TJ Preston; KC Dysart, WD Wilkinson, **LG Chicoine**, SE Welty, Nelin, LD. Activated clotting time versus Factor Xa for determining appropriate heparin dose in neonates on VA ECMO. *ASIAO J* 51: 111-114, 2007.
 16. Stanley KP, **Chicoine LG**, Young TL, Reber KM, Lyons CR, Liu Y, Nelin LD. Gene Transfer with Inducible Nitric Oxide Synthase Decreases Production of Urea by Arginase in Pulmonary Arterial Endothelial Cells. *Am J Physiol Lung Cell Mol Physiol* 290(2):L298-306, 2006 Epub ahead of print, 2005.
 17. Nelin LD, **LG Chicoine**, KM Reber, BK English, TL Young and Y Liu. Cytokine-induced endothelial arginase expression is dependent on epidermal growth factor receptor. *Am J Respir Cell Mol Biol*, 33(4):394-401, 2005. Epub 2005 Jun 30.
 18. **Chicoine LG**, Tzeng E, Bryan R, Saenz S, Paffett M, Jones J, Lyons CR, Resta T, Nelin LD and Walker BR. Intra-tracheal Adenoviral-Mediated Delivery of iNOS Decreases Pulmonary Vasoconstrictor Responses in Rats. *J Appl Phys*. 97: 2004. Published online July 16, 2004.
 19. Carter BW, **Chicoine LG**, and Nelin LD. L-lysine decreases nitric oxide production and increases vascular resistance in lungs isolated from lipopolysaccharide treated neonatal pigs. *Pediatric Res* 55: (6) 979-987, 2004.
 20. **Chicoine LG**, Paffett ML, Young TL, and Nelin LD. Arginase inhibition increases nitric oxide production in bovine pulmonary arterial endothelial cells. *Am J Physiol Lung Cell Mol Physiol* 287: L60-L68, 2004. Published online February 20, 2004; 10.1152/ajplung.00194.2003.

21. **Chicoine LG**, Avitia JW, Deen C, Nelin LD, Earley S, and Walker BR. Developmental differences in pulmonary eNOS expression in response to chronic hypoxia in the rat. *J Appl Physiol* 93: 311-318, 2002. Published online April 5, 2002; 10.1152/jappphysiol.01083.
22. Earley S, Nelin LD, **Chicoine LG**, and Walker BR. Divergent responses of nitric oxide on Hypoxia-induced pulmonary endothelin-1 expression. *J Applied Physiol* 92: 1152-1158, 2002.
23. Nelin LD, Krenz GS, **Chicoine LG**, Dawson CA, and Schapira RM. L-arginine uptake and metabolism following in vivo silica exposure in rat lungs. *Am J Resp Cell Mol Biol* 26, 348-355, 2002.
24. Nelin LD, Nash HE, and **Chicoine LG**. Cytokine treatment increased arginine metabolism and uptake in bovine pulmonary arterial endothelial cells. *Am J Physiol Lung Cell Mol Physiol* 281: L1232-L1239, 2001.
25. Broxterman K, Mathew P, and **Chicoine LG**. Left brachial artery thrombus, left axillary vein thrombus, and stroke in a neonate with the Factor V Leiden mutation. *Journal of Pediatric Hematology Oncology*. 22(5): 472-5, 2000 Sep-Oct.
26. Resta TC, O'Donoghue TL, Earley S, **Chicoine LG**, and Walker BR. Unaltered vasoconstrictor responsiveness after iNOS inhibition in lungs from chronically hypoxic rats. *American Journal of Physiology* 276 (Lung Cellular Molecular Physiology. 20): L122-L-130, 1999.
27. Resta TC, **Chicoine LG**, Omdahl JL, and Walker BR. Maintained up-regulation of pulmonary NOS gene and protein expression during recovery from chronic hypoxia. *American Journal of Physiology* 276 (Heart Circulation Physiology. 45): H699-H708, 1999.
28. Singh P, Reubi JC, Rajakumar G, Guo YS, Prioux H, **Chicoine L**. In vivomitogenic effects of estradiol on colon cancers: role of gastrin and gastrin receptors. *J Steroid Biochemical Mol Biol*. 46(1): 60, 1993.
29. Narayan S, **Chicoine LG**, and Singh P. Characterization of gastrin binding to colonic mucosal membranes of guinea pigs. *Molecular and Cellular Biochemistry* 112: 163-171, 1992.
30. **Chicoine LG**, Narayan S, Townsend C.M Jr, and Singh P. The presence of a 33-40 kDa gastrin binding protein on human and mouse colon cancer. *Biochemical and Biophysical Research Communications* Vol. 164(1), 1989.
31. Richman R, **Chicoine LG**, Collini M, Cook R, and Allis CD. Micronuclei and the cytoplasm of growing Tetrahymena contain a histone acetylase activity, which is highly specific for free histone H4. *Journal of Cell Biology* 106(4): 1017-26, 1988.

32. **Chicoine LG**, Richman R, Cook R, Gorovsky M, and Allis CD. A single histone acetyltransferase from *Tetrahymena macronuclei* catalyzes deposition-related acetylation of free histones and transcription-related acetylation of nucleosomal histones. *Journal of Cell Biology* 105(1): 127-35, 1987.
33. Allis D, **Chicoine LG**, Glover CV, White E, and Gorovsky M. Enzyme activity dot blots: a rapid and convenient assay for acetyltransferase or protein kinase activity immobilized on nitrocellulose. *Analytical Biochemistry* 159(1): 58-66, 1986.
34. **Chicoine LG**, and Allis CD. Regulation of histone acetylation during macronuclear differentiation in *Tetrahymena*: evidence for control at the level of acetylation and deacetylation. *Developmental Biology* 116(2): 477-85, 1986.
35. **Chicoine LG**, Schulman I, Richman R, Cook R, and Allis CD. Nonrandom utilization of acetylation sites in histones isolated from *Tetrahymena*. Evidence for functionally distinct H4 acetylation sites. *Journal of Biological Chemistry* 261(3): 1071-6, 1986.
36. Allis CD, **Chicoine LG**, Richman R, and Schulman I. Deposition-related histone acetylation in micronuclei of conjugating *Tetrahymena*. *Proceedings of the National Academy of Sciences of the United States of America* 82(23): 8048-52, 1985.
37. **Chicoine LG**, Wenkert D, Richman R, Wiggins J, and Allis CD. Modulation of linker histones during development in *Tetrahymena*: selective elimination of linker histone during the differentiation of new macronuclei. *Developmental Biology* 109(1): 1-8, 1985.
38. Allis CD, Allen R, Wiggins J, **Chicoine LG** and Richman R. Proteolytic processing of h1-like histones in chromatin: a physiologically and developmentally regulated event in *Tetrahymena* micronuclei. *Journal of Cell Biology* 99(5): 1669-77, 1984.

Chapters:

Louise R Rodino-Klapac, Chrystal L Montgomery, Jerry R Mendell, **Louis G. Chicoine**. AAV Mediated Gene Therapy to the Isolated Limb in Rhesus Macaques. Editor: Dongsheng Duan – Humana Press: Muscle Gene Therapy-Methods and Protocols (Submitted July 2009)

Cua Clifford L, **Chicoine LG**, Nelin LD, and Mullen Mary. Pulmonary Hypertension in the Down Syndrome Population. Cardiology Research and Clinical Developments Series . Chapter XIV- Page 327, 2009 Nova Science Publishers. New York

Singh P, **Chicoine LG**, Guo Y-S, Narayan S, Rafakumar G, Parekh D, and Townsend CM Jr. Gastrointestinal Hormone Receptors And Receptor-Regulation. In: *Gastrointestinal Endocrinology: Receptor and Post-Receptor Mechanisms* (eds.)

Thompson J C, Cooper C, Greeley G H Jr, Rayford PL, Singh P, Townsend CM Jr. Academic Press, New York, 1990, 13-33.

Poster – Presentations – From 2002-Present

Elizabeth Kathleen Natale, Jessica L Slutzky, **Louis G Chicoine**. Resveratrol reverses both thromboxane A₂ receptor and non receptor (k⁺) mediated pulmonary vasoconstriction. FASEB Journal 2009

Thomas J Calvert, **Louis G Chicoine**, Yusen Liu, Leif D Nelin. Inhibition of L-arginine Uptake Prevents Endotoxin-Induced Hypotension in Mitogen Activated Protein Kinase Phosphatase-1 Deficient Mice. Pediatric Academic Society [5620.5] May 5 2008

Hongmei Cui, **Louis G Chicoine**, Yusen Liu, Leif D Nelin. The Cytotoxic Effects of Inducible Nitric Oxide Synthase Depend on L-arginine Uptake in Pulmonary Arterial Endothelial Cells. Pediatric Academic Society [5854.11] May 5 2008

Louis G Chicoine, Mark R Girton, Adam S Feuer, Leif D Nelin. MKP-1 Deficiency Augments LPS-Induced NO Production in the Lung. Pediatric Academic Society [2089] May 3 2008

Inimary T Toby, **Louis G Chicoine**, Hongmei Cui, Yusen Liu, Leif D Nelin. Hypoxia-induced Proliferation of Human Pulmonary Microvascular Endothelial Cells Depends on Epidermal Growth Factor Receptor Tyrosine Kinase Activity. Pediatric Academic Society [3770.12] May 3 2008

Louise R Rodino-Klapac, Chrystal L Montgomery, Nathaniel A Walton, Janaiah Kota, Brian D Coley, K Reed Clark, Jerry R Mendell, **Louis G Chicoine**. Gastrocnemius Targeted Vascular Delivery of AAV8 in Non-Human Primates. Pediatric Academic Society [4505.9] May 2008

Clifford L Cua, Lynette K Rogers, Molly Augustine, Yi Jin, **Louis G Chicoine**, Leif D Nelin. Down Syndrome Patients with Pulmonary Hypertension Have Relatively High Plasma Levels of Asymmetric Dimethylarginine. Pediatric Academic Society [4488.16] May 4 2008

Michael R Stenger, Melissa J Rose, Mandar S Joshi, **Louis G Chicoine**, John A Bauer, Leif D Nelin. Nitric Oxide Decreases Protein Nitration in the Lungs of Neonatal Mice Exposed to Hyperoxia. Pediatric Academic Society [7740.3] 2007

Leif D Nelin, Hongmei Cui, **Louis G Chicoine**, B Keith English, Yusen Liu. Src Family Tyrosine Kinases and Cytokine-Induced Arginase Expression in Pulmonary Microvascular Endothelial Cells. Pediatric Academic Society [6291.22] 2007

Leif D Nelin, Tamara L Young, Rebecca J Evans, **Louis G Chicoine**. Cytokine-Induced L-Arginine Metabolism Depends on Cationic Amino Acid Transporter Activity in Pulmonary Arterial Endothelial Cells. Pediatric Academic Society [7140.7] 2007

Louis G Chicoine, Mark Girton, A J Cardoundel, Leif D Nelin. Developmental Differences in Pulmonary Nitric Oxide Production and Endogenous Nitric Oxide Synthase Inhibitors in the Neonatal Rat. Pediatric Academic Society [6291.26] 2007

Dionna M Hatch, Michael R Stenger, Tamara L Young, **Louis G Chicoine**, Lynette K Rogers, Leif D Nelin. Nitric Oxide Preserves Lung Growth and Increases FGF Receptor Signaling in Neonatal Mice Exposed to Hyperoxia. Pediatric Academic Society [4365.2] 2006

Lori J Alexander, Peter J Giannone, Craig A Nankervis, **Louis G Chicoine**, Peter Richardson, Leif D Nelin. Extubation of Mechanically Ventilated Neonates. Pediatric Academic Society [491] 2006

Louis G Chicoine, Christopher J Shilling, Paul T Martin, Brian K Kaspar, Douglas M McCarty, K Reed Clark, Jerry R Mendell. Regional Gene Delivery with rAAVB to Lower Limb Skeletal Muscle in Mice. Pediatric Academic Society [2881.344] 2006

Elizabeth M Martin, Peter J Giannone, Craig A Nankervis, **Louis G Chicoine**, Lori J Alexander, Leslie Thomas, Stephen E Welty, Leif D Nelin. Standardized Guidelines for the Care of Extremely Premature Infants in an NICU. Pediatric Academic Society [4850.234] 2006

Leif D Nelin, Tamara L Young, Dionna M Hatch, Michael R Stenger, **Louis G Chicoine**, B Keith English, Yusen Liu. Inhaled Nitric Oxide Prevents the Hyperoxia-Induced Activation of p38 and JNK in Neonatal Mice Lungs. Pediatric Academic Society [4365.4] 2006

Tamara L Young, Xianxi Wang, Qun Zhao, Dionna M Hatch, **Louis G Chicoine**, B Keith English, Yusen Liu, Leif D Nelin. Deficiency of Mitogen Activated Protein Kinase Phosphatase-1 Results in Greater Lipopolysaccharide-Induced Nitric Oxide Production. Pediatric Academic Society [5525.142] 2006

Liza Rizo, Christopher J Shilling, Amanda Haidet, Priya Umapathi, Zarife Sahenk, **Louis G Chicoine**, Jerry R Mendell, Brian K Kaspar. rAAV Gene Delivery of Follistatin for Muscle Enhancement in Limb-Girdle Muscular Dystrophy Type 2D. Pediatric Academic Society [2881.343] 2006

Louis G Chicoine, Matthew J Metropoulos, Mark R Girton, Michael R Stenger, Leif D Nelin. Maturation Change in NO Sensitivity Are Due to Increases in Soluble Guanylyl Cyclase in the Developing Rat Lung. Pediatric Academic Society [3875.2] 2006

Michael R Stenger, **Louis G Chicoine**, Lynette K Rogers, Dionna M Hatch, Stephen E Welty, Leif D Nelin. Adding Nitric Oxide to a Hyperoxic Exposure Results in 3-Nitrotyrosine Formation and Neutrophil Influx in the Lungs of Neonatal Mice. Pediatric Academic Society [4365.6] 2006

Michael R Stenger, **Louis G Chicoine**, Charles V Smith, Lynette K Rogers, Stephen E Welty, Leif D Nelin. Survival and Growth of Neonatal Mice Exposed to Nitric Oxide and Hyperoxia. Pediatric Academic Society [1757] 2005

Rossana Chang, Benjamin R Walker, Nancy L Kanagy, **Louis G Chicoine**, Leif D Nelin. Cytokine-Induced Arginase Expression in Bovine Pulmonary Arterial Endothelial Cells Depends on Src Tyrosine Kinases. Pediatric Academic Society [78] 2005

Chad E Landsettle, **Louis G Chicoine**. Differential Regulation of Pulmonary Nitric Oxide Production in the Developing Rat. Pediatric Academic Society [2524] 2005

Louis G Chicoine, Esther Rieger-Fackeldey, Tamara L Young, Yusen Liu, Leif D Nelin. Cytokine-Induced Nitric Oxide Production Is Due Mainly to Inducible Nitric Oxide Synthase in Bovine Pulmonary Arterial Endothelial Cells. Pediatric Academic Society [837] 2005

Min Soo Park, Ester Rieger-Fackeldey, Brandon L Schanbacher, Mandar S Joshi, Angela C Cook, **Louis G Chicoine**, Leif D Nelin, John A Bauer, Stephen E Welty, Charles V Smith. The Effects of 14 d of Hyperoxia and 14 d of Recovery on Lung Development in Newborn Mice. Pediatric Academic Society [2026] 2005

Tamara L Young, B Keith English, **Louis G Chicoine**, Yusen Liu, Leif D Nelin. Epidermal Growth Factor Receptor Kinase Regulates Cytokine-induced Arginase Expression in Bovine Pulmonary Arterial Endothelial Cells. Pediatric Academic Society [2535] 2005

Michael R Stenger, **Louis G Chicoine**, Tamara L Young, Yusen Liu, Leif D Nelin. L-Lysine Decreases Both Nitric Oxide and Urea Production in Bovine Pulmonary Arterial Endothelial Cells Transfected with Inducible Nitric Oxide Synthase. Pediatric Academic Society [1227] 2005

Louis G Chicoine, Michael L Paffett, Steven Saenz, Leif D Nelin. Differential Regulation of Pulmonary Vasoconstriction by Nitric Oxide in the Developing Rat. Pediatric Academic Society [2831] 2004

Tamara L Young, **Louis G Chicoine**, Yusen Liu, Leif D Nelin. Genistein Inhibits Cytokine-Induced Arginase Expression and Urea Production in Pulmonary Arterial Endothelial Cells. Pediatric Academic Society [2846] 2004

Louis G Chicoine, Rebekah Bryan, Steven Saenz, Michael Paffett, Leif D Nelin, Benjamin R Walker. Tracheal Adenovirus-Mediated iNOS Gene Transfection Attenuates U-46619 Induced Pulmonary Arterial Constriction in Isolated Rat Lungs. Pediatric Academic Society [2618] 2003

Leif D Nelin, Barney W Carter, Kate P Stanley, Rossana Chang, **Louis G Chicoine**. L-Lysine Decreases Nitric Oxide Production in Lungs Isolated from Lipopolysaccharide Treated Neonatal Pigs. Pediatric Academic Society [3244] 2003

Kate P Stanley, **Louis G Chicoine**, Leif D Nelin. Hypoxia Attenuates Oxide Production in bovine Pulmonary Arterial Endothelial Cells Transfected with Inducible Nitric Oxide Synthase. Pediatric Academic Society [3215] 2003

Leif D Nelin, Barney W Carter, **Louis G Chicoine**. L-arginine Increases Nitric Oxide Production and Reverses Hypoxic Pulmonary Vasoconstriction in Isolated Perfused Neonatal Pig Lungs. Pediatric Academic Society [1919] 2002

Kate P Stanley, **Louis G Chicoine**, Leif D Nelin. Inducible Nitric Oxide Synthase and Arginase Compete for the Common Substrate L-arginine in Bovine Pulmonary Arterial Endothelial Cells (bPAEC). Pediatric Academic Society - [2783] 2002.

Rossana Chang, B Keith English, Kate P Stanley, **Louis G Chicoine**, Leif D Nelin. The Signal Transduction Pathway Involved in Arginase Induction Caused by Cytokine Treatment of Bovine Pulmonary Arterial Endothelial Cells. Pediatric Academic Society [2742] 2002

SCIENTIFIC PRESENTATIONS/FORUMS:

1. **Federation of American Societies for Experimental Biology (FASEB'01):** Adenovirus transfection with inducible nitric oxide Synthase decreases arginase activity in bovine pulmonary arterial endothelial cells, May 2001.
2. **The American Pediatric Society/The Society for Pediatric Research (SPR'00) and Federation of American Societies for Experimental Biology (FASEB'00):** Developmental differences in pulmonary eNOS expression in response to chronic hypoxia in the rat, May 2000.
3. **Federation of American Societies for Experimental Biology (FASEB'00):** Nitric oxide attenuates hypoxia-inducible factor-mediated endothelin-1 gene expression, May 2000.
4. **The American Pediatric Society/The Society for Pediatric Research (SPR'99):** Adenovirus-mediated iNOS gene transfection attenuates U-46619 induced pulmonary arterial constriction in isolated rat lungs, May 1999.
5. **Society for Pediatric Research (SPR'95):** Developmental Biology Poster Session. Insulin-like growth factor binding protein production changes dramatically in bovine pulmonary artery smooth muscle cells during development, May 1995.
6. **Western Society for Pediatric Research (WSPR'94):** Plenary Session. Insulin-like growth factor II increases tropoelastin mRNA in neonatal vascular smooth muscle cells via the type II/mannose-6-phosphate receptor, February 1994.
7. **Society for Pediatric Research (SPR'94):** Growth Factors Poster Symposium. Insulin-like growth factor II increases tropoelastin mRNA in neonatal vascular smooth muscle cells via two distinct IGF receptors, May 1994.

8. **7th Annual NICHD Aspen Conference on Maternal-Fetal-Neonatal-Reproductive** for a Research Career in Perinatology, Secondary Reviewer, August 1995.
9. **24th Aspen Conference on Perinatal Research:** Presenter. Insulin-like growth factor binding protein production changes in bovine pulmonary artery smooth muscle cells during development and in phenotypically distinct adult SMC populations, September 1995.
10. **Perinatal and Developmental Medicine Symposium:** Regulators of Fetal Development and Postnatal Function. Insulin-like growth factor II increases tropoelastin mRNA in neonatal vascular smooth muscle cells via two distinct IGF receptors, November 1994.

Abstracts:

Jessica Lauren Slutzky, Elizabeth K Natale, Spencer L Sprinkle, **Louis G Chicoine**. Resveratrol prevents RV/T changes in neonatal model of hypoxia induced pulmonary hypertension. FASEB Journal 2009

Zhaoshen Han, Arthur J Pope, Arturo J Cardounel, Leif D Nelin, **Louis G Chicoine**. Increased ADMA/protein methylation modulates nitric oxide generation in hypoxic human lung Microvascular endothelial cells. FASEB Journal 2009

Elizabeth Kathleen Natale, Jessica L Slutzky, **Louis G Chicoine**. Resveratrol reverses both thromboxane A2 receptor and non receptor (k+) mediated pulmonary vasoconstriction. FASEB Journal 2009

Stein MA, Preston TJ, **Chicoine LG**, Shepherd ES, Nankervis CA, Nelin LD. A Randomized Controlled Trial Comparing Fluidic Flip Nasal CPAP to SiPAP in the NICU. [Poster Presentation] 2009 Pediatric Academic Societies' Annual Meeting, Baltimore, MD., May 2-5, 2009

Gomez D, Preston T, Olshove V, **Chicoine L**, Nicol K. Air Handling Capabilities of Common ECLS Components. 25th Annual CNMC Symposium: ECMO & The Advances Therapies for Respiratory Failure. Keystone, CO., February 2009

Louis G. Chicoine, , Mark Girton, Adam S. Feuer, Leif Nelin. MKP-1 Deficiency Augments LPS-Induced NO Production in the Lung. SPR May 2008

Louis G. Chicoine, Mark R. Girton, Adam S. Feuer, Leif D. Nelin. Mice Deficient in MKP-1 Develop Severe Pulmonary Hypertension in Hypoxia. SPR May 2008

Thomas J. Calvert, **Louis G. Chicoine**, Yusen Liu, Leif D. Nelin. Inhibition of L-arginine Uptake Prevents Endotoxin-Induced Hypotension in Mitogen Activated Protein Kinase Phosphatase-1 Deficient Mice. SPR May 2008

Inimary T. Toby, **Louis G. Chicoine**, Hongmei Cui, Yusen Liu, Leif D. Nelin. Hypoxia-induced Proliferation of Human Pulmonary Microvascular Endothelial Cells Depends on Epidermal Growth Factor Receptor Tyrosine Kinase Activity. SPR May 2008

Louise R. Rodino-Klapac, Chrystal L. Montgomery, Nathaniel A. Walton, Janaiah Kota, Brian D. Coley, K. Reed Clark, Jerry R Mendell, **Louis G. Chicoine**. Gastrocnemius Targeted Vascular Delivery of AAV8 in Non-Human Primates. SPR May 2008

Louis G Chicoine, Mark R. Girton, Adam S. Feuer, Arturo J. Cardounel, Leif D. Nelin. The Role of Monomethyl L-arginine in the Regulation of Pulmonary Vascular Tone in Neonatal Lung. SPR 2008

Leif D Nelin, Thomas J Calvert, **Louis G Chicoine**, and Yusen Liu. Lipopolysaccharide-induced nitric oxide production and hypotension in Mkp-1 deficient mice depends on L-arginine uptake. FASEB Journal 2008

Inimary T Toby, **Louis G. Chicoine**, Hongmei Cui, and Leif D Nelin. Hypoxia-induced proliferation of human pulmonary Microvascular endothelial cells depends on epidermal growth factor receptor (EGFR) tyrosine kinase activity. FASEB Journal. 2008

Mark R Girton, Yusen Liu, Leif D Nelin, **Louis G Chicoine**. MKP-1 Deficiency Augments LPS-Induced NO Production in the Lung. The FASEB Journal - 2008

Clifford L Cua, Lynette K. Rodgers, Molly Augustine, Yi Jin, **Louis G Chicoine**, Leif D Nelin. Down Syndrome Patients with Pulmonary Hypertension Have Relatively High Plasma Levels of Asymmetric Dimethylarginine. SPR May 2008

Hongmei Cui, **Louis G. Chicoine**, Yusen Liu, Leif D. Nelin. The Cytotoxic Effects of Inducible Nitric Oxide Synthase Depend on L-arginine Uptake in Pulmonary Arterial Endothelial Cells. SPR May 2008

Peter Richardson, Melanie Stein, Stephen E. Welty, **Louis G. Chicoine**, Alfred L. Gest, Leif D. Nelin. The Effect of PEEP or CPAP on Thoraco-Abdominal Asynchrony in Neonatal Patients with BPD. SPR 2008

Olshove VF, Preston TJ, Gomez D, Burnside JB, **Chicoine LG**, Nicol KK. Assessment of a platelet bolus on an in-vitro extracorporeal life support (ECLS) circuit. [Poster Presentation], 24th Annual CNMC Symposium, Keystone, Colorado, February 2008

Chicoine LG, Rodino-Klapac L, Montgomery C, Walton N, Kota J, Coley BD, Clark KR, and Mendell JR. Gastrocnemius Targeted Vascular Delivery of AAV8 in Non-Human Primates. ASGT 2008

Chicoine LG, Girton MR, Nelin LD, and Cardounel AJ. Developmental differences in pulmonary nitric oxide production and endogenous nitric oxide Synthase in the neonatal rat. Columbus Children's Res. Inst and Ohio State University. The FASEB Journal (979.15) 2007

Toby I, **Chicoine LG**, and Nelin, LD. EGFR stimulation promotes proliferation in human pulmonary Microvascular endothelial cells. Ohio State Univ. Col of Med. And Publ. Hth. And Columbus Children's Research Inst. (977.8) *The FASEB Journal* 2007

Cui H, English BK, **Chicoine LG**, and Nelin LD. Src family tyrosine kinases and cytokine-induced arginase expression in pulmonary Microvascular endothelial cells. Columbus Children's Res. Inst. And Univ. of Tennessee Hlth, Sci.Ctr. (977.6) *The FASEB Journal* 2007

Evans RJ, Young TL, **Chicoine LG**, and Nelin, LD. Cytokine-induced L-arginine metabolism depends on cationic amino acid transporter activity. Columbus Children's Research Inst. (977.3) *The FASEB Journal* 2007

Chicoine LG, Stenger MR, Metropoulos, MJ Girton, MR and Nelin LD. Maturation changes in NO sensitivity are due to increases in soluble Guanylyl Cyclase in the developing rat lung. *The FASEB Journal* 2006.

MR Stenger, **Chicoine LG**, Liu Y, Hatch DM, and Nelin LD. Nitric oxide increases mortality and prevents MKP-1 expression in neonatal mice exposed to Hyperoxia. *The FASEB Journal* 2006.

Chicoine LG, Shilling CJ, Martin P, Kaspar B, McCarty D, Clark KR, Mendell JR. Regional Gene Delivery with rAAV8 to Lower Limb Skeletal Muscle in Mice. *SPR* May 2006

Nelin LD, Chicoine LG, Wang X, Hatch DM, Young TL, and Liu Y. MKP-1 deficiency results in greater LPS-induced nitric oxide production in Mice. Ohio State University. *The FASEB Journal* 2006

Rizo L; Shilling CJ, Haidet A, Umapathi P, Sahenk Z, **Chicoine LG**, Mendell JR and Kaspar BK. rAAV Gene Delivery of Follistatin for Muscle Enhancement in Limb-Girdle Muscular Dystrophy Type 2D. *Pub* 2881:343 *SPR* May 2006

Chicoine LG, Young TL, and Nelin LD. Hypoxia attenuates nitric oxide production in bovine pulmonary arterial endothelial cells transected with inducible nitric oxide Synthase. *The FASEB Journal* 2005.

Nelin LD, **Chicoine LG**, English BK, Young TL, and Liu Y. MKP-1 Switches arginine metabolism from NOS to arginase in RAW264.7 cells. *The FASEB Journal* 2005.

Nelin LD, Young TL, English BK, **Chicoine LG**, and Liu Y. Epidermal growth factor receptor kinase is involved in cytokine-induced arginase, but not nitric oxide synthase, up regulation in bovine pulmonary arterial endothelial cells. *The FASEB Journal* 2005.

Chicoine LG, Young TL, and Nelin LD. Hypoxia attenuates nitric oxide production in bovine pulmonary arterial endothelial cells transected with inducible nitric oxide synthase. *The FASEB Journal* 2005.

Young TL, **Chicoine LG**, Liu Y, Nelin LD. Genistein Inhibits Cytokine-Induced Arginase Expression and Urea Production in Pulmonary Arterial Endothelial Cells. *Pediatric Research* 53 (4):502A. 2004.

Chicoine LG, Paffett ML, Saenz S, Nelin LD. Differential Regulation of Pulmonary Vasoconstriction by Nitric Oxide in the Developing Rat. *Pediatric Research* 55 (4): 499A. 2004.

Chicoine LG, M. L. Paffett, S. Saenz, R. Bryan, T.C. Resta, L. D.Nelin and B. R. Walker. Differential regulation of pulmonary vasoconstriction by nitric oxide in the developing neonate. Ohio State Univ. and Univ. of New Mexico. *FASEB Journal*. 477D, 2004

L.D. Nelin and **L G. Chicoine**. L-Arginine, but not d-arginine, increases nitric oxide production and vasodilates hypoxic neonatal pig lungs. Ohio State Univ. *FASEB Journal*, 473D, 2004

Nelin, LD, Carter BW, Stanley, KP, Chang R, **Chicoine LG**. L-Lysine Decreases Nitric Oxide Production in Lungs Isolated from Lipopolysaccharide Treated Neonatal Pigs. *Pediatric Research* 53 (4): 572A. 2003.

Stanley, K, **Chicoine LG**, and Nelin LD. Hypoxia Attenuates Nitric Oxide Production in Bovine Pulmonary Arterial Endothelial Cells Transfected with Inducible Nitric Oxide Synthase. *Pediatric Research* 53 (4): 567A. 2003.

Chicoine LG, Bryan R, Saenz S, Paffett, Nelin LD, and Walker BR. Tracheal Adenovirus-Mediated iNOS Gene Transfection Attenuates U-46619 Induced Pulmonary Arterial Constriction in Isolated Rat Lungs. *Pediatric Research* 53 (4): 463A. 2003.

Stanley, K, Chang, R, **Chicoine LG**, and Nelin LD. L-arginine uptake is not affected by iNOS transfection in bovine pulmonary arterial endothelial cells. *The FASEB Journal*, 17(4): A421 2003.

Chicoine, LG, Bryan, R Saenz S, Paffett, Nelin LD, and Walker BR. Intratracheal Pulmonary Adenoviral iNOS Transfection Decreases Vasoconstrictor Responses in Rats. *The FASEB Journal*, 17(4):A413 2003.

Carter BW, **Chicoine, LG**, and Nelin LD. Inhibiting Arginine Uptake Decreases Nitric Oxide Production in Isolated Lungs from Cytokine t-Treated Neonatal Pigs. *The FASEB Journal* 16 (4)A76, 2002.

The Effect of SRC-family Tyrosine Kinase Inhibition on Urea Production in Cytokine Stimulated Bovine Pulmonary Arterial Endothelial Cells. *The FASEB Journal* 16 (4)A405, 2002.

Stanley KP, **Chicoine LG**, and Nelin LD. Inducible nitric oxide Synthase and arginase compete for the common substrate L-arginine in bovine pulmonary arterial endothelial cells (bPAEC). *Pediatric Research*, 2002.

Stanley KP, **Chicoine LG**, and Nelin LD. Adenovirus transfection with inducible nitric oxide Synthase decreases arginase activity in bovine pulmonary arterial endothelial cells. *The FASEB Journal* 15(5): A317, 2001.

Earley S, Walker BR, and **Chicoine LG**. Nitric oxide attenuates hypoxia-inducible factor-mediated endothelin-1 gene expression. *The FASEB Journal* 14(4): A123, 2000.

Chicoine LG, Avitia JW, Deen C, Earley S, Nelin LD, and Walker BR. Developmental differences in pulmonary eNOS expression in response to chronic hypoxia in the rat. *The FASEB Journal* 14(4): A125: 2000.

Chicoine LG, Resta TC, Earley S, Lyons RC, Gerard RD, and Walker BR. Adenovirus-mediated iNOS gene transfection attenuates U-46619 induced pulmonary arterial constriction in isolated rat lungs. *Pediatric Research* 45(4): 297A, 1998.

Chicoine L, Lindsey RE, Savich Renate, and Lung D. Endothelia gene expression does not change with oligohydramnios-induced pulmonary hyperplasia. *Pediatric Research* 43: 278A, 1998.

Chicoine LG, Townsend SF, and Stenmark KR. Insulin-like growth factor binding protein (IGFBP) production changes dramatically in bovine pulmonary artery smooth muscle cells (SMC) during development. *Pediatric Research* 37: 60A, 1995.

Chicoine LG, Townsend SF, Badesch DB, and Stenmark KR. Insulin-like growth factor II (IGF-II) increases tropoelastin mRNA in neonatal vascular smooth muscle cells (SMCs) via two distinct IGF receptors. *Pediatric Research* 35: 328A, 1994.

Chicoine LG, Townsend SF, and Stenmark KR. Insulin-like growth factor II increases tropoelastin mRNA in neonatal vascular smooth muscle cells (SMCs) via the type 2/mannose-6-phosphate receptor. *Clinical Research* 42: 9A, 1994.

Chicoine LG, Guo Y-S, Thompson JC, Townsend Jr CM, and Singh P. Differences in the molecular size of gastrin receptors (GR) on normal and cancerous gut tissues from mice. *Gastroenterology* 94:A67, 1988.

Chicoine LG, Guo Y-S, Thompson JC, Townsend Jr C.M, and Singh P. Regulation of gastrin receptor and gastrin levels by gonadal steroids in vivo in rodents. *Gastroenterology* 94: A67, 1988.

Singh P, and **Chicoine LG**. Species-dependent differences in the molecular size of gastrin receptors by covalent cross-linking studies. *The FASEB Journal* 2: 2551, 1988.

Chicoine LG, and Singh P. Gastrin mediated effects of gonadal steroids on the growth of mouse colon cancer cells in vivo. *The 29th National Student Research Forum Publication*, April 6-8, 1988.