

CURRICULUM VITAE

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EDUCATION

Undergraduate New York University
New York, New York
1963-1967
B.A., Majors: Biology and German: 1967

Medical School Medical College of Pennsylvania
Philadelphia, Pennsylvania
1968-1970

Tufts University
Boston, Massachusetts
1970-1972
Medical Degree: 1972

POSTGRADUATE TRAINING

Residency Internship, Pediatrics
Stanford University School of Medicine
Stanford, California
1972-1973

Junior Residency, Pediatrics
Stanford University School of Medicine
Stanford, California
1973-1974

Senior Residency, Pediatrics
Boston City Hospital
Boston University School of Medicine
Boston, Massachusetts
1974-1975

**Fellowship in
Neonatal-
Perinatal
Medicine** Women & Infants Hospital of Rhode Island
Alpert Medical School of Brown University
Providence, Rhode Island
1975-1978

POSTGRADUATE HONORS AND AWARDS

1969	Forman Fleisher Foundation Scholarship
1969	Joseph Collins Scholarship
1969	Woman's Medical College Scholarship
1970	Summer Fellowship in Neurology Boston University
1971	Scholarship for Study Abroad International College of Surgeons
1986	Master of Arts Brown University
1996-1997	Listed in <i>"The Best Doctors in America, 1996-1997"</i>
2003-2004	Listed in <i>"The Best Doctors in America, 2003-2004"</i>
2004-2005	Listed in <i>"Guide to America's Top Pediatricians, 2004-2005"</i>
2008	Listed in <i>"Montclair Who's Who in Healthcare, 2008"</i>
2008-2009	Listed in <i>"The Best Doctors in America, 2008-2009"</i>
2009	Listed in <i>"Marquis Who's Who in America - 2009 63rd Edition"</i>
2011	Listed in <i>"US News and World Reports" – Top Doctors 2011</i>
2011	Listed in the Marquis Who's Who in America - 2011 (66th Edition).
2011	Listed in Castle Connolly's "Top Doctor's" 2011
2012	Listed in the Marquis Who's Who in America - 2012 (66th Edition).
2012	Listed in Castle Connolly's "Top Doctor's" 2012
2013	Listed in "Best Doctors in America" in 2013.
2013	Listed in Castle Connolly's "Top Doctor's" 2013
2014	Listed in "Best Doctors in America" in 2014.
2014	Listed in Castle Connolly's "Top Doctor's" 2014

- 2015 Listed in Castle Connolly's "Top Doctor's" 2015
- 2015 Received certificate of appreciation from the Dean of Okayama University Medical School, Okayama, Japan for support of Medical Research Experience Program 2014.
- 2015 Received a plaque of appreciation from The Korean Society of Neonatology for distinguished lecture on the "Development of The Blood-Brain Barrier: Relevance to Perinatal Medicine" at the 22nd Annual Autumn Meeting of the Korean Society of Neonatology October 23, 2015.
- 2016 Listed in Castle Connolly's "Top Doctor's"
- 2016 Listed in Castle Connolly's "Top Doctor's Providence"
- 2017 Listed in Castle Connolly's "Top Doctor's"
- 2017 Top reviewer award from the editors of Pediatric Research
- 2018 America's Most Honored Professionals 2017 - Top 1%
- 2018 Listed in Castle Connolly's "Top Doctor's"
- 2019 Listed in Castle Connolly's "Regional Top Doctor"
- 2019 America's Most Honored Professionals 2019 - Top 1%

BOARD CERTIFICATION

- 1973 National Board of Medical Examiners
No. 127281
- 1977 American Board of Pediatrics
No. 20685
- 1983 American Board of Pediatrics
Sub-board in Neonatal-Perinatal Medicine
No. 1315

PROFESSIONAL LICENSURE

- 1974 Commonwealth of Massachusetts, No. 58916
- 1974 State of California, No. GO27189
- 1978 State of Rhode Island, No. CMD 5375

ACADEMIC APPOINTMENTS

1975-1978	Brown University Teaching Fellow
1978-1979	Brown University Instructor in Pediatrics
1979-1985	Brown University Assistant Professor in Pediatrics
1985-1992	Brown University Associate Professor in Pediatrics
1992-Present	Brown University Professor in Pediatrics

HOSPITAL APPOINTMENTS

1978-Present	Women & Infants Hospital of Rhode Island Staff Neonatologist
1995-2017	Women & Infants Hospital of Rhode Island Program Director, Fellowship in Neonatal-Perinatal Medicine
1978-1984	Roger Williams General Hospital Scientific Staff
1978-1985	Rhode Island Hospital Assistant Physician, Pediatrics
1985-1992	Rhode Island Hospital Associate Physician, Pediatrics
1992-Present	Rhode Island Hospital Physician, Pediatrics

OTHER APPOINTMENTS (EDITORIAL BOARDS AND ADMINISTRATIVE ACTIVITIES)

1978-2005	Physician-In-Charge, Resuscitation Areas Women & Infants Hospital of Rhode Island
1978-Present	Coordinator, Perinatal Management Conference Women & Infants Hospital of Rhode Island
1990-1992	Site Coordinator, Survanta Treatment IND

Women & Infants Hospital of Rhode Island

- 1985 CO-Chairman
Program Committee for Neonatology Section
Society for Pediatric Research, Washington, DC
- 1987 CO-Chairperson
Cerebral Circulation Symposium
Society for Pediatric Research, Anaheim, CA
- 1992 Chairperson
7th Congress of the Federation of Asia-Oceania
Perinatal Societies, Surfactant Replacement Therapy
Bangkok, Thailand
- 1994 Moderator
20th Annual New England Conference on Perinatal
Research
Chatham, MA
- 1994-1995 Member, Search Committee for the Editor of the
Journal of Pediatrics
- 1996 Moderator
The Oh Symposium
Providence, RI
- 1996 Session Chair
1996 Pediatric Academic Societies' Annual Meeting
Washington, DC
- 1997 Secretary/Treasurer
American Academy of Pediatrics
District I, Perinatal Pediatrics Section
- 2004 Member, Scientific Program Committee
Society for Gynecologic Investigation 2005 Meeting
Los Angeles, CA
- 2004-2009 Council Member
Eastern Society of Pediatric Research
- 2004-2006 Nominations Committee Member
Section on Perinatal Pediatrics
American Academy of Pediatrics
- 2005 Abstract Reviewer
22nd International Symposium on Cerebral Blood
Flow, Metabolism and Function & 7th International
Conference on Qualification of Brain Function with
PET, Amsterdam, The Netherlands
- 2005 Moderator, Neonatology III: Animal Models in

Neonatology Research, Eastern Society of
Pediatric Research

- 2005 Member
Abstract Reviewer
Society for Gynecologic Investigation Annual Meeting
and Scientific Forum (March)
- 2006 Moderator, Major Ethical Dilemmas in Perinatology,
14th Congress of the Federation of Asia Oceania
Perinatal Societies (14th FAOPS), Bangkok, Thailand
- 2007 Abstract Reviewer for The 23rd International
Symposium on Cerebral Blood Flow, Metabolism, and
Function & 8th International Conference on
Quantification of Brain Function with PET, Osaka,
Japan
- 2007 Member, Nominating Committee for the Eastern
Society for Pediatric Research to elect the President
and new Council Members.
- 2009 Member, National Institutes of Health Consensus
Development Conference: Inhaled Nitric Oxide in
Preterm Infants Planning Committee Meeting
Planning Committee
- 2011 Moderator Eastern Society Perinatal Research
Philadelphia, PA March 25-27, 2011
- 2011 Abstract reviewer for the 2012 Pediatric Academic
Societies Annual Meeting Boston, MA.
- 2012 Member, National Bronchopulmonary Dysplasia
Group, Columbus, OH.
- 2012 Abstract reviewer for the 2012 Pediatric Academic
Societies Annual Meeting, Washington, D.C.
- 2013 Abstract reviewer for the 2013 Pediatric Academic
Societies Annual Meeting, Washington, D.C.
- 2014 Abstract reviewer for the 2014 International Stroke
Conference 2014 (ISC)
- 2014 Abstract reviewer for the 2014 Pediatric Academic
Societies Annual Meeting, Vancouver, Canada.
- 2014 Master's Thesis reviewer for Biomedical Science
Programme, The University of Auckland
- 2015 Abstract reviewer for the 2015 Pediatric Academic
Societies Annual Meeting, San Diego, California

OTHER APPOINTMENTS: RESEARCH GRANT REVIEWER

1985	Site Visitor National Institute of Neurological and Communicative Disorders and Stroke (NINCDS)
1991	Ad Hoc Member Human Embryology and Development Study Section NIH
1991-1995	Member Human Embryology and Development Study Section Division of Research Grants, NIH
1993	Chairperson Special Human Embryology and Development Review Committee Division of Research Grants NIH (May)
1993	Member Special Site Visit Review Group for Program Project Grant Division of Research Grants NIH (November)
1993	Chairperson Special Human Embryology and Development Review Committee, Division of Research Grants NIH (December)
1994	Chairperson Special Human Embryology and Development Review Committee, Division of Research Grants NIH (September)
1995-Present	Member National Institutes of Health Reviewers Reserve
1999	Member Department of Health and Human Resources NIH, National Institute of Child Health and Human Development Special Emphasis Panel, California (July)
2000	Ad Hoc Reviewer for Research Proposal Wellcome Trust

London, UK (March)

2004-2010 Member, Committee A
March of Dimes Birth Defects Foundation

2004 Ad Hoc Member
Developmental Brain Disorders
Study Section (November)

2005 Ad Hoc Reviewer for Research Proposal
Diabetes UK (October)

2006 Ad Hoc Reviewer for Research Proposal
Wellcome Trust
London, UK (May)

2006 Ad Hoc Member
Developmental Brain Disorders
Study Section (June)

2006 Ad Hoc Reviewer for Research Proposal
Health Research Board
Dublin, Ireland (December)

2008 Ad Hoc Reviewer
Endometrium Special Emphasis Panel
Endocrinology, Metabolism, Nutrition and
Reproductive Sciences Review Group
The National Institute of Health (February)

2008 Ad Hoc Reviewer for Research Proposal for the
Career Investigator Program – Scholar
Michael Smith Foundation for Health Research
Vancouver, British Columbia, Canada (February)

2009 Ad Hoc Reviewer for Research Proposal for the Swiss
National Science Foundation, Zurich, Switzerland
(May)

2010 Ad Hoc Member
Special Emphasis Panel/Scientific Review Group,
ZRG1 Disorders and Clinical Neuroscience-N (02) M
Internet Assisted Review (February, 25-26)

2010 Ad Hoc Member
Conflict Special Emphasis Panel: “Brain Disorders”
ZRG1 Brain Disorders and Clinical Neuroscience-W
(02), Internet Assisted Review (April, 15)

2010 Ad Hoc Reviewer for Research Proposal for the Swiss
National Science Foundation, Zurich, Switzerland
(May)

2010-2013	Chartered Member, Brain Injury and Neurovascular Pathologies Study Section (BINP), Center for Scientific Review, NIH
2011	Ad Hoc Reviewer for Auckland Medical Research Foundation September 2011
2013	Ad Hoc Reviewer for Swiss National Science Foundation, Zurich, Switzerland (June)
2015	NIH Member Conflict: Neurologic Disorders (Teleconference). July 2015
2016	Ad Hoc Reviewer for Swiss National Science Foundation, Zurich, Switzerland (June)
2016	Ad Hoc Reviewer for NIH Developmental Brain Disorders Study Section October 2016
2017	Ad Hoc Reviewer for NIH Special Emphasis Panel/Scientific Review Group February 2017
2017	Ad Hoc Reviewer for Medical Research Council's Industry Asset Sharing Initiative UK February 2017
2018	Ad Hoc Reviewer for NIH Developmental Brain Disorders Study Section October 2018
2019	Ad Hoc Reviewer for NIH Special Emphasis Panel/Scientific Review Group (The BBB, Neurovascular System and CNS Therapeutics) September 2019
2019	Reviewer for Charles H. Hood Foundation Major Grants Program November 2019

OTHER APPOINTMENTS: EDITORIAL RESPONSIBILITIES

1994-2004	Editor Academy of Pediatrics Perinatal Newsletter, Section 1
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OTHER APPOINTMENTS: EDITORIAL BOARD

1990-1997	Journal of Pediatrics
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OTHER APPOINTMENTS: REGULAR REVIEWER FOR:

1980-Present

Acta Neuropathologica Communications
Acta Paediatrica
American Journal of Diseases of Childhood
American Journal of Epidemiology
American Journal of Obstetrics and Gynecology
American Journal of Physiology
Annals of Neurology
Behavioural Brain Research
Blood Advances
Biology of the Neonate
Brain Injury
Brain, Behavior, and Immunity
Brain Research
Brain Research Bulletin
British Journal of Medicine and Medical Research
British Journal of Pharmacology
Congenital Heart Disease
Circulation Research
Circulatory Shock
Comparative Biochemistry and Physiology
Developmental Med & Child Neurology
Developmental Pharmacology and Therapeutics
Early Human Development
Endocrinology
European Journal of Pharmacology
Experimental Neurology
Frontiers in Neurology
Fundamental & Clinical Pharmacology
Genes, Brain and Behavior
Journal of Applied Physiology
Journal of Cerebral Blood Flow and Metabolism
Journal of Clinical Investigation
Journal of Pediatric Intensive Care
Journal of Neuroendocrinology
Journal of Neuroinflammation
Journal of Neuroscience Research
Journal of Neurochemistry
Journal of Pediatrics
Journal of Pediatric Neuroradiology
Journal of Perinatal Medicine
Journal of Perinatology
Journal of Physiology (London)
Journal of the Society for Gynecologic Investigation
Laboratory Investigation
Life Sciences
Molecular and Cellular Endocrinology
Neonatology
Neurobiology of Aging
Neurobiology of Disease
Neurochemical Research
Neuroscience
Neuroscience Letters
Neurochemistry Research

New England Journal of Medicine
Obstetrics & Gynecology
Pediatrics
Pediatric Research
Placenta
PLoS ONE
Society for Experimental Biology and Medicine
Stress
Stroke

HOSPITAL COMMITTEES

Intramural Committees

1978-1992	Member, Utilization Review Subcommittee Women & Infants Hospital of Rhode Island
1978-1992	Member, Utilization Review Subcommittee Women & Infants Hospital of Rhode Island
1980-1997	Member, Blood Utilization Subcommittee Women & Infants Hospital of Rhode Island
1989-1997	Member, Pharmacy and Therapeutics Committee
1990-1997	Member, Continuing Medical Education Committee
1993-1994	Member, Health Sciences Information Committee
1995-Present	Member, Code Committee
1997-Present	Member, Graduate Medical Education Committee
2007-Present	Member, Breast Feeding Task Force
2010 - Present	Founding Member, Bronchopulmonary Dysplasia Interdisciplinary Team: Severe

Extramural Committees

1994-1996	Member, Operations Committee Ronald McDonald House
1994	Member, Scientific Peer Review Committee for Rhode Island Hospital Developmental Research Grants Rhode Island Hospital
1996-1998	Member, Annual Research Poster Day Committee Rhode Island Hospital
2003-2004	Member, Nominations Committee, Section on Perinatal Pediatric (SOPPe) American Academy of Pediatrics

2010-present Member, National Bronchopulmonary Dysplasia
Collaborative

UNIVERSITY COMMITTEES

1987-1990 Member, Search Committee for Pediatric Cardiologist
Rhode Island Hospital, Providence, RI

1990-1991 Member, Search Committee for Pediatric Geneticist
Rhode Island Hospital, Providence, RI

1992-1994 Member, Search Committee for Director, Division of
Pediatric Neurology
Rhode Island Hospital, Providence, RI

1992-1993 Member, Search Committee for Pediatric Pathologist
Women & Infants Hospital of Rhode Island
Providence, RI

1993-1994 Member, Brown University School of Medicine
Mission Statement Committee
Brown University, Providence, RI

1993-1994 Member, Brown University Executive Mission
Statement Committee for the School of Medicine and
the Program in Biology
Brown University, Providence, RI

1998-1999 Member, Search Committee for Chief of Pathology
Women & Infants Hospital of Rhode Island
Providence, RI

1999 Member, Search Committee for Staff Pathologist
Women & Infants Hospital of Rhode Island
Providence, RI

1999-2002 Member, Committee on Faculty Appointments
Brown Medical School, Providence, RI

2000-2002 Chairperson, Search Committee for Staff
Neonatologist, Department of Pediatrics
Memorial Hospital of Rhode Island, Pawtucket, RI

2002-2004 Member, Search Committee for Chairman of
Pediatrics
Brown Medical School, Providence, RI

2002-2003 Member, Task Force, Committee of Medical Faculty
Appointments
Brown Medical School, Providence, RI

2003-2005	Member, Faculty Subcommittee of the Liaison Committee on Medical Education (AAMC, AMA) Brown Medical School, Providence, RI
2005-2007	Chair, Search Committee for Director of the Genetics Division for the Department of Pediatrics Hasbro Children's Hospital, Providence, RI
2010-2017	Member, Medical Faculty Executive Committee (MFEC) , The Alpert Medical School of Brown University, Brown University, Providence, RI

MEMBERSHIP IN SOCIETIES

1970-1978	American Women's Medical Association
1978-Present	American Academy of Pediatrics
1980-Present	Society for Pediatric Research
1989-Present	American Physiological Society
1990-Present	Perinatal Research Society
1992-Present	American Pediatric Society
1993-1994	New York Academy of Sciences
1997-Present	Society for Neuroscience
1997-Present	American Association for the Advancement of Science
2003-Present	Society for Gynecologic Investigation
2012-Present	American Heart Association, including: Council on Cardiovascular Disease in the Young Council on Epidemiology & Prevention

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. **Ross, B.S.**, Peter, G., Dempsey J.M., and Oh, W. Klebsiella pneumoniae nosocomial epidemic in an intensive care nursery due to contaminated intravenous fluid. *Am. J. Dis. Child.* 131(6): 712, 1977.
2. **Ross, B.S.**, Cowett, R.M., and Oh, W. Renal functions of low-birth weight infants during the first two months of life. *Pediatr. Res.* 11(11): 1162-1164, 1977.
3. **Stonestreet, B.S.**, and Oh, W. Plasma creatine levels in low-birth weight infants in the first three months of life. *Pediatrics* 61(5): 788-789, 1978.
4. **Ross, B.S.**, Pollak, A., and Oh, W. The pharmacologic effects of furosemide therapy in the low-birth weight infant. *J. Pediatr.* 92(1): 149-152, 1978.
5. Boyle, R.J., Chandler, B.D., **Stonestreet, B.S.**, and Oh, W. Early identification of sepsis in infants with respiratory distress. *Pediatrics* 62(5): 744-750, 1978.
6. Boyle, R., Nelson, J.S., **Stonestreet, B.S.**, Peter, G., and Oh, W. Alterations in stool flora resulting from oral kanamycin prophylaxis of necrotizing enterocolitis. *J. Pediatr.* 93(5): 857-861, 1978.
7. Pollak, A., Susa, J.B., **Stonestreet, B.S.**, Schwartz, R., and Oh, W. Phosphoenolpyruvate carboxykinase in experimental intrauterine growth retardation in rats. *Pediatr. Res.* 13(3): 175-177, 1979.
8. Cowett, R.M., Oh, W., Pollak, A., Schwartz, R., and **Stonestreet, B.S.** Glucose disposal of low-birth weight infants. Steady state hyperglycemia produced by constant intravenous glucose infusion. *Pediatrics* 63(3): 389-396, 1979.
9. **Stonestreet, B.S.**, Bell E., and Oh, W. Validity of endogenous creatinine clearance in low birthweight infants. *Pediatr. Res.* 13(9): 1012-1014, 1979.
10. Bell, E.F., Warburton, D., **Stonestreet, B.S.**, and Oh, W. High volume fluid intake predisposes premature infants to necrotizing enterocolitis. *The Lancet.* 2(8133): 90, 1979.
11. **Stonestreet, B.S.**, Rubin, L., Pollak, A., Cowett, R.M., and Oh, W. Renal functions of low birth weight infants with hyperglycemia and glucosuria produced by glucose infusions. *Pediatrics.* 66(4): 561-567, 1980.
12. Bell, E.F., Warburton, D., **Stonestreet, B.S.**, and Oh, W. Effect of fluid administration on the development of symptomatic patent ductus arteriosus and congestive heart failure in premature infants. *N. Engl. J. Med.* 302(11): 598-604, 1980.
13. Cowett, R.M., Susa, J.B., Warburton, D., **Stonestreet, B.S.**, Schwartz, R., and Oh, W. Endogenous posthepatic insulin secretion and metabolic clearance rates in the neonatal lamb. *Pediatr. Res.* 14(12): 1391-1394, 1980.
14. Cashore, W.J., Peter, G., Lauermann, M., **Stonestreet, B.S.**, and Oh, W. Clostridia colonization and clostridial toxin in neonatal necrotizing enterocolitis. *J. Pediatr.* 98(2): 308-311, 1981.
15. Laptook, A., **Stonestreet, B.S.**, and Oh, W. Autoregulation of brain blood flow in the newborn piglet: regional differences in flow reduction during hypotension. *Early Hum. Dev.* 6(1): 99-107, 1982.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

16. Laptook, A., **Stonestreet, B.S.**, and Oh, W. The effects of different rates of plasmanate infusions upon brain blood flow after asphyxia and hypotension in newborn piglets. *J. Pediatr.* 100(5): 791-796, 1982.
17. **Stonestreet, B.S.**, Laptook, A.R., Schanler, R., and Oh, W. Hemodynamic responses to asphyxia in spontaneously breathing newborn term and premature lambs. *Early Hum. Dev.* 7(1): 81-97, 1982.
18. Laptook, A.R., **Stonestreet, B.S.**, and Oh, W. Brain blood flow and O₂ delivery during hemorrhagic hypotension in the piglet. *Pediatr. Res.* 17(1): 77-80, 1983.
19. **Stonestreet, B.S.**, Bell, E.F., Warburton, D., and Oh, W. Renal response in low-birth weight neonates. Results of prolonged intake of two different amounts of fluid and sodium. *Am. J. Dis. Child.* 137(3): 215-219, 1983.
20. Warburton, D., Bell, E.F., **Stonestreet, B.S.**, and Oh, W. Echocardiographic effects of high and low volumes of maintenance fluid administration in low-birth weight infants. *Dev. Pharmacol. Ther.* 6(1): 45-54, 1983.
21. **Stonestreet, B.S.**, Nowicki, P.T., Hansen, N.B., Petit R., and Oh, W. Effect of aminophylline on brain blood flow in the newborn piglet. *Dev. Pharm. Ther.* 6(4): 248-258, 1983.
22. Hansen, N.B., **Stonestreet, B.S.**, Rosenkrantz, T.S., and Oh, W. Validity of Doppler measurements of anterior cerebral artery blood flow velocity: correlation with brain blood flow in piglets. *Pediatrics* 72(4): 526-531, 1983.
23. Laptook, A.R., **Stonestreet, B.S.**, and Oh, W. The effect of carotid artery ligation on brain blood flow in newborn piglets. *Brain Res.* 276(1): 51-54, 1983.
24. Hansen, N.B., Oh, W., LaRochelle, F., and **Stonestreet, B.S.** Effects of maternal ritodrine administration on neonatal renal function. *J. Pediatr.* 103(5): 774-780, 1983.
25. Nowicki, P.T., **Stonestreet, B.S.**, Hansen, N.B., Yao, A.C., and Oh, W. Gastrointestinal blood flow and oxygen consumption in awake newborn piglets: effect of feeding. *Am. J. Physiol.* 245(5): (Gastrointest. Liver Physiol. 8): G697-G702, 1983.
26. **Stonestreet, B.S.**, Hansen, N.B., Laptook, A.R., and Oh, W. Glucocorticoid accelerates renal functional maturation in fetal lambs. *Early Hum. Dev.* 8(3-4): 331-341, 1983.
27. Rosenkrantz, T., **Stonestreet, B.S.**, Hansen, N.B., Nowicki, P.T., and Oh, W. Cerebral blood flow in the newborn lamb with polycythemia and hyperviscosity. *J. Pediatr.* 104(2): 276-280, 1984.
28. Nowicki, P.T., Hansen, N.B., Oh, W., and **Stonestreet, B.S.** Gastrointestinal blood flow and oxygen consumption in the newborn lamb: effect of chronic anemia and acute hypoxia. *Pediatr. Res.* 18(5): 420-425, 1984.
29. **Stonestreet, B.S.**, Laptook, A.R., Siegel, S.R., and Oh, W. The renal response to acute asphyxia in spontaneously breathing newborn lambs. *Early Hum. Dev.* 9(4): 347-361, 1984.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

30. Nowicki, P.T., Oh, W., Yao, A.C., Hansen, N.B., and **Stonestreet, B.S.** Effect of polycythemia on gastrointestinal blood flow and oxygenation in piglets. *Am. J. Physiol.* 247(3): (Gastrointest. Liver Physiol. 10): G220-G225, 1984.
31. Hansen, N.B., Brubakk, A.M., Bratlid, D., Oh, W., and **Stonestreet, B.S.** The effects of variations in PaCO₂ on brain blood flow and cardiac output in the newborn piglet. *Pediatr. Res.* 18(11): 1132-1136, 1984.
32. Brubakk, A.M., Bratlid, D., Oh, W., Yao, A.C., and **Stonestreet, B.S.** Atropine prevents increases in brain blood flow during hypertension in newborn piglets. *Pediatr. Res.* 18(11): 1121-1126, 1984.
33. Nowicki, P.T., Hansen, N.B., **Stonestreet, B.S.**, Yao, A.C., and Oh, W. The effect of blood volume expansion on gastrointestinal oxygenation in piglets. *Pediatr. Res.* 19(3): 268-271, 1985.
34. Szabo, J.S., **Stonestreet, B.S.**, and Oh, W. Effects of hypoxemia on gastrointestinal blood flow and gastric emptying in the newborn piglet. *Pediatr. Res.* 19(5): 466-471, 1985.
35. Burgess, G.H., **Stonestreet, B.S.**, Cashore, W.J., and Oh, W. Brain bilirubin deposition and brain blood flow during acute urea-induced hyperosmolarity in newborn piglets. *Pediatr. Res.* 19(6): 537-542, 1985.
36. Burgess, G.H., Oh, W., Bratlid, D., Brubakk, A.M., Cashore, W.J., and **Stonestreet, B.S.** The effects of brain blood flow on brain bilirubin deposition in newborn piglets. *Pediatr. Res.* 19(7): 691-696, 1985.
37. Mayfield, S.R., **Stonestreet, B.S.**, Brubakk, A.M., Shaul, P.W., and Oh, W. Regional blood flow in newborn piglets during environmental cold stress. *Am. J. Physiol.* 251(3): (Gastrointest. Liver Physiol. 14): G308-G313, 1986.
38. Szabo, J.S., Mayfield, S.R., Oh, W., and **Stonestreet, B.S.** Postprandial gastrointestinal blood flow and oxygen consumption: effects of hypoxemia on neonatal piglets. *Pediatr. Res.* 21(1): 93-98, 1987.
39. Brubakk, A.M., Oh, W., and **Stonestreet, B.S.** Prolonged hypercarbia in the awake newborn piglet: effect on brain blood flow and cardiac output. *Pediatr. Res.* 21(1): 29-33, 1987.
40. Mayfield, S.R., Shaul, P.W., Oh, W., and **Stonestreet, B.S.** Anemia blunts the thermogenic response to environmental cold stress in newborn piglets. *Pediatr. Res.* 21(5): 482-486, 1987.
41. Brann, B.S. IV, **Stonestreet, B.S.**, Oh, W. and Cashore, W.J. The *in vivo* effect of bilirubin and sulfisoxazole on cerebral oxygen, glucose, and lactate metabolism in newborn piglets. *Pediatr. Res.* 22(2): 135-141, 1987.
42. Goldstein, M., **Stonestreet, B.S.**, Brann, B.S. IV, and Oh, W. Cerebral cortical blood flow and oxygen metabolism in normocythemic hyperviscous newborn piglets. *Pediatr. Res.* 24(4): 486-489, 1988.
43. Mayfield, S.R., Oh, W., Piva, D.L., and **Stonestreet, B.S.** Postprandial gastrointestinal blood flow and oxygen consumption during environmental cold stress. *Am. J. Physiol.* 256(2): (Gastrointest. Liver Physiol. 19): G364-G368, 1989.

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

44. **Stonestreet, B.S.**, Piasecki, G.J., Susa, J.B., and Jackson, B.T. Effects of insulin infusion on plasma catecholamine concentration in fetal sheep. *Am. J. Obstet. Gynecol.* 160(3): 740-745, 1989.
45. Lee, C., Oh, W., **Stonestreet, B.S.**, and Cashore, W.J. Permeability of the blood-brain barrier for ¹²⁵I-albumin-bound bilirubin in newborn piglets. *Pediatr. Res.* 25(5): 452-456, 1989.
46. Ogburn. P.L. Jr., Goldstein, M., Walker, J., and **Stonestreet, B.S.** Prolonged hyperinsulinemia reduces plasma fatty acid levels in the major lipid groups in fetal sheep. *Am. J. Obstet. Gynecol.* 161(3): 728-732, 1989.
47. **Stonestreet, B.S.**, Ogburn. P.L. Jr., Goldstein, M., Oh, W., and Widness, J.A. Effects of chronic fetal hyperinsulinemia on plasma arachidonic acid and prostaglandin concentrations. *Am. J. Obstet. Gynecol.* 161(4): 894-899, 1989.
48. Georgieff, M.K., Widness, J.A., Mills, M.M., and **Stonestreet, B.S.** The effect of prolonged intrauterine hyperinsulinemia on iron utilization in fetal sheep. *Pediatr. Res.* 26(5): 467-469, 1989.
49. **Stonestreet, B.S.**, Goldstein, M., Oh, W., and Widness, J.A. Effects of prolonged hyperinsulinemia on erythropoiesis in fetal sheep. *Am. J. Physiol.* 257(5): (Regulatory Integrative Comp. Physiol. 26: R1199-R1204, 1989.
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219. Chen, X., Hovanesian, V., Naqvi, S., Sadowska, G., Zhang, J., Donahue, J., Stopa, E., **Stonestreet, B.S.**, Systemic infusions of anti-interleukin-1 β (IL-1 β) neutralizing antibodies (mAb) reduce hypoxic-ischemic (HI) injury in fetal brain. Presented by Barbara Stonestreet, MD at the Barriers of the CNS Gordon Research Conference 6/23/16 at Colby-Sawyer College, New Hampshire.
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238. Schuffels, S., Chen, X., Nakada, S., Chen, R., Lim, Y-P., **Stonestreet, B.S.** Inter-alpha inhibitor proteins (IAIPs) attenuate hypoxic-ischemic brain injury in male and female neonatal rats. Pediatric Academic Societies, 2019. (Platform) 4240 *
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242. Nakada, S., Chen, X., Lim, Y-P, Chen, R., **Stonestreet, B.S.** Inter-alpha inhibitor proteins (IAIPs) attenuate oligodendrocyte loss in male neonatal rats with hypoxic-ischemic (HI) brain injury. Pediatric Academic Societies, 2019. 7920 *
243. Chen, R., Teshigawara, K., Qiu, J., Santoso, A., Disdier, C., Nakada, S., Chen, X., Nishibori, M., **Stonestreet, B.S.**, Lim, Y-P. Inter-alpha inhibitor proteins (IAIPs) bind to the ubiquitous high mobility group box-1 (HMGB1) nuclear proteins. Pediatric Academic Societies, 2019. 8142 *
244. Chen, X., Lim, Y-P., **Stonestreet, B.S.**, Bank, W.A. Inter-alpha inhibitor proteins, blood-brain barrier permeability, and cytokine transport in mouse brain. Cerebral Vascular Biology Conference, June, 2019.

* Abstracts presented at the American Pediatric Society and the Society for Pediatric Research

++ Abstracts presented at international meetings

** Abstracts presented at Society for Neuroscience Meeting

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INVITED PRESENTATIONS

1. Renal function of low birth weight infants with respiratory morbidities during the first two months of life. Presented at the Second Annual New England Conference on Perinatal Research, Newport, RI (October 1976).
2. The pharmacological effect of furosemide therapy in low birth weight infants. Presented at the Mead Johnson Aspen Conference on Perinatal Research, Aspen, CO (April 1977).
3. The pharmacological effect of furosemide therapy in low birth weight infants. Presented at the Third Annual New England Conference on Perinatal Research, Newport, RI (October 1977).
4. The effects of fluid and sodium intake and renal compensation on the postnatal changes of extracellular fluid in low birth weight infants. Presented at the American Pediatric Society and the Society for Pediatric Research, Atlanta, GA (May 1979).
5. Renal functions of low birth weight infants with hyperglycemia and glucosuria produced by glucose infusions. Presented at the American Institute of Nutrition, American Society for Clinical Nutrition, Nutrition Society of Canada Joint Meeting, Guelph, Ontario, Canada (August 1979).
6. The effects of asphyxia on organ blood flow in the neonatal lamb. Presented at the Fifth Annual New England Conference on Perinatal Research, Newport, RI (October 1979).
7. Asphyxia-induced renal pathophysiology in the newborn lamb. Presented at the American Pediatric Society and the Society for Pediatric Research, San Antonio, TX (May 1980).
8. Asphyxia-induced hemodynamic changes in the newborn lamb. Presented at the American Pediatric Society and the Society for Pediatric Research, San Antonio, TX (May 1980).
9. Maternal ritodrine administration alters neonatal renal function in preterm infants. Presented at the British Neonatal Society, Nottingham, England (July 1983).
10. Fetal cardiovascular responses to prolonged insulin infusions. Presented at the Second Mead Johnson Perinatal Oxygenation Meeting, Baltimore, MD (November 1983).
11. Cardiovascular responses to insulin infusions in the ovine fetus. Presented at the National Institute of Child Health and Human Development Center for Research for Mothers and Children. 1984 Meeting of the Perinatal Emphasis Research Center Directors, Harriman, NY (March 1984).
12. Cardiovascular responses to insulin infusions in the ovine fetus. Presented at the American Pediatric Society and the Society for Pediatric Research, San Francisco, CA (May 1984).
13. Control of cerebral circulation in the newborn piglet. Presented at the International Neonatal Intensive Care Colloquium, Chatham, MA (June 1985).
14. The effect of hypercarbia on brain blood flow in the newborn. Presented at the Long Island Jewish Hillside Medical Center, New Hyde Park, NY (December 1985).

INVITED PRESENTATIONS

15. The effect of hypercarbia on brain blood flow in the newborn. Presented at Hammersmith Hospital, London, England (January 1986).
16. Autoregulation of brain blood flow during hypercarbia in piglets. Presented at the American Pediatric Society and the Society for Pediatric Research, Washington, DC (May 1986).
17. The effects of prolonged hyperinsulinemia (HI) on red cell mass (RCM) in fetal sheep. Presented at the American Pediatric Society and the Society for Pediatric Research, Anaheim, CA (April 1987).
18. Effects of hypoxia (H) and superimposed reductions in cardiac output (CO) on organ blood flow (Q) and O₂ metabolism in piglets. Presented at the American Pediatric Society and the Society for Pediatric Research, Anaheim, CA (April 1987).
19. Prolonged fetal hyperinsulinemia (HI) reduces arterial arachidonic acid (AA) and thromboxane B₂ (Tx) concentrations. Presented at the American Pediatric Society and the Society for Pediatric Research, Anaheim, CA (April 1987).
20. Effects of hypoxia and superimposed reductions in cardiac output on organ blood flow and O₂ metabolism in piglets. Presented at the International Symposium on Fetal and Neonatal Development, Oxford, England (August 1987).
21. Prolonged fetal hyperinsulinemia reduces arterial arachidonic acid (AA) and thromboxane B₂ (Tx) concentrations. Presented at the Fourth Interdisciplinary Neonatal Gastroenterology/Nutrition Symposium, Hilton Head, SC (October 1987).
22. Effects of hypoxia and superimposed reductions in cardiac output on organ blood flow and O₂ metabolism in piglets. Presented at the Mead Johnson 1987 Perinatal Perfusion Conference, Houston, TX (November, 1987).
23. Effects of acute hypoxia in hyperinsulinemic fetal sheep. Presented at the American Pediatric Society and the Society for Pediatric Research, Washington, DC (May 1988).
24. Effects of acute hypoxia on organ blood flow and oxygen delivery in hyperinsulinemic fetal sheep. Presented at the American Pediatric Society and the Society for Pediatric Research, Washington, DC (May 1989).
25. β -adrenergic blockade in the hyperinsulinemic ovine fetus. Presented at the American Pediatric Society and the Society for Pediatric Research, Anaheim, CA (May 1990).
26. The effect of hyperinsulinemia in the ovine fetus. Presented at the Department of Perinatology Research, University of California at San Diego, San Diego, CA (May 1990).
27. The effect of hyperinsulinemia in the ovine fetus. Presented at the Department of Surgical Research, Rhode Island Hospital, Brown University, Providence, RI (March 1990).
28. Pathophysiology of brain blood flow in newborn piglets. Presented at the Hammersmith Hospital, London, England (August 1991).
29. α -adrenergic blockade in the hyperinsulinemic ovine fetus. Presented at the American Pediatric Society and the Society for Pediatric Research, Baltimore, MD (May 1992).

INVITED PRESENTATIONS

30. Cerebral circulation in the newborn. Presented at the Department of Neurosurgery, Rhode Island Hospital, Providence, RI (August 1992).
31. Cerebral blood flow monitoring in neonates. Presented at the 7th Congress of the Federation of the Asia-Oceania Perinatal Societies, Bangkok, Thailand (October, 1992).
32. High-tech in perinatal medicine: current advances in NICU. Presented at the 7th Congress of the Federation of the Asia-Oceania Perinatal Societies, Bangkok, Thailand (October 1992).
33. Persistent pulmonary hypertension in the newborn. Presented at Grand Rounds, Department of Pediatrics, Rhode Island Hospital, Providence, RI (December 1992).
34. Persistent pulmonary hypertension in the newborn. Presented at Grand Rounds, Department of Pediatrics, Soroko Medical Center, Berr-Sheba, Israel (December 1992).
35. Cerebral blood flow in newborn piglets. Presented at the Israel Neonatal Society, Tel Aviv, Israel (January 1993).
36. Diabetes in pregnancy: effects of insulinemia in the ovine fetus. Presented at the Israel Neonatal Society, Tel Aviv, Israel (January 1993).
37. Surfactant replacement therapy: experience in Rhode Island. Presented at the Rhode Island Society for Respiratory Care, Newport Challenge 1993, Newport, RI (March 1993).
38. Diabetes in pregnancy: effects of hyperinsulinemia in the ovine fetus. Presented while serving as Visiting Professor, Department of Pediatrics, University of Alabama, Birmingham, AL (August 1993).
39. Effect of indomethacin on brain blood flow (BBF) and cerebral metabolic rate (CMRO₂) in the hyperglycemic ovine fetus. Presented at the Society for Gynecologic Investigation, Chicago, IL (March 1994).
40. Blood-brain barrier function in ovine fetuses and lambs. Presented at the American Pediatric Society and the Society for Pediatric Research, Seattle, WA (May 1994).
41. Effects of osmolar stress on the blood-brain barriers (BBB) in ovine fetuses and lambs. Presented at the American Pediatric Society and the Society for Pediatric Research, Seattle, WA (May 1994).
42. Effects of indomethacin on brain blood flow (BBF) and cerebral metabolic rate (CMRO₂) in the hyperglycemic ovine fetus. Presented at the American Pediatric Society and the Society for Pediatric Research, Seattle, WA (May 1994).
43. Brain water regulation in osmotically stressed fetuses. Presented at the American Pediatric Society and the Society for Pediatric Research, San Diego, CA (May 1995).
44. Effects of glucose induced osmolar stress on the blood-brain barrier (BBB) in ovine fetuses and lambs. Presented at the American Pediatric Society and the Society for Pediatric Research, San Diego, CA (May 1995).

INVITED PRESENTATIONS

45. Antenatal steroids decrease blood-brain barrier permeability in the ovine fetus. Presented at the Pediatric Academic Societies, Washington, DC (May 1997).
46. The effects of exogenous glucose infusions on brain ischemia in ovine fetuses. Presented at the Fetal and Neonatal Physiological Society, Los Angeles, CA (September 1998).
47. Effects of antenatal steroids on blood-brain barrier (BBB) permeability in early gestation ovine fetuses. Presented at the Society for Neuroscience, Los Angeles, CA (November 1998).
48. The effect of duration of positive-pressure ventilation on blood-brain barrier function in premature lambs. Presented at the Pediatric Academic Societies, San Francisco, CA (May 1999).
49. Effects of age and endogenous cortisol concentrations on blood-brain barrier development in the ovine fetus. Presented at the Pediatric Academic Societies, San Francisco, CA (May 1999).
50. Effects of antenatal steroids on regional brain and peripheral tissue water concentrations on the ovine fetus. Presented at the Pediatric Academic Societies, San Francisco, CA (May 1999).
51. Effects of repeated courses of antenatal corticosteroids on regional brain and non-neural tissue water concentrations in ovine fetuses. Presented at the Pediatric Academic Societies, Boston, MA (May 2000).
52. Effects of repeated courses of antenatal corticosteroids on blood-brain barrier function in early gestation ovine fetuses. Presented at the Pediatric Academic Societies, Boston, MA (May 2000).
53. Brown Medical Faculty Development Workshop, Providence, RI (March 2002).
54. Intraventricular hemorrhage: an update. Presented at the Middle East Medical Assembly (MEMA), Beirut, Lebanon (May 2004).
55. Blood-brain barrier: clinical implications for the newborn. Presented at the Middle East Medical Assembly, Beirut, Lebanon (May 2004).
56. Intraventricular hemorrhage in the newborn: An update. Presented at Grand Rounds at Hanyang Medical Center, Seoul, Korea (November 2004).
57. Intraventricular hemorrhage in the newborn: An update. Presented at Grand Rounds at Asian Medical Center, Seoul, Korea (November 2004).
58. An intraventricular hemorrhage: An update. Presented at the Korean Society of Perinatology, Seoul, Korea (November 2004).
59. Blood-brain barrier permeability: Structure, Function, and Development. Presented at the Korean Society of Perinatology, Seoul, Korea (November 2004).

INVITED PRESENTATIONS

60. Blood-brain barrier permeability: Structure, Function, and Development. Presented at the Eastern Society for Pediatric Research Annual Meeting. Neonatology III: Animal Models in Neonatology Research, Keynote Lecture, Old Greenwich, CT (March 2005)
61. Lower Limits of Viability – Case Presentation, Survival Statistics, and Outcomes. Presented at the 14th Congress of the FAOPS 2006 (Federation of Asia and Oceania Perinatal Societies), Bangkok, Thailand (October, 2006).
62. Pathophysiology of Bilirubin in Low Birthweight Infants, Treatment Guidelines and Outcomes. Presented at the 14th Congress of the FAOPS 2006 (Federation of Asia and Oceania Perinatal Societies), Bangkok, Thailand (October, 2006).
63. Effects of single and multiple courses of maternal dexamethasone treatment on tight junction proteins expression in the cerebellum of fetal sheep. Presented at 13th Annual Oregon Health and Science University Blood-Brain Barrier Consortium, Stevenson, WA (March, 2007).
64. Intraventricular Hemorrhage in Premature Infants. Special Lecture. Presented at the 52nd Annual Meeting of the Society for Research into Hydrocephalus and Spina Bifida, Brown University, Providence, RI (June, 2008).
65. Brown University - Biology 2850 - Introduction to Faculty Research - Development of the Blood-Brain Barrier, Providence, RI (September, 2008).
66. Intraventricular Hemorrhage in Premature Infants. Rhode Island Hospital Neurology Grand Rounds, Rhode Island Hospital, Providence, RI (February, 2009)
67. Brown University - Biology 2850 - Introduction to Faculty Research - Development of the Blood-Brain Barrier - Relationship to Perinatal Medicine, Providence, RI (September, 2009).
68. Hypoxic-Ischemic Encephalopathy: When Do You Need a Cool Head? Presented at “A Day with the Newborn” conference at St. Christopher’s Hospital for Children, Philadelphia, PA (January, 2010).
69. Intraventricular Hemorrhage in Premature Infants. Presented at the Neonatology Division at St. Christopher’s Hospital for Children, Philadelphia, PA (January, 2010)
70. Development of the Blood-Brain Barrier, Relationship to Perinatal Medicine. Presented at “Fetal Symposium” at Society for Gynecologic Investigation, Orlando, FL (March, 2010).
71. Development of the Blood-Brain Barrier, Relationship to Perinatal Medicine. Presented at Neurology Grand Rounds, Rhode Island Hospital, Providence, RI (April 2, 2010).
72. Development of the Blood-Brain Barrier, Relationship to Perinatal Medicine. Visiting Newborn Research Professor at Massachusetts General Hospital; Presented at Newborn Research Seminar, Newborn Services, Massachusetts General Hospital, Boston, Massachusetts (June 16, 2010).

INVITED PRESENTATIONS

73. Antenatal Exposure to Indomethacin for Tocolysis: Effects on the neonate. Presented at Obstetrics and Gynecology Grand Rounds, Women & Infants Hospital of Rhode Island, Providence, RI (July 8, 2010).
74. Ontogeny and the effects of exogenous and endogenous glucocorticoids on the blood-brain barrier of sheep. Presented at Cold Spring Harbor Laboratory Meeting–Blood Brain Barrier, Cold Spring Harbor, NY (December 9, 2010).
75. Development of the Blood-Brain Barrier Relationship to Perinatal Medicine at the Rhode Island-INBRE Seminar Series 2011-2012 held at the University of Rhode Island, Kingstown, RI (November 8, 2011).
76. Intraventricular Hemorrhage in the Preterm Infant. Presented at Neurology Grand Rounds, Rhode Island Hospital, Providence, RI (March 28, 2012).
77. Intraventricular hemorrhage in premature infants. Presented at Grand Rounds, Memorial Hospital of Rhode Island, Pawtucket, RI. (February 7, 2013).
78. Chen, C., Sadowska, G.B., Zhang, J., Cummings, E., Lim, Y.P., Banks, W.A., Stonestreet, B.S. Interleukin-1 β neutralizing antibody attenuates blood-brain barrier dysfunction after ischemia in the ovine fetus. 10th International Conference on Cerebral Vascular Biology, Montreal, Canada (2013).
79. Hypoxic-Ischemic Brain Injury, Inflammation, and Potential neuroprotective Strategies Meeting of Seoul-Gyeongin District for Korean Society of Neonatology Sevrans Hospital, Seoul, Korea (October 21, 2015).
80. Intraventricular Hemorrhage in Premature Infants at Hanyang University Medical Center (October 22, 2015).
81. Development of the Blood-Brain Barrier: Relevance to Perinatal Medicine. 22nd Annual Autumn Meeting of the Korean Society of Neonatology, Convention Center, Grand Ballroom, Seoul, Korea, (October 23, 2015).
82. Hypoxic-Ischemic Brain Injury, Inflammation, and Potential Neuroprotective Strategies at the Celebratory Event in honor of Lynne Levitsky, M.D. Massachusetts General Hospital, Boston, MA (April 4, 2016)
83. The Blood-Brain Barrier in Health and Disease in Perinatal Medicine. Oregon Health & Science University/Doernbecher Children's Hospital, Pediatrics Bench-Bedside Research Seminar, Portland, OR (November 14, 2017).
84. Clinical Perspectives of the BBB and Development. 2018 Annual BBB Consortium Meeting, Portland, OR. (March 15, 2018).
85. Intraventricular Hemorrhage in Premature Infants. Grand Rounds, Department of Pediatrics, Division of Neonatology at University of Kentucky Healthcare, Lexington, KY. (March 27, 2018).
86. Development and the BBB: Clinical Perspectives. Department of Pediatrics, Loma Linda University Medical Center, Loma Linda, CA (April 5, 2018).

INVITED PRESENTATIONS

87. Inter-alpha Inhibitors: Structure, Function, Expression, and Neuroprotection after Hypoxic Ischemic Brain Injury. Department of Pediatrics, Loma Linda University Medical Center, Loma Linda, CA (April 6, 2018).
88. The Blood-Brain Barrier in Health and Disease in Perinatal Medicine. Keynote Speaker: 26th Annual Scientific Meeting of the Psychoneuroimmunology Research Society, Miami Beach, FL (June 8, 2018)
89. Inter-alpha Inhibitors: Structure, Function, Expression, and Neuroprotection after Hypoxic Ischemic Brain Injury. University of South Florida Health Morsani College of Medicine, Tampa, FL. (October 2, 2018)
90. Inter-alpha Inhibitor Proteins: Structure, Function, Expression, and Neuroprotection after Hypoxic-Ischemic Brain Injury. F.M. Kirby Neurobiology Center, Boston Children's Hospital.(May 7, 2019)
91. Inter-alpha Inhibitor Proteins: Structure, Function, Expression, and Neuroprotection after Hypoxic-Ischemic Brain Injury. Neuroimmune Mini Symposium, Veterans Administration/ Puget Sound Health Care System, Seattle, WA; the symposium was part of the events scheduled to honor Dr. William Banks, a recipient of the William S. Middleton Award. (May 17, 2019)

GRANTS

Project Title: The effects of asphyxia and hypotension on physiologic and anatomic renal parameters in the prematurely delivered lamb.
Role: Principal Investigator
Funding Agency: Charles H. Hood Foundation for Child Health
Duration of Award: 1979-1982
Amount per Year: \$24,500

Project Title: The effects of asphyxia and hypotension on renal physiology and anatomy in preterm and term lambs.
Role: Principal Investigator
Funding Agency: Basil O'Connor Starter Research, The National Foundation March of Dimes
Project Number: 5-256
Duration of Award: 1982-1983
Amount per Year: \$64,790

Project Title: Circulatory alterations in the neonatal brain.
Role: Principal Investigator
Funding Agency: American Heart Association Grant-In-Aid
Duration of Award: 1982-1983
Amount per Year: \$10,086

Project Title: Diabetes during pregnancy: effects on the offspring. Fetal circulatory adjustments in the diabetic pregnancy. (Sub-project VIII)
Role: Principal Investigator
Funding Agency: NICHD
Project Number: P50 11343
Duration of Award: 1985-1990
Amount per Year: \$46,717

Project Title: Diabetes during pregnancy: effects on the offspring. Fetal circulatory adjustments in the diabetic pregnancy. (Sub-project VIII)
Role: Principal Investigator
Funding Agency: NICHD
Project Number: P50 11343
Duration of Award: 1990-1992
Amount per Year: \$352,146

Project Title: Metabolism in the ovine fetus. (Sub-contract from L. Levitsky, M.D.)
Role: CO-Investigator
Funding Agency: NICHD
Project Number: HD22891
Duration of Award: 1990-1991
Amount per Year: \$40,000

GRANTS

Project Title: Evaluation of three dosing procedures for the administration of Survanta7 (beractant) in the treatment of neonatal respiratory distress syndrome.
Role: Principal Investigator
Funding Agency: Ross Laboratories
Duration of Award: 1991
Amount per Year: \$40,000

Project Title: Multicenter Neonatal Network
Role: CO-Principal Investigator
Funding Agency: NIH
Duration of Award: 1991-1992
Amount per Year: -

Project Title: Diabetes during pregnancy: effects on the offspring. Perinatal glucose homeostasis: effects on the brain. (Sub-project IV)
Role: Principal Investigator
Funding Agency: NICHD
Project Number: P50 HD11343
Duration of Award: 1991-1995
Amount per Year: \$148,934

Project Title: Effect of antenatal steroid therapy on hemodynamic adaptation to birth
Role: Co-Principal Investigator
Funding Agency: Wyeth Pediatric Neonatology Research Fund
Duration of Award: 1995-1996
Amount per Year: \$3,400

Project Title: Effects of monophosphoryl lipid R on intestinal ischemia/reperfusion in newborn piglets.
Role: Principal Investigator
Funding Agency: RIBI Immunochemical
Duration of Award: 1996-1997
Amount per Year: \$45,000

Project Title: Hormonal regulation of brain maturation
Role: Principal Investigator
Funding Agency: NIH
Project Number: 1RO1-HD/NS 3461801A1
Duration of Award: 1997-2001
Amount per Year: \$152,002

Project Title: Cytokines and the blood-brain barrier in the ovine fetus
Role: Principal Investigator
Funding Agency: NIH
Project Number: 1 R01 HD057100-01
Duration of Award: 2008-2013
Amount per Year: \$204,961

GRANTS

Project Title: Cytokines and the blood-brain barrier in the ovine fetus - Student Stimulus supplement
Role: Principal Investigator
Funding Agency: NIH
Project Number: 3R01HD057100-02S1
Duration of Award: 06/01/2009 – 10/31/2009
Amount per Year: \$10,830

Project Title: Neuroprotective anti-Inflammatory strategies to prevent damage to the premature brain
Role: Principal Investigator
Funding Agency: Rhode Island Research Alliance Collaborative Grant Awards
Project Number: RIRA 2010-42
Duration of Award: 2/1/2010 – 06/30/2011
Amount per Year: \$199,953

Project Title: Cytokines and the blood-brain barrier in the ovine fetus - Stimulus supplement for Stereo Investigator Software and Microscope
Role: Principal Investigator
Funding Agency: NIH
Project Number: 3R01HD057100-03S1
Duration of Award: 10/1/2009-9/30/2010
Amount per Year: \$95,000

Project Title: Anti-inflammatory intervention and neurobehavioral outcome in neonatal ischemia
Role: Co-PI Mentor
Funding Agency: National Institutes of Health (NIH) RI-INBRE Program
Project Number: P20RR016457-11
Duration of Award: 5/1/2011 - 4/30/2013
Amount per year: \$45,000

Project Title: Anti-inflammatory interventions to attenuate ischemic brain damage in fetal sheep.
Role: Co-PI/Mentor
Funding Agency: 2011-2012 Klaus Perinatal Research Award
Project Number: 2011-2012 Klaus Perinatal Research Award
Duration of Award: 1 year
Amount per year: \$5000.00

Project Title: Effects of IL-1 β on tight junction proteins of the blood-brain barrier and potential attenuation by anti-IL-1 β neutralizing antibodies
Role: Mentor
Funding Agency: Received the 2012 Summer Assistantship through Brown University's Basic and Translational Research (BTR) Program training grant from the National Heart, Lung and Blood Institution, NIH
Project Number: T35 HL094308
Duration of Award: 2011-2012
Amount per year: \$4370.00

GRANTS

Role: Neonatal Brain Injury: Mediating Factors for Improved neurobehavioral
Funding Agency: Outcome
Mentor-Consultant
National Institute of Health
Project Number: R15HD077544
Duration of Award: 08/01/2013-07/31/2016
Amount per year: \$125,000

Project Title: The Neuroprotective effects of New Anti-HMGB1 Antibodies in
Neonatal Hypoxic-Ischemic Brain Injury
Role: Mentor

Funding Agency: American Heart Association
Project Number: 13POST1680015
Duration of Award: 07/01/2013-06/30/2015
Amount per year: \$89,000

Project Title: Inter-alpha inhibitors in hypoxic-ischemic brain injury
Role: Co-Investigator
Funding Agency: National Institutes of Health
Project Number: 1R43NSO084575-01
Duration of Award: 07/01/2014-06/30/2015
Amount per year: \$65,336

Project Title: Neuroprotective Effects of Novel Anti-HMGB1 Antibody on Neonatal
Brain Ischemia
Role: Co-PI
Funding Agency: Brown Biomed Division DEANS Award
Project Number:
Duration of Award: 07/01/2014-06/30/2015
Amount per year: \$80,000

Project Title: Inter-alpha inhibitors protect preterm brain from hypoxic-ischemic injury
Role: Co-PI
Funding Agency: William and Mary Oh-William and Elsa Zopfi Professorship
Project Number:
Duration of Award: 05/01/2015-04/30/2016
Amount per year: \$20,000

Project Title: Inter-alpha inhibitor proteins reduce inflammatory hypoxic-ischemic
brain injury
Role: Co-PI
Funding Agency: William and Mary Oh-William and Elsa Zopfi Professorship
Project Number:
Duration of Award: 05/02/2015-04/30/2016
Amount per year: \$20,000

GRANTS

Project Title: Inter-alpha inhibitors: Novel neuroinflammatory modulator of neonatal brain injury
Role: PI
Funding Agency: NIH
Project Number: 1R21NS095130-01
Duration of Award: 08/01/2016-07/31/2018
Amount total: \$440,550

Project Title: Beneficial Effects of Inter-alpha Inhibitors in Fetal Brain Injury
Role: PI
Funding Agency: NIH
Project Number: 1R21NS096525-01
Duration of Award: 08/01/2016-07/31/2018
Amount total: \$440,550

Project Title: Cytokines and the blood-brain barrier in the ovine fetus
Role: PI
Funding Agency: NIH
Project Number: R01HD057100-06A1
Duration of Award: 09/25/2016-07/31/2021
Amount total: \$2,952,028

Project Title: Inter-alpha Inhibitor Proteins in Hypoxic-Ischemic Brain Injury
Role: Co-PI
Funding Agency: NIH – SBIR – Phase II
Project Number: 2R44 NS084575-02A1
Duration of Award: 07/01/2017-06/30/2019
Amount total: \$592,465

Project Title: Neonatal Brain Injury: Mediating Factors for Improved Neurobehavioral Outcome (renewal)
Role: Consultant
Funding Agency: NIH
Project Number: R15HD077544
Duration of Award: 01/01/2018-12/31/2020
Amount total: \$275,000

Grants Submitted

Project Title: Inter-alpha Inhibitor Proteins as a Therapeutic Target in Acute Stroke
Role: Consultant
Funding Agency: NIH
Amount total: \$2,500,000

GRANTS

UNIVERSITY TEACHING, ADVISING and MENTORING ROLES:

Brown University	Undergraduate*	6-8	BIO 0195-0196 Division of Biology Honors Student*	Fall Spring Summer	3-4
Brown University	Medical	1-2	Brown Summer Research Fellowship	Summer	3-5
Brown University- March of Dimes Birth Defects Foundation	Medical	2	Summer Science Research Program for Medical Students	Summer	3-5

* As a result of completing honors theses in Barbara S. Stonestreet's research laboratories, twenty-six Brown University undergraduate students have graduated with honors.

**RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL
BRAIN RESEARCH LABORATORIES**

Research Trainees as Neonatal-Perinatal Medicine Fellows

Name: **Laptook, Abbott, M.D.**

Year of Training: 1980-1982

Present Position: Professor of Pediatrics
Brown Medical School

Area of Research: Cerebral Circulation and Metabolism

Name: **Nowicki, Philip, M.D.**

Year of Training: 1981-1983

Present Position: Professor of Pediatrics
Ohio State University

Area of Research: Gastrointestinal Circulation

Name: **Hansen, Nancy, M.D.**

Year of Training: 1981-1983

Present Position: Assistant Professor of Pediatrics
Ohio State University

Area of Research: Renal Function and Cerebral Circulation

Name: **Rosenkrantz, Ted, M.D.**

Year of Training: 1980-1982

Present Position: Professor of Pediatrics
Chief of Neonatal-Perinatal Medicine
University of Connecticut

Area of Research: Cerebral Circulation

Name: **Brubakk, Ann-Mari, M.D.**

Year of Training: 1981-1984

Present Position: Professor
Norwegian University of Science and Technology (NTNU) Department of
Laboratory Medicine
Children's and Women's Health
7489 Trondheim, Norway

Area of Research: Cerebral Circulation

Name: **Szabo, Joanne, M.D.**

Year of Training: 1982-1984

Present Position: Associate Professor of Pediatrics
University of Arkansas for Medical Sciences College of Medicine

Area of Research: Gastrointestinal Physiology

Name: **Burgess, Gary, M.D.**

Year of Training: 1982-1984

Present Position: Staff Neonatologist
Dallas, Texas

Area of Research: Cerebral Circulation and Bilirubin-Metabolism

RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL BRAIN RESEARCH LABORATORIES

Name: Mayfield, Steven, M.D.
Year of Training: 1983-1985
Present Position: Chief of Neonatology
St. Luke's Medical Center
Boise, Idaho
Area of Research: Circulation During Cold Stress

Name: Brann, Benjamin IV, M.D.
Year of Training: 1983-1985
Present Position: Staff Neonatologist
Fort Worth, Texas
Area of Research: Cerebral Circulation, Metabolism, Asphyxia

Name: Goldstein, Marshall, M.D.
Year of Training: 1984-1986
Present Position: Medical Director of Neonatology
Charleston, South Carolina
Area of Research: Cerebral Circulation and Hyperviscosity

Name: Lee, Chul, M.D.
Year of Training: 1984-1985
Present Position: Chairman of Pediatrics
Yonsei University College
Seoul, Korea
Area of Research: Bilirubin-Metabolism

Name: Malone, Thomas, M.D., M.B.A.
Year of Training: 1985-1987
Present Position: Clinical Associate Professor
Pediatrics and Communicable Disease Department
University of Michigan
Area of Research: Effects of the Patent Ductus Arteriosus on Newborn Circulation and Metabolism

Name: Barefield, Elaine, M.D.
Year of Training: 1985-1987
Present Position: Associate Professor of Pediatrics
University of Alabama
Area of Research: Group B Streptococcus, Circulation and Metabolism

Name: Calvert, Sandra, M.D.
Year of Training: 1986-1988
Present Position: Consultant Neonatologist-Department of Clinical Developmental Sciences,
St. George's University of London, London
Area of Research: Fetal Circulation

Name: Coyle, Mara, M.D.
Year of Training: 1989-1992
Present Position: Associate Clinical Professor of Pediatrics

RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL BRAIN RESEARCH LABORATORIES

Area of Research: Brown Medical School
Providence, Rhode Island
Hypoxia and Cerebral Circulation

Name: Schiff, Debra, M.D.
Year of Training: 1989-1990
Present Position: Division of Hematology/Oncology
Assistant Clinical Professor
Department of Pediatrics
UCSD School of Medicine
La Jolla, CA

Area of Research: Catheters in Low Birth Weight Infants

Name: Papparella, Alfonso, M.D.
Year of Training: 1990-1991
Present Position: Alfonso Papparella, MD
Associate Professor of Pediatric Surgery
Second University of Napoli
Department of Pediatrics
Via Pansini 5, 80131 Napoli Italy

Area of Research: Fetal Physiology, Ischemia/Reperfusion Injury in Newborn Piglets

Name: Alemany, Carlos, M.D.
Year of Training: 1990-1993
Present Position: Chief, Section of Neonatology
Assistant Professor of Clinical Pediatrics
Monmouth Medical Center
Long Branch, New Jersey
Clinical Assistant Professor of Pediatrics,
Department of Pediatrics
Drexel University College of Medicine

Area of Research: Gastrointestinal Circulation and Endothelial Relaxing Factor

Name: Kleinman, Monica, M.D.
Year of Training: 1990-1993
Present Position: Clinical Director, Medical/Surgical Intensive Care Unit
Medical Director, Transport Program
Senior Associate, Critical Care Medicine
Assistant Professor of Anaesthesia, Harvard Medical School
Boston, Massachusetts

Area of Research: Route of Epinephrine Administration During Cardiopulmonary Resuscitation in Newborn Piglets

Name: Kim, Chang-Ryul, M.D.
Year of Training: 1993-1994
Present Position: Chairman in Pediatrics of Hanyang University
Hanyang University Guri Hospital
Professor
Department of Pediatrics
Hanyang University College of Medicine

**RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL
BRAIN RESEARCH LABORATORIES**

- Secretary General
Korean Society of Perinatology
Seoul, Korea
Area of Research: Effects of Magnesium on Brain Blood Flow and Prostanoids
- Name:** **Yanowitz, Toby, M.D.**
Year of Training: 1994-1997
Present Position: Assistant Professor of Pediatrics, Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh School of Medicine
Assistant Investigator, Magee-Women's Research Institute
Assistant Professor of Pediatrics
Pittsburgh, Pennsylvania
Area of Research: Effects of Corticosteroid Treatment Upon Cardiovascular Stability in Premature Infants.
- Name:** **Sysyn, Gregory, M.D.**
Year of Training: 1997-2000
Present Position: Neonatologist
Neonatology Associates, P.C.
Neonatology Section
North side Hospital
Neonatology Associates, PC
5901 Peachtree Dunwoody Road
Suite C-65
Atlanta, GA
Area of Research: Effects of Postnatal Corticosteroids on Blood-Brain Barrier Permeability
- Name:** **Ron, Nitin P., M.D., FAAP**
Year of Training: 1998-2001
Present Position: Attending Neonatologist and Assistant Director, NICU
Associate Professor of Clinical Pediatrics
Associate Clinical Director, Medical Student Education
New York Methodist Hospital (Affiliated with Cornell Medical College)
Area of Research: Effects of Glucocorticoids on Aquaporin 4 Expression in the Brain of Ovine Fetuses, Newborns and Adults
- Name:** **Kim, Chang-Ryul, M.D., Ph.D.**
Year of Training: 2000-2002
Present Position: Chairman of Pediatrics
Hanyang University Guri Hospital
Professor
Department of Pediatrics
Hanyang University College of Medicine
Secretary General
Korean Society of Perinatology
Seoul, Korea
- Name:** **Malaeb, Shadi N., M.D.**
Year of Training: 2003-2006
Present Position: Associate Professor of Pediatrics
Division of Neonatal-Perinatal Medicine

RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL BRAIN RESEARCH LABORATORIES

Drexel University College of Medicine
St. Christopher's Hospital for Children
Philadelphia, PA
Area of Research: Effects of brain ischemia on tight junction proteins
Apoptosis in the fetal brain

Name: Cohen, Susan S., M.D.
Year of Training: 2007-2010
Present Position: Assistant Professor of Pediatrics
Department of Pediatrics
University of Wisconsin
Milwaukee, WI

Area of Research: Effect of cytokines on tight junction proteins in the brain.

Name: Spasova, Mariya, M.D., Ph.D.
Year of Training: 2009-2012
Present Position: Staff Neonatologist
Palmetto Health Children's Hospital
5 Richland Medical Park Drive
Columbia, South Carolina

Area of Research: Inter-alpha inhibitor proteins in the brain during ovine development.
Awards: 2011-2012 Klaus Perinatal Research Award – "Anti-inflammatory interventions to Attenuate Ischemic Brain Damage in Fetal Sheep"- \$5000.

Name: Patra, Aparna, M.D.
Year of Training: 2011-2014
Present Position: Assistant Professor
Pediatrics
University of Kentucky
Fellow in Neonatal-Perinatal Medicine
Women & Infants Hospital of Rhode Island

Area of Research: Mechanisms of blood-brain barrier injury after brain ischemia in the ovine fetus

Awards: 2014 Fellows' Section Basic Research Reward from the Society for Perinatal Medicine (SPR); "Ontogeny and Effects of Ischemia on Matrix Metalloproteinase (MMP) in Ovine Fetal Brain", \$1000.00.
2014 Meritorious Poster Award at the Eastern Society of Pediatric Research annual meeting: "Ontogenic Pattern of IAIP Expression in Human Fetal and Newborn Brain."
2014 First Prize for abstract submitted to Mind Brain Research Day, Brown University: "Anti-cytokine Antibodies Reduce Ischemia-Related Cytokine Transport Across the Fetal Blood-Brain Barrier (BBB)"
2014 PAS Travel Awards Program for Young Investigator's (co-sponsored with Mead Johnson Nutrition).

**RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL
BRAIN RESEARCH LABORATORIES**

Research Trainees as Post-Doctoral Fellows:

Name: Petersson, Katherine, Ph.D.
Year of Training: 1992-2000
Present Position: Assistant Professor
University of Rhode Island
Dept. Fisheries, Animal & Veterinary Science
177 CBLS
120 Flagg Road
Kingston, RI 02881
Area of Research: Brain Ischemia in the Ovine Fetus

Name: Hill, Courtney A, Ph.D.
Year of Training: 2011-2013
Present Position: Post-Doctoral Fellow in Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island
Area of Research: Anti-Inflammatory interventions and neurobehavioral outcomes in neonatal hypoxic-ischemic brain damage.

Name: Threlkeld, Steven W., Ph.D
Year of Training: 2009-2010
Present Position: Associate Professor
Director of Neuroscience
Department of Neuroscience
School of Health Sciences
Regis College
Weston, Mass.
Area of Research: Effect of ischemia on blood-brain barrier permeability in the ovine fetus.

Name: Chen, Xiaodi, M.S., M.D., Ph.D.
Year of Training: 2009-Present
Present Position: Instructor in Pediatrics
Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island
Brown University
Area of Research: Cytokines and the blood-brain barrier in the ovine fetus.

Name: Zhang, Jiyong, Ph.D.
Year of Training: 2010-2016
Present Position: Instructor in Pediatrics
Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island
Brown University
Area of Research: Cytokines and the blood-brain barrier in the ovine fetus.

Name: LaRosa, Domenic, Ph.D.
Year of Training: 2016-2019
Present Position: Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island
Brown University
Area of Research: Cytokines and the blood-brain barrier in the ovine fetus

**RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL
BRAIN RESEARCH LABORATORIES**

Name: **Disdier, Clemence, PhD**
Year of Training 2017-Present
Present Position: Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island, Brown University
Area of Research Cytokines and the blood-brain barrier in the ovine fetus.

Name: **Kim, Boram**
Year of Training 2017-Present
Present Position: Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island, Brown University
Area of Research IAIP in Postmortem human brain

Name: **Wu, Wayne**
Year of Training 2018-Present
Present Position: Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island, Brown University
Area of Research Effects of hypoxia-ischemia on behavioral changes in neonatal rats

Name: **Ma, Qian**
Year of Training Jan-Feb 2019
Present Position: Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island, Brown University
Area of Research

RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL BRAIN RESEARCH LABORATORIES

Research Trainees as Graduate/Medical Students:

Name: Damari, M.S., Nicole
Year of Training: 2012-2013
Present Position: Master's Student in Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island
Graduated with a Master's of Science at Brown University
Area of Research: Inflammation in the brain

Name: Jaitpal, Siddhant
Year of Training: 2013-2014
Present Position: Masters of Science Student
Perinatal Brain Research Laboratory
Women & Infants Hospital of Rhode Island
Brown University

Name: Barros-Anderson, Adriel
Year of Training: 2015 - present
Present Position: Brown University Medical Student (former undergrad at Brown)
Effects of hypoxia-ischemia with and without IAIP treatment on microglia in neonatal brain.

2018 Best Neonatal Medicine Presentation by a Person in Training, New England Perinatal Society
2017 Society for Pediatric Research Student Research Award, \$1000, Pediatric Academic Societies, San Francisco, California, 2017
2017 International Stroke Conference Travel Award – Junior Investigator “Inter-Alpha Inhibitor Proteins Reduce the Quantity of Microglia in the Hippocampus After Hypoxic-Ischemic Brain Injury in the Neonate”, \$1,000.
2016 Summer Research Assistant Awarded in Biomedical Sciences from Brown University \$3,500
2017 Summer Research Assistant Awarded in Biomedical Sciences from Brown University \$3,500
2017 Pediatric Academic Societies acceptance of poster presentation of abstract
2016 Brown Institute of Brain Sciences Mind/Brain Research Day First prize for Best undergraduate poster: \$50

Barrios-Anderson A, Chen X, Nakada S, Chen R, Lim Y-P, Stonestreet B. Inter-Alpha Inhibitor Proteins (IAIPs) Reduce Neutrophilic Infiltration into Brain and Relative Increases in Systemic Neutrophils in Neonatal Rats after Hypoxic-Ischemic (HI) Brain Injury. *New England Perinatal Society*, Newport, Rhode Island. March 3, 2018.

Mr. Barrios-Anderson lecture was awarded “Best Neonatal Medicine Presentation.”

Barrios-Anderson A, Chen X, Nakada S, Chen R, Lim Y- P,

RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL BRAIN RESEARCH LABORATORIES

Stonestreet B. Inter-Alpha Inhibitor Proteins (IAIPs) Reduce Neutrophilic Infiltration into Brain and Relative Increases in Systemic Neutrophils in Neonatal Rats after Hypoxic-Ischemic (HI) Brain Injury. *Eastern Society for Pediatrics*, Philadelphia, PA. March 16-18, 2018.

Mr. Barrios-Anderson received a travel award to attend the ESPR Conference.

Barrios-Anderson A, Chen X, Nakada S, Chen R, Lim Y-P, Stonestreet B. Inter-Alpha Inhibitor Proteins (IAIPs) Reduce Neutrophilic Infiltration into Brain and Relative Increases in Systemic Neutrophils in Neonatal Rats after Hypoxic-Ischemic (HI) Brain Injury. *NABIS*, Houston, TX. March 2018

Nakada S, **Barrios-Anderson A**, Iwamoto K, Chen R, Pazurcek S, Gonzalez W, Lim Y-P, Stonestreet B, Chen X. Peripheral effects of inter-alpha inhibitor protein on WBC composition and bleeding time after hypoxic-ischemic injury in neonatal rats. *Mind Brain Research Day, Brown University*, March 27, 2018.

Name: Sunday, Joyce
Year of Training: 2016-present
Present Position: Masters of Science Student at Brown University
Effects of matrix-metalloproteinase

Name: Schuffels, Stephanie
Year of Training: 2017-2018
Present Position: Masters of Science Student at Brown University
Effects of IAIP on hypoxia-ischemia in neonatal rats

RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL BRAIN RESEARCH LABORATORIES

Research Trainees as Undergraduate Students:

Note:

In addition to the specifically named students below who were among the top Brown University students in my perinatal brain research laboratory, approximately 307 students have received research training in the laboratory and 25 have graduated with honors as a result of their work in the laboratory.

Name: Santos-Ocampo, Silvia
Year of Training: 1987-1989
Present Position: Associate Professor of Pediatrics
Pediatric Cardiologist
University of Arkansas

Name: Berard, Dennis, M.D.
Year of Training: 1986-1989
Present Position: Pediatrician
Attleboro, Massachusetts

Name: Le, Elizabeth, M.D.
Year of Training: 1988-1989
Present Position: Assistant Professor of Medicine
Oregon Health and Science University
Staff Cardiologist
Portland Veterans Affairs Medical Center
3710 SW US Veterans Hospital Road, P3CARD
Assistant Professor of Medicine
Oregon Health and Science University
Portland, OR

Name: Boyle, Lisa, M.D.
Year of Training: 1989-1995
Present Position: Obstetrician/Gynecologist
Pawtucket, Rhode Island

Name: Elitt, Christopher, M.D./Ph.D.
Year of Training: 1998-May 2000 (Student)
June 2000-June 2001 (Research Assistant)
Present Position: Assistant Professor Harvard University, Attending in Neonatal Neurology

Name: Duncan, Anna
Year of Training: 2007-2008
Present Position: Yale University School of Medicine-Medical Student
Children Hospital, University of Pennsylvania, Philadelphia, Pa
Brown University Undergraduate Student
Research at Brown Selection Committee awarded an RAB Grant for \$500.00 for the project "Ontogeny and the effects of corticosteroids on the tight junction protein expression during development in the ovine cerebral cortex." Funds provided by the University and Mr. Richard

RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL BRAIN RESEARCH LABORATORIES

Barna, a private donor.
Medical Student

Name: Cummings, Erin
Year of Training: 2008-2010
Present Position: University of Pittsburg School of Medicine, Resident in Pediatrics
Brown University Undergraduate Student
Research Assistant

Name: Fessler, Emily
Year of Training: 2008-2010
Present Position: Medical Student, University of Pennsylvania School of Medicine
Brown University Undergraduate Student
Research Assistant

Name: Min, May
Year of Training: 2011-2012
Present Position: Brown University Undergraduate Student
Received the 2012 Summer Assistantship through Brown University's Basic and Translational Research (BTR) Program. Support provided by a training grant from the National Heart, Lung and Blood Institution, NIH, T35 HL094308 in the amount of \$4370.00.
Medical Student

Name: Yeong, Seon
Year of Training: 2012-2013
Present Position: Brown University Student
Received the Summer 2013 UTRA (Karent T. Romber Undergraduate Teaching and Research Award. Summer research collaboration. Student Stipend: \$3000

Name: Nakada, Sakura
Year of Training: 2015-2018
Present Position: Research Assistant 2017 - 2018
Brown University Undergraduate
Effects of hypoxia-ischemia on HMGB1 translocation in the neonatal brain measured by Western immunoblot

2017 Summer Domestic UTRA (Undergraduate Teaching and Research Award) - \$3500

2017 RAB (Research at Brown) Grant - \$375

2017 Pediatric Academic Societies acceptance of poster presentation of abstract/poster presentation "Inter-alpha Inhibitor Proteins Reduce Apoptosis in the Brain of Neonatal Rats after Hypoxic-ischemic (HI) Insults"

2017 American Heart Association – Stroke Conference Abstract/Poster presentation Acceptance "The effects of immediate treatment with Inter-Alpha inhibitor Proteins on apoptosis in neonatal rats exposed to Hypoxic-Ischemic Injury"

2017 Senior Biology Prize for Academic Excellence Sc.B. BIOL (NBIO)

RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL BRAIN RESEARCH LABORATORIES

Name: Pazurcek, Sean
Year of Training: 2017-present
Present Position: Brown University Undergraduate Student
Caspase 3 immunohistochemistry on IAIP rates; 2 marker Octane
Caspase 3

Name: Dominguez, Lillian
Year of Training: 2017-2018
Present Position: Brown University Undergraduate Student
Tight junction proteins in IAIP rats

Name: Gonzalez, Wendy
Year of Training: 2017-2018
Present Position: Brown University Student
Quantification of infarct volumes on IAIP rates

Name: Atha, Karyna
Year of Training: 2018-Present
Present Position: Brown University Student

Name: Zhao, Eric
Year of Training: 2018
Present Position: Brown University Student

Name: Awa, Fares
Year of Training: 2018-Present
Present Position: Brown University Student

Name: Domonoske, Rose
Year of Training: 2018 - Present
Present Position: Brown University Student

Name: Hanson, Jordan
Year of Training: 2018-Present
Present Position: Brown University Student

Name: Momodu, Mubarek
Year of Training: 2018-Present
Present Position: Brown University Student

Name: Patel, Ratna
Year of Training: 2019 – Present
Present Position: Brown University Student

Name: Knebel, Ashley
Year of Training: 2019 – present
Present Position: Brown University Student

**RESEARCH TRAINEES: PERINATAL CARDIOVASCULAR RESEARCH AND PERINATAL
BRAIN RESEARCH LABORATORIES**

**VISITING SCIENTISTS TO THE PERINATAL CARDIOVASCULAR RESEARCH
LABORATORIES**

Name: Yao, Alice, M.D.
Year: 1982
Present Position: Professor of Pediatrics
SUNY Health Science Center
Brooklyn, New York
Area of Research: Perinatal Circulation

Name: Monin, Pierre, M.D.
Year: 1986-1987
Present Position: Professor of Pediatrics
Nancy, France
Area of Research: Cerebral Circulation

Name: Kim, Jeong Eun, M.D.
Year: 2011-2012
Present Position: Research Assistant, Yonsei Medical Research Center
Yonsei University College of Medicine
Seoul, Korea
Area of Research: Neuroprotection

Name: Chen, Ray MD, PhD
Year: 2015 - Present
Present Position: Research Assistant
Area of Research:

Name: Ma, Qian
Year: January 2019 – February 2019
Present Position: Visiting Research Assistant, First Affiliated Hospital of Zhengzhou
University, China
Area of Research:

HOSPITAL TEACHING, ADVISING and MENTORING ROLES

Kent Hospital	Medical Residents	3-8	Neonatology Rounds	2 Months/ Year	1
Women & Infants Hospital of Rhode Island	Medical Residents, Fellows in Neonatology	4-10	Neonatal Intensive Care Unit	2-3 Months/ Year	3-4
Coordinator of Perinatal Management Conference	Medical Residents, Nurses, Fellows in Neonatology	30-40	Weekly Conference	All Year	1
Misc. Conferences	Medical 3 rd Year	4-10	Basic Topics in Neonatology	2 Months/ Year	1
Fellowship Teaching	Postdoctoral Fellows in Neonatology	1-6	Research	All Year	1-3

PATENTS

Y.-P. Lim and **B. Stonestreet**: Treatment of disease using inter-alpha inhibitor proteins. Patent number: 9,572,872 Filed on Sep 9, 2013 and issued on Feb 21, 2017.

Y.-P. Lim and **B. Stonestreet**: Treatment of disease using inter-alpha inhibitor proteins. Patent number: 10,258,675 January 17, 2017 and issued on April 16, 2019.