

## **CURRICULUM VITAE**

### **BARRY MARSHALL LESTER**

Business Address                      Brown Center for the Study of Children at Risk  
Brown, Alpert Medical School  
Women & Infants Hospital of Rhode Island  
101 Dudley Street, Providence, RI 02905  
*Express Mail only to:*  
50 Holden Street, 1<sup>st</sup> Floor  
Providence, RI 02908

Business Phone                      401-453-7640  
Business Fax                         401-453-7646  
E-Mail Address                      Barry\_Lester@brown.edu

### **EDUCATION**

Undergraduate                      Boston University, Boston, MA, Psychology and Philosophy,  
B.A., 1969

Postgraduate Training              Michigan State University, East Lansing, MI, Child and  
Developmental Psychology, MA, 1970  
  
Michigan State University, East Lansing, MI, Child and  
Developmental Psychology; Developmental Psychophysiology,  
Ph.D., 1973

Fellowship                            The Children's Hospital, Boston and Harvard Medical School, Boston,  
MA, Postdoctoral Fellowship in Pediatrics, 1976-1978

### **POST GRADUATE HONORS**

Social Science Research Council postdoctoral Fellowship for  
research and training in pediatrics, 1976

NIMH National Research Service Award for research with  
high risk infants and training in pediatrics, 1976-1978

President, International Association for  
Infant Mental Health, 1980-1982

Fellow, American Psychological Association, Division of  
Developmental Psychology, 1982-present

Psychiatry Research Mentor Award for 2011-2012, Department of  
Psychiatry and Human Behavior, Alpert Medical School of Brown  
University, 2012

### **ACADEMIC APPOINTMENTS**

Assistant Professor of Psychology and Area Director Of  
Developmental Psychology, University of Florida, Gainesville, FL,  
1973-1976

Associate in Pediatrics, Harvard Medical School, Boston, MA, 1976-1978

Research Supervisor for Postdoctoral Pediatric Fellows, Child Development Program, The Children's Hospital, Child Development Unit, Boston, MA, 1976-1985

Assistant Professor of Pediatrics (Psychology), Harvard Medical School, Boston, MA, 1979-1985

Associate Professor of Pediatrics, Ad Honorarium, University of Puerto Rico School of Medicine, San Juan, Puerto Rico, 1985-1994

Associate Professor of Child Psychiatry/Human Behavior and Pediatrics, Brown University Medical School, Providence, RI, 1985-1989

Professor of Psychiatry and Human Behavior, Brown University Medical School, Providence, RI, 1989-present

Professor of Pediatrics, Brown University Medical School, Providence, RI, 1989-present

Faculty, Brown University Center for Alcohol and Addiction Studies, 1990-present

Mentor, Fellowship Training Program in Child Psychiatry (T-32), Department of Psychiatry, Brown Medical School, 1996-present

Mentor, Fellowship Training Program in Neonatology, Department of Pediatrics, Brown Medical School. 1996-present

Member, Biomedical Faculty Council, Brown Medical School, Providence, RI, 2005-present

Founding Director, Brown Center for the Study of Children at Risk at Brown Alpert Medical School of Brown University, Providence, RI 2006-present

Graduate Faculty, Brown Institute for Brain Science, Department of Neuroscience, Brown University, Providence, RI 2006-present

Faculty Member, Neuroscience Graduate Program, Brown University, 2006-present

Director of Research, Department of Pediatrics, Division of Developmental and Behavioral Pediatrics, Brown Alpert Medical School, Brown University, Providence, RI 2006-2012

Chair, Scholarship Oversight Committee, Postdoctoral Fellowship Program in Developmental and Behavioral Pediatrics, Department of Pediatrics, Brown Alpert Medical School, 2006-2012

Faculty Member, Norman Prince Neuroscience Institute, Brown, Alpert Medical School, 2011-present

Director, Infant and Child Mental Health Post-Baccalaureate Certificate Program at Brown University. 2008-present

### **HOSPITAL APPOINTMENTS**

Research Associate, Children's -Hospital Boston, MA, 1976-1985

Director of Developmental Research, The Children's Hospital, Child Development Unit, Boston, MA, 1978-1983

Associate Director Child Development Unit, The Children's Hospital, Boston, MA, 1983-1985

Senior Research Associate, Bradley Hospital, East Providence, RI, 1985-2005

Director, Infant Development Unit, Women & Infants Hospital, Providence, RI, 1991-1997

Director, Infant Development Center, E.P. Bradley Hospital, East Providence, RI & Women and Infants Hospital of Rhode Island, Providence, RI, 1997-2006

Director, Brown Center for the Study of Children at Risk, Woman and Infants Hospital of Rhode Island, 2006-present

Director, Woman and Infants Center for Children and Families, Woman and Infants Hospital of Rhode Island, 2012-present

### **OTHER APPOINTMENTS**

Research Psychologist, Institute of Nutrition for Central America and Panama (INCAP), Guatemala City, Guatemala, 1971-1973

Consultant, Government of Venezuela, Ministry of Intelligence, 1983-1986

Consultant, National Institute of Mental Health, Clinical Infant Program, 1979-1983

Consultant, Cry Research Inc., Cambridge, MA, 1985-1994

Society for Research in Child Development, Liaison to the American Academy of Pediatrics, 1987-1990

Advisory Board, Boston Institute for the Development of Infants and Parents, Inc., 1987- 1992

Special Reviewer, Maternal Child Health Study Section, 1987-1988

Special Reviewer, National Science Foundation Social & Developmental Psychiatry Study Section, 1988

Special Reviewer, NICHD Human Development Study Section, 1988

Member, Data Safety Monitoring Board for the National Heart, Lung, and Blood Institute, 1993-1997

Expert Grant Reviewer, Robert Wood Johnson Foundation Substance Abuse Policy Research Program, 1995-2000

Member, Family & Juvenile Drug Court Citizens Advisory Committee, 2000-2008

Reviewer, NIDA Medication Development Study Section, 2002-2003

Founder and Member, Board of Directors, The Rhode Island Association for Infant Mental Health, 2003- 2009

Member, Board of Directors, Rhode Island Foster Parents Association, 2003- 2007

Reviewer, NIH Study Section, CCRC Site Visit, Yale Medical School, 2003

Member, Early Childhood Council, Rhode Island Kids Count, 2003-2006

Reviewer, Scientific Review Special Emphasis Panels, 2004-present

Member Expert Panel, Center for the Evaluation of Risks to Human Reproduction, National Institute of Environmental Health Sciences, April, 2005-2008

Member, Child Psychopathology and Developmental Disabilities (CPDD) Study Section, NIH, 2003-2005

Member, National Advisory Council on Drug Abuse, NIH, NIDA, 2004 - 2008

Member, Steering Committee, National Advisory Council on Drug Abuse, NIH, 2006-2008

Reviewer, NIH Director's Pioneer Awards, 2008

Member, College of the Center for Scientific Review (CSR), 2010-2012

## **MEMBERSHIP IN SOCIETIES**

Society for Research in Child Development

American Association for the Advancement of Science

Interamerican Society of Psychology

Society for Pediatric Psychology

Society for Pediatric Research

International Society on Infant Studies

World Association of Infant Mental Health

American Psychological Association

Society for Pediatric Research

## **PUBLICATIONS**

1. Lester, B.M. & Klein, R.E. The effect of stimulus familiarity on the conservation performance of rural Guatemalan children. *Journal of Social Psychology*, 90, 197-205, 1973.
2. Ferguson, L.P., Partyka, L., & Lester, B.M. Patterns of parent perception differentiating clinic from non-clinic children. *Journal of Abnormal Child Psychology*, 2, 169-181, 1974.
3. Lester, B.M., Kotelchuck, M., Spelke, E., Sellers, M.J., & Klein, R.E. Separation protest in Guatemalan infants: Cross-cultural and cognitive findings. *Developmental Psychology*, 10, 79-85, 1974.
4. Lester, B.M. Cardiac habituation of the orienting response to an auditory signal in infants of varying nutritional status. *Developmental Psychology*, 11, 432-442, 1975.
5. Lester, B.M., Klein, R.E., & Martinez, S.J. The use of habituation in the study of the effects of infantile malnutrition. *Developmental Psychobiology*, 8; (6): 541-546, 1975.
6. Lester, B.M. Spectrum analysis of the cry sounds of well-nourished and malnourished infants. *Child Development*, 47, 237-241, 1976.
7. Lester, B.M., Emory, E.K., Hoffman, S.L., & Eitzman, D.V. A multivariate study of the effects of high risk factors on performance on the Brazelton Neonatal Assessment Scale. *Child Development*, 47, 515-517, 1976.
8. Lester, B.M. Psychological and CNS consequences of protein calorie malnutrition. *Interamerican Journal of Psychology*, 10, 17-31, 1976.
9. Als, H., Tronick, E., Lester, B.M., & Brazelton, T.B. The Brazelton Neonatal Behavioral Assessment Scale (NBAS). *Journal of Abnormal Child Psychology*, 5, 215-231, 1977.
10. Zeskind, P.S. & Lester, B.M. Acoustic features and auditory perceptions of the cries of newborns with prenatal and perinatal complications. *Child Development*, 49, 589-599, 1978.
11. Lester, B.M. & Zeskind, P.S. Brazelton scale and physical size correlates of neonatal cry features. *Infant Behavior and Development*, 1, 393-402, 1978.
12. Lester, B.M. The organization of crying in the neonate. *Journal of Pediatric Psychology*, 3, 122-130, 1978.
13. Brazelton, T.B., Tryphonopoulou, Y., & Lester, B.M. A comparative study of Greek neonatal behavior. *Pediatrics*, 63, 279-285, 1979.

14. Lester, B.M. A synergistic process approach to the study of prenatal malnutrition. *International Journal of Behavioral Development*, 2, 377-393, 1979.
15. Garcia-Coll, C., Sepkoski, C., & Lester, B.M. Cultural and biomedical correlates of neonatal behavior. *Developmental Psychobiology*, 41, 147-154, 1981.
16. Zeskind, P.S. & Lester, B.M. Analysis of cry features in newborns with differential fetal growth. *Child Development*, 52, 207-212, 1981.
17. Lester, B.M., Garcia-Coll, C.T., & Sepkoski, C. Teenage pregnancy and neonatal behavior: Effects in Puerto Rico and Florida. *Journal of Youth and Adolescence*, 11(5), 385-401, 1982.
18. Sepkoski, C., Garcia-Coll, C., & Lester, B.M. The cumulative effects of obstetric risk variables on newborn behavior. In L. Lipsitt & T. Field (Eds.), *Infant Behavior and Development*, 33-39, 1982.
19. Lester, B.M., Als, H., & Brazelton, T.B. Regional obstetric anesthesia and newborn behavior: A reanalysis toward synergistic effects. *Child Development*, 53, 687-692, 1982.
20. Garcia-Coll, C., Seposki, C., & Lester, B.M. Effects of teenage childbearing on neonatal and infant behavior in Puerto Rico. *Infant Behavior and Development*, 5, 227-236, 1982.
21. Yogman, M., Cole, P., Als, H., & Lester, B.M. Behavior of newborns of diabetic mothers. *Infant Behavior and Development*, 5, 331-340, 1982.
22. Yogman, M.W., Lester, B.M., & Hoffman, J. Behavioral and cardiac rhythmicity during mother-father-stranger infant social interaction. *Pediatric Research*, 17(11), 872-876, 1983.
23. Lester, B.M. Diagnostics Use of Infant Cry. *Acta Paedologica*, 1(3), 301-318, 1984.
24. Lester, B.M. Review of Malnutrition and Behavior: Critical assessment of key issues. *Food and Nutrition Bulletin*, 7(2), 1984.
25. Lester, B.M. & Brazelton, T.B. A lean argument: Reply to Scanlon. *Child Development*, 55, 672-674, 1984.
26. Lester, B.M., Hoffman, J., & Brazelton, T.B. The rhythmic structure of mother-infant interaction in term and preterm infants. *Child Development*, 56, 15-27, 1985.
27. Censullo, M., Lester, B.M., & Hoffman, J. Rhythmic patterning in mother-newborn interaction. *Nursing Research*, 34(6), 342-346, 1985.
28. Lester, B.M., Garcia-Coll, C.T., Valcarcel, M., & Hoffman, J., & Brazelton, T.B. Effects of atypical patterns of fetal growth on newborn (NBAS) behavior. *Child Development*, 57, 1-19, 1986.
29. Censullo, M., Bowler, R., Lester, B.M., & Brazelton, T.B. Development of an instrument for the measurement of Infant-Adult Synchrony. *Nursing Research*, 36(4), 244-248, 1987.
30. Lester, B.M. Developmental outcome prediction from acoustic cry analysis in term and preterm infants. *Pediatrics*, 80(4), 529-534, 1987.
31. Brem, A.S., Singer, D., Lester, B.M., & Abuelo, J.G. Infants of Azotemic Mothers: A report of three live births. *American Journal of Kidney Diseases*, 12(4), 299-303, 1988.
32. Lester, B.M., Garcia-Coll, C.T., & Valcarcel, M. Perception of infant cries in adolescent and older mothers. *Journal of Youth and Adolescents*, 18(3), 231-243, 1989.
33. Vohr, B., Lester, B.M., Rapisardi, G., O'Dea, C., Brown, L., Peucker, M., Cashore, W., & Oh, W. Abnormal brain stem function (BAER) correlates with acoustic cry features in term infants with hyperbilirubinemia. *Journal of Pediatrics*, 115, 303-308, 1989.
34. Rapisardi, G., Vohr, B., Cashore, W., Peucker, M., & Lester, B.M. Assessment of infant cry variability in high risk infants. *Journal of Pediatric Otorhinolaryngology*, 17, 765-771, 1989.
35. Lester, B.M. & Dreher, M. Effects of marijuana use during pregnancy on newborn cry. *Child Development*, 60, 765-771, 1989.
36. Vohr, B.R., Karp, D., O'Dea, C., Darrow, D., Garcia-Coll, C.T., Lester, B.M., Brown, L., Oh, W., & Cashore, W. Behavioral changes correlated with brainstem auditory evoked responses (BAER) in term infants with moderate hyperbilirubinemia. *Journal of Pediatrics*, 117, 288-291, 1990.

37. Lester, B.M., Boukydis, C.F.Z., Garcia-Coll, C.T., & Hole, W.T. Colic for developmentalists. *Infant Mental Health Journal*, 11(4), 321-333, 1990.
38. Lester, B.M., Corwin, M.J., Sepkoski, C., Seifer, R., Peucker, M., McLaughlin, S., & Golub, H.L. Neurobehavioral syndromes in cocaine exposed newborn infants. *Child Development*, 62, 694-705, 1991.
39. Ju, S.H., Lester, B.M., Garcia-Coll, C.T., Oh, W., & Vohr, B.R. Maternal perceptions of the sleep patterns of premature infants at seven months corrected age compared to full-term infants. *Infant Mental Health Journal*, 12(4), 338-346, 1991.
40. Bard, K.A., Platzman, K.A., Lester, B.M., & Suomi, S.J. Orientation to social and nonsocial stimuli in neonatal chimpanzees and humans. *Infant Behavior and Development*, 15, 43-56, 1992.
41. Corwin, M.J., Lester, B.M., Sepkoski, C., McLaughlin, S., Kayne, H., & Golub, H.L. Effects of in utero cocaine exposure on newborn acoustical cry characteristics. *Pediatrics*, 89(6), 1199-1203, 1992.
42. Sepkoski, C.M., Lester, B.M., Ostheimer, G.W., & Brazelton, T.B. The effects of maternal epidural anesthesia on neonatal behavior during the first month. *Developmental Medicine & Child Neurology*, 34, 1072-1080, 1992.
43. Lester, B.M. Infants and their families at risk: Assessment and intervention. *Infant Mental Health Journal*, 13(1), 54-66, 1992.
44. Lester, B.M., Boukydis, C.F.Z., Garcia-Coll, C.T., Hole, W., & Peucker, M. Infantile colic: Acoustic cry characteristics, maternal perception of cry, and temperament. *Infant Behavior and Development*, 15, 15-26, 1992.
45. Corwin, M.J., Lester, B.M., Sepkoski, C., McLaughlin, S., Kayne, H., & Golub, H.L. Effects of in utero cocaine exposure on newborn acoustical cry characteristics. *Pediatrics*, 89, 1199-1203, 1992.
46. Lester, B.M., Cucca, J., Andreozzi, L., Flanagan, P., & Oh, W. Possible association between Fluoxetine Hydrochloride and colic in an infant. *Journal of the American Academy of Child and Adolescent Psychiatry*, 32(6), 1253-1255, 1993.
47. McGrath, M.M., Lester, B.M., & Boukydis, C.F.Z. Determinants of maternal self-esteem in the neonatal period. *Infant Mental Health Journal*, 14(1), 35-48, 1993.
48. Meyer, E.C., Zeanah, C.H., Boukydis, C.F.Z., & Lester, B.M. A clinical interview for parents of high-risk infants: Concept and applications. *Infant Mental Health Journal*, 14(3), 192-207, 1993.
49. Lester, B.M. & Tronick, E.Z. The effects of prenatal cocaine exposure and child outcome: Lessons from the past. *Infant Mental Health Journal*, 15(2), 107-120, 1994.
50. Meyer, E.C., Garcia-Coll, C.T., Lester, B.M., Boukydis, C.F.Z., McDonough, S.M., & Oh, W. Family based intervention improves maternal psychological well-being and feeding interaction of preterm infants. *Pediatrics*, 93(2), 241-246, 1994.
51. Huffman, L.C., Bryan, Y.E., Pedersen, F.A., Lester, B.M., Newman, J.D., & Del Carmen, R. Infant cry acoustics and maternal ratings of temperament. *Infant Behavior and Development*, 17, 45-53, 1994.
52. Lester, B.M. & Peucker, M. Interface of behavior and physiological activity. *Advances for Medicine*, 13(3), 4-6, 1994.
53. Lester, B.M. & Meyer, E.C. Training program in psychosocial intervention for high-risk infants and their families. *Journal of Clinical Psychology in Medical Settings*, 1(3), 217-230, 1994.
54. Lester, B.M., Boukydis, C.F.Z., Garcia-Coll, C.T., Peucker, M., McGrath, M.M., Vohr, B.R., Brem, F., & Oh, W. Developmental outcome as a function of the goodness of fit between the infant's cry characteristics and the mother's perception of her infant's cry. *Pediatrics*, 95(4), 516-521, 1995.
55. Corwin, M.J., Lester, B.M., Sepkoski, C., Peucker, M., Kayne, H., & Golub, H.L. Newborn acoustical cry characteristics of infants subsequently dying of SIDS. *Pediatrics*, 96(1), 73-77, 1995.

56. Nugent, J.K., Lester, B.M., Greene, S., & Dorit-Wieczorek-Deering. The effects of maternal alcohol consumption and cigarette smoking during pregnancy on acoustic cry analysis. *Child Development*, 67, 1806-1815, 1996.
57. Lester, B.M. & Fueyo, M. Exposition prenatale a la cocaine: environnement parental et impact sur l'enfant. *Psychiatrie, Recherche Et Intervention En Sante' Mentale De L'Enfant (P.R.I.S.M.E.)*, 6(1), 126-137, 1996.
58. Lester, B.M., Freier, C., Boukydis, C.F.Z., Affleck, P., & Boris, N. Keeping mothers and their infants together. *New York University Review of Law & Social Change*, XXII, No. 2, 425-440, 1996.
59. Ferguson, A., Bier, J.A.B., Cucca, J., Andreozzi, L., & Lester, B. The quality of sucking in infants with colic. *Infant Mental Health Journal*, 17(2), 161-169, 1996.
60. Lester, B.M., Boukydis, C.F.Z., & LaGasse, L. Cardiorespiratory reactivity during the Brazelton Scale in term and preterm infants. *Journal of Pediatric Psychology*, 21(6), 771-783, 1996.
61. Napiorkowski, B., Lester, B.M., Freier, C., Brunner, S., Dietz, L., Nadra, A., & Oh, W. Effects of in utero substance exposure on infant neurobehavior. *Pediatrics*, 98(1), 71-75, 1996.
62. Bigsby, R., Coster, W., Lester, B.M., & Peucker, M.R. Motor behavioral cues of term and preterm infants at 3 months. *Infant Behavior and Development*, 19, 295-307, 1996.
63. Corwin, M.J., Lester, B.M., & Golub, H.L. The infant cry: What can it tell us? *Current Problems in Pediatrics*, 26, 325-334, 1996.
64. Garcia-Coll, C.T., Halpern, L., Seifer, R., Meyer, E.C., Kilis, E., Lester, B.M., Vohr, B.R., & Oh, W. Behavioral intervention and post-natal growth in full-term Intrauterine Growth Retarded (IUGR) infants. *Journal of Early Human Development*, 46, 105-116, 1996.
65. Lester, B.M., LaGasse, L., & Brunner, S. Data base of studies on prenatal cocaine exposure and child outcome. *Journal of Drug Issues*, 27(2), 487-499, 1997.
66. Meyer, E.C., Lester, B.M., Boukydis, C.F.Z., & Bigsby, R. Family-based intervention with high-risk infants and their families. *Journal of Clinical Psychology in Medical Settings*, 5(1), 49-69, 1998.
67. Lester, B.M., LaGasse, L.L., & Bigsby, R. Prenatal cocaine exposure and child development: What do we know and what do we do? *Seminars in Speech and Language*, 19(2), 123-146, 1998.
68. Msall, M.E., Bier, J., LaGasse, L., Tremont, M., & Lester, B.M. The vulnerable preschool child: The impact of biomedical and social risk on neurodevelopmental function. *Seminars in Pediatric Neurology*, 5(1), 52-61, 1998.
69. Lester, B.M. The Maternal Lifestyles Study. *Annals of the New York Academy of Sciences*, 846, 296-306, 1998.
70. Boukydis, C.F.Z. & Lester, B.M. Infant crying, risk status and social support in families of preterm and term infants. *Early Development and Parenting*, 7, 31-39, 1998.
71. Lester, B.M., LaGasse, L.L., & Seifer, R. Cocaine exposure and children: The meaning of subtle effects. *Science*, 282, 633-634, 1998.
72. Lester, B.M. To covary or not to covary: What is the question? *Journal of Drug Issues*, 29(2), 263-268, 1999.
73. Elsohly, M.A., Stanford, D.F., Murphy, T.P., Lester, B.M., Wright, L.L., Smeriglio, V.L., Verter, J., Bauer, C.R., Shankaran, S., Bada, H.S., & Walls, H.C. Immunoassay and GC-MS procedures for the Analysis of drugs of abuse in meconium. *Journal of Analytical Toxicology*, 23, 436-445, 1999.
74. Lester, B.M. Prenatal cocaine exposure and child outcome: A model for the study of the infant at risk. *Israel Journal of Psychiatry*, 37(3), 223-235, 2000.
75. McGrath, M.M., Sullivan, M.C., Lester, B.M., & Oh, W. Longitudinal neurological follow-up in NICU survivors with various neonatal morbidities. *Pediatrics*, 106 (6), 1397-1405, 2000.
76. Lester, B.M., ElSohly, M., Wright, L.L., Smeriglio, V.L., Verter, J., Bauer, C.R., Shankaran, S., Bada, H.S., Walls, H.C., Huestis, M.A., Finnegan, L.P., & Maza, P.L. The Maternal Lifestyle



- Study: Drug use by meconium toxicology and maternal self-report. *Pediatrics*, 107(2), 309-17, 2001.
77. Johnson, R.E., Jones, H.E., Jasinski, D.R., Svikis, D.S., Haug, N., Jansson, L., Kissin, W.B., Alpan, G., Lantz, M.E., Cone, E.J., Golden, A.S., Huggins, G.R., & Lester, B.M. Buprenorphine treatment of pregnant opioid-dependent women: Maternal and neonatal outcomes. *Drug and Alcohol Dependence*, 63, 97-103, 2001.
  78. Allister, L., Lester, B.M., Carr, S. & Liu, J. The effects of maternal depression on fetal heart rate response to vibroacoustic stimulation. *Developmental Neuropsychology*, 20(3), 639-651, 2001.
  79. Andrezzi, L., Flanagan, P., Seifer, R., Brunner, S., & Lester, B. Attachment classifications among 18-month-old children of adolescent mothers. *Archives of Pediatrics and Adolescent Medicine*, 156, 20-26, 2002.
  80. Bauer, C.R., Shankaran, S., Bada, H.S., Lester, B.M., Wright, L.L., Krause-Steinrauf, H., Smeriglio, V.L., Finnegan, L.P., Maza, P.L., & Verter, J. The Maternal Lifestyle Study (MLS): Drug exposure during pregnancy and short-term maternal outcomes. *American Journal of Obstetrics and Gynecology*. 186(3), 487-495, 2002.
  81. Coyle, M.G., Ferguson, A., Lagasse, L.L., Oh, W., Lester, B.M. Diluted tincture of opium (DTO) and Phenobarbital vs. DTO alone for the treatment of neonatal opiate withdrawal. *Journal of Pediatrics*, 140(5), 561-564, 2002.
  82. Bada, H.S., Das, A., Bauer, C.R., Shankaran, S., Lester, B., Wright, L.L., Verter, J., Smeriglio, V.L., Finnegan, L.P., Maza, P.L. Gestational cocaine exposure and intrauterine growth: Maternal Lifestyle Study. *Obstetrics and Gynecology*, 100(5), 916-924, 2002.
  83. Bada, H.S., Bauer, C.R., Shankaran, S., Lester, B., Wright, L.L., Das, A., Poole, K., Smeriglio, V.L., Finnegan, L.P., Maza, P.L. Central and autonomic system signs with in-utero drug exposure. *Archives of Disease in Childhood*, 87, F106-F112, 2002.
  84. Lester, B.M., Tronick, E.Z., LaGasse, L.L., Seifer, R., Bauer, C.R., Shankaran, S., Bada, H.S., Wright, L.L., Smeriglio, V.L., Liu, J., Finnegan, L.P., Maza, P.L. The Maternal Lifestyle Study: Effects of substance exposure during pregnancy on neurodevelopmental outcome in 1-month-old infants. *Pediatrics*, 110(6), 1182-1192, 2002.
  85. Lester, B.M., LaGasse, L.L., Seifer, R., Tronick, E.Z., Bauer, C.R., Shankaran, S., Bada, H.S., Wright, L.L., Smeriglio, V.L., Liu, J., Finnegan, L.P., Maza, P.L. The Maternal Lifestyle Study (MLS): Effects of prenatal cocaine and/or opiate exposure on auditory brain response at one month. *Journal of Pediatrics*, 142(3), 279-285, 2003.
  86. Salisbury, A., Law, K., LaGasse, L., Lester, B. Maternal-Fetal Attachment. *JAMA*, 289(13), 1701, 2003.
  87. Keren, M., Feldman, R., Eidelman, A.I., Sirota, L., Lester, B. Clinical interview for high-risk parents of premature infants (CLIP) as a predictor of early disruptions in the mother-infant relationship at the nursery. *Infant Mental Health Journal*, 24(2), 93-110, 2003.
  88. Roy Grenier, I., Bigsby, R., Vergara, E.R., Lester, B.M. Comparison of motor behaviors of preterm infants across positions. *American Journal of Occupational Therapy*, 57, 289-297, 2003.
  89. Law, K.L., Stroud, L.R., LaGasse, L.L., Niaura, R., Liu, J., Lester, B.M. Smoking during pregnancy and newborn neurobehavior. *Pediatrics*, 111(6), 1318-1323, 2003.
  90. Shankaran, S., Bauer, C.R., Bada, H.S., Lester, B., Wright, L.L., Das, A. Health-care utilization among mothers and infants following cocaine exposure. *Journal of Perinatology*, 23, 361-367, 2003.
  91. LaGasse, L.L., Messinger, D., Lester, B.M., Seifer, R., Tronick, E.Z., Bauer, C.R., Shankaran, S., Bada, H.S., Wright, L.L., Smeriglio, V.L., Finnegan, L.P., Maza, P.L., Liu, J. Prenatal drug exposure and maternal and infant feeding behavior. *Archives of Disease in Childhood*, 88, F391-F399, 2003.
  92. Lester, B.M., Tronick, E.Z. (eds.) The Neonatal Intensive Care Unit Network Neurobehavioral Scale (NNS). *Pediatrics* (Supplement 113, part 2 of 2):(3), pgs.631-699, 2004.

93. Boukydis CF, Bigsby R, Lester BM. Clinical use of the Neonatal Intensive Care Unit Network Neurobehavioral Scale. *Pediatrics*. 2004 Mar;113(3 Pt 2):679-89. PubMed PMID: 14993527.
94. Tronick EZ, Olson K, Rosenberg R, Bohne L, Lu J, Lester BM. Normative neurobehavioral performance of healthy infants on the Neonatal Intensive Care. Unit Network Neurobehavioral Scale. *Pediatrics*. 2004 Mar;113(3 Pt 2):676-8. PubMed PMID: 14993526.
95. Lester BM, Tronick EZ, LaGasse L, Seifer R, Bauer CR, Shankaran S, Bada HS, Wright LL, Smeriglio VL, Lu J. Summary statistics of neonatal intensive care unit network neurobehavioral scale scores from the maternal lifestyle study: a quasinormative sample. *Pediatrics*. 2004 Mar;113(3 Pt 2):668-75. PubMed PMID:14993525.
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## **GRANTS**

1. Principal Investigator, University of Florida Graduate School, Equipment grant for spectral analysis of infant cry sounds. 1974.
2. Principal Investigator, Social Sciences Institute, University of Florida, Cross-cultural study of newborn behavior in Puerto Rico and Florida. 1974.
3. Principal Investigator, Sigma Xi, Effects of high risk factors on neonatal behavior. 1975.
4. Principal Investigator, NICHD Center for Population Research, Contract for cross-cultural study of teenage pregnancy and neonatal behavior. 1977-1979.
5. Co-Investigator, NICHD, Longitudinal study of the development of preterm and full-term infants. 1977-1980.
6. Co-Investigator, Grant Foundation, Development and assessment of infant behavioral organization during the first five months of life. 1978-1981.
7. Principal Investigator, March of Dimes, Psychophysiological correlates of the organization of infant behavior. 1979-1981.
8. Co-Investigator, Spencer Foundation, Effects of maternal obstetrical medication on neonatal behavior. 1979-1981.
9. Co-Investigator, Spencer Foundation, One year follow-up of effects of maternal obstetrical medication. 1981-1983.
10. Co-Investigator, Maternal and Child Health, Longitudinal data analysis of behavior in term and preterm infants. 1981-1983.
11. Principal Investigator, March of Dimes, Physiological correlates of neonatal behavior in preterm and term infants. 1981-1983.
12. Principal Investigator, NICHD R01HD21013 Detection of later handicap via Infant Cry Analysis. 1985-1988.
13. Principal Investigator, Ford Foundation, Feeding intervention with infants suffering from prenatal malnutrition. 1985- 1989.
14. Program Director, NIMH 1T24MH18809. Training Program in Psychosocial Intervention with High Risk Infants. 1986-1988.
15. Co-Investigator, NICHD-CRMC-8512. Identification of Infants at Greatest Risk for Mental Retardation and Developmental Disabilities. 1986-1991.

16. Co-Investigator, NIMH 2 R44 HD20737-02 Cry Analysis as a Screening Test for SIDS and Handicap. 1987-1989.
17. Co-Investigator, MCH MCJ-440569-01-1 Behavioral Intervention with Intrauterine Growth Retarded Infants. 1988-1990.
18. Principal Investigator, Ross Laboratories, Infant Crying. 1991-1992.
19. Principal Investigator - Providence Site - NICHD, SRC 1U10-HD27904-1, Effects of Maternal Lifestyle During Pregnancy on Acute Neonatal Events and Long-Term Neurodevelopmental Outcome of Infants: A Prospective, Multisite, Randomized, Controlled, Clinical Trial. 1992-2002.
20. Principal Investigator, NIH/NICHD, NO1-HD-2-3159, Development and Implementation of a Plan to assess the neurodevelopment of infants and children exposed to drug in utero. September 1992–September 2002.
21. Principal Investigator, Ross Laboratories, Effective Fiber Formula and Psychosocial Intervention in the Treatment of Colic. 1994-1996.
22. Principal Investigator, Robert Wood Johnson Foundation, Data Base of Research on Prenatal Drug Exposure and Child Outcome. 1996-1999.
23. Principal Investigator, NICHD, NO1-HD-2-3159. Neurodevelopmental Battery for the Maternal Lifestyle Study. September 1997-March 2004.
24. Principal Investigator, The Gerber Foundation, Feeding Problems in Infants with Colic. December 1997-November 2000.
25. Principal Investigator, The Roddy Foundation, Study of Fetal Behavior and Development. December 1997-December 2000.
26. Principal Investigator, Roy T. Morgan Foundation, Inc., Boarder Baby Development Program. October 1998.
27. Principal Investigator, Frank B. Hazard General Charity Fund, Boarder Baby Development Fund. March 1999.
28. Intensive Care Unit Early Discharge Program: Assessment of Benefit to Premature Infants and Their Families. September 1999-August 2000.
29. Principal Investigator, The Robert Wood Johnson Local Initiative Funding Partners Program in partnership with The Fred M. Roddy Foundation and The Roy T. Morgan Foundation, 039729. Vulnerable Infants Program of Rhode Island (VIP-RI). August 2000–July 2004.
30. Principal Investigator, The Gerber Foundation. Randomized Clinical Trial to Evaluate Intervention for Infants with Colic and Their Families. September 2000-2004.
31. Co-Investigator, The Robert Wood Johnson Foundation, 00-0010. Development and Formative Evaluation of Motivational Enhancements for a Stage-Based Expert System Driven Smoking Cessation Intervention for Low-Income Pregnant Women. October 2000-August 2003.

32. Principal Investigator, Department of Health and Human Services, Children's Bureau, Administration on Children, Youth and Families, 90-CB-0104. The Court, AFSA and drug-exposed infants: The Vulnerable Infants Program of Rhode Island. October 2000-September 2004.
33. Principal Investigator (Subcontract Providence), 5 RO1-DA-12220-04. National Institute on Drug Abuse. Methadone and Buprenorphine: Ante- and Post-Partum. December 2000–November 2004.
34. Principal Investigator, National Institute on Drug Abuse, 1-RO1-DA14948-01. Prenatal Methamphetamine Exposure and Child Development. September 2001-August 2006.
35. Principal Investigator, NIDA, 2 U10 HD27904-12S1. Neuroimaging in Drug Exposed Children. October 2001-September 2004.
36. Principal Investigator, NIH-NICHHD, 1U10-DA024119-01. Multi-Center/Maternal Life Style Study. April 2007-March 2011.
37. Co-Investigator, NIMH, 1-K23-MH65479. Maternal Antidepressant Use and Fetal Neurobehavior. June 2002 – May 2007.
38. Co-Investigator, Substance Abuse and Mental Health Services Administration, 6-H79-TI14116-02-1. Grant Program to Provide Treatment Services for Family, Juvenile, and Adult Treatment Drug Courts. January 15, 2003-January 14, 2006.
39. Principal Investigator, NICHD, 3-U10-HD27904. Maternal Lifestyle Study 9-11 Year Follow-Up. April 2003-March 2006.
40. Co-Investigator, NINR, 2-R01-NR003695. Longitudinal Trajectories of Adolescents Born Preterm. July 2003- March 2008.
41. Principal Investigator, NICHD, NO1-HD-2-3159. Neurodevelopmental Battery for the Maternal Lifestyle Study. September 2002-September 2007.
42. Principle Investigator NIDA, 1 RO1 DA015778-01. Maternal Opioid Treatment: Human Experimental Research (M.O.T.H.E.R). April 2005-March 2010.
43. Principle Investigator, Robert Wood Johnson Foundation. After ASFA: Outcome of the Rhode Island Family Treatment Drug Court. November 2004 to October 2007.
44. Principal Investigator, HHS Children's Bureau, Administration of Children, Youth, and Families, 90-CD-0157. The Vulnerable Infants Program 2 of Rhode Island (VIP2). October 2005 to September 2009.
45. Co-Investigator, Prenatal Smoking, Fetal Behavior and Infant Withdrawal, (5R01 DA019558-02) National Institute on Drug Abuse, June 2005 to May 2010.
46. Principal Investigator, March of Dimes. Family Based Intervention for Mothers of Preterm Infants in the NICU. June 2006 to May 2008.

47. Principal Investigator, Neurodevelopmental Battery for the Maternal Lifestyle Study, (N01-HD-2-3159) National Institute of Child Health & Human Development, September 2007 to September 2008.
48. Co-Principal Investigator. Prenatal Methamphetamine Exposure and Child Development in New Zealand and USA, (RO1 DA021757) National Institute on Drug Abuse, July 2007- June 2012.
49. Principal Investigator, Prenatal Methamphetamine Exposure and School Aged Outcomes, (5R01 DA014948) National Institute on Drug Abuse, September, 2001 to May, 2015.
50. Principal Investigator, Multi-center/MLS 13-15 year follow-up, (1U10 DA024119-01) National Institute on Drug Abuse, September 2007 to March 2011.
51. Co-Investigator, Massage for Methadone Exposed Infants, (1R21 DA020165-01A2) National Institute on Drug Abuse, December 2006 to November 2008.
52. Principal Investigator, Effects of Open Bay versus Single Room NICU on Infant Outcome at Discharge, Women & Infants Hospital, October 2007 to September 2011.
53. Principle Investigator NIDA, 5 RO1 DA015778. Maternal Opioid Treatment: Human Experimental Research (M.O.T.H.E.R). April 2005-December 2011.
54. Co-Investigator, Maternal Depression, Placental HPA Regulation and Fetal Neonatal Stress Response, (1R01 MH79153-01) National Institute on Drug Abuse, NIMH September 2007 to July 2013.
55. Co-Investigator, Fetal and Neonatal Neurobehavior and Prenatal Antidepressant Exposure, (1R01 MH078033-01A2), National Institute of Mental Health, February 2008 to January 2013.
56. Co-Investigator, Pediatric HIV/AIDS Cohort Study (PHACS), (5U01 HD052104-04), National Institute of Health, August 2008 to July 2015.
57. Co-Investigator, Nonlinguistic Vocalizations in Autism: Acoustic Cry Analysis in Early Infancy, (1R03 DC009301-01A1), National Institute of Mental Health, September 2008 to August 2010.
58. Co-Investigator, Risk and Protection in Trajectories of Preterm Infants: Birth to Adulthood, (5R01NR003695), NIH, September 2008-August 2014.
59. Principle Investigator, National Children's Study: Assessment of Executive Functioning (Subcontract to Brown) N01-HD-7-0032. June 2010 to July 2011.
60. Co-Principal Investigator, Risk and Protection in Trajectories of Preterm Infants: Birth to Adulthood, (2R01 NR003695-14A1), NIH, September 2008 to August 2014.
61. Co-Principal Investigator, Postpartum sleep effects on smoking relapse, (R21DA026448-01), NIH, July 2009 to June 2011.
62. Co-Principal Investigator, Early Detection of Autism through Acoustic Analysis of Cry, (R21DC010925-01), August 2009 to July 2011.
63. Co-Principal Investigator, Alcohol and HIV: Biobehavioral Interactions and Intervention, (1P01AA019072), NIAAA, September 2010 to August 2015.

64. Co-Principal Investigator, The impact of Prenatal Cocaine Exposure, Environmental Risk and Trajectories of Vagal Tone on Psychopathology and Substance Use. (1 F32 DA032175-01), NIH, September 2011 to June 2016.
65. Co-Principal Investigator, Epigenetics in Neurodevelopment and Mental Health. (RFA-MH-11-050 (R01: Sub to Dartmouth) 1R01MH094609-01). September 2011 to June 2016.
66. Co-Principal Investigator, Improving Outcome in Neonatal Abstinence Syndrome (NAS).( 1 R01 DA032889-01A1), NIDA, September 2012 to August 2015.
67. Co-Principal Investigator, Prenatal Methamphetamine Exposure and School Aged Outcome: (3-R01DA014948-11 Administrative Supplement), NIDA, December 2013 – November 2014.
68. Co-Investigator, Fetal and Neonatal Neurobehavior and Prenatal Antidepressant Exposure: The Child. (2-R01MH078033-06), NIMH, February 2013 – January 2018.
69. Co-Investigator, Pediatric HIV/AIDS Cohort Study (PHACS II). NIH, (5-U01HD052104-04), August 2010 – July 2015.
70. Co-Investigator, Environment, Imprinting, and Neurodevelopment. NIH, (R-01ES022223), September 2013 – April 2018.
71. Principal Investigator, Neonatal Neurobehavior and Outcomes in Very Preterm Infants (NOVI). NICHD, (1-R01HD072267-01), September 2013 – August 2018.
72. Principal Investigator, Of Mice and Methylation. Sponsor: Brown University. January 2014 – December 2014.
73. Mentor, The epigenetic basis of stress reactivity: Implications for drug-exposed infants, NIDA, (K08DA038959), 09/14 – 08/19.

## **UNIVERSITY TEACHING ROLES**

Undergraduate courses in Child Development, Graduate seminars in special topics in child development, Department of Psychology, University of Florida, Gainesville, FL, 1973-1976.

Statistics, Methodology, Child Development, Supervision of Pediatric Fellows in Research; The Children's Hospital, Child Development Unit, Boston, MA, 1976-1985.

Seminar in Child Development and Child Psychiatry for Residents & Fellows. Division of Child Psychiatry and Human Behavior, Bradley Hospital, Providence, RI, 1985-present.

Statistics for the Clinician for Child Psychiatry for Residents and Fellows. Division of Child Psychiatry and Human Behavior, Bradley Hospital, Brown University, Providence, RI, 1985-present.

Director - Psychosocial Intervention with High Risk Infants Training Program, Women & Infants Hospital, Providence, RI, 1986-present.

Research Supervisor, Child Psychiatry Fellows, Brown University Medical School, 1987-present.

Coordinator, Clinical/Behavioral Pediatrics Research Seminar, Women & Infants Hospital, Providence, RI, 1993-present.

Coordinating Committee, Developmental and Behavioral Pediatric Rotation, Department of Pediatrics, Rhode Island Hospital, 1995-present.

Mentor, NIMH/Brown Medical School Institutional Research Training Program, 1996-present.

## **PERSONAL INFORMATION**

Date of Birth	August 8, 1947
Place of Birth	Bronx, New York
Citizenship	United States
Home Address	44 Bradford Avenue Warwick, Rhode Island 02818