

## **CURRICULUM VITAE**

### **LINDA L. LAGASSE**

Business Address Brown Center for the Study of Children At Risk  
Women and Infants Hospital  
101 Dudley Street  
Providence, RI 02905

Business Telephone Number (401) 453-7629  
FAX (401) 453-7646  
E-Mail Linda\_Lagasse@brown.edu

### **EDUCATION**

University of Rhode Island, Kingston, RI, Psychology, B.A., 1983.  
Brown University, Providence, RI, Psychology, Sc.M, 1989.  
Brown University, Providence, RI, Psychology, Ph.D., 1990.

### **POSTGRADUATE TRAINING**

Post-Doctoral Research Associate, Cognitive/Developmental Psychology, University of Massachusetts, 1990-1992.

### **ACADEMIC APPOINTMENT**

Associate Professor of Pediatrics (Research), Brown Alpert Medical School (2008 to present)  
Associate Professor of Psychiatry & Human Behavior (Research), Brown Alpert Medical School  
(2008 to present)  
Adjunct Associate Professor, College of Nursing, University of Rhode Island Adjunct Professor  
(2003 to present)

### **HOSPITAL APPOINTMENT**

Research Director, Brown Center for the Study of Children At Risk, Women and Infants  
Hospital of Rhode Island, 1997 to present.

Allied Health Professional Research Scientist, Department of Pediatrics, Women and Infants  
Hospital, 1992 to present.

### **OTHER APPOINTMENTS**

Editorial Board-Neurotoxicology and Teratology (2011-2014)  
Editorial Board-Substance Abuse: Treatment, Prevention, and Policy (2006-present)

#### Grant Reviewer:

Reviewer for RFA-DK-10-014 [Clinical Trials], Behavioral/Lifestyle Interventions in  
Overweight and Obese Pregnancy Women, July 2011.

Child Psychopathology and Developmental Disabilities Study Section, June 17-19, 2015

Journal Reviewer:

American Journal of Perinatology  
Developmental Medicine and Child Neurology  
Developmental Psychology  
Early Human Development  
Harm Reduction Journal  
International Journal of Pediatrics  
Journal of Applied Developmental Psychology  
Journal of Pediatrics  
Journal of Pediatric Psychology  
Neurotoxicology & Teratology  
Nutrition Research  
Pediatrics  
PLOS One  
Psychology of Addictive Behaviors  
Social Development  
Speech Communication

**HOSPITAL COMMITTEES**

WIH Research Oversight Committee  
CNE Grow Research

**MEMBERSHIP IN SOCIETIES**

Society for Research in Child Development  
American Psychological Society  
American Psychological Association  
International Society for Infant Studies

**PUBLICATIONS LIST**

**ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS**

1. Pollatsek, A., Raney, G.E., LaGasse, L., Rayner, K. The use of information below fixation in reading and visual search. Canadian Journal of Psychology 1993. 47, 179-200.
2. LaGasse, L.L. Effects of good form and spatial frequency on global precedence. Perception & Psychophysics 1993. 53, 89-105.
3. Lester, B.M. , Boukydis, C.F.Z., LaGasse, L. Cardiorespiratory reactivity during the Brazelton Scale in term and preterm infants. Journal of Pediatric Psychology 1996. 21(6), 771-783.
4. Lester, B.M., LaGasse, L.L., Brunner, S. Data Base of studies on prenatal cocaine exposure and child outcome. Journal of Drug Issues 1997. 27, 487-499.
5. High, P., Hopmann, M., LaGasse, L. Linn, H. Evaluation of a clinic based book sharing & bedtime promoting program for low income urban families. Archives of Pediatrics & Adolescent Medicine 1998. 152, 459-465.
6. Lester, B. M., LaGasse, L. L., Seifer, R. Cocaine exposure and children: The meaning of subtle effects. Science 1998. 262, 633-634.
7. LaGasse, L. L., Van Vorst, R. F., Brunner, S. M., Zucker, M. S. Infants' understanding

- of auditory events. Infant and Child Development 1999, 8, 85-100.
8. High, P.C., LaGasse, L., Becker, S., Ahlgren, I., Gardner, A. Literacy promotion in primary care pediatrics: Can we make a difference? Pediatrics 2000. 105(4), 927-930.
  9. Coyle, M. G., Ferguson, A., LaGasse, L., Oh, W., Lester, B. Diluted tincture of opium (DTO) and phenobarbital vs. DTO alone for the treatment of neonatal opiate withdrawal. Journal of Pediatrics 2002. 140(5), 561-564.
  10. Lester, B.M., Tronick, E. Z., LaGasse, L., Seifer, R., Bauer, C. R., Shankaran, S., Bada, H. S., Wright, L. L., Smeriglio, V. L., Finnegan, L. P., Maza, P. L., Dryfoos, J. The Maternal Lifestyle Study (MLS): Effects of substance exposure during pregnancy on one-month neurodevelopmental outcome. Pediatrics 2002. 110(6), 1182-1192.
  11. Lester, B.M., LaGasse, L., Seifer, R., Tronick, E. Z., Bauer, C. R., Shankaran, S., Bada, H. S., Wright, L. L., Smeriglio, V. L., Ling, J., Finnegan, L. P., Maza, P. The Maternal Lifestyle Study (MLS): Effects of prenatal cocaine and/or opiate exposure on one-month auditory brain response. Journal of Pediatrics 2002. 142:279-85.
  12. Salisbury, A., Law, K., LaGasse L., Lester B. Maternal-fetal attachment. JAMA 2003. 289(13), 1701.
  13. LaGasse, L., Messinger, D., Lester, B., Seifer, R., Bauer, C., Shankaran, S., Bada, H., Wright, L., Smeriglio, V., Poole, K., Liu, E. Prenatal drug exposure & maternal & infant feeding behavior. Archives of Disease in Children. 2003;88:F391-F399.
  14. Law, K. L., Stroud, L. R., LaGasse, L., Niaura, R., Lester, B. M. Smoking during pregnancy and newborn neurobehavior. Pediatrics 2003; 111:1318-1323.
  15. Lester, B.M., Tronick, E.Z., LaGasse, L., Seifer, R., Bauer, C.R., Shankaran, S., Bada, H.S., Wright, M.S., Smeriglio, V. L., Liu, J. Summary Statistics of NICU Network Neurobehavioral Scale Score From the Maternal Lifestyle Study (MLS): A Quasi Normative Sample. In B. M. Lester & E. Z. Tronick (Eds.), The NICU Network Neurobehavioral Scale (NNS), Supplement to Pediatrics 2004; 113(3): 631-699.
  16. Messinger, S.D., Bauer C.R., Das, A., Seifer, R., Lester, B., LaGasse, L.L., Wright, L.L., Shankaran, S., Bada, H., Smeriglio, V., Langer, J., Beeghly N.M., Poole, K. The Maternal Lifestyle Study (MLS): Cognitive, motor, and behavioral outcomes of cocaine exposed and opiate exposed infants through three years of age. Pediatrics 2004; 113(6) 1677-1685.
  17. Seifer, R., LaGasse, L. L., Lester, B. M., Bauer, C. R., Shankaran, S., Bada, H.S., Wright, L. L., Smeriglio, V. L., Liu, J. Attachment status in children prenatally exposed to cocaine and other substances. Child Development 2004; 75(3): 850-868.
  18. Wouldes, T., LaGasse, L. L., Sheridan, J., Lester, B. Maternal methamphetamine use during pregnancy and child outcome: What do we know? New Zealand Medical Journal 2004; 117(1206): 1-10.
  19. Lester, B. M., LaGasse, L. L., Smith, L. M., Derauf, C., Grant P., Shah R., Arria, A. M., Huestis, M.A., Liu, J. Prenatal exposure to methamphetamine and child development. Epidemiologic Trends in Drug Abuse, January 2005:40-43.
  20. Coyle, M.G., Ferguson A., LaGasse, L., Liu, J., Lester, B. Neurobehavioral effects of treatment for opiate withdrawal: A comparison of treatment strategies. Archives of Disease in Childhood Fetal Neonatal Ed 2005;90:F73-F74.
  21. Miller-Loncar, C., Lester, B. M., Seifer, R., LaGasse, L. L., Bauer C. R., Shankaran, S., Bada, H. S., Wright, L. L., Smeriglio, V. L., Liu, J. Predictors of motor development in children prenatally exposed to cocaine. Neurotoxicology & Teratology 2005; 27:213-220.
  22. Tronick, E.Z., Messinger, D.S., Weinberg, M.K., Lester, B.M., LaGasse, L., Seifer, R.,

- Bauer C. R., Shankaran, S., Bada, H. S., Wright, L. L., Smeriglio, V. L., Poole, K., Liu, J. Cocaine exposure compromises infant and caregiver social emotional behavior and dyadic interactive features in the Face-to-Face Still-Face Paradigm. Developmental Psychology 2005;41:711-722.
23. Bada, H.S., Das, A., Bauer, C.R., Shankaran, S., Lester, B.M., Gard, C.C., Wright, L.L., LaGasse, L.L., Higgins, R. Low birth weight and preterm births: Etiologic fraction attributable to prenatal drug exposure. Journal of Perinatology 2005;25:631-637.
  24. Sheinkopf, S.J., Lester B. M., LaGasse, L., Seifer, R., Bauer, C. R., Shankaran, S., Bada, H., Poole, K., Weight, L., Smeriglio, V. Interactions between maternal characteristics and neonatal behavior in the prediction of parenting stress and perception of infant temperament. Journal of Pediatric Psychology 2006; 31(1):27-40.
  25. Arria, A.M., Derauf, C., LaGasse, L., Grant, P., Shah, R., Smith L., Haning W., Huestis, M., Strauss, A., DellaGrotta, S., Liu, J., Lester, B. Methamphetamine and other substance use during pregnancy: Preliminary estimates from the Infant Development, Environment, and Lifestyle (IDEAL) Study. Maternal and Child Health Journal 2006. May; 10(3):293-302. Epub Jan 5 (2006).
  26. Smith, L.M., LaGasse, L.L., Derauf, C., Grant, P., Shah, R., Arria, A., Huestis, M., Haning W., Strauss, A., DellaGrotta, S., Fallone, M., Liu, J., Lester, B.M. The Infant Development, Environment, and Lifestyle Study: effects of prenatal methamphetamine exposure, polydrug exposure, and poverty on intrauterine growth. Pediatrics 2006;118(3):1149-1156.
  27. Bada, H.S., Das, A., Bauer, C.R., Shankaran, S., Lester, B.M., LaGasse, L.L., Hammond, J., Wright, L.L., Higgins, R. Impact of prenatal cocaine exposure on child behavior problems through school age. Pediatrics 2007;119:348-359.
  28. Sheinkopf, S. J., LaGasse, L. L., Lester, B. M., Liu, J., Seifer, R., Bauer, C. R., Shankaran, S., Bada, H., Das, A. Vagal tone as a resilience factor in children with prenatal cocaine exposure. Development and Psychopathology 2007;19:649-673.
  29. Derauf, C., LaGasse, L.L., Smith, L.M., Grant, P., Shah, R., Arria, A., Huestis, M., Haning, W., Strauss, A., DellaGrotta, S., Liu, J., Lester, B. Demographic and Psychosocial characteristics of mothers using methamphetamine during pregnancy: Preliminary results of the Infant Development, Environment, and Lifestyle Study. American Journal of Drug and Alcohol Abuse 2007;33:281-189.
  30. Salisbury, A.L., Lester, B.M., Seifer, R., LaGasse, L., Bauer, C., Shankaran, S., Bada, H., Wright, L., Liu, J., and Poole, K. Prenatal cocaine use and maternal depression: Effects on infant neurobehavior. Neurotoxicology and Teratology 2007;29(3):331-340.
  31. Shankaran, S., Lester, B., Das, A., Bauer, C.R., Bada, H., LaGasse, L., Higgins R.D. Impact of maternal substance use during pregnancy on childhood outcome. Seminar in Fetal and neonatal Medicine 2007;12(2);143-140. PMID:PMC3420810.
  32. Smith, L.M., LaGasse, L.L., Derauf, C., Grant, P., Shah, R., Arria, A., Huestis, M., Haning W., Strauss, A., DellaGrotta, S., Fallone, M., Liu, J., Lester, B.M. Prenatal methamphetamine (MA) use and neonatal neurobehavioral outcome: Preliminary results from the Infant Development, Environment, and Lifestyle Study (IDEAL). Neurotoxicology and Teratology 2008;30:20-28. PMID:PMC2358984.
  33. Bada, H.S. Langer, J., Twomey, J., Bursi, C., LaGasse, L., Bauer, C. R., Shankaran, S., Lester, B. M., Higgins, R., Maza, P. L. Importance of stability of early living arrangements on behavior outcomes of children with prenatal drug exposure. Journal of Developmental and Behavioral Pediatrics 2008;29(3):173-182. PMID18349707; PMID3984541.

34. Levine, T., Liu, J., Abhik, D., Lester, B. M., LaGasse, L. L., Shankaran, S., Bada, H., Bauer, C. R., Higgins, R. The effect of prenatal cocaine exposure on special education in school age children. Pediatrics 2008;122(1):e83-01. Epub 2008 Jun 9. PMID:PMC2861352.
35. Stroud, L. R., Paster, R. L., Papandonatos, G. D., Niaura, R., Salisbury, A. L., Battle, C., LaGasse, L. L., Lester, B. Maternal smoking during pregnancy and newborn neurobehavior: Effects at 10-27 days. Journal of Pediatrics 2009;154:10-16.
36. Bagner, D. M., Sheinkopf, S. J., Miller-Loncar, C., LaGasse, L. L., Lester, B. M., Liu, J., Bauer, C. R., Shankaran, S., Bada, H., & Das, A. The effect of parenting stress on child behavior problems in high-risk children with prenatal drug exposure. Child Psychiatry and Human Development 2009;40:73-84. Epub 2008 Jul 15. PMID: PMC2861499.
37. Gray TR, Kelly T., LaGasse L. L., Smith L. M., Derauf C., Haning W., Grant P., Shah R., Arria A., Strauss A., Lester B. M., Huestis M. A. Novel biomarkers of prenatal methamphetamine exposure in human meconium. Ther Drug Monit 2009;Feb;31(1):70-5. PMID: PMC262503.
38. Paz, M. S., Smith, L.M., LaGasse, L.L., Derauf, C., Grant, P., Shah, R., Arria, A., Huestis, M., Haning W., Strauss, A., DellaGrotta, S., Fallone, M., Liu, J., Lester, B.M. Maternal depression and neurobehavior in newborns prenatally exposed to methamphetamine. Neurotoxicology and Teratology 2009;31:177-182. PMID: PMC2684459.
39. Sheinkopf, S.J., Lester, B. M., Sanes, J. N., Eliassen, J. C., Hutchison, E. R., Seifer R., LaGasse, L. Durston, S., Casey B. J. Functional MRI and response inhibition in children exposed to cocaine in utero. Developmental Neuroscience 2009;31:159-166. PMID: PMC2951722.
40. Stone, K. C., High, P. C., Miller-Loncar, C. L., LaGasse, L. L., Lester, B. M. Longitudinal study of maternal report of sleep problems in children with prenatal exposure to cocaine and other drugs. Behavioral Sleep Medicine 2009;7:196-207. PMID: PMC2766926.
41. Lester, B. M., Bagner, D. M., Liu, J., LaGasse, L. L., Seifer R., Bauer, C. R., Shankaran, S., Bada, H., Higgins, R. D., Das, A., Infant neurobehavioral dysregulation: Behavior problems in children with prenatal substance exposure. Pediatrics 2009; 124 (4):1355-1362. Epub 2009 Oct 12. PMID: PMC2874881.
42. Gray TR, LaGasse LL, Smith LM, Derauf C, Grant P, Shah R, Arria AM, Della Grotta SA, Strauss A, Haning WF, Lester BM and Huestis MA. Identification of prenatal amphetamines exposure by maternal interview and meconium toxicology in the Infant Development, Environment and Lifestyle (IDEAL) Study, Ther Drug Monitor 2009;31(6):769-775. PMID: PMC2784609.
43. Stephens BE, Liu J, Lester B, Lagasse L, Shankaran S, Bada H, Bauer C, Das A, Higgins R. Neurobehavioral Assessment Predicts Motor Outcome in Preterm Infants. J Pediatr. 2010;156(3):366-71 Epub 2009 Nov 1, PMID: PMC3121326..
44. Liu, J., Bann, C., Lester, B., Tronick, E., Abhik, D., LaGasse, L., Bauer, C., Shankaran, S., Bada, H. Neonatal neurobehavior predicts medical and behavioral outcome. Pediatrics. 2009 Dec. 7, 2009. [Published online Dec 7, 2009; DOI: 10.1542/peds.2009-0204]. PMID: PMC2873896.
45. DellaGrotta, S., LaGasse, L. L., Arria, A. M., Derauf, C., Grant P., Smith L.M., Shah, R., Huestis, M., Liu, J., Lester, B. M. Patterns of methamphetamine use during pregnancy: Results from the Infant Development, Environment, and Lifestyle (IDEAL) Study. Maternal Child Health J 2010;14(4):519-527. Epub 2009 Jun 30. PMID: PMC9565330.

46. Stone, K.C., LaGasse, L. L., Lester, B.M., Shankaran, S., Bada, H.S., and Bauer, C.R., Sleep problems in children with prenatal substance exposure: the Maternal Lifestyle Study. Archives of Pediatrics & Adolescent Medicine 2010;164:452-456. PMID: PMC2917192.
47. Gray TR, Kelly T., LaGasse L. L., Smith L. M., Derauf C., Grant P., Shah R., Arria A., Haning, W., Dellagrotta, S. Strauss, A., Lester B. M., Huestis M. A. New meconium biomarkers of prenatal methamphetamine exposure increase identification of affected neonates. Clinical Chemistry 2010;56(5):1-5. PMID: PMC2883877
48. Lester, B.M., LaGasse, L.L., Shankaran, S., Bada, H.S., Bauer, C.R., Lin, R., Das, A., Higgins, R. Prenatal cocaine exposure related to cortisol stress reactivity in 11-year-old children. Journal of Pediatrics 2010;157(2):288-295, PMID: PMC3121327.
49. Nguyen, D., Smith, L., LaGasse, L., Derauf, C., Grant, P., Shah, R., Arria, A., Huestis, M., Haning, W., Strauss A., DellaGrotta, S., Liu, J., and Lester, B., Intrauterine growth of infants exposed to prenatal methamphetamine: Results from the Infant Development, Environment and Lifestyle (IDEAL) study. Journal of Pediatrics 2010;157:337-339, PMID:PMC3018351.
50. Gaskins, R.B., LaGasse, L. L., Liu, J., Shankaran, S., Lester, B.M., Bada, H.S., Bauer, C.R., Das, A., Higgins, R.D. Small for gestational age and higher birth weight predict childhood obesity in preterm infants. American Journal of Perinatology 2010;27(9), 721-730, PMID: PMC2949419.
51. Shankaran C., Bann, C., Bauer, C. R., Lester, B., Bada, H., Das, A., Higgins, R., Poole, K., LaGasse, L., Hammond J., Woldt, E. Prenatal cocaine exposure predicts increased blood pressure at 9 years of age. Journal of Hypertension 2010;28(6):1166-1175, PMID: PMC2874425.
52. Bada, H., Bann, C., Bauer, C., Shankaran, S., Lester, B., LaGasse, L., et al. Preadolescent behavior problems after prenatal cocaine exposure: Relationship between teacher and caregiver ratings (Maternal Lifestyle Study). Neurotoxicology & Teratology 2011;33(1):78-87, PMID: PMC3011027.
53. LaGasse, L. L., Wouldes, T., Newman, E., Smith L.M., Shah, R.Z., Derauf C., Huestis, M.A., Arria, A.M., DellaGrotta S., Wilcox, T., Lester B. M. Prenatal methamphetamine exposure and neonatal neurobehavioral outcome in the USA and New Zealand. Neurotoxicology & Teratology 2011;33(1):166-175.Epub 2010 Jul 6, PMID:PMC2974956.
54. Smith LM, LaGasse LL, Derauf C, Newman E, Shah R , Arria, A, Huestis M, Della Grotta S, Dansereau LM, Lin, H, Lester BM. Motor and Cognitive Outcomes Through Three Years Of Age In Children Exposed To Prenatal Methamphetamine. Neurotoxicology & Teratology 2011;33(1):176-184, PMID: PMC3033584.
55. Whitaker TM, Bada HS, Bann CM, Shankaran S, LaGasse LL, Lester BM, Bauer CR, Hammond J, Higgins R. Serial Pediatric Symptom Checklist Screening in Children with Prenatal Drug Exposure. J Dev Behav Pediatr. 2010 Dec 31. [Epub ahead of print]. PMID21200328; PMID3069136.
56. LaGasse, L., Gaskins, R., Shankaran, S., Bada, H.S., Liu, J., Lester, B., Bauer, C., Higgins, R.D., Das, A. Predictors of overweight at 9 years among cocaine-exposed children. Neurotoxicology & Teratology 2011;33:188-197. 2010 Nov 23. [Epub ahead of print], doi:10.1016/j.ntt.2010.11.002, PMID: PMC3058125.
57. Shankaran S, Bann CM, Das A, Lester BM, Bada HS, Bauer CR, LaGasse LL, Higgins RD. Risk for Obesity in Adolescence starts in Early Childhood. J Perinatology 2011;31:711-716 [Epub 2010 Apr 20]. PMC Journal-in-Process
58. Derauf C, LaGasse L, Smith L, Newman E, Shah R, Arria A, Huestis M, Haning W,

- Strauss A, Della Grotta S, Dansereau L, Lin H, Lester B. Infant temperament and high-risk environment relate to behavior problems and language in toddlers. Journal of Developmental & Behavioral Pediatrics 2011;32(2); 2010 Dec 31. [Epub ahead of print], PMID: PMC3095893.
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  60. Fisher, PA, Lester, BM, DeGarmo, DS, LaGasse, LL, Lin, H, Shankaran, S, Bada, HS, Bauer, CR, Hammond, J, Whitaker, T, Higgins, R. The combined effects of prenatal drug exposure and early adversity on neurobehavioral disinhibition in childhood and adolescence. Development and Psychopathology 2011;23: 777-788. PMID21756431; PMID3335443.
  61. Bigsby R, LaGasse LL, Lester BM, Shankaran S, Bada HS, Bauer CR, Liu J. Prenatal cocaine exposure and motor performance at 4 months. American Journal of Occupational Therapy 2011;65: e60–e68. doi: 10.5014/ajot.2011.001263.
  62. Zabaneh R, Smith LM, LaGasse LL, Derauf C, Newman E, Shah R, Haning W, Arria A, Huestis M, Strauss A, Della Grotta S, Dansereau LM, Lin H, Lester BM. The effects of prenatal methamphetamine exposure on childhood growth patterns from birth to three years of age. [published ahead of print on August 4, 2011]. J American Journal of Perinatology 2012 Mar;29(3):203-10. DOI:10.1055/s-0031-128094.
  63. LaGasse L, Derauf C., Smith LL, Newman E, Shah R, Neal C, Arria A, Huestis M, DellaGrotta S, Lin H, Dansereau L, Lester B. Prenatal methamphetamine exposure and childhood behavior problems at ages 3 and 5. Pediatrics 2012;129(4):681-8. doi: 10.1542/peds.2011-2209.Epub ahead of Print. March 19, 2012. PMID:PMC3313637
  64. Derauf C, MD , LaGasse LL, Smith LM, Newman E, Rizwan Shah, Neal C , Arria AM, Huestis MA, Della Grotta S, Lynne M. Dansereau LM, Lin H, and Lester, BM. Prenatal Methamphetamine Exposure and Inhibitory Control among Young School-Age Children. The Journal of Pediatrics 2012; 161:452-9. Epub ahead of print March 15, 2012. PMID: 22424953. PMID:PMC3392459.
  65. Levine TP, Lester B, Lagasse L, Shankaran S, Bada HS, Bauer CR, Whitaker TM, Higgins R, Hammond J, Roberts MB. Psychopathology and special education enrollment in children with prenatal cocaine exposure. Journal of Developmental & Behavioral Pediatrics 2012;33(5):377-386. PMID:PMC3400535.
  66. Liles B, Newman E, LaGasse LL, Derauf C, Shah R, Smith LM, Arria AM, Huestis MA, Haning W, Strauss A, Della Grotta S, Dansereau LM, Neal C, and Lester BM. Parenting Stress among Prenatal Methamphetamine Users: The Moderating Role of Maternal Depressive Symptoms. Child Psychiatry and Human Development 2012; 43(6):943-57. May 3, 2012. [Epub ahead of print]. PMID:22552952.
  67. Wu M, LaGasse LL, Wouldes T, Arria AM, Wilcox T, Derauf C, Newman E, Shah R, Smith LM, Neal C, Huestis MA, Della Grotta S and Lester BM. Predictors of Inadequate Prenatal Care in Methamphetamine-Using Mothers in New Zealand and the United States. Maternal and Child Health Journal 2012;May 16 [Epub ahead of print] DOI 10.1007/s10995-012-1033-8.
  68. Lester BM, Lin H, DeGarmo DS, Fisher PA, LaGasse LL, Levine TP, Shankaran S, Bada HS, Bauer CR, Hammond JA, Whitaker TM, Higgins RD. Neurobehavioral Disinhibition Predicts Initiation of Substance Use in Children with Prenatal Cocaine Exposure. Drug and Alcohol Dependence 2012; May 17. [Epub ahead of print] doi:10.1016/j.drugalcdep.2012.04.014. PMID: 22608010 PMID:PMC3439586

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70. Woulides, T.A, LaGasse, L. L., Derauf, D. Newman, E., Shah, R., Smith, L.M., Arria, A.M., Huestis, M.A., DellaGrotta, S., Wilcox, T., Neal, C. R. Lester, B.M., Co-morbidity of substance use disorder and psychopathology in women who use methamphetamine during pregnancy in the US and New Zealand. Drug and Alcohol Dependence 2012, Jul 10. [Epub ahead of print] PMID:PMC3498544.
71. Shah R, Diaz SD, LaGasse LL, Derauf C, Newman E, Arria AM, Huestis MA, Haning W, Smith LM, Strauss A, DellaGrotta S, Dansereau L, Roberts M, and Lester BM. Prenatal methamphetamine exposure and short-term maternal and infant medical outcomes. American Journal of Perinatology 2012; 29(5):391-400. Epub 2012 Mar 7. PMID:22399214.
72. Abar B, LaGasse LL, Derauf C, Newman E, Rizwan Shah, Smith LM, Arria AM, Huestis MA, DellaGrotta S, Dansereau LM, Neal C, and Lester, BM. Examining the Relationships Between Prenatal Methamphetamine Exposure, Early Adversity, and Child Neurobehavioral Disinhibition. Psychology of Addictive Behaviors. 2012 Oct 15. [Epub ahead of print]. PMID:23067308. Doi:10.1037/a0030157. PMID:PMC3842232
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74. Twomey J, LaGasse LL, Derauf C, Newman, E, Shah R, Smith LM, Arria AM, Huestis MA, DellaGrotta S, Roberts M, and Lester BM. Prenatal methamphetamine exposure, home environment and primary caregiver risk factors predict child behavior problems at five years. American Journal of Orthopsychiatry 2013;83(1):64-72. doi:10.1111/ajop.12007. PMID:23330624.
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81. Himes, S., LaGasse, L.L., Derauf, C., Newman, E., Smith, L.M., Arria, A.M., Della Grotta, S.A., Dansereau L.M., Abar, B., Neal, C.R., Lester B.M., Huestis, M.A. Risk for Neurobehavioral Disinhibition in Prenatal Methamphetamine-Exposed Young Children with Positive Hair Toxicology Results. Therapeutic Drug Monitoring 2014. 36:1-9. [Epub ahead of print - February 19, 2014] DOI:10.1097/FTD.0000000000000049.
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84. Diaz, S. D., Smith, L. M., LaGasse, L. L., Derauf, C., Newman, E., Shah, R., Arria, A., Huestis, M. A., DellaGrotta, S., Dansereau, L. M., Neal C., Lester, B. M. Prenatal methamphetamine exposure and behavioral and cognitive findings at 7.5 years from the Infant Development, Environment, and Lifestyle (IDEAL) Study. Journal of Pediatrics 2014. <http://dx.doi.org/10.1016/j.jpeds.2014.01.053>.
85. Wouldes, T.A, LaGasse, L. L., Huestis, M.A., DellaGrotta, S., Dansereau, L. M., Lester, B.M. Prenatal methamphetamine exposure and neurodevelopmental outcomes in children from 1 to 3 years. Neurotoxicology and Teratology. 2014. 42:77-84. doi.org/10.1016/j.ntt.2014.02.004., Jul 10. [Epub ahead of print]
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88. Lester, B., Hawes, K., Abar, B., Sullivan, M., Miller, R., Bigsby, R., Lupton, A., Salisbury, A., Taub, M., LaGasse, L., Padbury, J. Single Family Room Care and Neurobehavioral and Medical Outcomes in Preterm Infants. Pediatrics 2014. 134 (45);754-760
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R., Whitaker, T.M., Hammond. Cortisol reactivity to social stress as a mediator of early adversity on risk and adaptive outcomes. Child Development 2014. Nov-Dec; 85 (6): 2279-98 doi: 10.1111/cdev.12316. Epub 2014 Nov 6. PMID: 25376131 [PubMed - in process]

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91. Nwando, E., Smith, L.M., LaGasse, L.L., Derauf, C., Newman, E., Arria, A., Huestis, M.A., DellaGrotta, S.A., Dansereau, L.M., Neal, C., Lester, B.M. Childhood Behavioral problems and early adversity in school-aged children with prenatal methamphetamine exposure: 7.5 year follow up from the Infant Development, Environment and Lifestyle (IDEAL) study. Journal of Pediatrics. Accepted for publication.

### **OTHER PEER REVIEWED PUBLICATIONS**

LaGasse, L. L., Neal, A. R., Lester, B. M. Assessment of infant cry: Acoustic cry analysis and parental perception. Mental Retardation and Developmental Disabilities 2005;11:83-93.

Lester, B.M., LaGasse, L. L. Children of addicted women. Journal of Addictive Diseases 2010;29:259-276.

### **BOOKS AND BOOK CHAPTERS**

Lester, B.M., Freier, M.C., LaGasse, L.L. Prenatal drug exposure and child outcome: What do we really know? In Michael Lewis (Ed.), Developmental Outcomes and Toxins. Hillsdale, NJ: Erlbaum Press, 1995.

Lester, B.M., LaGasse, L.L., Freier, M.C. Human studies of cocaine exposed infants. In Behavior of Drug Exposed Offspring: Research Update. NIDA Research Monographs 164, 1996.

LaGasse, L. L., Chernen, L., Kuprevich, T. F., Lester, B. M. Prenatal drug exposure and neonatal outcome in human infants. In Problems of Drug Dependence, Proceedings of the 61<sup>st</sup> Annual Scientific Meeting, The College on Problems of Drug Dependence, Inc. NIDA Research Monographs 180, 1999.

LaGasse, L. L., Lester, B. M. Prenatal cocaine exposure and child outcome: From research to public policy. In H. E. Fitzgerald, B. M. Lester, & B. S. Zuckerman (Eds.) Children of Addictions.(pp. 29-45) New York: Routledge Falmer, 2000.

Salisbury, A., LaGasse, L., Lester, B., Maternal-fetal psychobiology: A very early look at emotional development. In J. Nadel, D. Muir (Eds.), The Future of Emotion. Oxford University Press, 2004.

Lester, B. M., LaGasse, L.L., Crying. In M. M. Haith and J. B. Benson (Eds.) Encyclopedia of Infant and Early Childhood Development. San Diego: Academic Press., pp. 332-343, 2008.

### **OTHER NON-PEER REVIEWED PUBLICATIONS**

LaGasse, L.L., Van Vorst, R.F., Brunner, S.M., Lester, B.M. Effects of in utero exposure to cocaine and/or opiates on infants' reaching behavior. Annals of the New York Academy of Science, 846, 405-407, 1998.

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, 123-146, 1998.

LaGasse, L. L., Seifer, R., Lester, B. M. Interpreting research on prenatal substance exposure in the context of multiple confounding factors. Clinics in Perinatology, 26(1), 1999.

Lester, B., LaGasse, L., Smith, L. M., Derauf, C., Grant P., Shah, R., Arria, Am., Huestis, M., Liu, J. Prenatal exposure to methamphetamine and child development. Proceedings of the Community Epidemiology Work Group, 22:1-4, 2005.

Lester B.M., Arria A.A., Derauf D.C., Grant P., LaGasse L., Newman E., Shah R.Z., Stewart S., Wouldes T. Methamphetamine Exposure: A Rural Early Intervention Challenge. Zero to Three 26(4):30-36, 2006.

LaGasse, L. L., Hammond, J., Liu, J., Lester, B. M., Shankaran, S., Bada, H., Bauer, C., Higgins, R., Das, A. Violence and delinquency, early onset drug use, and psychopathology in drug exposed youth at 11 years. Annals of the New York Academy of Sciences 1094:313-318, 2006.

## **ABSTRACTS**

1. LaGasse, L.L., Van Vorst, R.F., Brunner, S.M., Lester, B.M. Effects of in utero exposure to cocaine and/or opiates on infants' reaching behavior. Pediatric Research, 39, No. 4, Part 2, 1996.
2. LaGasse, L.L., Boukydis, C.F.Z., McGrath, M., Garcia Coll, C., Lester, B.M. Neonatal regulation and emotional expression at 3 months in term and preterm infants. Pediatric Research, 39, No. 4, Part 2, 1996.
3. LaGasse, L.L., Brunner, S.M., Brown, A. L., Lester, B.M. Data Base of research on prenatal cocaine exposure and child outcome. Pediatric Research, 43, No. 4, Part 2, 1998.
4. LaGasse, L. L., Seifer, R., Wright, L. L., Lester, B. M., Tronick, E. Z., Bauer, C. R., Shankaran, S., Bada, H., Smeriglio, V., The Maternal Lifestyle Study (MLS): The caretaking environment of infants exposed to cocaine/opiates. Pediatric Research, 45, No. 4. Part 2, 1999.
5. LaGasse, L., Messinger, D., Lester, B., Seifer, R., Bauer, C., Shankaran, S., Bada, H., Wright, L., Smeriglio, V., Poole, K., Liu, E. Prenatal drug exposure & maternal & infant feeding behavior. Pediatric Research, 49, No. 4. Part 2, 2001. [Platform talk, SPR, 2001]
6. LaGasse, L., Lester, B., Seifer, R., Bauer, C., Shankaran, S., Bada, H.S., Poole, K., Wright, L., Smeriglio, V., Liu, J. Prenatal cocaine exposure and cognitive development at school age. Pediatric Research, 55, No. 4. Part 2, 69A, 2004. [Platform talk, SPR, 2004]
7. LaGasse, L., Derauf, C., Grant, P., Shah, R., Smith L., Arria, A., Huestis, M., Strauss, A., Haning W., DellaGrotta, S., Fallone, M., Liu, J., Lester, B. Prenatal methamphetamine exposure and neonatal cry acoustic analysis: Preliminary results from the Infant Development, Environment, and Lifestyle Study (IDEAL). Pediatric Research, 55, No. 4. Part 2, 72A, 2004.
8. LaGasse, L., Shankaran, S., Bada, H.S., Liu, J., Lester, B., Bauer, C., Petersen, MC, Higgins, R.D., Smeriglio, V., Poole, W.K. Predictors of overweight at 9 years in cocaine-exposed children. PAS;57:2005.

## **INVITED PRESENTATIONS**

1. LaGasse, L. L. Large Multi Site Studies of Child Development: Scientific advantages and

- Limitations. Workshop for the IX Biennial International Conference for Infant Studies, 1994.
2. LaGasse, L. L. [Speaker, Plenary Session]. Maternal Lifestyle Study. Substance Abuse and Mental Health Services Administration, (CSAT), 1998.
  3. LaGasse, L. L. [Presentation/workshop]. Neurobehavioral Assessment of the Infant. Substance Abuse and Mental Health Services Administration, (CSAT), 1998.
  4. LaGasse, L. L. [Presentation]. NICHD/NINDS Workshop on the Content of Follow Up Care for High Risk Children. Wash DC, 2002.
  5. LaGasse, L.L , Lester, B.M., Seifer, R., Shankaran, S., Bada, H.S., Bauer, C.R., Poole, K., Wright, L., Smeriglio, V., Liu, J. Maternal Lifestyle Study (MLS). Symposium at the Society for Research in Child Development. 2003.
  6. LaGasse, L. L. [organizer/presenter]. Prenatal Exposure to Methamphetamine and Cocaine and Child Outcome. Cocaine & Methamphetamine Use During Pregnancy: Treatment for Pregnant and Postpartum Women and Their Children (Options for Recovery), San Jose, CA, 2006
  7. LaGasse, L. L., Hammond, J., Liu, J., Lester, B. M., Shankaran, S., Bada, H., Bauer C., Higgins, R., Das, A. [NIDA Symposium] Violence and Delinquency, Early Onset Drug Use, and Psychopathology in Drug Exposed Youth at 11 Years. Society of Research on Adolescence. 2006.
  8. LaGasse, .L L. Impact of Prenatal Methamphetamine Exposure on Child Development. National Conference on Women, Addiction and Recovery: News You Can Use. Anaheim, CA, 2006.
  9. LaGasse, .L L. Special Population: The Impact of Prenatal Methamphetamine Exposure on Child Development. SAMHSA Targeted Capacity Expansion (TCE) Methamphetamine Grantee Workshop, Washington DC, 2006.
  10. LaGasse, L. L. Impact of Prenatal Exposure to Methamphetamine Ages 0 to 3 Years. National Drug Endangered Children Conference, Salt Lake City, UT, 2008.
  11. LaGasse, L. L. Prenatal Methamphetamine Exposure and Child Development in NZ and USA. Telepaed. Mini Workshop. Werry Center, Auckland, NZ, 2008.
  12. LaGasse, L.L. (Plenary Presentation). Infant Development, Environment and Lifestyle (IDEAL) Study: Impact of Prenatal Methamphetamine Exposure on Child Development. International Infant Toddler Preschool Mental Health Conference, Auckland NZ 2010.
  13. L. LaGasse, T. A. Wouldes, M, Hinckley, B. M. Lester, S. Della Grotta. Neonatal Neurobehavior of New Zealand Infants Exposed to Methamphetamine Predicts Cognitive Development at Age 1 Year. NIDA International Forum Conference, Hollywood, FL, 2011.
  14. L. LaGasse. Behavior and Executive Function Problems in School Age Children with Prenatal Methamphetamine Exposure. National Alliance for Drug Endangered Children Conference, Des Moines IA, 2012

## **GRANTS**

Infants' Understanding of Auditory Events, (DBS-9396020) National Science Foundation, \$18,000, 1 year, September 1992 to February 1995. Principal Investigator.

Cocaine/Alcohol Exposure and Infant Outcome, (42-USC-241-42-CRF-52) National Institute on

Drug Abuse, \$50,000, 1 year, September 1996 to August 1997. Principal Investigator.

Cocaine Exposure: Reaching, Kinematics and Cognition, (RO3-DA10817) National Institute on Drug Abuse, \$96,326, 2 years, February 1997 to January 1999. Principal Investigator.

Neurodevelopmental Battery for the Maternal Lifestyle Study, (N01-HD-2-3159) National Institute of Child Health & Human Development, 4 years, \$2,943,613, October 1, 2003 to September 31, 2008. Co-Principal Investigator.

Methamphetamine Exposure and Child Development (RO1 DA14948) National Institute on Drug Abuse, \$6,574,167, 5 years, September 2001 to August 2007. Co-Investigator.

Prenatal Methamphetamine Exposure and Child Development in New Zealand and USA, (RO1 DA021757) National Institute on Drug Abuse, \$1,916,344, 5 years, September 5, 2007- August 31, 2013. Principal Investigator.

Prenatal Methamphetamine Exposure and School Aged Outcome (RO1 DA14948) National Institute on Drug Abuse, \$7,502,249, 5 years, September 2007 to November 2013. Co-Investigator.

Maternal Lifestyle Study -Phase 5 (Data Sharing) (U10 DA 024199-04S1) National Institute on Drug Abuse, \$108,029. 3 years, September 2011 to June 2012. Co- Investigator.

Maternal Lifestyle Study 13-15 Year Follow-Up (U10 DA 024199-02S2) National Institute on Drug Abuse, \$1,618,964. 3.6 years, April 2008 to March 2013. Co- Investigator.

Epigenetics in Neurodevelopment and Mental Health (R01MH094609) National Institute of Mental Health Subaward \$228,339. 3 years. July 2013-June 2014. Co-Investigator.

Fetal and Neonatal Neurobehavior and Prenatal Antidepressant Exposure: The Child (R01MH078033) National Institute of Mental Health. \$3,001,770. 5 years, February 2013 to January 2018. Co-Investigator.

Neonatal Neurobehavior and Outcomes in Very Preterm Infants (R01HD072267) Eunice Kennedy Shriver National Institute of Child health & Human Development. \$3,035,752. 5 years. September 3, 2013- August 2018. Co-Investigator.

## UNIVERSITY TEACHING ROLES

Summer, 1991. Cognitive Psychology, Department of Psychology, University of Massachusetts, Amherst, MA, 65 students.

Fall, 1991. Cognitive Psychology, Department of Psychology, University of Massachusetts, Amherst, MA, 75 students.

Spring, 1993. Developmental Psychology, Department of Psychology, Wheaton College, Norton, MA, 100 students.

Fall, 1993. Human Development 230, Department of Psychology, Rhode Island College, Providence, RI, 65 students.

Spring, 1994. Developmental Psychology 232, University of Rhode Island, Kingston, RI, 35 students.

Fall, 1994. Child Development 81, Department of Psychology, Brown University, Providence, RI, 98 students.

Fall, 1996. Child Development 81, Department of Psychology, Brown University, Providence, RI, 115 students.

Undergraduate Advisor, Brown University, Providence, RI, 1996 to present:

PLME Summer Research Assistantship (2 students), Brown Medical School

Undergraduate Teaching and Research Assistantships [UTRA], (7 students), Departments of Psychology, Neuroscience, and Biology

Senior honors undergraduate projects (12 students); Departments of Psychology and

## Neuroscience

Independent research, CLPS1980 PSY199/ (12 students), Department of Psychology.

Independent research, Biology1950, fall semester, 2013.

Independent research, Biology LINK, summer 2014.

Independent research, Neuroscience, summer 2014.

Independent research, Biology LINK, summer 2015.

Independent research, Neuroscience, 2015 - 2016.

Independent research, Biology, 2015-2016.

Fulbright Scholar (Auckland NZ/ NZ IDEAL project) Min Wu. 2010-2012. Published study 2012.

2002-present. Graduate/Fellowship training:

Masters Thesis (University of Miami) Monica Bocanegra MS. Reaching Outcome, Behavior, and Efficiency in Infants Prenatally Exposed to Cocaine and/or Opiates. 2003

Doctoral Thesis (University of Tennessee at Memphis) Melissa Fallone, Ph.D. Motoric Reactivity and Regulation. 2003

Pediatric Fellow, James Moore MD. Study entitled, Risk Factors for Failure to Thrive (FTT) in Cocaine-Exposed Infants. PAS2006:59:3571.313. 2006

Doctoral Thesis (University of Tulsa, OK) Elizabeth Risch, Prenatal Methamphetamine Exposure and Behavioral Reactivity and Regulation in a Social Problem Solving Task. 2008

Post-doctoral Fellow, Ronnesia Gaskins PhD. Study entitled, Prematurity and Later Childhood Overweight: The Maternal Lifestyle Study. 2008.

Doctoral Thesis (University of Tulsa, OK) Hannah Pennington, Study entitled, Task Orientation in Two Year Old Children with Prenatal Methamphetamine Exposure 2010.

Clinical Assistant Professor, Gisela Porras MD, Study entitled, Failure to Thrive and Long Term Outcome in Children with Prenatal Cocaine Exposure. 2009

Lecturer for the Postgraduate Certificate Program in Infant and Child Mental Health through Brown University Continuing Education. Topic: Evidence based research. Students are licensed mental health providers 2011

Masters Student, Brandi Liles, Study entitled, Parenting Stress Among Prenatal Methamphetamine Using Mothers: The Moderating Role of Depression. Published study 2011.