

JANINA R. GALLER, M.D.

PERSONAL INFORMATION

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Born Uppsala, Sweden

Citizenship U.S.A.

ACADEMIC RECORD

1969 B.S., summa cum laude
Sophie Newcomb College, Tulane University, New Orleans, LA

1972 M.D.
Albert Einstein College of Medicine, Bronx, NY

PROFESSIONAL EXPERIENCE

2007- Senior Scientist, Judge Baker Children's Center, Boston, MA;
Professor of Psychiatry, Harvard Medical School

1973- Research Director, Barbados Nutrition Study, Ladymeade Gardens, St. Michael,
Barbados, West Indies

1985-2006 Director, Center for Behavioral Development and Mental Retardation
Boston University School of Medicine

1984- present Professor of Public Health (Epidemiology and Biostatistics)
Boston University School of Public Health

1982- present Professor of Psychiatry, Boston University School of Medicine

1982-1986 Director of Residency Training, Division of Psychiatry, Boston University
School of Medicine

1980-1985 Associate Chairperson, Department of Child Psychiatry, Boston University
School of Medicine

1978-1985 Director of Training, Department of Child Psychiatry, Boston University
School of Medicine

1980-1981 Associate Professor of Psychiatry, Boston University School of Medicine

1980-1982	U.S. Senate Fellow, Labor and Human Resources, Subcommittee on Aging, Family and Human Services
1973-1980	Research Associate, Department of Nutrition and Food Science, Massachusetts Institute of Technology
1977-1979	Assistant Professor of Psychiatry, Boston University School of Medicine
1976-1977	Research Fellow, NIMH Research Training Program in Psychiatry, Boston University School of Medicine
1975-1976	Clinical Fellow in Child Psychiatry, Boston University School of Medicine
1974-1975	Chief Resident in Child Psychiatry, Department of Child Psychiatry, Massachusetts General Hospital (first woman chief resident in child psychiatry)
1972-1975	Resident in Psychiatry, Massachusetts General Hospital (one of the first women residents at M.G.H.)
1972-1975	Clinical Fellow in Psychiatry, Harvard Medical School

SELECTED HONORS AND AWARDS

2003	Distinguished Fellow, American Psychiatric Association
1994-1996	Chairperson, Planning and Policy Committee, National Advisory Child Health and Human Development Council, NIH
1993-1996	Member, Advisory Council to the Director of NIH
1991-1996	Member, National Advisory Child Health and Human Development Council, NIH
1992	Irving B. Harris Lectureship Award, Society for Behavioral Pediatrics, St. Louis, MO)
1986	Centennial Award, Sophie H. Newcomb College, Tulane University
1985	Blanche F. Ittleson Award for Research in Child Psychiatry, American Psychiatric Association
1980	Recipient of the first Joseph P. Kennedy, Jr. Foundation Public Policy Leadership Award in Mental Retardation
1978-1980	Medical Foundation Fellow

LICENSURES

1994	Boston Psychoanalytic Society and Institute
1977	American Board of Psychiatry and Neurology
1973	National Board of Medical Examiners
1973- current	Board of Registration in Medicine, Commonwealth of Massachusetts License No. 78737

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2002-	Society for Neuroscience
1994-	FASEB
1994-	Boston Psychoanalytic Society and Institute
1989-	International Society of Developmental Psychobiology
1983-	American Psychosomatic Society
1981-1984	The Society of Professors of Child Psychiatry
1979-	American Academy of Child and Adolescent Psychiatry
1979-	New England Council of Child and Adolescent Psychiatry
1979-	The Nutrition Society (British)
1978-	American Institute of Nutrition
1978-	American Society for Clinical Nutrition
1974-	American Psychiatric Association
1974-	Massachusetts Psychiatric Society

ADVISORY COMMITTEES

1986- present	Member/Chair, NIH review panels on childhood nutrition, mental retardation and developmental disabilities, epidemiology, international research and research policy, research in developing countries, child development, and animal models of brain development (5 review panels in 2006)
1991- 2006	Member, Mental Retardation and Developmental Disability Research Centers Review Panel, NIH (NICHD)
1994-2004	Member, Advisory Committee, Pediatric Brain and Tissue Bank for Developmental Disorders, NICHD
1989-2000	Member, Scientific Advisory Board, Joseph P. Kennedy Foundation
1987-1991	Member, Mental Retardation Research Committee, NICHD/NIH
1985-1989	Member, Technical Advisory Committee, The Thrasher Research Fund, Salt Lake City
1994-2002	Chairperson, Advisory Committee, International Maternal PKU Collaborative Study, NICHD
1983-1992	Member, Board of Directors, Douglas A. Thom Clinic, Boston, MA
1978-1982	Member, Steering Committee, Functional Aspects of Undernutrition, U.S. Agency for International Development (USAID)

OTHER SELECTED COMMITTEE MEMBERSHIPS

2005-2006	International Brain Disorders Study Section, Fogarty, NIH
2005-2006	Child Psychopathology and Developmental Disabilities Study Section, NIH
1999	Panel member, "Opportunities for Scientific Progress: Global Research on Women and Children's Health, Population, and Human Development," NICHD, Fogarty, NIH
1999	NIH Rat Model Priority Committee, NHLBI/NIH
1994	Reinvention Roundtable on Peer Review, Office of the Director of NIH
1992	Strategic Task Force, Director of NIH
1990	Blue Ribbon Panel, International Kennedy Awards in honor of Rose Kennedy's 100th birthday, Joseph P. Kennedy Foundation
1986-1989	Blanche Ittleson Award Board, American Psychiatric Association
1985-1988	Board of Directors, The New England Council of Child Psychiatry
1985-1986	Institute Committee, American Academy of Child Psychiatry
1983-1986	Research Committee, American Academy of Child Psychiatry
1978	Chairperson, Workshop on Behavioral Correlates of Malnutrition, USAID
1977	Workshop on Functional Aspects of Malnutrition, National Academy of Sciences
1977	Advisory Committee on Future Directions for Research on Nutrition and Delinquency, The Ford Foundation
1976-1992	Committee on Women, Massachusetts Psychiatric Society

CONSULTANCIES/ CONGRESSIONAL ACTIVITIES

1973- 2000	Consultant , UNICEF; USAID; UNDP; PAHO – Nutrition and Child Development in Latin America, Caribbean
1979- 1985	FASIC (Fundacion de Ayuda Social de las Iglesias Cristianas), Santiago, Chile
1981	Expert Witness, U.S. Senate Hearing on "Sex Education: A Review of Title X Funds," before the Committee on Labor and Human Resources, 97th Congress

TEACHING ACTIVITIES

Mentor	Supervises undergraduate, medical and graduate students, and postdoctoral fellows in Behavioral Epidemiology, Public Health, Behavioral Neurosciences, Child Development, Nutrition, Nutritional Anthropology, Child Psychiatry
Courses Taught	Principles of Behavioral Epidemiology (15 lectures/yr), Graduate Students, Boston University School of Medicine
	Normal and Aberrant Child Development (35 lectures/yr), Boston University School of Medicine
	Seminars in Child Development (15 lectures/yr), Boston Psychoanalytic Society (with R. Knight)
	Research Methods in Child Psychiatry (15 lectures), Boston University School of Medicine
	Food, Nutrition and Human Development (8 lectures), First Year Medical Students, Boston University School of Medicine

EDITORIAL ACTIVITIES

1996-present	Editor, Journal of Nutritional Neurosciences
1983-1988	Editor, Journal of Nutrition and Behavior
1983-current	Ad Hoc reviewer for numerous journals in pediatrics, behavioral development, brain research, mental health, pediatrics

RESEARCH AREAS:

Dr. Galler conducts public-policy relevant research focused on the interrelationships between childhood malnutrition, poverty and environmental causes of mental health disorders in developing countries. Dr. Galler has undertaken three longitudinal studies in Barbados and Mexico, where she has worked since 1973. She also conducts translational research in parallel laboratory studies, examining the effects of prenatal malnutrition on brain and behavioral development in animal models.

Human Studies:

1. Early childhood malnutrition, development and mental health outcomes: a longitudinal study from birth to 39 years of age (with C. Bryce, F.C. Ramsey and D. Waber)
2. Intergenerational malnutrition: a three generation study of childhood malnutrition in Barbados (with C. Bryce, F. C. Ramsey)
3. Psychosocial determinants of breast-feeding in Barbados (with F.C. Ramsey)
4. Breast-feeding and post-partum maternal moods impact development of a Barbadian population from birth to 21 years (with F.C. Ramsey, E.A. Archer)

5. A community-based intervention program to reverse the effects of infant malnutrition in four Mayan villages, Yucatan, Mexico: Impact on growth, cognitive and behavioral development (with M.D. Cervera)

Laboratory Studies:

1. Prenatal malnutrition and mental retardation: 17 year-long multidisciplinary program project addressing behavior, neuroanatomy, neurophysiology and molecular biology in an animal model
2. Malnutrition and mental health: an animal model of impulsivity and attention deficit disorder
3. Prenatal cocaine exposure and malnutrition: effects on brain and behavioral development
4. Prenatal malnutrition and the response to stress: a developmental study of neuroplasticity and behavioral development in a rat model
5. Intergenerational malnutrition and behavioral development in the rat: A study of 23 generations of protein malnutrition

GRANTS:

Dr. Galler has been the Principal Investigator on research grants from the National Institutes of Health, National Science Foundation, Ford Foundation, the W.T. Grant Foundation, Milbank Foundation, Pan American Health Organization, Thrasher Research Fund, UNICEF and Wellstart International.

SELECTED INVITED LECTURES

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| 2007 | <p>“A 40-Year Longitudinal Study of the Effects of Infantile Malnutrition”
 Longwood Nutrition Conferences
 Harvard Medical School
 Boston, MA, November 16, 2007</p> |
| 2007 | <p>“The Legacy of Childhood Malnutrition: 35 Years Later”
 Global Pediatric Diseases Which Can Impair Child Development,
 Programme for Global Pediatric Research, Pediatric Academic Societies
 Toronto, Canada, May 8, 2007</p> |
| 2005 | <p>“Human Studies of Nutrition and Behavior”
 NIH Workshop on Diet, Nutrition and Autism
 Rockville, Md., Oct. 6, 2005</p> |
| 2004 | <p>“Long Term consequences of early childhood nutrition”,
 Instituto de Neurobiologia, UNAM
 Queretaro, Mexico, July 2, 2004</p> |
| 2004 | <p>“Early Malnutrition and Development: From the Human to the Rat”
 Center for Human Growth & Development, U. Michigan
 Ann Arbor, Michigan, February 10, 2004</p> |
| 2003 | <p>“Neurodevelopmental consequences of childhood malnutrition”
 The 2003 Raymond D. Adams Lecture</p> |

Neurodevelopmental Disabilities Related to Poverty, Shriver Center,
Waltham, Massachusetts, December 4, 2003

- 2003 "Sports and nutrition", Health Talk, Brookline Access Television,
June 26, 2003 (2005, California Public Access Television)
- 2002 "The Epidemiology, Diagnosis and Treatment of Eating Disorders",
Health Talk, Brookline Access Television, December 12, 2002
(2005, California Public Access Television)
- 2002 "Effects of malnutrition on brain development", Health Talk, Brookline
Access Television, August 7, 2002 (2005, Calif. Public Access TV)

PUBLICATIONS

Dr. Galler is the author of 2 books and 142 research publications and chapters.

BOOKS

Galler, J.R., ed. (1984) *Nutrition and Behavior*, Vol. V of *Human Nutrition: A Comprehensive Treatise*. New York, NY: Plenum Press.

Galler, J.R. and Ramsey, F. (in preparation) *Undernourished Lives: Growing up with Early Childhood Malnutrition*. Cambridge, MA: Harvard University Press.

ARTICLES

1. Galler, J.R. and Turkewitz, G. (1975) Variability of the effects of rearing in a large litter on the development of the rat. *Dev. Psychobiol.* 8:325-331.
2. Galler, J.R. and Turkewitz, G. (1977) Use of partial mammectomy to produce malnutrition in the rat. *Biol. Neonat.* 31:260-265.
3. Galler, J.R. and Turkewitz, G. (1977) Motor competence in rats of different stocks reared in large and small litters. *Phys. Behav.* 19:697-699.
4. Solimano, G. and Galler, J.R. (1977) Programas de nutricion materna: Un analisis critico. *Arch. Latinoamer. Nutr.* 27:223-240.
5. Miller, S.A. and Galler, J.R. (1978) Nutrition and the development of mother-infant synchrony. In: White, P.L. and Selvey, N. (eds.), *Nutrition in Transition*. Proc. Vth Western Hemisphere Congress of Nutrition. pp. 248-253.
6. Galler, J.R. (1978) Book Review: Brown, R., *Starving Children: The Tyranny of Hunger*. *Soc. Sci. Med.* 13:57-58.
7. Galler, J.R. and Rosenthal, M. (1979) The effects of intergenerational malnutrition on the mother-pup relationship in rats. *Inf. Behav. Dev.* 2:1-12.
8. Galler, J.R., Fox, J., Murphy S. and Melanson, D. (1979) Ulcerative dermatitis in rats with over fifteen generations of protein malnutrition. *Brit. J. Nutr.* 41:611-618.
9. Galler, J.R. (1979) The effects of intergenerational and postnatal malnutrition on the behavioral development of rats. In: J. Brozek (ed.), *Behavioral Effects of Energy and Protein Deficits*. N.I.H. Publication No. 79-1906. pp. 22-38.
10. Galler, J.R. (1979) Home orientation in nursing rats: The effects of rehabilitation following intergenerational malnutrition. *Dev. Psychobiol.* 12:499-508.
11. Galler, J.R. (1979) Intergenerational malnutrition. In: D. Levitsky (ed.), *Malnutrition and Behavior: New Perspectives*. Ithaca, NY: Cornell University Press, pp. 279-280.

12. Galler, J.R., Fleischer, S., Turkewitz, G. and Manes, M. (1979) Varying deficits in visual discrimination performance associated with different forms of malnutrition in rats. *J. Nutr.* 110:231-240.
13. Galler, J.R., Neustein, S. and Walker, A. (1980) Clinical aspects for recurrent abdominal pain in children. *Adv. Pediatr.* 27:31-53.
14. Galler, J.R. (1980) Home-orienting behavior in rat pups surviving postnatal or intergenerational malnutrition. *Dev. Psychobiol.* 13:563-572.
15. Galler, J.R. and Manes, M. (1980) Gender differences in visual discrimination by rats in response to malnutrition of varying durations. *Dev. Psychobiol.* 13:409-416.
16. Zartarian, G., Galler, J.R. and Munro, H.M. (1980) Marginal protein deficiency in pregnant rats. I) Changes in maternal body composition. *J. Nutr.* 110:1291-1297.
17. Galler, J.R., Zartarian, G., Neel, L. and Munro, H.M. (1980) Marginal protein deficiency in pregnant rats. II) Impaired behavior during pregnancy. *J. Nutr.* 110:1298-1302.
18. Galler, J.R. (1980) Comment: Priority and reliability of Codo and Carlini's procedure. *Dev. Psychobiol.* 13(4):435-436.
19. Galler, J.R. (1981) Visual discrimination in rats: The effects of rehabilitation following intergenerational malnutrition. *Dev. Psychobiol.* 14:229-236.
20. Galler, J.R. and Zartarian, G. (1981) Reproductive performance in rats with different histories of malnutrition. *Brit. J. Nutr.* 45:251-255.
21. Galler, J.R. and Propert, K. (1981) Maternal behavior following rehabilitation of rats with intergenerational malnutrition. I) Persistent changes in lactation-related behaviors. *J. Nutr.* 111:1330-1336.
22. Galler, J.R. and Propert, K. (1981) Maternal behavior following rehabilitation of rats with intergenerational malnutrition. II) Contribution of mothers and pups to deficits in lactation-related behaviors. *J. Nutr.* 111:1337-1342.
23. Galler, J.R. and Seelig, C. (1981) Home-orienting behavior in rat pups: The effect of 2 and 3 generations of rehabilitation following intergenerational malnutrition. *Dev. Psychobiol.* 14:541-548.
24. Galler, J.R. and Propert, K.J. (1981) The effect of protein deficiency on weight gain and body composition in the developing rat. *Nutr. Rep. Int.* 24:885-892.
25. Galler, J.R. and Propert, K.J. (1982) Early maternal behaviors predictive of the survival of suckling rats with intergenerational malnutrition. *J. Nutr.* 112(2):332-336.
26. Galler, J.R. (1982) Developmental and long-term consequences of early malnutrition on behavior. In: A.J. Moss (ed.) *Pediatrics Up-Date*. New York, NY: Elsevier Biomedical. pp. 115-131.
27. Galler, J.R., Ramsey, F., Solimano, G., Lowell, W.E. and Mason, E. (1983) The influence of early malnutrition on subsequent behavioral development. I) Degree of impairment in intellectual performance. *J. Amer. Acad. Child Psychiat.* 22:8-15.
28. Galler, J.R., Ramsey, F., Solimano, G. and Lowell, W.E. (1983) The influence of early malnutrition on subsequent behavioral development. II) Classroom behavior. *J. Amer. Acad. Child Psychiat.* 22:16-22.
29. Galler, J.R., Ramsey, F., Solimano, G. and Propert, K.J. (1983) Sex differences in the growth of Barbadian school children with early malnutrition. *Nutr. Rep. Int.* 27:503-517.
30. Galler, J.R. (1983) Chronic and recurrent abdominal pain. In: J. Walker-Smith, R. Hamilton, and A. Walker (eds.), *Practical Pediatric Gastroenterology*. London: Butterworth and Company, pp. 30-42.
31. Galler, J.R. (1983) Algunas reflexiones en torno al tema "intervenciones terapeuticas." In: *Lecturas de Psicología y Política*. Santiago de Chile: Colectivo Chileno de Trabajo Psicosocial, pp. 89-92
32. Galler, J.R. (1984) Introduction: The challenge of nutrition and environment as determinants of behavioral development. In: J.R. Galler (ed.), *Nutrition and Behavior*. New York, NY: Plenum Press, pp. 1-5.
33. Galler, J.R. (1984) Behavioral consequences of malnutrition in early life, In: J.R. Galler (ed.), *Nutrition and Behavior*. New York, NY: Plenum Press, pp. 63-117.
34. Galler, J.R., Ricciuti, H.N., Crawford, M.A. and Kucharski, L.T. (1984) The role of the mother-infant interaction in nutritional disorders. In: J.R. Galler (ed.), *Nutrition and Behavior*. New York, NY: Plenum Press, pp. 269-304.
35. Galler, J.R., Ramsey, F. and Solimano, G. (1984) The influence of early malnutrition on subsequent behavioral development. III) Learning disabilities as a sequel to malnutrition. *Ped. Res.* 18:309-313
36. Galler, J.R., Ramsey, F., Solimano, G., Kucharski, T. and Harrison, R. (1984) The influence of early malnutrition on subsequent behavioral development. IV) Soft neurologic signs. *Ped. Res.* 18:826-832.

37. Galler, J.R., Ramsey, F. and Solimano, G. (1985) Influence of early malnutrition on subsequent behavioral development. V) Child's behavior at home. *J. Amer. Acad. Child Psychiat.* 24:58-64.
38. Galler, J.R. and Ramsey, F. (1985) The influence of early malnutrition on subsequent behavioral development. VI) The role of the microenvironment of the household. *Nutr. Behav.* 2:161-173.
39. Galler, J.R. (1985) Book Review: Malnutrition and Behavior: Critical Assessment of Key Issues. *Contemporary Psych.* 30:791-2.
40. Galler, J.R., Ramsey F. and Solimano, G. (1985) A follow-up study of the effects of early malnutrition on subsequent development. I) Physical growth and sexual maturation during adolescence. *Ped. Res.* 19:518-523.
41. Galler, J.R., Ramsey, F. and Solimano, G. (1985) A follow-up study of the effects of early malnutrition on subsequent development. II) Fine motor skills in adolescence. *Ped. Res.* 19:524-527.
42. Galler, J.R., Ramsey, F. and Forde, V. (1986) A follow-up study of the influence of early malnutrition on subsequent development. IV) Intellectual performance in adolescence. *Nutr. Behav.* 3:211-222.
43. Galler, J.R., (1986) Malnutrition - a neglected cause of learning failure. *Postgrad. Med.* 80(5):225-230.
44. Galler, J.R. and Ramsey, F. (1987) A follow-up study of the influence of early malnutrition on development. V) Delayed development of conservation (Piaget). *J. Amer. Acad. Child Adol. Psychiat.* 26:23-27.
45. Galler, J.R. (1987) The interaction of nutrition and environment in behavioral development. In: J. Dobbing (ed.), *Early Nutrition and Later Achievement*. New York, NY: Academic Press, pp. 175-207.
46. Galler, J.R., Ramsey, F., Salt, P., and Archer, E. (1987) Long-term effects of early kwashiorkor compared with marasmus. I) Physical growth and sexual maturation. *J. Ped. Gastro. Nutr.* 6:841-846.
47. Galler, J.R., Ramsey, F., Forde, V., Salt, P. and Archer, E. (1987) Long-term effects of early kwashiorkor compared with marasmus. II) Intellectual performance. *J. Ped. Gastro. Nutr.* 6:847-854
48. Galler, J.R., Ramsey, F., Salt, P. and Archer, E. (1987) Long-term effects of early kwashiorkor compared with marasmus. III) Fine motor skills. *J. Ped. Gastro. Nutr.* 6: 855-859.
49. Galler, J.R. (1987) Examining the long-term consequences of undernutrition. *Ped. Basics.* 47:2-4.
50. Galler, J.R. and Kanis, K. (1987) Animal models of malnutrition applied to brain research. In: D. Rassin, B. Haber and B. Drujan (eds.), *Basic and Clinical Aspects of Nutrition and Brain Development*. New York: Alan R. Liss, pp. 57-73.
51. Salt, P., Galler, J.R. and Ramsey, F. (1988) The influence of early malnutrition on subsequent behavioral development. VII) The effects of maternal depressive symptoms. *Dev. Beh. Ped.* 9(1):1-5.
52. Galler, J.R. (1988) Intergenerational effects of undernutrition. In: *Understanding Mental Retardation: Research Accomplishments and New Frontiers*. Baltimore, MD: Paul H. Brooks Publishing Company, pp. 35-40.
53. Galler, J.R. and Ramsey, F. (1989) A follow-up study of the influence of early malnutrition on development: Behavior at home and at school. *J. Amer. Acad. Child Adol. Psychiat.* 28(2):254-261.
54. Galler, J.R., Ramsey, F., Morley, D.S., Archer, E. and Salt, P. (1990) The long-term effects of early kwashiorkor compared with marasmus. IV) Performance on the national high school entrance examination. *Ped. Res.* 28:235-239.
55. Tonkiss J., Galler, J.R., Formica, R.N., Shukitt-Hale, B. and Timm, R.R. (1990) Fetal protein malnutrition impairs acquisition of a DRL task in adult rats. *Physiol. Beh.* 48:73-77.
56. Tonkiss, J., Shukitt-Hale, B., Formica, R.N., Rocco, F.J. and Galler, J.R. (1990) Prenatal protein malnutrition alters response to reward in adult rats. *Physiol. Beh.* 48:675-680.
57. Tonkiss J. and Galler, J.R. (1990) Prenatal protein malnutrition and working memory performance in adult rats. *Beh. Brain Res.* 40:95-107.
58. Bronzino, J.D., Austin-LaFrance, R.J., Morgane, P.J. and Galler, J.R. (1991) Effects of prenatal protein malnutrition on kindling-induced alterations in dentate granule cell excitability. I) Synaptic transmission measures. *Exper. Neurol.* 112: 206-215.
59. Bronzino, J.D., Austin-LaFrance, R.J., Morgane, P.J. and Galler, J.R. (1991) Effects of prenatal protein malnutrition on kindling-induced alterations in dentate granule cell excitability. II) Paired-pulse measures. *Exper. Neurol.* 112:216-223.
60. Galler, J.R. and Tonkiss, J. (1991) Prenatal protein malnutrition and maternal behavior in Sprague-Dawley rats. *J. Nutr.* 121:762-769.
61. Tonkiss, J., Galler, J.R., Shukitt-Hale, B. and Rocco, F.J. (1991) Prenatal protein malnutrition impairs visual discrimination learning in adult rats. *Psychobiol.* 19(3):247-250.

62. Tonkiss, J., Foster, G.A. and Galler, J.R. (1991) Prenatal protein malnutrition and hippocampal function: Partial reinforcement extinction effect. *Brain Res. Bull.* 27:809-813.
63. Austin, K.B, Beiswanger, C., Bronzino, J.D., Austin-LaFrance, R.J., Galler, J.R. and Morgane, P.J. (1992) Prenatal protein malnutrition alters behavioral state modulation of inhibition and facilitation in the dentate gyrus. *Brain Res. Bull.* 28:245-255.
64. Morgane, P.J., Austin-LaFrance, R.J., Bronzino, J.D., Tonkiss, J. and Galler, J.R. (1992) Malnutrition and the developing central nervous system. In: R. Isaacson and K. Jensen (eds.), *The Vulnerable Brain and Environmental Risks. Vol. 1. Malnutrition and Hazard Assessment.* New York: Plenum Press. pp.3-44.
65. Chen, J-C., Tonkiss, J., Galler, J.R. and Volicer, L. (1992) Prenatal protein malnutrition in rats enhances serotonin release from hippocampus. *J.Nutr.* 122:2138-2143
66. Tonkiss, J., Shultz, P. and Galler, J.R. (1992) Long-Evans and Sprague-Dawley rats differ in their spatial navigation performance during ontogeny and at maturity. *Develop. Psychobiol.* 25(8):567-579.
67. Tonkiss, J., Galler, J.R., Morgane, P.J., Bronzino, J.D. and Austin-LaFrance, R.J. (1993) Prenatal protein malnutrition and postnatal brain function. *Ann. N.Y. Acad.Sci.* 678:215-228
68. Galler, J.R. and Ross, R. (1993) Malnutrition and mental development. In: R. Suskind and Leslie Lewinter-Suskind (eds), *Textbook of Pediatric Nutrition.* New York, NY: Raven Press. pp. 173-179
69. Morgane, P.J., Austin-LaFrance, R., Bronzino, J., Tonkiss, J., Diaz-Cintra, S., Cintra, L., Kemper, T. and Galler, J.R. (1993) Prenatal malnutrition and development of the brain. *Neurosci. & Biobehav. Rev.* 17:91-128.
70. Tonkiss, J. and Galler, J.R. (1993) Prenatal protein malnutrition: Effects on hippocampally-mediated behaviors. *Ciencia e Cultura (J. of the Brazilian Assoc for the Advancement of Sci.)* 45:410-412.
71. Tonkiss, J., Shultz, P. and Galler, J.R. (1994) An analysis of spatial navigation in prenatally protein malnourished rats. *Physiol. Beh.* 55:217-224.
72. Galler, J.R., Tonkiss, J. and Maldonado-Irizarry, C.S. (1994) Prenatal protein malnutrition and home orientation in the rat. *Physiol. Beh.* 55:993-996.
73. Blatt, G.J., Chen, J.-C., Rosene, D.L., Volicer, L. and Galler, J.R. (1994) Prenatal protein malnutrition effects on the serotonergic system in the hippocampal formation: An immunocytochemical, ligand binding, and neurochemical study. *Brain Res. Bull.* 34(5):507-18.
74. Bronzino, J.D., LaFrance, R.J.A., Morgane, P.J., Galler, J.R., Pizzuti, G., Santoro, T. and de Franciscis, P. (1994) The impact of gestational protein malnutrition on hippocampal long-term potentiation. *Società Italiana di Biologia Sperimentale LXIII Assamlea Generale, Abstract Book.* pp. 5-22.
75. DeBassio, W.A., Kemper, T.L., Galler, J.R. and Tonkiss, J. (1994) Prenatal malnutrition effect on pyramidal and granule cell generation in the hippocampal formation. *Brain Res. Bull.* 35:57-61.
76. Tonkiss, J., Shultz, P.L., Shumsky, J.S., Blease, S., Kemper, T. and Galler, J.R. (1995) The effects of cocaine exposure prior to and during pregnancy in rats fed low or adequate protein diets. *Neurotoxicol. Teratol.* 17:593-600.
77. Tonkiss, J., Shumsky, J.S., Shultz, P.L., Almeida, S.S. and Galler, J.R. (1995) Prenatal cocaine but not prenatal malnutrition affects foster mother-pup interactions in rats. *Neurotoxicol. Teratol.* 17:601-608.
78. Shultz, P.L., Tonkiss, J., Morgane, P.J., Bronzino, J.D. and Galler, J.R. (1995) Effects of an every other day rapid kindling procedure in prenatally protein malnourished rats. *Brain Res.* 682:35-40.
79. Chen, J., Turiak, G., Galler, J. and Volicer, L. (1995) Effect of prenatal malnutrition on release of monoamines from hippocampal slices. *Life Sci.* 57(16):1467-1475.
80. Bronzino, J.D., Austin-LaFrance, R.J., Morgane, P.J. and Galler, J.R. (1996) Diet-induced alterations in the ontogeny of long-term potentiation. *Hippocampus* 6:109-117
81. Tonkiss, J. Harrison, R.H. and Galler, J.R. (1996) Differential effects of prenatal protein malnutrition and prenatal cocaine on a test of homing behavior in rat pups. *Physiol. Behav.* 60(3):1013-1018.
82. Almeida, S.S., Tonkiss, J. and Galler, J.R. (1996a) Prenatal protein malnutrition affects avoidance but not escape behavior in the elevated T-maze test. *Physiol. Behav.* 60:191-195.
83. Almeida, S.S., Tonkiss, J. and Galler, J.R. (1996b) Prenatal protein malnutrition affects exploratory behavior of female rats in the elevated plus-maze test. *Physiol. Behav.* 60:675-680.
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