

CURRICULUM VITAE (short form)
Oct 2018

ALISON S. FLEMING, Ph.D., F.R.S.C.,
Canada Research Chair in Neurobiology (2005-2012)

BIOGRAPHICAL INFORMATION

Personal

Office: Room 4098, Deerfield Hall
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Degrees

B.Sc. 1968, Columbia University, School of General Studies, New York, N.Y.
Ph.D. 1972, Institute of Animal Behavior, Rutgers University, Newark, New Jersey
Title of graduate thesis: Olfactory and experiential factors underlying maternal behavior in the Lactating and cycling female rat.
Thesis supervisor: **Jay S. Rosenblatt**
PDF 1972-1975 Department of Psychology, University of California, Berkeley, California
PDF supervisor: **Irving Zucker**

Employment

- Acting VP Research at UTM, 2008-2009
- Chair, Department of Psychology, UTM, 2003 -2006
- Full Professor of Psychology, 1985
- Appointed to graduate school: 1977
- Core member: Institute for Human Development, U of T

Professional Affiliations and Activities

- Chair, Department of Psychology, University of Toronto, Mississauga, Ontario 2003-2006
- Affiliate Scientist of the Wisconsin Regional Primate Research Center, 1998 -2009
- Director, Animal Component of Centre for Biological Communications, 2001 to present
- Co-Applicant with Michael Meaney on C.I.H.R Genes and Behavior Federal Training grant.
- Society for Behavioral Neuroendocrinology-elected secretary, 1999-2002
- Hormones and Behavior: Editorial board member, 2002-present
- Behavioral Neuroscience: Editorial board member, 2007-present
- Society for Neurosciences, member
- Regular reviewer of manuscripts for Behavioral Neuroscience, Behavioral Brain Research, Hormones and Behavior, Science, Behaviour, European J. Neuroscience, J. Neuroscience, and many other journals.

Research Endeavours (all have been funded)

Hormonal, neural, and sensory control of maternal behaviors and their development in the laboratory rat (Rattus norvegicus), marmoset monkey, and in humans
 Maternal bonding and postpartum depression in new mothers
 fMRI imaging of new mothers
 Genetics of mothering
 Hormones and paternal behavior in new fathers
 Maternal Stress and the H.P.A. axis
 Mothering among teenage mothers: a comparison between Canadian and African mothers
 Maternal Behavior and early experiences in teenage mothers.
 Attention and mothering
 Effects of mothering on neural plasticity and brain function in rats
 Mothering and brain imaging in humans
 Vitamin D and development (this has yet to be funded)

Recent Awards (10 years)

Excellence in Teaching Award, awarded at UTM	2003
Elected member: Fellow of the Royal Society of Canada	2004
D.G. Marquis Behavioral Neuroscience Award, APA award	2004
U of Toronto Faculty Research Excellence Award	2005
Canadian Research Chair in Behavioral Neurobiology	2005
University of Toronto Distinguished Professor Of Psychology	2012
Daniel S Lehrman Life-Time Achievement award (from SBN)	2013

Recent Research Awards (last 6-8 years)

Agency: **C.F.I.**

2006-2013 to set up an electrophysiology unit and pyrosequencing unit.

Agency: **Natural Sciences and Engineering Research Council of Canada (NSERC)**

2003-2008 “Plasticity in the Maternal Circuit”

2008-2013 Functional neuroanatomy of maternal behavior in rats

2015-2020 Differential Parenting and dopamine function: behavior, genetics and epigenetics

Agency: **Canadian Institutes of Health Research (CIHR)**

2002-2007 P.I. Individual Operating

“Mothering begets Mothering: development of the maternal brain and its plasticity in the rat”

2004-2009 C.I.H.R. P.I. “Maternal Depression in Depressed Mothers”

2003-2008 Group grant-coapplicant (Drs. Michael Meaney & Steve Matthews, P.I.s)

“Maternal Adversity, Vulnerability and Neurodevelopment”

2003-2007 C.I.H.R. Co-I: “Maternal Comfort, Analgesia, Regulation, and Endorphin-release: (Dr. Celeste Johnston, P.I.)

2009 C.I.H.R.: P.I. “Neural Correlates of Mothering in depressed Mothers: fMRI study”

2010-2012 Co-PI with Michael Meaney: “Genetics of Mothering”

2013-2016 P.I. Genetics of mothering

Agency: **Social Sciences and Humanities Research Council (SSHRC)**

2004-2007. P.I. Responsiveness to Infant Cues in Teen Mothers:

Endocrine, Autonomic, and Attentional Outcomes-

2008-2011. P.I. “ Teenage mothering and attention”

Agency: **Canadian Federal Government Infrastructure Grants (C.F.I.)**

2002 Co PI CFI: “Biological Communications Centre Infrastructure grant” (B. Schneider, P.I.)

Agency: **Ontario Mental Health Foundation (OMHF)**

2004 Awarded but turned down by me because of overlap

2011-2018 Imaging in depressed mothers

Agency: **Department of Health & Human Services, Public Health Service, N.I.M.H.**

1999-2003 Co-investigator on new grant (OR-1) on experience effects on maternal behavior in marmoset monkeys Wisconsin Primate Centre, P.I.s, Drs. David Abbott and Gary Kraemer)

2002 NARSAD – Co-Investigator

2003-2005 Co-PI with Crews & Seiko: OR21: Early rearing effects on the development of sexually dimorphic behavior and brain

University of Toronto, Connaught Global:

2011 Co-PI with Steven Lye et al. On Early adversity and developmental trajectories

SCHOLARLY AND PROFESSIONAL WORK

Refereed Publications (approx 185+chapters) Co-authors on most of these papers are graduate and undergraduate students. Often these studies grew out of theses or independent research projects. I generally supervise 5-10 undergraduate students per year, 2-5 graduate students, and 2-3 post-doctoral Fellows and Research Associates As well I am on 3-5 graduate student committees per year. Most undergraduate students I supervise have gone onto graduate school.

Articles

Fleming A.S., & Rosenblatt, J. (1974). Maternal behavior in the virgin and lactating rat. Journal of Comparative Physiological Psychology, 86, 957-972.

Fleming A.S., & Rosenblatt, J. (1974b). Olfactory regulation of maternal behavior in rats: I. Effects of olfactory bulb removal in experienced and inexperienced lactating and cycling females. Journal of Comparative Physiological Psychology, 86, 221-232.

Fleming A.S., & Rosenblatt, J.S. (1974). II. Effects of peripherally-induced anosmia and lesions of the lateral olfactory tract in pup-induced virgins. Journal of Comparative Physiological Psychology, 86, 233-246.

Fleming A.S. (1976). Control of food intake in the lactating rat: Role of suckling and hormones. Physiology and Behavior, 17, 841-848.

- Fleming A.S.** (1976). Ovarian influences on food intake and body weight regulation in lactating rats. Physiology and Behavior, 17, 969-978.
- Fleming A.S.** (1977). Effects of estrogen and prolactin on ovariectomy-induced hyperphagia and weight gain in female rats. Behavioral Biology, 19, 417-423.
- Noel, R., & **Fleming A.S.** (1977). Effects of prefattening on ovarian-induced hyperphagia and weight gain in female rats. Behavioral Biology, 19, 405-410.
- Morin, L., & **Fleming A.S.** (1978). Variation of food intake and body weight with the estrous cycle, ovariectomy and estradiol benzoate treatment in hamsters (Mesocricetus auratus). Journal of Comparative Physiological Psychology, 92, 1-6.
- Fleming A.S.** (1978). Food intake and body weight regulation during the reproductive cycle of the Golden hamster (Mesocricetus auratus). Behavioral Biolog., 24, 291-306.
- Fleming A.S.**, Vaccarino, F., Chee, P., & Tambosso, L. (1979). Vomeronasal and main olfactory system modulation of maternal behavior in the rat. Science, 203, 372-374.
- Fleming A.S.** (1979). Maternal nest defense in the Desert Woodrat, Neotoma lepida lepida. Behavioral Neurological Biology, 26, 41-63.
- Fleming A.S.**, & Tambosso, L. (1980). Hormonal and sensory control of scent marking in the Desert Woodrat (Neotoma lepida). Journal of Comparative Physiological Psychology, 94, 564-578.
- Fleming A.S.**, Vaccarino, F., & Leubke, C. (1980). Amygdaloid inhibition of maternal behavior in the nulliparous female rat. Physiology and Behavior, 25, 731-743.
- Fleming A.S.**, Orpen, G., & Luebke, C. (1980). Estradiol implants in the amygdala facilitate maternal behavior in the female rat. Sociological Neurosciences Abstracts, 6.
- Fleming A.S.**, Chee, P., & Vaccarino, F. (1981). Olfactory control of sexual behavior in the Desert Woodrat (Neotoma lepida). Animal Behavior, 29, 727-745.
- Fleming A.S.**, & Luebke, C. (1981). Timidity prevents the nulliparous female from being a good mother. Physiology and Behavior, 27, 863-868.
- Fleming A.S.**, & Miceli, M. (1983). Effects of diet on feeding and body weight regulation during pregnancy and lactation in the Golden hamster (Mesocricetus auratus). Behavioral Neurosciences, 97, 246-254.
- Miceli, M., & **Fleming A.S.** (1983). Variation of fat intake with estrous cycle, ovariectomy and estradiol replacement in hamsters (Mesocricetus auratus) eating a fractionated diet. Physiology and Behavior, 30, 415-420.
- Pliner, P., & **Fleming A.S.** (1983). Food intake, body weight, and sweetness preferences over the menstrual cycle in humans. Physiology and Behavior, 30, 663-666.

- Fleming A.S.**, Miceli, M., & Moretto, D. (1983). Lesions of the medial preoptic area prevent the facilitation of maternal behavior produced by amygdala lesions. Physiology and Behavior, 31, 503-510.
- Miceli, M., **Fleming A.S.**, & Malsbury, C. (1983). Disruption of maternal behavior in virgin postparturient rats following sagittal plane knife cuts in the preoptic area-hypothalamus. Behavioral Brain Research, 9, 337-360.
- Nelson, R., **Fleming A.S.**, Wysocki, S., & Zucker, I. (1985). Chemosensory and neural influences on photoperiodic responsiveness of laboratory rats. Neuroendocrinology, 40, 285-290.
- Moretto, D.L., Paclik, L., & **Fleming A.S.** (1986). The effects of early rearing environments on maternal behavior in adult female rats. Developmental Psychobiology, 19, 581-591.
- Fleming A.S.**, Scardicchio, D.S., & Scardicchio, L.G. (1986). Photoperiodic and pineal effects on food intake, food hoarding, and body weight in female Syrian hamsters. Journal of Biological Rhythms, 1, 285-301.
- Orpen, B.G., & Fleming, A. (1987). Experience with pups sustains maternal responding in postpartum rats. Physiology and Behavior, 40, 47-54.
- Orpen, B.G., Furman, N., Wong, P., & Fleming, A. (1987). Hormonal influences on the duration of postpartum maternal responsiveness in the rat. Physiology and Behavior, 40, 307-315.
- Fleming A.S.**, & Anderson, V. (1987). Affect and nurturance: Mechanisms mediating maternal behavior in two female mammals. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 11, 121-127.
- Cohen, I.T., Sherwin, B.B., & **Fleming A.S.** (1987). Food cravings, mood, and the menstrual cycle. Hormones and Behavior, 21, 457-470.
- White, N.R., & **Fleming A.S.** (1987). Auditory regulation of woodrat (Neotoma lepida) sexual behavior. Animal Behavior, 35, 1281-1297.
- Fleming A.S.**, Steiner, M., & Anderson, V. (1987). Hormonal and Attitudinal correlates of maternal behavior during the early postpartum period. Journal of Reproduction and Infant Psychology, 5, 193-205.
- Fleming A.S.**, Ruble, D.N., Anderson, V., & Flett, G.L. (1988). Place of childbirth influences feelings of satisfaction and control in first-time mothers. Journal of Psychosomatic Obstetrics and Gynecology, 8, 1-17.
- Fleming A.S.**, Ruble, D.N., Flett, G.L., & Shaul, D. (1988). Postpartum adjustment in first-time mothers: Relations between mood, maternal attitudes and mother-infant interactions. Developmental Psychology, 24, 77-81.
- Fleming A.S.**, & Corter, C. (1988). Factors influencing maternal responsiveness in humans: Usefulness of an animal model. Psychoneuroendocrinology, 13, 189-212.

- Fleming A.S.**, Phillips, A., Rydall, A. & Levesque, L. (1988). Effects of Photoperiod, the Pineal Gland and the Gonads on Agnostic Behaviour in Female Golden Hamsters (*Mesocricetus auratus*). Physiology and Behavior, 44, 227-234.
- Ruble, D., **Fleming A.S.**, Hackel, L., & Stangor, C. (1988). Changes in the Marital relationship during the transition to first-time motherhood: Effects of violated expectations concerning division of household labor. Journal of Personality and Social Psychology, 55, 78-87.
- Deutsch, F., Ruble, D., **Fleming A.S.**, Brooks-Gunn, J., & Stangor, C. (1988). Becoming a mother: Information-seeking and self-definitional processes. Journal of Personality & Social Psychology, 55, 420-431.
- Fleming A.S.**, & Cheung, U.S. (1988). Effect of cycloheximide on maternal experience effects in postpartum female rats. Neurosciences Abstract, 41.15, Toronto, Ontario.
- Orpen, G., Sarker, J., & **Fleming A.S.** (1988). Effects of acute or prolonged prolactin on long-term maternal behavior in virgin rats. Neurosciences Abstract, 41.16, Toronto, Ontario.
- Fleming A.S.**, Cheung, U., Myhal, N., & Kessler, Z. (1989). Effects of maternal hormones on 'timidity' and attraction to pup-related odors in female rats. Physiology and Behavior, 46, (449-453).
- Furedy, J.J., **Fleming A.S.**, Ruble, D., Scher, H., Daly, J., Day, D., & Loewen, R. (1989). Sex differences in small-magnitude heart-rate responses to sexual and infant-related stimuli: A psychophysiological approach. Physiology and Behavior, 46, 903-905.
- Fleming A.S.**, Cheung, U.S., & Barry, M. (1990). Cycloheximide blocks maternal experience effects in postpartum rats. Behavioral and Neural Biology, 53, 64-73.
- Fleming A.S.**, Ruble, D.N., Flett, G.L., & Van Wagner, V. (1990). Postpartum adjustment in first-time mothers: Changes in mood and mood content during the early postpartum months. Developmental Psychology, 26, 137-143.
- Ruble, D.N., Brooks-Gunn, J., **Fleming A.S.**, Fitzmaurice, G., Stangor, C., & Deutsch, F. (1990) Transition to Motherhood and the Self: Measurement, Stability and Change. Journal of Personality and Social Psychology, 58, 450-463.
- Fleming A.S.**, & Sarker, J. (1990). Experience-Hormone Interactions and Maternal Behavior in Rats. Physiology and Behavior, 47, 1165-1173.
- Myhal, N. & **Fleming A.S.** (1990). MK-801 effects of a learned food preference depends on dosage: Is it disruption of learning or a conditioned aversion? Psychobiology, 4, 428-434.
- Honrado, G.I., Bird, M., & **Fleming A.S.** (1991). The effects of short day exposure on seasonal and circadian reproductive rhythms in male golden hamsters. Physiology and Behavior, 49, 277-287.
- Malenfant, S.A. Barry, M. & **Fleming A.S.** (1991). Effects of cycloheximide on the retention of olfactory learning and maternal experience effects in postpartum rats. Physiology and Behavior, 49, 289-294.

- Malenfant, S.A., O'Hearn, S. & Fleming, A.S. (1991). MK801, an NMDA antagonist, blocks acquisition of a spatial task but does not block maternal experience effects. Physiology and Behavior, 49, 1129-1137.
- Fleming A.S.** & Kucera, C. (1991). Sexual experience effects are blocked by the protein-synthesis inhibitor, cycloheximide, but not by the NMDA antagonist, MK-801. Behavioral Neuroscience 56. 319-329.
- Honrado, G.I., Paclik, L. & **Fleming A.S.** (1991). The effects of short day exposure on seasonal and circadian reproductive rhythms in female golden hamsters. Physiology and Behavior, 50, 357-363.
- Fleming A.S.** & Klein, E. & Corter, C. (1992). Effects of a social support group on depression attitudes and behavior in new mothers. Journal of Child Psychology and Psychiatry, 33, 685-698.
- Fleming A.S.**, Garvath, K., & Sarker, J. (1992). Effects of Transections to the Vomeronasal Nerves or to the Main Olfactory Bulbs on the Initiation and Long-Term Retention of Maternal Behavior in Primiparous Rats. Behavioral and Neural Biology, 57, 177-188.
- Morgan, H., **Fleming A.S.** & Stern, J. (1992). Somatosensory control of the onset and retention of maternal responsiveness in primiparous Sprague-Dawley rats. Physiology & Behavior, 51, 549-555.
- Fleming A.S.**, Corter, C., Franks, P., Surbey, M., Schneider B., & Steiner, M. (1993). Postpartum factors related to mother's attraction to newborn infant odors. Developmental Psychobiology, 26, 115-132.
- Moffat, S.D., Suh, E.J. and **Fleming A.S.** (1993). Noradrenergic involvement in the consolidation of maternal experience in postpartum rats. Physiology and Behavior, 53, 805-811.
- Fleming A.S.**, Suh, E.J., Korsmit, M. & Rusak, B. (1994). Activation of Fos-like immunoreactivity in MPOA and limbic structures by maternal and social interactions in rats. Behavioral Neuroscience, 108(4), 724-734.
- Fleming A.S.**, Kuchera, C., Lee, A. & Winocur, G. (1994). Olfactory-based social learning varies as a function of parity in female rats. Psychobiology, 22, 37-43.
- Fleming A.S.**, Korsmit, M. & Deller, M. (1994). Rat pups are potent reinforcers to the maternal animal: Effects of experience, parity, hormones and dopamine function. Psychobiology, 22, 44-53.
- Fleming A.S.** & Walsh, C. (1994). Neuropsychology of Maternal Behavior in the Rat: C-fos Expression During Mother-Litter Interactions. Psychoneuroendocrinology, 19(5-7), 429-443.
- Anderson, V, **Fleming A.S.** & Steiner, M. (1994). Mood and the transition to Motherhood. Journal of Reproduction and Infant Psychology, 12, 69-77.
- Magnusson, J. & **Fleming, A.S.** (1995). Rat Pups are Reinforcing to the Maternal Rat: Role of Sensory Cues. Psychobiology, 23(1), 69-75.

- Fleming A.S.**, Corter, C., Surbey, M., Franks, P. & Steiner, M. (1995). Postpartum factors related to mother's recognition of newborn infant odors. Journal of Reproductive and Infant Psychology, 13, 197-210.
- Walsh, C., **Fleming A.S.**, Lee, A. & Magnusson, J. (1996). The Effects of Olfactory and Somatosensory Desensitization on Fos-Like Immunoreactivity in the Brains of Pup-Exposed Postpartum Rats. Behavioral Neuroscience, 110(1), 1-20.
- Fleming A.S.**, Morgan, H.D., & Walsh, C. (1996). Experiential Factors in Postpartum Regulation of Maternal Care. Advances in the Study of Behavior, 25, pp. 295-332.
- Honrado, G.I. & **Fleming A.S.** (1996). Chemical and Behavioral Stimulation from Females Accelerate Recrudescence in Male Syrian Hamsters Exposed to Short Days. Journal of Biological Rhythms, 11(2), 103-112.
- Fleming A.S.** & Korsmit, M. (1996). Plasticity in the maternal circuit: Effects of maternal experience on Fos-lir in hypothalamic, limbic and cortical structures in the postpartum rat. Behavioral Neuroscience, 110(3), 567-582.
- Fleming A.S.**, Ruble, D., Krieger, H. & Wong, P.Y. (1997). Hormonal and Experiential Correlates of Maternal Responsiveness during the Pregnancy and the Puerperium in Human Mothers. Hormones and Behavior, 31, 145-158.
- Fleming A.S.**, Steiner, M. & Corter, C. (1997). Cortisol, Hedonics, and Maternal Responsiveness in Human Mothers. Hormones and Behavior, 32, 85-98.
- Fleming A.S.**, O'Day, D. and Kraemer, G. (1999) Neurobiology of Mother-infant Interactions: Experience and central nervous system plasticity across development. Neuroscience and Biobehavioral Reviews, 23(5), 673-685.
- Morgan, H.D., Watchus, J.A., Milgram, N. & **Fleming A.S.** (1999). The Long Lasting Effects of Electrical Stimulation of the Medial Preoptic Area and the Medial Amygdala on Maternal Behavior in Female Rats. Behavioral Brain Research, 99, 61-73.
- Lee, A., Clancy, S. & **Fleming A.S.** (1999). Mother Rats Bar-press for Pups: Effects of lesions of the mpoa and limbic sites on maternal behavior and operant responding for pup-reinforcement Behavioral Brain Research, 100/1-2, 15-31.
- Lee, A., Li, M., Watchus, J. & **Fleming A.S.** (1999). Neuroanatomical Basis of Maternal Memory in Postpartum Rats: Selective Role for the Nucleus Accumbens. Behavioral Neuroscience, 113, 523-538.
- Featherstone, R.E., **Fleming A.S.** & Ivy, G.O. (2000). Plasticity in the maternal circuit: Effects of experience and partum condition on brain astrocyte number in female rats. Behavioral Neuroscience, 114(1), 1-15.
- Oxley, G. & **Fleming A.S.** (2000). The Effects of the Medial Preoptic Area and Amygdala Lesions on Maternal Behavior in the Juvenile Rat. Developmental Psychobiology, 37, 253-265.

- Gonzalez, A., Lovic, V., Ward, G.R., Wainwright, P.E. and **Fleming A.S.** (2001). Intergenerational Effects of Complete Maternal Deprivation and Replacement Stimulation on Maternal Behavior and Emotionality in Female Rats. Developmental Psychobiology, 38, 11-32.
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- O'Day D. H. , Lori-Ann Payne, Irene Drmic, **Alison A.S.** Fleming,(2001) Loss of Calcineurin from the Medial Preoptic Area of Primiparous Rats. Biochemical and Biophysical Research Communications 281 (4): 1037-1040.
- O'Day, D.H., Lydan, M., Watchus, J. & **Fleming A.S.** (2001). Decreases in Calmodulin Binding Proteins and Calmodulin Dependent Protein Phosphorylation in the Medial Preoptic Area at the Onset of Maternal Behavior in the Rat. Journal of Neuroscience Research, 64, 599-605.
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- Lovic, V., Gonzalez, A. & **Fleming A.S.** (2001). Maternally Separated Rats Show Deficits in Maternal Care in Adulthood. Developmental Psychobiology, 39, 9-33.
- Fleming A.S.**, Kraemer, G.W., Gonzalez, A., Lovic, V., Rees, S. and Melo, A. (2002). Mothering Begets mothering: The transmission of behavior and its neurobiology across generations. Pharmacology, Biochemistry and Behavior, 73, 61-75.
- Fleming A.S.**, Corter, C., Stallings, J., & Steiner, M. (2002). Testosterone and Prolactin are Associated with Emotional Responses to Infant Cries in New Fathers. Hormones & Behavior, 42(4), 399-413.
- Shah, A., Oxley, G., Lovic, V. & **Fleming A.S.** (2002) Effects of preweaning exposure to novel maternal odors on maternal responsiveness and selectivity in adulthood. Developmental Psychobiology, 41(3), 187-196.
- Gonzalez, A. & **Fleming A.S.** (2002). Artificial rearing cause changes in maternal behavior and c-fos expression in juvenile female rats. Behavioral Neurosciences, 116(6), 999-1013.
- Li, M. & **Fleming A.S.** (2003). Differential involvement of nucleus accumbens shell and core subregions in maternal memory in postpartum female Behavioral Neuroscience, 117, 3, 426-445.
- Li, M. & **Fleming A.S.** (2003). The nucleus accumbens shell is critical for normal expression of pup-retrieval in postpartum female rats. Behavioral Brain Research, 145, 99-111.
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INVITED TALKS, COLLOQUIA and PANELS (2001-2013)

- 2001 Psychobiology of Maternal Behavior, Centro de Neurobiologia, UNAM, Queretaro, MX.
- 2001 Colloquium, Psychology, University of Toronto
- 2001 Invited speaker at Neuroscience Day, University of Massachusetts, Amherst, Mass.
- 2001 Organizer and speaker at Workshop on Biology of Mothering, Animal Communications Centre and UTM, University of Toronto.
- 2002 Invited speaker at CIHR workshop on Programming of Neuroendocrine Function, University of Toronto, Neuroscience Network.
- 2002 Invited speaker to Neuroscience day, Centre for Neuroscience, Emory University, Atlanta, Ga.(April 20)
- 2002 Invited Colloquium speaker, Psychology, Boston College, Boston, Mass. (Mar 22)
- 2002 Invited Speaker: Conference: Effects of Early Life Events on Mind Brain Body Interactions, Sedona, Arizona. (April 7-11)
- 2002 Invited Keynote Address: International Society for Infant Studies: Toronto. (April 19)
- 2002 Invited Speaker: INRA, Nouzilly, France (October)
- 2002 Invited Colloquium Speaker: University of Oklahoma, Nor (April 2003)
- 2003 Invited Colloquium Speaker: University of Texas, Austin (April 2003)
- 2003 Invited Speaker: Mother – Infant Conference, Montreal (June 2003)
- 2003 Invited Keynote Address: APA, Toronto (August 2003)
- 2003 Invited participant: Dahlem Conference, Berlin (October 2003)

- 2003 Miriam Roland Biennial invited address to inaugurate new Neuroscience facility, CBNS, Concordia University (October 2003)
- 2004 Family Systems, Theory & Therapy: 21st Midwest Symposium, Evanston, Illinois (April)
- 2004 Invited Speaker, Biology of Mothering, UTM, Biology Series.
- 2005 invited presentation to working session of CIAR (developmental Neurobiology), Toronto
- 2005 Invited presentation to Family Systems, Theory and Therapy, Washington, D.C. (April)
- 2005 Invited Speaker, Ebbinghaus Empire, Psychology, University of Toronto. (April)
- 2005 Keynote Speaker, Society for Behavioral Neuroendocrinology, Austin Texas. (June)
- 2005 Invited Speaker, XLVIII Congreso Nacional de Ciencias Fisiologicas, Guadalajara, Mexico (September).
- 2005 Invited Speaker, University of Houston, Texas (October).
- 2005 Invited Speaker, ISDP, Washington, DC (November).
- 2006 Invited Speaker: Neurosciences and Women's Studies, Amherst, Mass (September)
- 2006 Invited Speaker: Neurosciences, Georgia State (May)
- 2006 Bowen Center Conference, Washington, DC (April)
- 2006 Invited Speaker, Psychology and Zoology, Madison, Wisconsin (March)
- 2006 Invited Speaker, Gordon conference, Genes & Behavior, Ventura, CA (February).
- 2006 Colloquium Speaker, Wake Forest University, Winston-Salem, NC (February)
- 2006 Invited Speaker, University of North Carolina, Greensboro (December)
- 2007 Colloquium Speaker, Department of Psychology, McMaster University, Hamilton, Ontario (Feb)
- 2007 Invited Speaker : Pediatric Therapy Network:R2K Conference, Laguna Beach, California(feb)
- 2007 On sabbatical, so turned down invitations to give colloquia, etc.
- 2007 Invited speaker, FRSC series, U of T, Scarborough
- 2007 Invited speaker, Parental Brain Conference, Boston, june
- 2008 Colloquium speaker. Carlton University, Institute of Neuroscience
- 2008 keynote speaker at Psychfest, University of British Columbia, Psychology and Neuroscience
- 2008 Invited speaker CCNP, Toronto (June,2008)
- 2008 Invited speaker 21st ECNP Congress, 30 August - 3 September 2008, Barcelona, Spain
- 2008 Invited speaker-American Psychological Society: Brain, Body, & behavior; Chicago (May 2008)
- 2008 invited speaker-Guelph University, Psychology and Neuroscience
- 2009 keynote address: Royal Canadian Society for the Advancement of Science, Jan, 2009
- 2009 International Ethology Conference, Rennes, France, Aug 2009, Invited Speaker
- 2009 Jewish General Hospital, Dept of Psychology, Montreal, Oct 2009, Invited Speaker
- 2009 CIHR Team in Perinatal Mental Health, Meeting, Montreal, Oct 2009
- 2010 Psychobiology of Maternal Behavior: Magic Bullets, Biology Department, UTM
- 2010 Psychobiology of Maternal Behavior: Magic Bullets, Johns Hopkins University
- 2011 Cinestav, UNAM, Mexico. Dopamine regulation of mothering,
- 2010 Penn State 9ADD INFO
- 2011 SRCF, 2 invited talks ADD INFP
- 2011 Juriquilla, Mexico. Society for Neuroendocrinology, Mothering Workshop: Dopamine and Mothering22
- 2011 University of Chicago Medical School, Rounds: Psychobiology of mothering
- 2011 Invited speaker: Atkinson Center: OISE. Psychobiology of Mothering : Dopamine and mothering
- 2011 Montevideo University: Uruguay. Dopamine and mothering
- 2011 Montevideo University: Psychobiology and Early adversity and mothering
- 2012 University of Toronto, Dept of Physiology, PSL Steve Lye. invited speaker

- 2012 Bowen Center: of Family therapy: Washington DC., Mothering: Psychoneuroendocrine mechanisms
- 2012 Keynote speaker. University of California. Davis. Psychology Day. Psychobiology of parenting in rat and human mothers
- 2012 Keynote speaker: Early experience and mothering, FALAN conference, Cancun, Mexico
- 2012 Speaker/Panelist at Royal Society of Canada, Maternal Neuroanatomy,
- 2012 Colloquium speaker, University of Ottawa
- 2013 Global Bridges Mentor program participant and Invited Speaker, Karolinska Institute, Stockholm, Sweden
- 2013 Colloquium: Department of Psychology, University of Nebraska
- 2013 Colloquium: Department of Psychology, Smith College
- 2013 Colloquium: State University of New York: Binghamton
- 2013 Parental Brain Conference: keynote speaker, Regensburg
- 2014 Colloquium: Department of Psychology, Knoxville, U of Tennessee
- 2014 Speaker, Bowen Conference: Washington DC
- 2015 Speaker, University of Guadalajara
- 2015 Presentation: Karolinska Institute, Conference on Parental Brain
- 2015 Presentation: Mexican Neuroscience Institute
- 2015 Invited speaker: Psychology, University of Indiana, Bloomington, Ind.
- 2016 Colloquium at Psychology, University of Calgary
- 2017 Science speaker at SMA Science and technology group
- 2018 Science speaker at SMA Science and technology group
- 2018 Invited speaker: The World impacts the Body, Florence Italy