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Education:

1969-1973 B.A. Mills College, Oakland, California
Major: Psychology
1973-1974 University of Michigan, Ann Arbor, Michigan
Ph.D. Program: Developmental Psychology
1974-1978 Ph.D., Stanford University, Stanford, California
Developmental Psychology
1978-1979 Postdoctoral Fellow, Laboratory of Developmental
Psychobiology, Stanford University Medical School

Employment:

1977-1978 Research Assistant, Stanford Department of Psychology
1978-1979 Postdoctoral Fellow, Stanford School of Medicine
1979-1984 Assistant Professor, Institute of Child Development,
University of Minnesota
1984-1990 Associate Professor, Institute of Child Development,
University of Minnesota
1986 Associate Director, Institute of Child Development
1990-present Professor, Institute of Child Development,
University of Minnesota
1998-present Adjunct Professor of Child and Adolescent Psychiatry,
University of Minnesota
2006-present Associate Director, Center for Neurobehavioral Development,
University of Minnesota
2011-2020 Director, Institute of Child Development, University of Minnesota

Endowed Professorships:

2006-present Regents Professorship
-present Distinguished McKnight University Professorship
2002-2005 Rodney Wallace Professorship for the Advancement of Teaching and

Learning

NIH Career Awards:

1986-1991	National Institute of Health Research Career Award, K01
1991-1996	National Institute of Mental Health Research Career Award, K02
1996-2001	National Institute of Mental Health Career Award, K02
2002-2007	National Institute of Mental Health Senior Scientist Award, K05

Named Lectures:

2020	Sameroff Lecture, University of Michigan (delayed to 2022)
2018	Gesell Lecturer, Yale Child Study Center, Yale School of Medicine
2017	Bernstein Lectureship, University of Colorado Medical School
2016	Thompson-Tobin Visiting Lecture, Hennepin County Medical Center
2016	University of Calgary, Distinguished Lecture in Psychology
2016	Dr. Stanley Leonard Pediatric Mental Health Lecture, St Paul, Minnesota
2014	Gig Levine Memorial Grand Rounds, University of California, Davis
2013	Cairns Capstone Lecture, University of North Carolina
2011	Bloom Lecture, Pennsylvania State University
2010	Henry Ricciutti Lecture, Cornell University
2009	Allen L. Edwards Endowed Lectureship in Psychology, University of Washington
2005	Leona Tyler Lectureship, University of Oregon, Eugene Oregon
2004	Harris Lectureship, Boston Medical Center, Boston, Massachusetts
2004	Allen L. Edwards Endowed Lectureship in Psychology, University of Washington
2002	APA Distinguished Scientist Lectureship
2002	Johnson Lecturer, Macalester College, St. Paul, Minnesota
2001	Nathan Steinberg Child Development Lectureship, McGill University
2001	Spiker Lectureship, Department of Psychology, University of Iowa
2000	Lawrence Lokey Distinguished Lectureship, Stanford University
1998	Anatham Foundation Distinguished Lecturer, Western Psychiatric Institute and Clinics, Pittsburgh
1994	Distinguished Lecturer, University of Regensburg, Germany
1992	Kennedy Center Distinguished Lectureship, Vanderbilt

University

Other Honors and Awards:

- 2022 Elected to the National Academy of Sciences
2021 APA Distinguished Scientific Contributions Award
2021 Rovee Collier Mentorship Award, International Society for
Developmental Psychobiology
2021 Association for Psychological Science James McKeen Cattell
Award
2019-2022 Member, Minnesota Governor's Children's Cabinet Advisory Council
2018 International Society for Psychoneuroendocrinology Lifetime
Achievement Award
2017-present Fellow the American Academy of Arts and Sciences
2017-present Fellow the National Academy of Education
2014 APS Mentor Award for Lifetime Achievement
2014-present Fellow, American Psychological Association, Division 7
2013-present Associate Fellow: Candian Institute for Advanced Research
2009 Society for Research in Child Development, Distinguished
Scientific Contribution to Child
Development
2007 Speaker, National Children's Summit, Sponsored by Nancy
Pelosi and the US House of Congress
2006 APA Division 7 Award for Distinguished Contributions to
Developmental Psychology,
formerly the G. Stanley Hall Award
2003 Selected, Fellow Center for Advanced Study in the Behavioral
Sciences, Stanford University
2002-2005 Advisory Council for the National Institute of Mental Health
2000-2013 Fellow, Canadian Institute for Advanced Research
1998-2000 National Academy of Science/National Institute of Medicine:
Committee on Integrating the Science of Early Development
1997 Invitee, US White House Conference on Early Learning and Child Development
1996-present Fellow, Association for Psychological Science
1991-1994 Board, International Society for Infant Studies
1982 APA Boyd McCandless Award nominee
1982 Foundation for Child Development, Young Scholar Award
1978-1979 NIMH, Postdoctoral Fellowship, Stanford University Medical School
1974-1977 NIMH, Predoctoral Traineeship, Stanford University
1973 Honors in Psychology, Mills College, Oakland, CA

Research Grants: (PI, unless otherwise noted).

- 1979-1981 Graduate School Grant, University of Minnesota
1981 Summer Faculty Research Appointment, University of
Minnesota

1982-1983	Foundation for Child Development, Young Scholar Award, "The Effects of Infancy"	Predictability on Fear in
1982-1983	NSF Grant (Co-PI), "Controllability, Development and Social Separation"	
1982-1985	NICHD Grant, "Behavioral and Hormonal Responses to Stress in Children"	
1985-1989	NICHD Grant, competing renewal	
1989-1996	NICHD Grant, competing renewal	
1996-1999	NICHD Grant, competing renewal	
1996-1998	MacArthur Foundation Grant, "Neuroendocrine Activity in Children Adopted from Romania"	
1997-1999	NIMH R01, "Cortisol, Attention Regulation and Inhibitory Control."	
1998-2000	NSF SGER, "The Hypothalamic-Pituitary System: Links with Emerging Effortful Control and Self-Regulation."	
1999-2001	NIMH R03, "HPA Regulation: Cross-Disciplinary Research Network"	
1999-2003	NIMH R01, "Adjustment of Internationally Adopted Children"	
	NIMH R01, "Salivary Cortisol in Internationally Adopted Children"	
	NIMH R01, "Psychobiological Studies of Stress in Young Children"	
	NIMH R03, "Early Experience, Stress, and Prevention Science" Level II, Network grant.	
2004-2009	NIMH R01, "Neurobehavioral Correlates of Early Deprivation in Internationally Adopted Children"	
2008-2014	NIMH R01, "Recovery from Early Life Stress in Children Adopted from Institutions."	
2008-2013	NIMH P50, "Effect of BDNF Genotype and Stress on Learning and Development" PI: BJ Casey,	
	Project II: Impact of BDNF Genotype and Early Life Stress on Learning in	
	Adolescents. PI: Megan Gunnar	
2009-2014	NIMH P50, "Early Experience, Stress and Neurobehavioral Development"	
2013-2018	NICHD R01 "Pubertal Stress Recalibration Hypothesis"	
2015-2017	NICHD R21 "Early Life Stress and Immune Dysfunction in Post-Institutionalized Adolescents"	
2015-2021	JPB Foundation "Toxic Stress Network" (subcontract from Harvard University)	
2017-2019	Bezos Family Foundation "Toddler Attention Study"	
2019-2024	NICHD R01 "Social Buffering over the Pubertal Transition"	

Administrative Grants:

1986-1987	NICHD Conference Grant, "Child Psychology Symposium Support"
1987-1989	NICHD Conference Grant, continued

1987-1989 General Mills Conference Grant, "Minnesota Symposium"
 1991-1994 NIH T32 Biobehavioral Training in Developmental Disabilities
 1997-2000 Center Grant, University of Minnesota Graduate School, "Center for the Study of Neurobehavioral Development in the Context of Adversity"
 2006-2012 NIMH T32 Child Developmental Psychopathology, PI and Training Director
 2014-2017 NSF BCS "The Neurodevelopment of Social Buffering and Fear Learning: Integration and Crosstalk Conference Grant"

Professional Societies:

Society for Research in Child Development, American Psychological Society, International Society for the Study of Behavioral Development, International Society of Developmental Psychobiology, International Society for Infant Studies, International Society for Psychoneuroendocrinology, Zero to Three

Translational and Interdisciplinary Networks:

2017-present Member of the Toxic Stress Network, Harvard's Center on the Developing Child
 2013-present Member, Canadian Institute for Advanced Research, Program on Child and Brain Development
 2011-2015 Member, Human Capital and Economic Opportunity Working Group (Early Childhood Interventions Subgroup). Directed by James Heckman and Robert Dugger
 2009-2015 Director, NIMH Center on Early Experience, Stress and Neurobehavioral Development
 2004-2012 Member, Canadian Institute for Advanced Research, Program on Experience-based Brain and Behavioral Development
 2001-present National Scientific Council on the Developing Child, Harvard Center on the Developing Child
 1999-2006 Director, NIMH Network on Early Experience, Stress Neurobiology, and Prevention Science
 1998-2003 Associate, Canadian Institute for Advanced Research, Program on Human Development and Population Health

Professional Activities:

2020-present Member of the Advisory Committee to the Children's Cabinet for the State of Minnesota
 2016-2019 Member of the Early Childhood Advisory Committee to the Governor of Minnesota
 2013-2014 Chair, Mechanisms of Emotion, Stress and Health Review

Committee, NIH-CSR
 2012-present Chair, Scientific Advisory Council, Minnesota Children's
 Museum
 2012- present Scientific Advisor to the English and Romanian Adoptees
 Study
 2011-2013 Member, Mechanisms of Emotion, Stress and Health Review
 Committee, NIH-CSR
 2006-present College of Reviewers for the Canada Research Chairs
 Program
 2006-2011 Finance Committee of the International Society of
 Psychoneuroendocrinology (ISPNE)
 2008-2011 Advisory board for the Center for Developmental Science at
 University of North Carolina
 2005-2007 Core Group Member, Mental Health Conferences on Comparative &
 Primate Studies, NIMH
 2004 NIMH Panel on Setting Priorities for Basic Science Research
 2004 Panel Member, National Children's Study Workshop, Gene/
 Environment Interactions in the Regulation of Behavior
 2003 Panel Member, National Children's Study Workshop, Psychosocial
 Stress in Pregnancy and Infancy
 2003-2007 Member of the Society for Research in Child Development Ethical
 Conduct Committee
 2002-2005 Advisory Board to the Director of the National Institute of Mental
 Health
 2002-2007 Member of the International Institute for Child Rights and
 Development (IICRD) *Consultant Resource Team*
 External Reviewer for the Center for Human Growth and
 Development, University of Michigan
 1998-2000 Panel on Temperament and Emotion, Sackler Institute
 1998-2000 Committee on Integrating the Science of Early Childhood
 Development,
 National Institute of Medicine/National Academy of Science
 Member, NIMH Behavioral Sciences Branch, Advisory Committee on
 Strategic Planning
 1998 Member, NIMH Behavioral Science Branch, Advisory
 Committee on Peer Review
 1998-2006 Board of Directors of Zero-to-Three
 1997-2000 Scientific Advisory Board for the Child and Adolescent Development
 and Psychopathology Research Center (CADPRC) for Developmental
 Epidemiology (WPIC).
 1997-2000 Scientific Advisory Board for the Project on Human
 Development in Chicago Neighborhoods,
 MacArthur Foundation
 1996-1999 CARP Study Section, NIMH

1994-1995 Starbright Consortium on Children's Coping with Stress
1991-1996 Board of International Society for Infant Studies
1990-1993 W.T. Grant Consortium: Developmental Psychobiology of Stress
1989-1992 Chair, Human Development and Aging Review Committee, NICHD
1986-1989 Human Development and Aging Research Review Committee,
NICHD

Recent Research Consulting/Mentoring

2017-present Advisory Board Member, Moriah Thomason "BRAINS"
award
2010-2014 Dan Klein, PI: Temperamental Emotionality in Preschoolers and
Depression Risk
Grant #: 2 R01 MH069942-06A1, Consultant.
2008-2011 International Advisory to Canadian Program to Establish
Goals for Early Child Development
2007-2010 Co-Mentor: "Reactivity and regulation in the intergenerational
transmission of PTSD" K08
MH074588 to Michelle Bosquet (April 1, 2007-March 31, 2012)
2006-2010 Consultant: "The intergenerational transmission of social anxiety
and social phobia" Medical
Research Council, UK (Jan 1, 2007-Jan 1, 2010).
2006-2011 Consultant: "Prenatal Anxiety and its Effects on Child
Development" NIMH R01MH074019.
PI: Thomas O'Connor (Dec, 2006-Nov, 2011)

Editorial Activities:

2013-2015 Editorial Board, Adoption Quarterly
2013-2015 Editorial Board, Emotion
2012-present Special Subject Editor, Journal of Child Psychology and
Psychiatry
2010-2015 Senior Editor, Editorial Board, Socioaffective Neuroscience and
Psychology
2009-2013 Editorial Board, Developmental Neuroscience
2008-2011 Editorial Board, Child Development Perspectives
1997-present Editorial Board, Psychoneuroendocrinology
2010-2012 Consulting Editor, Emotion
2007 Editor, Minnesota Symposium on Child Psychology, Volume,
35.
2006-2008 Editorial Board, Frontier in Behavioural Neuroscience
2003-2005 Consulting Editor, Developmental Psychology
2000-2004 Editorial Board, Developmental Review
2000-2005 Editorial Board, Emotion
1998-2000 Editorial Board, Infancy
1998-2000 Editorial Board, Infant Behavior and Development

1994-1996 Associate Editor, Psychological Bulletin
1986-2001 Editorial Board, Developmental Psychobiology
1986-1991 Editor, Minnesota Symposia on Child Psychology, Volumes 21-25

Major University Assignments (last 10 years):

2003-2005 Governing Council Member of the Center for Cognitive Sciences
2003-2004 Task Force on Issues of Academic Freedom
2004 Dean Review Committee
2005-2007 Member, Faculty Consultative Committee
2005 Member, GC/CEHD Restructuring Task Force
2006-2007 Executive Council, Center for Cognitive Science
2006-2007 CEHD Task Force on Department 7.12 statements
2006-2007 Provost's Advisory Committee: Institute for Advancement of Science
and Technology
2009-2011 McKnight Land-Grant Professorship Nomination Committee
2009 Task Force on Faculty Scholarship, Development and
Rewards
2010-2012 Provost's Standing Committee for the Comprehensive Review of
Deans
2013 Special Committee on Graduate Education
2014 Co-Chair OVPR Strategic Planning Task Force on Research
Excellence
2014 Member of the Provost Strategic Planning Task for on Field
Shapers
2017 Member of the Search Committee for the VP of Research

Ph.D. Students (Advisor & Co-Advisor)

Academic Positions/ Policy: Sarah Mangelsdorf (President, University of Rochester), Robin Hornik (Professor and Chair, Hamline University), Sherry Murret-Wagstaff (Emory University), Michelle de Haan (Reader, University College, London), Emma Adam (Professor, Northwestern University), Kathleen Tout (Director, Child Trends Minneapolis), Barbara Prudhomme White (Associate Professor, Occupational Therapy, University of New Hampshire), Anne Sebanc (Associate Professor, Whittier College), Elysia Poggi Davis (Associate Professor, Denver University), Nim Tottenham (Associate Professor, Columbia University), Susan Parker (Assistant Professor, Randolph-Macon College), Maria Kroupina (Assistant Professor, University of Minnesota, Department of Pediatrics), Carol Cheatham (Associate Professor, University of North Carolina), Jacqueline Bruce (Research Associate, Oregon Social Learning Center), Darlene Kertes (Associate Professor, University of Florida, Gainesville), Nicole Talge (Assistant Professor, Department of Epidemiology & Biostatistics at Michigan State), Amanda

Tarullo (Assistant Professor, Boston University), Karina Quevedo (Assistant Professor, Department of Psychiatry, University of Minnesota), Melissa Garvin (Assistant Professor, Sonoma State University), Michelle Loman (Assistant Professor, Medical College of Wisconsin), Camelia Hostinar (Assistant Professor, UC Davis), Anna Johnson (Asst Prof, University of St Thomas), Adriana Herrera Youssef (Research Project Specialist, University of Minnesota), Jamie Lawler (Assistant Professor, Eastern Michigan State University), Elisa Esposito (Assistant Professor, Widener University), Jena Doom (Assistant Professor, U. Denver), Carrie DePasquale (Postdoc, Penn State, deceased Sept 2020), Brie Reid (Postdoc, Brown University), Colleen Doyle (Post-doc, Hennepin County Medical Center)

Ph.D. Students in Clinical Practice: Susan Fust, Jordan Hart, Melissa Nachmias, Akiko Tanaka, Cynthia Troy, Mary Larson, Tom Dikel, Jan Alwin, Kristen Wiik, Clio Pitula

Current: Keira Leneman, Danrou Zhang, Emily Reily, Mariann Howland, Finola Kane-Grade, Maya Bowen, Bria Gresham, Clarissa Filetti

Postdoctoral Fellows Elizabeth Kipp-Campbell (HCMC, Minneapolis), Kathy Stansbury (Assoc Professor, Michigan State University, deceased), Mark Ryzin (Research Associate, OSLC), Kalsea Koss (Assistant Professor, University of Georgia), Nicole Perry (Assistant Professor, University of Texas, Austin)

NIH Minority Faculty Mentoring, Mentored K-Awards

Richard Lee (Professor, UMn), Ronald Dahl (Professor, University of California, Berkeley), Lia Fernald (Professor, University of California, Berkeley), Susan Warren (Professor, George Washington University), Andrea Dettling (Research Institute, Switzerland).

Honors Students

Kelly Leighton, Ray Pleaux, Cheryl Stone, Karen Eldevick, Steve Shapiro, Kathy Stang, Mary Wilson, Anne Benolken, Debra Andreas, Clare Larson, Lenard Sulik, Jamalee Erikson, Susan Patterson, Mary Wilson, Bri Ahles, Katie Jodl, Amy Loesch, Jamie Miller, Kristin Buss, Amy Hawkins, Jackie Jebbett, Georgine Palm, Julie Richter-McAlpin, Patricia, Bowe, Randy Ng, Renee Vraa, Sarah Lane Watamura, Rebecca Pilaszyk, Margro Purple, Ingrid Hofmann, Sarah Warner, Cindy Liu, Carolyn Phan, Jenifer Notch, Sarah Gervais, Bridgette Goulet, Kristen Frenn, Cara Jaehnke, Mary Beth Settergren, Lindsey Domagall, Johanna Morrow, Onyi Amajuoyi, Christopher Griggs, Megan Helmen, Kristin Schwarze, Dana Schmidt, Joni Coleman, Clare Evenson, Patrick Schultz, Rebecca Tupy, Marie Cassidy, Jessie Baglien, Britney Rosenau, Molika Sajady, Leah Sutton, Cassandra Eveans, Nichole Jonas, Kaitlin Lucas, Kelsey Lepp, Alyssa Pintar, Amanda Burkholder, Abbie M. Haus

Summer REU program Advisees /Undergraduate Research Opportunity Program

Eboni Walker, Irene Collins, Sheetal Agarwal, Molly Middlecamp, Adela Merig, Anne

Benolken, Catherine Biren, Jamalee Erickson, Tracy Hawton, Clare Larson, Michelle Nezerka, Katie Jodl, Heather, Lehman, Laurie Brodersen, Mark Miller, Kristin Buss, Jackie Jebbett, Erri Hewett, Jennifer Holland, Randy Ng, Angie Wefel, Sarah Lane, Kara Kramer, Ingrid Hofmann, Niki Wenzler, Sarah Stellern, Cindy Liu, Anne Walaszek, Suzanne Cota, Rachel Dayton, Kristin Frenn, Dana Ruggiero, Bridgette Goulet, Anna Johnson, Santiago Cadenas, Diem Han Julie Nguyen, Vy Dang, Elizabeth Sayles, Joni Coleman. Clare Evenson, Vy Dang, Kari Johnson, Patrick Schultz, Alyssa Pintar, Alyssa Miller, Lindsey Wert, Megan Heise, Josh Espano, Brianna Lundgren, Samatha Goodwin

Refereed Journal Publications (Bold are students and postdocs)

h-index=113, i10 index=274

1. Gunnar-vonGnechten, M. (1978). Changing a frightening toy into a pleasant toy by allowing the infant to control its actions. Developmental Psychology, 14(2), 157-162.
Reprinted in: Hetherington and Parke, Readings in Child Development.
2. Gunnar, M., & **Donahue, M.** (1980). Sex differences in social responsiveness between 6 months and 12 months. Child Development, 51, 262-265.
3. Gunnar, M. (1980). Control, warning signals and distress in infancy. Developmental Psychology, 16(4), 281-289.
4. Gunnar, M., Gonzales, C., & Levine, S. (1980). The role of peers in modifying behavioral distress and pituitary-adrenal response to novel environments in year-old Rhesus monkeys. Physiology and Behavior, 25, 795-798.
5. Gunnar, M., Gonzales, C., Goodlin, B., & Levine, S. (1981). Behavioral and pituitary-adrenal responses during a prolonged separation period in infant Rhesus macaques. Psychoneuroendocrinology, 6(1), 65-75.
6. Gonzales, C., Gunnar, M., & Levine, S. (1981). Behavioral and hormonal responses to social disruption and infant stimuli in female Rhesus monkeys. Psychoneuroendocrinology, 6(1), 55-65.
7. Gunnar, M., Fisch, R., **Korsvik, S.**, & **Donhowe, J.** (1981). The effect of circumcision on serum cortisol and behavior. Psychoneuroendocrinology, 6(3), 269-276.
8. Weinberg, J., Gunnar, M., Brett, L., Gonzales, C., & Levine, S. (1982). Sex differences in biobehavioral responses to conflict in a taste aversion paradigm. Physiology and Behavior, 29, 201-210.

9. Gunnar, M. (1982). The development of control in infancy: Effects of poverty and malnutrition. Baroda Journal of Nutrition, 9, 110-115.
10. Gunnar, M., **Senior, K.**, & Hartup, W. W. (1984). The development of control in infancy: Effects of poverty and malnutrition. Child Development, 55, 1103-1109.
11. Gunnar, M., Fisch, R. O., & **Malone, S.** (1984). The effects of a pacifying stimulus on behavioral and adrenocortical responses to circumcision in the newborn. Journal of the American Academy of Child Psychiatry, 23, 34-38. PMID: 6693677
12. Gunnar, M., **Leighton, K.**, & **Peleaux, R.** (1984). Effects of temporal predictability on the reactions of one-year-olds to potentially frightening toys. Developmental Psychology, 20, 449-458.
13. Gunnar, M., & **Stone, C.** (1984). The effects of positive maternal affect on infant responses to pleasant, ambiguous and fear-provoking toys. Child Development, 55, 1231-1236.
14. Gunnar, M., **Malone, S.**, Vance, G., & Fisch, R. O. (1985). Coping with aversive stimulation in the neonatal period: Quiet sleep and plasma cortisol levels during recovery from circumcision in newborns. Child Development, 56, 824-834.
15. **Malone, S.**, Gunnar, M., & Fisch, R. O. (1985). Adrenocortical and behavioral responses to limb restraint in human neonates. Developmental Psychobiology, 18, 435-446.
16. Mineka, S., Gunnar, M., & Champoux, M. (1986). Control and early socio-emotional development: Infant Rhesus monkeys reared in controllable vs. uncontrollable environments. Child Development, 57, 1241-1256.
17. Gunnar, M. (1987). Psychobiological studies of stress and coping: An introduction. Child Development, 58, 1403-1407.
18. Gunnar, M., Isensee, J., & **Fust, S.** (1987). Adrenocortical activity and the Brazelton Neonatal Assessment Scale: Moderating effects of the newborn's biomedical status. Child Development, 58, 1448-1458.
19. **Hornik, R.**, **Risenhoover, N.**, & Gunnar, M. (1987). The effects of maternal positive, neutral and negative affective communications on infant responses to new toys. Child Development, 58, 937-944.
20. Gunnar, M., Connors, J., Isensee, J., & **Wall, L.** (1988). Adrenocortical activity and behavioral distress in human newborns. Developmental Psychobiology, 21, 297-310.

21. **Hornik, R., & Gunnar, M.** (1988). A descriptive analysis of infant social referencing. Child Development, 59, 626-634.
22. Stang, H., Gunnar, M., Snellman, L., Condon, L., & **Kestenbaum, R.** (1988). Local anesthesia for neonatal circumcision: Effects on distress and cortisol response. Journal of the American Medical Association, 259, (10), 1507-1511.
23. Gunnar, M., Connors, J., & Isensee, J. (1989). Lack of stability in neonatal adrenocortical reactivity because of rapid habituation of the adrenocortical response. Developmental Psychobiology, 22, 221-233.
24. Gunnar, M., **Mangelsdorf, S., Larson, M., & Hertsgaard, L.** (1989). Attachment, temperament and adrenocortical activity in infancy: A study of psychoendocrine regulation. Developmental Psychology, 25, 355-363. *Reprinted in: Chess, S., & Hertzog, M. (Eds.). (1991). Annual Progress in Child Psychiatry and Child Development, 1990 (pp. 90-110). New York: Brunner/Mazel.*
25. Collins, W.A. & Gunnar, M.R. (1990). Social and personality development. Annual Review of Psychology, 41, 387-416.
26. **Mangelsdorf, S., Gunnar, M., Kestenbaum, K., Lang, S., & Andreas, D.** (1990). Infant proneness-to-distress temperament, maternal personality and mother-infant attachment: Associations and goodness of fit. Child Development, 61(3), 820-831. Reprinted in S. Chess & M. E. Hertzog (1992). Annual progress in child psychiatry and child development, 1991. (pp. 312-331) New York: Brunner/Mazel Publishers.
27. **Larson, M., Gunnar, M., & Hertsgaard, L.** (1991). The effects of morning naps, car trips, and maternal separation on adrenocortical activity in human infants. Child Development, 62, 362-372.
28. Gunnar, M., **Hertsgaard, L., Larson, M., & Rigatuso, J.** (1991). Cortisol and behavioral responses to repeated stressors in the human newborn. Developmental Psychobiology, 24(7), 487-506.
29. Gunnar, M. (1992). Reactivity of the hypothalamic-pituitary-adrenocortical system to stressors in normal infants and children. Pediatrics, 90(3, Pt 2), 491-497.
30. **Hertsgaard, L., Gunnar, M., Larson, M., Brodersen, L., & Lehman, H.** (1992). First time experiences in infancy: When they appear to be pleasant, do they activate the adrenocortical stress response? Developmental Psychobiology, 25, 319-334.

31. Gunnar, M., **Larson, M., Hertzgaard, L., Harris, M.,** & Brodersen, L. (1992). The stressfulness of separation among 9-month-old infants: Effects of social context variables and infant temperament. Child Development, 63, 290-303.
32. Gunnar, M., & Nelson, C. (1994). Event-related potentials in year-old infants predict negative emotionality and hormonal responses to separation. Child Development, 65, 80-94.
33. Gunnar, M., Porter, F., Wolf, C., Rigatuso, J., & **Larson, M.** (1995). Neonatal stress reactivity: Predictions to later emotional temperament. Child Development, 66, 1-14.
34. **Hertzgaard, L.,** Gunnar, M., Erickson, M., **Nachmias, M.** (1995). Adrenocortical responses to the strange situation in infants with disorganized/disoriented attachment relationships. Child Development, 66, 1100-1106.
35. **Hart, J.,** Gunnar, M., & Cicchetti, D. (1995). Salivary cortisol in maltreated children: Evidence of relations between neuroendocrine activity and social competence. Development and Psychopathology, 7, 11-26.
36. Boyce, T., Champoux, M., Gunnar, M.R., & Suomi, S. (1995). Salivary cortisol in nursery-reared rhesus monkeys: Reactivity to peer interactions and altered circadian activity. Developmental Psychobiology, 28, 257-268.
37. Boyce, T., Adam, S., Tschann, I. M., Cohen, F., Wara, D., & Gunnar, M. (1995). Adrenocortical and behavioral predictors of immune responses to starting school. Pediatric Research, 38, 1009-1017.
38. **Hart, J.,** Gunnar, M., & Cicchetti, D. (1996). Altered neuroendocrine activity in maltreated children related to symptoms of depression. Development and Psychopathology, 8, 201-214.
39. Gunnar, M., Brodersen, L., Krueger, K., & Rigatuso, J. (1996). Dampening of behavioral and adrenocortical reactivity during early infancy; Normative changes and individual differences. Child Development, 67, 877-889.
40. Gunnar, M., Brodersen, L., **Nachmias, M., Buss, K.,** & Rigatuso, R. (1996). Stress reactivity and attachment security. Developmental Psychobiology, 29, 191-204.
41. **Nachmias, M.,** Gunnar, M., **Mangelsdorf, S., Parritz, R., & Buss, K.** (1996). Behavioral inhibition and stress reactivity: Moderating role of attachment security. Child Development, 67, 508-522.
42. Gunnar, M., **Tout, K., de Haan, M., Pierce, S. & Stansbury, K.** (1997).

Temperament, social competence, and adrenocortical activity in preschoolers. Developmental Psychobiology, 31(1), 65-85.

43. Stang, H. J., Snellman, L. W., Conroy, M. M., Liebo, R., Brodersen, L., and Gunnar, M. R. (1997). Beyond DPNB: A more humane circumcision. Pediatrics, 100(2).
44. **de Haan, M.**, Gunnar, M. R., **Tout, K.**, **Hart, J.**, & **Stansbury, K.** (1998). Familiar and novel contexts yield different associations between cortisol and behavior among 2-year-old children. Developmental Psychobiology, 33(1), 93-101.
45. **de Haan, M.**, Nelson, C. A., Gunnar, M. R., & **Tout, K. A.** (1998). Hemispheric differences in brain activity related to the recognition of emotional expressions by 5-year-old children. Developmental Neuropsychology, 14(4), 495-518.
46. Gunnar, M. R. (1998). Quality of early care and buffering of neuroendocrine stress reactions: Potential effects on the developing human brain. Preventive Medicine, 27(2), 208-211.
47. Gunnar, M. R., & Barr, R. G. (1998). Stress, early brain development, and behavior. Infants and Young Children, 11(1), 1-14.
48. **Larson, M. C.**, **White, B. P.**, **Cochran, A.**, Donzella, B., & Gunnar, M. (1998). Dampening of the cortisol response to handling at 3-months in human infants and its relation to sleep, circadian cortisol activity, and behavioral distress. Developmental Psychobiology, 33(4), 327-337.
49. Schwartz, E. B., Granger, D. A., Susman, E. J., Gunnar, M. R., & Laird, B. (1998). Assessing salivary cortisol in studies of child development. Child Development, 69(6), 1503-1513.
50. **Tout, K.**, **de Haan, M.**, **Kipp-Campbell, E.**, & Gunnar, M. R. (1998). Social behavior correlates of adrenocortical activity in daycare: Gender differences and time-of-day effects. Child Development, 69(5), 1247-1262.
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Development and Behavior, Volume 63.

Edited Books

1. Gunnar, M., & Collins, A. (Eds.). (1988). *Development during the transition to adolescence. Minnesota symposia on child psychology, Vol. 21*. Hillsdale, NJ: Erlbaum.
2. Gunnar, M., & Thelen, E. (Eds.). (1989). *Systems and development. Minnesota Symposia on Child Psychology, Vol. 22*. Hillsdale, NJ: Erlbaum.
3. Gunnar, M., & Sroufe, L. A. (Eds.). (1991). *Self processes in development. Minnesota Symposia on Child Psychology, Vol. 23*. Hillsdale, NJ: Erlbaum.
4. Gunnar, M., & Nelson, C. (Eds.). (1992). *Developmental Behavioral Neuroscience. Minnesota Symposia on Child Psychology, Vol. 24*. Hillsdale, NJ: Erlbaum.
5. Gunnar, M., & Maratsos, M. (Eds.). (1992). *Modularity and Constraints in Language and Cognition, Minnesota Symposia on Child Psychology, Vol. 25*. Hillsdale, NJ: Erlbaum.
6. Gunnar, M.R. & Cicchetti, D. (Eds). (2009). Meeting the challenge of translational research in child psychology.
Volume 35, *Minnesota Symposia on Child Psychology*. New York: Wiley.
7. De Haan, M. & Gunnar, M.R. (Eds). (2009). *Handbook of Developmental Social Neuroscience*. New York, Guilford Press.

Plenary, Keynote, and Invited Addresses and Colloquia

Contingent stimulation: A review of its role in early development. (1979, Spring). NATO Conference on Stress, Coping, and its Implications for Problems Related to Health and Disease, Belagio, Italy.

Stages in the development of control during infancy. (1982, January). International Workshop on Nutrition and the Development of the Child, Baroda, India.

- Behavioral and adrenocortical responses to stress in the human newborn. (1983, February). Workshop on Stress and Coping, Miami.
- The effects of early experiences with control on later responses to stressful and challenging situations in infant Rhesus macaques. (1983, August). Symposium on Coping and Development, International Society for the Study of Behavioral Development, Munich, West Germany.
- Behavioral and adrenocortical responses to stress in human newborns. (1983, November). Department of Psychology, University of Illinois, Champaign-Urbana.
- Psychoendocrine studies of stress in the newborn. (1984, March). Rutgers University.
- Newborn stress and coping. Department of Psychology, (1985, January). University of North Carolina.
- Control, social referencing and the infant's appraisal of threat. SRCD conference. (1985, Spring). Social Referencing and the Infant's Construction of Reality, Wyoming.
- Coping with uncertainty: New models of hormonal, behavioral and cognitive processes. (1986, Fall). Symposium on Coping with Uncertainty: Biological, Behavioral and Developmental Approaches, Pennsylvania State University.
- Behavioral and hormonal measures of temperament: What do they tell us? (1987, Fall). Symposium on Developmental Processes and Psychopathology, University of Rochester.
- Adrenocortical responses to psychosocial stressors in infancy. (1988, Winter). Symposium on Stress and Coping, University of Miami and Mailman Center, Miami.
- Stress hormones: Biologic markers of vulnerability in infants and children. (January, 1990). Conference on Cardiovascular, Hormonal and Immunologic Markers of Vulnerability, W. T. Grant consortium on the Developmental Psychobiology of Stress, Malibu.
- The Psychoendocrinology of Emotion Regulation (with K. Stansbury). (March, 1991). Conference on Emotion Regulation. Washington, D.C.
- The Psychobiology of Stress in Early Development: Reactivity and Regulation. (July, 1991). Plenary Speaker, New Directions Speaker, XIth Biennial Meetings of the International Society for the Study of Behavioral Development.
- The Psychoendocrinology of Temperament. (October, 1992). Invited talk: APA

Conference on Temperament. Indiana University, Bloomington, Indiana.

Psychoendocrine Studies of Adaptation in Normally Functioning Nursery School Children. (August, 1992). Invited Plenary: XXIII Congress of International Society of Psychoneuroendocrinology, Madison, Wisconsin.

Psychophysiological Contributions to Theory in Social and Emotional Development. (February, 1993). Invited NIMH Workshop on Psychophysiology.

Hypothalamic-pituitary-adrenal studies of stress reactivity in young children. (September, 1993). Invited lecture at the National Institute of Child Health and Development.

Psychobiology of Stress and Coping in Young Children. (September, 1993.) Plenary lecture, The Childhood Depression Consortium, Toronto, Canada.

The Development of Stress Reactivity in human infants. (December, 1993). Invited symposium at meetings of the National Academy of Neuropsychopharmacology, Hawaii.

Temperament and Adrenocortical Activity. (June, 1994). Invited Symposium, XIXth Collegium Internationale Neuro-Psychopharmacologicum, Washington, D.C.

Salivary Cortisol Levels in Infant Monkeys. (May, 1995). Laboratory of Comparative Ethology, NICHD.

The Development of the HPA System in Children. (September, 1995). Invited Symposium at Meetings of the International Society for Psychoneuroendocrinology. Munich, Germany.

The mother as a buffer of the human infant's stress physiology. (January, 1996). Rockefeller University, Stress, Brain and Behavior Symposium, New York.

The development of HPA stress reactivity and regulation in early human development. (February, 1996). McGill University, GRIP Research Symposium, Montreal.

The development of neuroendocrine responses to stressors: The role of caregivers. (Spring, 1996). Wisconsin Symposium on Emotions, Madison, WI.

Crying, soothing, and stress physiology: Looking for the Rosetta stone. (May, 1996). Stress and Soothing Symposium, Robert Wood Johnson Medical School, New Brunswick.

Neuroendocrine stress reactions in young children. (May, 1996). NIMH: 5th National

Risk and Prevention Conference, Washington, D.C.

The developmental psychobiology of stress in infancy and childhood: The role of relationships in buffering stress reactivity. (February, 1997). Department of Psychology, Arizona State University, Tempe, AZ.

Neuroendocrine activity and effortful control. (March, 1997). Festschrift for Eleanor E. Maccoby, Washington, DC.

The regulation of stress physiology: Its relevance for our understanding of infant mental health. (October, 1997). NIMH Workshop Administration on Children, Youth and Families, Bethesda, MD.

Links between stress physiology and environment in influencing the healthy development of children. (October, 1997). Institute for Social Research Workshop on Research Ideas and Data Needs for Studying the Well-Being of Children and Families, Washington, DC.

Local adaptation of the mammalian stress system. (November, 1997). Local biology: Relationships of biology and culture in ontogeny: Social Science Research Council working conference, Jekyll Island, GE.

Stress hormones and social relationships in infants and young children. (January, 1998). Center for Cognitive Science, Minneapolis, MN.

Early Experience and the Development of Stress Reactivity. (October, 1998). Invited Address, 31st Minnesota Symposium on Child Psychology, Minneapolis, MN.

Bioprocesses in human development. (March, 1998). Presentation at the Canadian Institute for Advanced Research, Vancouver, Canada.

The development of stress reactivity. (December, 1998). Invited presentation for McKnight Professorship Programs, Minneapolis, MN.

Early experience and activity of the hypothalamic-pituitary-adrenal system in children. (January, 1999). Grand Rounds presentation, Department of Psychiatry and Behavioral Sciences, Emory University, Atlanta, GE.

Social regulation of the HPA axis in infants and children. (January, 1999). Presentation at the Neurodevelopmental Aspects of Psychopathology conference, Atlanta, GE.

Findings with Romanian adoptees. (February, 1999). Report to the Human Development Program of the Canadian Institute for Advanced Research, Ottawa, Canada.

Research on physiological effects of early institutionalization. (August, 1999). Workshop presentation for the International Conference on Adoption Research, Minneapolis, MN.

Social regulation of the LHPA axis in infancy and early childhood. (September, 1999). Workshop presentation for the National Institute on Drug Abuse and National Institute of Health, Bethesda, MD.

Stressors and stress physiology: Mediation of SES gradient effects in early development. (September, 1999). Workshop presentation for the National Heart Lung and Blood Institute, SES Working Group, Washington, DC.

Temperament, relationships, and stress in infants and young children. (October, 1999). Colloquium presented to the Department of Psychology, University of Wisconsin, Madison, WI.

Crying as a developmental phenomenon. (January, 2000). Discussant to panel presented at the Johnson & Johnson Pediatric Round Table 2000: New Evidence on Unexplained Early Infant Crying: Its Origins, Nature, and Management, Palm Beach, FL.

Studies of Early Experience and the Physiology of Stress. (2000, July). Plenary speaker, World Association for Infant Mental Health, Montreal, Canada.

Psychosocial regulation of the HPA axis on young children. (February, 2000). Invited colloquium presented to the Department of Psychiatry, Stanford University, Stanford, CA.

Temperament, social relationships, and stress in young children. (February, 2000). Invited bag lunch colloquium presented to the Department of Psychology Developmental Program, Stanford University, Stanford, CA.

Temperament, relationships, and the psychobiology of stress in early childhood. (March, 2000). Invited colloquium presented to the Department of Psychology, University of Minnesota, Minneapolis, MN.

Psychosocial markers of stress in every day life. (April, 2000). International workshop presentation to the Institutet for Psykosocial Medicin, Stockholm, Sweden.

Stress, deprivation, and brain development. (May, 2000). Presentation to the Pediatric Academic Societies and The American Academy of Pediatrics Year 2000 Joint Meeting, Boston, MA.

- Emde, R. N., Greenough, W., Gunnar, M. R., & Massinga, R. (2000, December). From rat cages to Mozart tapes: How did we get from there to here? Invited Plenary Workshop at the National Training Institute for Zero to Three, Washington, DC.
- Greenough, W., & Gunnar, M. R. (2000, December). What we really know about brain development and experience. Invited Symposium at the National Training Institute for Zero to Three, Washington, DC.
- Neuroendocrinology. (March, 2001). Invited speaker at the Child Development and Neurobiology meeting, at the Department of Child and Adolescent Psychiatry, Sophia Children's Hospital/Erasmus University, Rotterdam, The Netherlands.
- Psychosocial Regulation of Stress in Early Development: Implications for Development and Psychopathology. (2001, November). Keynote address, Society for Research in Psychopathology, Madison, WI.
- Quality of Care and Stress System Activity in Young Children. (2002, June). Plenary, Head Start's 6th National Research Conference, Washington, D.C.
- Early experience & stress regulation. (November, 2001). Invited address to the Millennium Dialogue on Early Childhood Development, Ontario Institute for Studies in Education, University of Toronto, Toronto, Canada.
- The Impact of Stress in the Developing Child. (2002, November). Keynote address, Frozen Futures?: A Conference Exploring the Effects of Early Stress on Later Outcomes, Australian Association for Infant Mental Health & National Investment for the Early Years, Sydney, Australia.
- Cutting edge research issues. (November, 2002). Invited member of research panel. Frozen Futures?: A Conference Exploring the Effects of Early Stress on Later Outcomes, Australian Association for Infant Mental Health & National Investment for the Early Years, Sydney, Australia.
- Early experiences and how they impact development. (November, 2002). The Science of Early Childhood Development conference, Johnson & Johnson Pediatric Institute, Beijing & Shanghai, China.
- What We Really Know About Brain Development: Neuroscience Translated. (2002, November), Johnson & Johnson Pediatric Institute, Beijing & Shanghai, China.
- Vulnerability to Stress and Illness: Predisposing Events in Early Life. (2003, September). Plenary speaker, International Society for Psychoneuroendocrinology, New York, NY.

International adoption program at the University of Minnesota. (February, 2003). Invited lecture, Oregon Health & Science University.

Psychobiology of stress in children. (February, 2003). Invited lecture, Oregon Health & Science University.

Integrating neuroscience and psychosocial approaches in the study of early experiences. (March, 2003). Invited lecture, Roots of Mental Illness in Children, New York Academy of Sciences conference, New York, NY.

Early experience, stress and human development. (2003, November). Grand Rounds presentation to the Department of Psychiatry, University of Minnesota, Minneapolis, MN.

Social regulation of stress in young children. (2003, November). Invited presentation to the College of Education and Human Development Alumni College Event, University of Minnesota, Minneapolis, MN.

Stress and Brain Development. (2003, October). Distinguished Scholar Lecture sponsored by the Minnesota Psychological Association, Macalester College, St. Paul, MN.

Stress and Early Development. (2004, April 24). Keynote address, Minnesota Undergraduate Psychology conference. College of St. Catherine, St. Paul, Minnesota.

Social Regulation of Stress in Early Development. (2004, September). Plenary Speaker, MARCE conference, Oxford University, Oxford, England

Social regulation of stress in early human development. (2004, April). Grand Rounds, division of Pediatric Clinical Neuroscience, Department of Pediatrics, University of Minnesota, Minneapolis, MN.

Social regulation of stress physiology and its role in human development. (2004, April). Conference on Intersubjectivity, University of Minnesota, Minneapolis, MN.

Early experiences and stress in human development. (2004, April). Canadian Institute for Advanced Research: Body of Knowledge: Health and Society. Toronto, Canada.

The importance of early social relationships. (2004, June). Plenary presentation to the Regional Child Development Conference. Bucharest, Romania.

Stress and neuroendocrine responses (2004, June). Invited Workshop at the Regional

- Child Development Conference. Bucharest, Romania.
- Early deprivation, stress and development. (2004, July). Invited lecture to the Continuing Medical Education course Minnesota Adoption Symposium: Effect of Early Adversity on Long-term Growth and Development of Internationally Adopted Children. Minneapolis, MN.
- The social regulation of stress in early human development. (2005, May). Master Workshop. American Psychological Society. Los Angeles, CA.
- Early experience and stress in human development. (2005, August). Master Lecture. American Psychological Association. Washington, DC.
- Implications of early childhood abuse and neglect for later social and emotional regulation. (2005, October). Invited lecture to American Association of Pediatrics, Washington, DC.
- Stress effects on the developing brain: Implications for adolescent psychopathology. (2005, June) Adolescent Brain and Psychopathology Conference, University of Pennsylvania, Philadelphia, PA.
- The developmental psychobiology of stress in human children. Invited talk. International Society of Psychoneuroendocrinology. Montreal, Canada, September, 2005
- Stress, early experience, and adult health. (2005, November). Workshop. National Scientific Council for the Developing Child. Washington, DC.
- Stress hormones and memory in the developing child. Emory Cognition Project Symposium, April, 2006.
- Early deprivation and child development. Anne E. Casey Meeting on Congregate Care. Baltimore, June, 2006
- Bringing Basic Research on Early Experience and Stress Neurobiology to Bear on Preventive Intervention Research on Neglected and Maltreated Children. Invited Symposium Presentation. American Psychological Association, New Orleans, LA, August, 2006.
- Impact of stress on learning and behavior. Julius Richmond Symposium. Harvard University, Boston, September, 2006.
- Advances in neuroscience that improve our understanding of connections among

environment, brain and behavior in early
childhood. Board of Children, Youth, and Families of the National Academy of
Science. Washington, DC.
November, 2006

Impact of early deprivation on stress and cognitive development: Studies of Post-
institutionalized children. Program on
Early Experience and Brain Development, Canadian Institute for Advanced
Research. Montreal, Canada,
November, 2006

Early Experiences, Stress and Human Development (2006, August). G. Stanley Hall
Award Address. American Psychological Association. New Orleans, LA

Social Regulation of Stress in Human Development: Implications for Post-Traumatic
Stress Disorder (2006, August). Invited conference on Post-Traumatic Stress
Disorder. Amsterdam, Netherlands

Toxic Stress and Brain Development. Panel on “The Science of Early Childhood
Development”. National Summit on America’s Children. United States House of
Representatives. Washington, DC. May 22, 2007

Early Adversity and Stress Neurobiology: A mechanisms for trauma vulnerability. PTSD
symposium. Amsterdam,
Netherlands, August 2007.

Early Experience, Stress and Neurobehavioral Development. Edwards Lecture,
University of Washington, April 2009.

The Effects of Early Deprivation on Development: Studies of Children Adopted from
Institutions. (April, 2010).
Distinguished Faculty Luncheon Speaker. University of Minnesota.

Early Experience and the Development of Stress in Children. (June, 2010). 2nd Herzliya
Symposium on Developmental
Psychobiology. Herzliya, Israel.

Early Experiences and Neurobehavioral Development: Studies of Children Adopted from
Orphanages. (Oct, 2010). Ricciuti
Lecture in the Department of Human Development, Cornell University.

Early Experiences and Neurobehavioral Development: Studies of Children Adopted from
Orphanages. (Dec, 2010).

Neuroscience and Cognitive Science Program, University of Maryland at College Park

Early Experiences and Neuroendocrine Regulation. (Dec, 2010). Inaugural Symposium. Basic Behavioral and Social Science Opportunity Network (OppNET). National Institutes of Health.

Early Abuse, Neglect and Stress Biology. (April, 2011). Harris Forum, University of Minnesota.

Early Life Stress and Development: Studies of Children Adopted Internationally from Orphanages. (Nov, 2011). Bloom Lecture, Pennsylvania State University.

The Development and Social Regulation of the HPA Axis. (September, 2011). University of Geneva, Lemanic Perinatal Research Consortium, Swiss National Science Foundation.

Early Experience and Neurobehavioral Development. (September, 2011). University of Lausanne, Lemanic Perinatal Research Consortium, Swiss National Science Foundation.

The Developmental Effects of Early Adversity: Adaptation or Impairment? (Dec, 2011). Biological Embedding of Early Social Adversity: From Fruit flies to Kindergartners. Arthur M. Sackler Colloquia of the National Academy of Sciences.

Dozier, M., Fisher, P. & Gunnar, M.R. (Jan, 2012). The neurobiology of neglect. In Petersen, A. (Organizer). Child Maltreatment Research, Policy and Practice for the Next Generation: A Workshop. Board of Children, Youth and Families. Institute of Medicine and National Academy of Science.

Why and How to Measure the Hypothalamic-Pituitary-Adrenocortical System in At Risk Children (March, 2012). Administration on Children and Families Meeting on Stress, Neurodevelopment, and Programs that Promote the Well-Being of Children and Families: Early Childhood. Washington, DC

Inequalities in Early Experience and Toxic Stress. (June, 2012). Plenary Talk. Head Start 11th National Research Conference: Effective Practices in an Age of Diversity and Change. Administration on Children and Families. Washington, DC.

Stress and the Adolescent Brain (November, 2012). Congress: "Juegd op Drift" The Teenage Brain. Domstad Meeting

Center, Jaarbeurs, Utrecht, Netherlands.

Stress and Stress Regulation in Early Development. (April, 2013). Edward Zigler Policy Preconference on *The First Thousand Days—Setting the Foundation*. Seattle, WA.

Early Adverse Experiences and the HPA axis. (May, 2013). Pediatric Academic Societies. State of the Art Symposium.

Early life stress: Basic research on common pathways to multiple physical and mental health outcomes. (May, 2013).
Society for Prevention Research. Invited Plenary on Common Pathways to and Impact on Disease Prevention and Health Promotion.

Stress, Relationships and Development. (September, 2013). Symposium on Stress and Development. Free University of Amsterdam.

Stress, Relationships and Development. (September, 2013). Colloquium, Leiden University, Netherlands

Stress, Relationships and Development. (November, 2013). Invited talk, Festschrift Celebrating 90 Years of Developmental Psychology at the University of Vienna, Vienna, Austria.

Early Experience, Stress and Human Development (February, 2014). Grand Rounds, Child Study Center, New York University, New York, NY

The neurobiology of stress. (May, 2014). Pediatric Neuropsychology Symposium. University College, London.

Relationships and Stress Buffering Across Development. (May, 2014). University of Chicago Social Services Administration Workshop. Chicago, Illinois.

Early Deprivation Effects on Factors Affecting Decision-Making in Children and Adolescents (Sept, 2014). Socioeconomic Determinants of Health, University of Edinburgh, Edinburgh, Scotland.

Social Buffering and Human Development (Oct, 2014). University of British Columbia, Vancouver, BC.

Early Adversity and Neurobehavioral Development (Sept, 2014). 24th Annual Practical Pediatrics for the Primary Care Physician, Children's Hospitals and Clinics, St. Paul, Mn.

The Social Buffering of the Hypothalamic-Pituitary-Adrenal (HPA) Axis in Humans: Developmental and Experiential

Determinants (Nov 14, 2015). Symposium: Society for Social Neuroscience. Washington DC.

Early Life Stress: Research on Internationally Adopted Children (Jan, 2015). CONTE Center, UC Irvine, CA.

Stress and Peer Relationships. (March, 2015). Peer Preconference. Society for Research in Child Development.

Philadelphia, PA.

Early Development and Human Development: Risk and Resilience. (August, 2015). Plenary Talk to the Developmental

Psychology Division of the German Psychological Association. Frankfurt, Germany.

Effects of Early Life Stress on Brain and Behavioral Development (Sept, 2016). Plenary Address, International Society for

Psychoneuroendocrinology, Edinburgh, Scotland.

Stress, Early Experiences and Development. (Oct, 2015). Plenary talk to the Australian MARCE Society. Adelaide,

Australia.

Stress and Neurobehavioral Development. (Oct, 2015). Grand Rounds. Neuropsychological Institute. Melbourne, Australia.

The Protective Role of Relationships in Stress Regulation and Brain Development (April, 2016). Brown University.

The Role of Relationships in Stress and Human Development. (May, 2016). University of Calgary, Calgary, Canada

The Developmental Correlates of Early Deprivation: Studies of Orphanage-Adopted Children. (Dec, 2016). Human Capital

Research Consortium, University of Minnesota.

Stress and Development: Recalibration? (2017). NIA Reversibility Meeting. Rockefeller University.

Effects of Early Life Stress on HPA axis and Self-Regulation. (Oct, 2017). Association for Applied Psychology,

Washington, Dc.

The Role of Relationships in Stress Regulation and Brain Development (February, 2018). University of Denver, Psychology

Colloquium.

Effects of Early Stress and Adverse Care on Brain Development. (March 2018). Infant Mental Health Training Institute.

Hospital for Sick Kids, Toronto, CA.

Early Life Stress and Human Development (May, 2018). APA Master Lecture, San Francisco, CA.

Social Regulation of Stress in Human Development (Nov, 2018). Radboud University

Social Regulation of Stress in Human Development (Feb, 2019). Boston University, Psychology Department Colloquium.

Community Outreach Presentations

Infant neuroendocrine responses to stressors. (1996, April). Harris Foundation: Early Childhood Series, Chicago.

Invited Workshop on the “critical” period of brain development. (October, 1996). Organized by American Health Foundation and co-sponsored by the Office of Behavioral and Social Sciences Research, NIH, National Institute of Mental Health, National Institute of Child Health and Human Development, Shape-Up America! Campaign, and the Johnson and Johnson Company. Washington, D.C.

Quality of care and the buffering of stress physiology: Its role in protecting the developing human brain. (1996, December). Plenary Symposium on Early Brain Development. 11th National Training Institute of Zero to Three, Washington, D.C.

The role of secure emotional relationships in the regulation of stress hormones. (1997, February). A Review of the Post-Institutionalized child: Past, Present and Future, a conference presented by The Parent Network for the Post-Institutionalized Child and Uniting Families Foundation, Itasca, IL.

The impact of stress in children. (1997, February). Board Breakfast Series: Resources for Child Caring, St. Paul, MN.

Stress psychobiology in children: The role of caregiving in buffering stress reactions. (1997, May). Frontiers in Early Childhood Development: An Exploration of the Developing Brain, a conference presented by the Erikson Institute and the Early Childhood Faculty Development Project on the Brain. Chicago, IL.

Quality of care in buffering the developing brain from stress. (1997, May). Second Annual Healthy Families Missouri Conference, Columbia, MO.

The effect of stress on brain development of young children. (1997, October). Plenary speaker at the Heritage Society Lecture for the Washburn Child Guidance Center, Minneapolis, MN.

Stress psychobiology in children: The role of caregiving in buffering stress reactions. (1997, October). Keynote speaker for Healing Ourselves, Healing Our Communities: Minnesota Association for the Education of Young Children, Minneapolis, MN.

What do early childhood educators and interventionists need to know about neuroscience? (1997, December). Plenary speaker at the Zero to Three's Twelfth National Training Institute, Nashville, TN.

Frontiers of science: Stress and coping during infancy. (1997, December). Presentation at the Zero to Three's Twelfth National Training Institute, Nashville, TN.

What's going on in a baby's brain? What should we do about it? (1998, January). Program presentation for Twin City Home and Community section of American Association of Family and Consumer Sciences, Bloomington, MN.

Stress and brain development in young children. (1998, January). Presentation at Project Dakota Outreach Retreat on Stress, Coping and Resilience, Eagan, MN.

Gunnar, M. R. & Nelson, C. A. (1998, February). Shaping forces in brain development. Presentation at the Minneapolis Branch of the American Association of University Women, ongoing series: What's New in the World of Science, Minneapolis, MN.

Stress and Brain Development. (1998, May). Plenary presentation at the Michigan Association for Infant Mental Health conference "Infant-Caregiver Relationships: Broadening Our Perspectives", Ann Arbor, Michigan.

What you need to know about the brain, infant development and stress. (1998, June). Presentation at the Infant Mental Health Promotion Project conference: "Biology and Behavior: Caregiving Influences", Toronto, Ontario.

Overview of the latest brain research. (1998, August). Keynote presentation at the workshop "Early brain research: Implications for practice with infants and young children with disabilities", held by Minnesota's Early Intervention Institute, Collegeville, MN.

Brain development and early childhood care. (1998, September). Minnesota Early Care & Education Finance Commission, St. Paul, MN.

Mozart or The Muppets?: Translating research on early brain development. (1998, October). Invited workshop for Grantmakers for Children, Youth and Families, Indianapolis, IN.

The biology of emotional regulation. (1998, December). Invited presentation to the 13th National Training Institute, Zero to Three, Washington, DC.

Stress and brain development. (1999, February). Workshop presented to the East Metro Occupational Therapy & Physical Therapy Association, St. Paul, MN.

- Nelson, C. A. & Gunnar, M. R. (1999, September). What to say, to whom, and how much: The researcher's dilemma. Colloquium presentation to the Institute of Child Development Bag Lunch, University of Minnesota, Minneapolis, MN.
- The impact of stress on children and families. (1999, October). Invited presentation to Minneapolis Early Childhood Family Education, Minneapolis, MN.
- Developmentally Appropriate Practice: Light years beyond the "New Neuroscience". (2000, April). Keynote speaker for the Erikson Institute Symposium, "Developmentally Appropriate Practice and the Brain", Chicago, IL.
- Effects of early stress on development. (2001, February). Plenary speaker for the Minnesota Department of Human Services sponsored Time for Effective Action on the Maltreatment of Minors Conference, Alexandria, MN.
- Stress: It's impact on child development. (2001, April). Invited speaker to the Resources for Child Caring Board Breakfast Series, St. Paul, MN.
- Key findings and policy recommendations from Neurons to Neighborhoods. (2001, April). Keynote address to the All Our Kids: Birth to Three Network Conference *Changing the Way We Care for Young Children*. Springfield, IL.
- Brain research in children. (2001, November). Invited speaker to the Resources for Child Caring, St. Paul, MN.
- What Early Educators Need to Know about Brain Development. (2001, October). Resources for Child Caring, St. Paul, MN.
- Stress and Child Development. (2002, January). Eden Prairie Schools: Parent Education Series, Eden Prairie, MN.
- Nature or Nurture: A Misguided Debate. (2001, January). Invited speaker at the Children, Youth & Family Consortiums 10th Anniversary Celebration, Minneapolis, MN.
- Relationships as Regulators of Stress in Early Development. (2002, March). Johnson Lecturer. Macalester College, St. Paul, MN.
- Preliminary Results from the International Adoption Project Survey as Pertaining to Children from Korea. (2002, June 18). Korean Culture Camp. Rochester, MN.
- Preliminary Results from the International Adoption Project Survey as Pertaining to Children from Eastern Europe. (2002, June 22). Celebrate Adoption Camp,

Onamia, MN.

Preliminary Results from the International Adoption Survey Project as Pertaining to Children from Korea. (2002, July 2). Camp Choson, Hudson, WI.

Preliminary Results from the International Adoption Project Survey as Pertaining to Children from Vietnam. (2002, July 28). Vietnam Culture Camp, Northfield, MN.

Presentation of Preliminary Results of the International Adoption Project to adoptive adults, adoptive parents and adoption professionals. (2002, July 28). KAAN Conference, Minneapolis, MN.

Presentation of Preliminary Results of the International Adoption Project to DHS staff. (2002, August). Minnesota Department of Human Services/Adoption and Guardianship Unit, St. Paul, MN.

What do early childhood educators need to know about brain development. (2002, August). In service training for directors of Children's World Learning Centers. Roseville, MN.

Preliminary Results from the International Adoption Project Survey as Pertaining to Children from Bulgaria and Romania. (2002, September 6). Bulgarian/Romanian Parent Support Group, St. Paul, MN.

Preliminary Results from the International Adoption Project Survey as Pertaining to Children from All Countries. (2002, September 23). Public Presentation, Edina, MN.

Quality of care and stress in young children. (2002, October 20). Invited presentation to directors of Children's World Learning Centers, St. Paul, MN.

Preliminary Results from the International Adoption Project Survey as Pertaining to Children from India. (2002, October 26). Parents of Indian Children, St. Paul, MN.

Quality of care and stress in young children. (2002, November). Keynote presentation for the A.H. Wilder Foundation 13th Annual Family Child Care Provider Conference, St. Paul, MN.

Decision making in tough budget times. (2003, January 30). Panel member, Capitol Conversations. St. Paul, MN.

Stress and the Developing Brain. (2003, February). Oregon Museum of Science and Industry, Portland, Oregon.

What do early childhood educators need to know about brain development? (2003, February 17). Invited in-service training presentation to teachers at Children's World Learning Centers, St. Paul, MN.

Physiology of stress and its regulation by social relationships. (2003, November). American Psychology Association speaker at the Association of Science-Technology Center, Science Museum of Minnesota, St. Paul, MN.

Invited guest to the conference, "The Economics of Early Childhood Development: Lessons for Economic Policy" co-hosted by the Federal Reserve Bank of Minneapolis and the McKnight Foundation in cooperation with the University of Minnesota, Minneapolis, MN. (2004).

Getting the brain ready for kindergarten. (2004, April 28). Public policy task force meeting, Minnesota School Readiness Business Advisory Council, Cargill Office Building, Minnetonka, MN.

Keynote address. From Neurons to Neighborhoods: The Science of Early Child Development. (2004, April 29). Early Childhood Education Administrators Conference. The Minnesota Department of Education, St. Cloud Civic Center, St. Cloud, Minnesota.

Stress, early experience & brain development: Implications for infant mental health. (2004, October 21). Keynote address to the Florida Association for Infant Mental Health. Coral Gables, Florida.

Early brain development. (2005, January 21). Northeast Minneapolis Child Development Center, Crystal, Minnesota.

Development of children adopted from China. (2005, March 7). Presentation to Parents of Children From China. Edina Community Center, Edina Minnesota.

Stress, early experience, and development. (2005, March 21.) Workshop presentation to the Minnesota Early Childhood Development Conference, Seize the Opportunity: Invest in Young Children.

Neurons to neighborhoods: Early experience and brain development. (April 15, 2005). Midwest Association for the Education of Young Children. Minneapolis Convention Center, Minneapolis Minnesota.

Stress and the preschool child: The importance of social relationships. (April 15, 2005). Midwest Association for the Education of Young Children. Minneapolis Convention Center, Minneapolis Minnesota.

The International Adoption Project: Research on children adopted from orphanages. (2006, April 3). Invited presentation to International Pizza and Talk Group, University of Minnesota, Minneapolis, MN.

Brain Development Basics for Early Childhood Practitioners (2006, November). Invited presentation for U. Connects Program in SW Minnesota., Lamberton, MN.

Stress and Early Brain Development: What Early Childhood Practitioners Need to Know. Invited presentation for U. Connects Program in SW Minnesota. Lamberton, MN.

Early experience and brain development. (2006, September). Presentation to the Minnesota Early Learning Foundation. Minneapolis, MN.

The science of early child development. (2006, Dec). Presentation to Ready4K breakfast with business leaders. Minneapolis, MN.

The science of early child development. (2007, March). Family Services Collaborative. Presentation organized by Ready4K. Maple Grove, MN

Stress and child development. (2007, March). The 2007 State FACS conference. Richfield, MN.

Stress and Development: Day-long workshops delivered in Wellington, Christchurch and Auckland, New Zealand. May, 2008. Centre for Attachment, Hamilton, New Zealand.

The Impact of Early Adversity on Brain Development. Presentation at the National Symposium on Early Childhood Science and Policy. National Scientific Council for the Developing Child. Boston, June 27, 2008.

The Impact of Early Adversity on Brain Development. Osher Life Long Learning Institute. University of Minnesota, January 12, 2009. Presentation of work by the National Scientific Council for the Developing Brain.

The development of post-institutionalized children. (Sept, 2009). Practical Pediatrics. Children's Hospital and Clinics. St Paul, Minnesota

Science of Child Development: Closing the Gap between What We Know and What We Do (Nov, 2009). Legislative Leadership Institute on Child Development Research and Policy. Sponsored by Minnesota Community Foundation.

Chaska, MN.

Policies that Work: Building on Evidence and Success (Nov, 2009). Legislative Leadership Institute on Child Development Research and Policy. Sponsored by Minnesota Community Foundation. Chaska, MN.

The Impact of Early Adversity on Brain Development (Nov, 2009). Through the Eyes of a Child: A Multidisciplinary Approach to Child Advocacy. Sponsored by Wisconsin Supreme Court and UW-Extension. Wisconsin Dells, WI.

Toxic Stress and the Power of Relationships (Nov, 2009). Through the Eyes of a Child: A Multidisciplinary Approach to Child Advocacy. Sponsored by Wisconsin Supreme Court and UW-Extension. Wisconsin Dells, WI.

Neuroscience and the Roots of Human Capital Development (Nov, 2009). Ready-4-K Fundraising Dinner. Minneapolis Club, Minneapolis, MN.

The science of early childhood development: Toxic Stress. (Jan, 2010). Symposium: Applying the Science of Early Childhood Development to State Policy. Sponsored by: Casey Foundation, Thrive by Five Washington, and National Conference of State Legislators. Seattle, WA.

Science of Child Development: Closing the Gap between What We Know and What We Do (Jan, 2010). Legislative Leadership Institute Followup. Sponsored by Minnesota Community Foundation. University Club, St. Paul, MN.

Policies that Work: Building on Evidence and Success (Jan, 2010). Legislative Leadership Institute Follow-up. Sponsored by Minnesota Community Foundation. University Club, St. Paul, MN.

Stress and Early Development (Jan, 2010). Pod-Cast: Good-Enough Moms.

The Effects of Toxic Stress on Brain Development and Health. (April, 2010). Keynote address to the Annual Conference of the Minnesota Association of Family and Early Educators, St Cloud, MN.

Science of Child Development: Closing the Gap between What We Know and What We Do (May, 2010). South Dakota

Legislative Leadership Institute on Child Development Research and Policy.
Sponsored by CSG Midwest and
Minnesota Community Foundation. Chamberlain, South Dakota.

The Effects of Toxic Stress on Brain Development and Health. (June, 2010). Keynote
address to Early Childhood Funders Network Nancy Latimer Convening Event.
Wilder Foundation, St. Paul, MN.

Panel member and highlighted in video on Evidence-based Early Home visiting.
Legislative Briefing: Early Volunatry Home Visiting, Sept, 2010 (Ridgedale
Library). Sponsored by Metro Alliance for Healthy Families.

Toxic Stress and the Developing Brain. (Dec, 2010). Presentation sponsored by the
Hennepin County Public Health and Human Services Department, Hennepin
County Government Center Auditorium.

Understanding the Science of Child Development (Jan, 2011). Presentation for the Strong
Foundations: Minnesota's Birth to
Three Conference for Healthy Development. Sponsored by Center for Early
Education and Development, University
of Minnesota, Alexandria, Mn.

Toxic Stress and the Developing Brain (May, 2011) at the Minnesota Statewide
Conference on Traumatic Stress in Children and Families. St.Paul Campus,
University of Minnesota. Sponsored by the AMBIT network.

Toxic Stress and the Developing Brain. (Aug, 2011). Back to School Workshop 2011. Roseville Area
Schools, Roseville
Area High School.

Science of Child Development: Closing the Gap between What We Know and What We
Do (Sept, 2011). North Dakota
Legislative Leadership Institute on Child Development Research and Policy.
Sponsored by CSG Midwest and
Minnesota Community Foundation. Bismarck, North Dakota.

Science of Child Development: Closing the Gap between What We Know and What We
Do. (Oct 26, 2011). Minnesota
Administors for Special Education (MASE) Fall Leadership Conference. "Brain
Connections...Neuroscience and
Special Education Leadership. Craguns Resort/Conference Center, Brainerd
Minnesota.

Science of Child Development: Closing the Gap between What We Know and What We

Do (Nov, 2011). 2nd Minnesota House and Senate Legislative Leadership Institute on Child Development Research and Policy. Sponsored by Minnesota Community Foundation. Chaska, MN.

Effects of early adverse care on the brain and behavior: stress neurobiology and development (Dec, 2012). Sexual Violence Conference. Science Museum of Minnesota.

Science of Child Development: Closing the Gap between What We Know and What We Do (Jan, 2012). Strong Foundation Pre-Conference on Early Experience and Child Development, Alexandria, Mn.

Science of Child Development: Closing the Gap between What We Know and What We Do (Mar, 2012). St. David's Center, International Market Square, Minneapolis, Mn.

Science of Child Development: Closing the Gap between What We Know and What We Do (May, 2012). Mind-Stretch Group. St. Paul Minnesota (Malcolm McDonald, sponsor)

Science of Child Development: Closing the Gap between What We Know and What We Do. (May 11, 2012). African-American Convening. Northwest Area Foundation, St. Paul, Mn

Science of Child Development: Closing the Gap between What We Know and What We Do (May, 2012). Talk at Wilder Foundation for Project for Babies and CEHD sponsored symposium (Jane Kretzman, Sponsor).

Science of Child Development: Closing the Gap between What We Know and What We Do. (Sept 19, 2012). Bethel Family Foundation (Low Income parents) Mt. Olivet Baptist Church, St. Paul, MN

The Effects of Toxic Stress on Brain Development and Health. (March 1, 2013). Cornerstone Annual Conference 2013 on Domestic Violence and Abuse. Bloomington, Minnesota.

Science of Child Development: Closing the Gap between What We Know and What We Do 2.0 (Feb, 2014). Legislative Leadership Institute on Child Development Research and Policy. St Paul, Minnesota.

Early Experience and the Development of Brain Architecture (May, 2014). East Metro Unified School District, Ramsey

County (St. Paul), Minnesota.

Stress, Relationships and Development: What we know and what we still need to learn. (July, 2014). Rotary Club of Minneapolis.

Toxic Stress and Children's Brain Development. (Nov 19, 2014). Healthy States Presents: Toxic Stress and Early Childhood. MPR's UBS Forum, 480 Cedar St, St. Paul

Science of Child Development: Closing the Gap between What We Know and What We Do (Dec 11, 2014). St. David's Center *Investing in the Early Years: THE SCIENCE OF BRAIN DEVELOPMENT AND THE IMPORTANCE OF RELATIONSHIPS*. Minneapolis, Mn.

Science of Child Development: Closing the Gap between What We Know and What We Do (Dec 12, 2014). St. David's Center *THE NEUROSCIENCE OF CHILDHOOD STRESS AND APPLICATIONS THAT FOSTER RESILIENCY*. Plymouth, Mn.

Science of Child Development: Closing the Gap between What We Know and What We Do (Jan, 2015). National Association of Social Workers: Minnesota Chapter. Children's Home Society, St. Paul, Mn

Animal research: what's at stake. (March 2015). Briefing by the American Psychological Association to the US House of Representatives, Washington, DC.

The Importance of Relationships for Human Brain Development (April, 2015). Christian Alliance for Orphans. Research to Practice Workshop. Hendersonville, Tn.

Early Experience and Brain Development (Feb, 2016). Mn ED Talks. Minneapolis, Mn.

Toxic Stress and the Story of Human Development. (May, 2016). Children's Hospitals and Clinics of Minnesota.

STEEP: 30 Years of Building Healthy Parent-Child Relationships (June 2016). Thirtieth Anniversary of Step for Enjoyable and Effective Parenting, University of Minnesota.

Supporting Healthy Brain Development (Oct 2016). Development in Indian Country Symposium. Federal Reserve Bank of Minneapolis, Minneapolis, Mn.

Early experience and brain development. PreK-3 Principals Leadership Series. Minnesota Department of Education. Oct 30, 2017.

Building Brain Architecture in Early Development. Pre-3 Forum. Oct 25, 2017

Early Experience, Brain Development and Resilience. Interfaith Action Network of St Paul, Mn. January 18, 2018.

Early experience and brain development. PreK-3 Principals Leadership Series. Minnesota Department of Education. Oct 2018.

Early experience and brain development. PreK-3 Principals Leadership Series. Minnesota Department of Education. Oct 2019.

Early experience and brain development. (Nov, 2019). People Serving People, Fundraiser.

Conference Presentations
(No longer tracked)

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