Curriculum Vitae

Linda Carol Mayes, M.D.

Yale Child Study Center

Yale University School of Medicine

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**Education**

University of the South B.A. 1969-1973

Sewanee, Tennessee Chemistry

Vanderbilt University History 1973-1974

Graduate School

Nashville, Tennessee

Vanderbilt University M.D. 1973-1977

School of Medicine

Nashville, Tennessee

**Professional Training**

Intern in Pediatrics 1977-1978

Vanderbilt University

School of Medicine

Nashville, Tennessee

Resident in Pediatrics 1978-1980

Vanderbilt University

Fellow in Neonatology 1980-1982

Vanderbilt University

Fellow in Robert Wood Johnson 1982-1984

General Academic Pediatrics Program

Yale University

New Haven, Connecticut

Candidate, Western New England 1986-2000

Institute for Psychoanalysis

New Haven, Connecticut

(Completed adult psychoanalytic training 1998)

(Completed child psychoanalytic training 2000)

**Professional Appointments**

Research Fellow in Pediatrics 1984-1985

Yale Child Study Center

Fellow to the National Center 1984-1985

for Clinical Infant Programs

from Yale University

Assistant Professor 1985-1989

Yale Child Study Center

Elizabeth Mears and House Jameson Assistant 1989-1990

Professor of Child Development in the

Yale Child Study Center

Elizabeth Mears and House Jameson Associate 1990

Professor of Child Development in the

Yale Child Study Center

Arnold Gesell Associate Professor of Child 1991-1996

Development and Pediatrics in the Yale Child

Study Center

Joint Appointment in the Yale University 1993-

Department of Psychology

Arnold Gesell Associate Professor of Child 1996-

Psychiatry, Pediatrics, and Psychology without term

In the Yale Child Study Center

Arnold Gesell Professor of Child Psychiatry,

Pediatrics and Psychology

Yale Child Study Center 2002-

Directorial Team, Anna Freud Centre, London 2003-2013

(Chairman of the Directorial Team and of the

Anna Freud Centre Program at the Child Study Center)

Adjunct Professor

University of Connecticut 2006-2010

Professor in Epidemiology and Public Health,

Yale University, School of Medicine 2007-2010

Special Advisor to the Dean 2007-

Yale University School of Medicine

Distinguished Visiting Professor in Psychology

Sewanee: The University of the South 2013-

Deputy Chair, Faculty Affairs, Yale Child Study Center 2012-2014

Interim Chair, Yale Child Study Center 2014-

**Departmental Administrative Responsibilities**

Coordinator, Early Childhood Section 1996-

Yale Child Study Center

Co-director, Preterm Infant Developmental 1996-2004

Follow-up Program; Site PI for multi-site research

program (in collaboration with the Division of

Neonatology, Department of Pediatrics,

Yale School of Medicine)

Co-director, Yale Child Study Center Early 1997-2004

Childhood Education Consortium

Director, Developmental Electrophysiology Core

Laboratory Resources 2007--

Coordinator, Psychodynamic Research Training

Program 2002 --

Coordinator, Yale-University College London

Masters Program in Developmental Psychopathology

And Neuroscience 2006—

**Awards, Honorary Societies**

University of the South 1969-1973

Summa cum laude with honors in chemistry

Senior award in chemistry

Wilkins Scholar

Phi Beta Kappa

Valedictorian

Vanderbilt Medical School 1973-1977

Alpha Omega Alpha

Amos Christie Award in Pediatrics

Yale University School of Medicine 1984-1985

James Hudson Brown--Alexander

Coxe Research Award

Sigma Xi 1985

Research and Teaching Award 1985

Ambulatory Pediatrics Association

Plenary Session of Spring Meeting

Washington, D.C.

Johnson and Johnson Advanced Pediatric 1984-1986

Research Award

William T. Grant Faculty Scholar's Award 1986-1991

Doctor of Science (*honoris causa*) October, 1994

University of the South

Heinz Hartmann Award, New York November, 1999

Psychoanalytic Association

**National and International Boards, Committees, Consultative Positions**

Adjunct Scientist, National Institute of 1990- 1994

Child Health and Human Development

Special Review Committee, National Institute 1992-1998

on Drug Abuse

American Psychoanalytic Association Committee 1994-1998

on Child Analysis

Special Advisory Committee to the Vice-Chancellor

University of the South, Sewanee, Tennessee

(Chairman of Committee 1999-) 1996-2001, 2004-2007

American Psychoanalytic Association Committee 1997-2000

on Scientific Activities

American Psychoanalytic Association Fund for

Psychoanalytic Research (chairman 2000- ) 1999-2005

Member of NIH Human Development (HUDIII)

Study Section 1998-2001

Science Advisor, American Psychoanalytic Association 2004- 2006

National Scientific Council on the Developing Child 2009-

President, Psychodynamic/Psychoanalytic Research

Society 2009-

National Institute on Drug Abuse, Advisory Council 2010-2013

**Local Boards, Committees, Consultative Positions**

Children's Clinical Research Center 1987-1990

Yale University School of Medicine

Fellow to Morse College, Yale University 1990-

Board of the Gesell Institute 1991-2000

Special Commission on Infant Health 1992-1996

City of New Haven, CT

Board of the Gardiner Seminar on Humanities

And Psychoanalysis, New Haven, CT 1998-2009

Faculty, Western New England Institute for

Psychoanalysis, New Haven, CT 2001-

**University and School of Medicine Committees**

Fellow, Bush Center on Social Policy

Yale University 1994-

Special Committee on Status of Clinical Research

Yale School of Medicine (Ralph Horwitz, M.D. Chair) 1996

Appointments and Promotions Committee

Yale University School of Medicine 1999-2001

Search Committee for Chairman of Pediatrics

Yale University School of Medicine 2000-2001

Dean’s Committee on the Clinician-Educator

Track 2001

Senior Faculty Allotment Committee

Yale School of Medicine 2002-2004

Strategic Planning Committee for Yale University

School of Medicine: Clinical and Population Based

Research 2005

Advisory Committee for Robert Wood Johnson

Clinical Scholars Program, Yale University School

of Medicine 2005-2014

Provost’s Committee of Faculty Professional

Conduct Standards, Yale University 2014-

**Professional Organizations** **Year Began Participation**

Ambulatory Pediatric Association 1984

Society for Research in Child Development 1986

World Association for Infant Psychiatry 1987

American Psychoanalytic Association 1989

Connecticut Council of Child Psychiatrists 1992

Neurobehavioral Teratology Society 1998

Cognitive Neuroscience Society 2000

Association of Child and Adolescent Psychiatry 2002

**Ad Hoc Reviewer Responsibilities**

American Journal of Diseases of Children

American Journal of Obstetrics and Gynecology

American Journal of Psychiatry

Biological Psychiatry

Child Development

Development and Psychopathology

Journal of the American Medical Association

Journal of Child & Adolescent Psychiatry

Journal of Pediatrics

Journal of the American Psychoanalytic Association

Journal of Behavioral and Developmental Pediatrics

Journal of Pediatric Psychology

Journal of Psychology and Psychiatry

Infancy

Infant Behavior and Development

International Journal of Psychoanalysis

New England Journal of Medicine

Neurotoxicology and Teratology

Parenting: Science and Practice

Pediatrics

Psychoanalytic Psychology

Psychopharmacology

**Editorial Boards**

Journal of the American Psychoanalytic Association 2001-2004

Psychoanalytic Study of the Child 2002-

Infants and Young Children 2004—2009

Psychology of Violence 2011--

**Visiting Scholar and Professor Appointments**

Visiting Scholar, Menninger Clinic, February 2001

Visiting Professor, University College London, August 2001— 2012

Visiting Professor, University of Minnesota, Harris Program May 2006

Visiting Professor, Michigan Psychoanalytic Institute, April 2008

**Past and Current Grant Support**

**Past**

1984-1986 Johnson and Johnson Advanced Pediatric Research Award

1985-1986 NIMH research training award: "Infant Crying and the Relation to Early Social Development"

1986-1991 William T. Grant Faculty Scholar's Award

1990-1992 March of Dimes Birth Defects Foundation: "Effects of Prenatal Cocaine Exposure on Attentional Regulatory Mechanisms" (Principal Investigator)

1990-1992 Smith Richardson Foundation: "A Longitudinal Study of the Developmental Outcome of Infants Exposed to Cocaine in Utero" (Principal Investigator)

1990-1992 Robert Wood Johnson Foundation: "Longterm Effects of Prenatal Cocaine

Exposure" (Principal Investigator)

1990-1995 National Institute on Child Health and Human Development: "Development and Implementation of a Plan to Assess the Neurodevelopment of Infants and Children Exposed to Drugs in Utero" (A national multi-site collaborative study of the effects of cocaine exposure on development. Served as consultant for development of measures and assessment of infant attention)

1992-1996 RO1 PHS: PI: Paul McCarthy “Mother-child Interaction and Clinical Judgement” 10% effort involved in overseeing assessment of parent-child interactions

1992-1997 RO1 National Institute on Drug Abuse: "Longterm Effects of Prenatal Cocaine Exposure" (Principal Investigator)

1994-1999 KO2 National Institute on Drug Abuse: PI: **L.C. Mayes** "Attention regulation among infants exposed prenatally to cocaine"

1985-2001 NIMH: PI: James Leckman. “Training Program in Childhood Neuropsychiatric Disorders” T32-MH18268 Member of the faculty. No funded support because concurrent with KO2 award

2001-2002 Maternal & Child Health Bureau: PI: **L.C. Mayes** “A COR Group in Psychosocial/Developmental Pediatrics”. 009133; 5% effort but no funded support because concurrent with KO2 award

1998-2001: CT Department of Children and Families: PI: Paula Armbruster “Child Guidance Clinic”. Member of faculty; 10% effort; funding for activities in early childhood programs

1997-2002 National Institute on Drug Abuse: Principal Investigator: **L.C. Mayes** “Regulation of Attention and Arousal in Preschool Children Exposed Prenatally to Cocaine.” R01-DA06025; $478,263.00 total direct costs; 25% effort

1999-2003  NINDS 1RO1NS32624-06 Principal Investigator: Scott Rivkees

"Developing Circadian Rhythmicity" Direct costs $208,917/year; 5% effort but no funded support because concurrent with KO2 award; Follow-up of infants through Child Study Center laboratories

2001-2003 March of Dimes 12-FY01-300: Principal Investigator: Tim Oberlander (University of British Columbia) "Behavioural and developmental outcomes in infants with prenatal psychotropic medication exposure" $73,616 Direct costs year 1; 5% effort on Yale subcontract

2000-2004 National Institute on Drug Abuse: Principal Investigator: **L.C. Mayes** "Arousal regulatory mechanisms in prenatal cocaine exposure"--K02 (Career Development Award) K02-DA00222; $91,556.00 year 1; 75% effort

2002-2004 Pfizer, Inc.: Principal Investigator: **L.C. Mayes** “ Collaboration to develop a novel neuropsychological test battery for children” Total Direct Costs:  $17,291

2000-2005: NICHD: PI: Fred Volkmar “Mental Retardation and Developmental Psychopathology”. Principal investigator on project within the program project. P01-HD03008. 15% effort; funding to support research in ongoing longitudinal cohort of high-risk families

2001-2005 Pfizer, Inc.: Principal Investigator: **L.C. Mayes** “Normative Data Agreement for Maze Learning Test” Total Direct Costs: $26,087

2004-2005 National Institute on Drug Abuse: Principal Investigator: Lindsey Devane, M.D., Medical University of South Carolina (Subcontract to Yale with **L.C. Mayes** as P.I. on subcontract) “Pharmacogenetics of Methadone in Pregnancy.” RO1 DA013027; $30,000 total direct costs

2004-2006 : NIH Principal Investigator : Lois Sadler “Home Visiting with High Risk Teen Mothers”  1P30NR08999-01 $1,250,000 Total costs; 3% effort

2001-2006 Harris Foundation: Principal Investigator: **L.C. Mayes** “Perinatal interventions for parents at increased risk for depression and related affective disorders” $400,000 yearly direct costs. 20% effort

2002-2007 National Institute on Drug Abuse: Principal Investigator: **L.C. Mayes** “Regulation of Attention and Arousal in Preschool Children Exposed Prenatally to Cocaine.” R01-DA06025; $550,000 year one direct costs; 25% effort

2003-2005 NIH: Principal Investigator: John Leventhal “Promoting child development: Yale-Ankara Collaboration”. 5R21TW006678; 5% effort as co-investigator

1999-2008 NICHD Principal Investigator: Zeev Kain: “Psychological Influences on Postoperative Recovery”: R01 HD037007 $280,364 year end direct costs, 10% effort

2004-2005 NIH Principal Investigator: **L.C. Mayes** “256 Channel Geodesic EEG  
System” S10 RR019258; $257,000 total costs (equipment grant)

2004-2009 NIDA Principal Investigator: Nancy Suchman “Fostering Mothers’ Emotionally Responsive Parenting” R01 DA017294 $200,000 direct costs per year; 5% effort as co-investigator

2004-2009 NIDA Principal Investigator: Kimberly Yonkers “Psychosocial Research to Improve Drug Treatment in Pregnancy” RO1 HD045735 $388,116 year one direct costs; 5% effort as co-investigator

2004-2009 NIDA Principal Investigator: **L.C. Mayes “**Cocaine-Exposed Children & ERP Studies in Neurocognition” R01 DA017863 $250,000 year one direct costs 10% effort

2005-2008 The Donaghue Medical Research Foundation Principal Investigator: **L.C. Mayes “**Minding the Baby: Home Visiting for Young Parents” 05-021 $66,363 year one direct costs 10% effort

1992-2008 NIDA Principal Investigator: **L.C. Mayes** “Arousal and Attention in Cocaine-Exposed Children” R01 DA006025 $425,843 year one direct costs 10% effort

2005-2010 NIDA Principal Investigator: **L.C. Mayes** "Cortical Maturation and ERP in Cocaine-Exposed Children” K05 DA020091 $117,000 year one direct costs 75% effort

2005-2010 NICHD Principal Investigator: **L.C. Mayes “**Neurocognitive Development in Children Living in Poverty” R01 HD044796 $391,510 year one direct costs 5% effort

2007-2012 NIH Principal Investigator: Rajita Sinha: “Interdisciplinary Research Consortium on Stress, Self Control & Addiction” Hilary Blumberg and **L.C. Mayes**, PI and Co-PI for “Chronic Trauma and Stress Reactivity” $150,000; 5% effort as CoPI

2007-2010 March of Dimes Principal Investigator C.N. Epperson “Effectiveness of Cognitive Processing Therapy in Reducing Post-traumatic Symptoms and Enhancing Birth Outcomes” $80,030 total costs; 5% effort

2007-2010 NIDA Principal Investigator **L.C. Mayes** “Prenatal Cocaine Exposure: Studies of Brain Function $134.549 year one costs; 10% effort as co-investigator

2008-2011 NIMH Principal Investigator Suniya Luthar “Family Research Consortium V: Transdisciplinary Consortium on Mental Health Co-Occurring disorders, and Families” $73,822 year one costs; 10% as Co-PI

2007-2010 Pfeiffer Foundation Principal Investigator **L.C. Mayes** “Electrophysiological Markers of Emerging Inhibitory Control” $73,000 year one costs; 3% effort

2006-2011 NIDA Principal Investigator Jenae Neiderhiser (U. Pittsburg) “Genes, prenatal drug exposure and postnatal environment: An Adoption Study” $250,663 year one costs; 10% effort as co-investigator

2008-2012 NIH/ORWH Principal Investigator Rajita Sinha “SCOR on Sex and Gender Factors Affecting Women's Health” 5RL1DA024856 $749,669 direct costs year one; **L.C. Mayes**, PI on project on “Prenatal cocaine exposure, gender, and adolescent stress reactivity” 15% effort as project PI.

2007-2009: Yale Center for Clinical Investigation: Principal Investigator: **L.C. Mayes** “Neural Circuitry Of Parent Attachment In Substance Abuse: Research Team For Social Neuroscience, Addiction, And Parental Attachment” $73,967 year one costs.

2009-2011 NIAAA “Behavioral Measurement of Negative Reinforcement in Adolescent Alcohol Use/Abuse” R21 AA17685; Principal Investigator: Carl W. Lejuez, Ph.D; Total Costs = $400,000; 5% as co-investigator

2009-2011 NIDA: Principal Investigator: **L.C. Mayes** “ERP Neurobehavioral Assessment of Negative Reinforcement in Adolescents.” R21 DA027737 $125,000 year one costs

2008-2013 NIDA: Program Project: P01 DA022446 J.Johns (UNC principal Investigator): **L.C. Mayes**, Co-director of Program Project and PI on Individual Project “Neural Circuitry of Parent Attachment in Substance Abuse (Project 3)”. $271,705. Year one costs

2007-2012 NIDA RL1 DA024856 Hilary Blumberg, PI; **L.C. Mayes**, Co-PI: Stress, Neurodevelopment and the Emergence of Addictive Behaviors in Adolescence. $147,150 year one costs

2009-2011 NIDA R21 AA017685 Carl Lejuez, PI (University of Maryland); **L.C. Mayes,** consultant Behavioral Measurement of Negative Reinforcement in Adolescent Alcohol Use/Abuse. #12,979 year one consultant costs

**Current**

2012-2017 NINDS R01 NS055829 “Functional Neuroimaging in Childhood Absence Epilepsy” Principal Investigator Hal Blumenfeld, **L.C. Mayes** Investigator (2%) $9,876 annual direct costs.

2012-2015 SeriousFun Children’s Network “SeriousFun Service Agreement” **L.C. Mayes** Principal Investigator (1%) $63,750 annual direct costs.

2011-2017 National Society for the Prevention of Cruelty to Children “Minding the Baby: NSPCC” **L.C. Mayes** Principal Investigator (5%) $130,124 annual direct costs.

2012-2015 Irving Harris Foundation “Approach to training and relationship to infant mental health community” **L.C. Mayes** Principal Investigator (1%) $130,000 annual direct costs.

2014-2018 NCI R01 CA195654 “SCH: INT: Harnessing the Power of Technology: MOMBA for Postpartum Smoking” Principal Investigator Megan V. Smith, **L.C. Mayes** Investigator (2%) $261,052 annual direct costs.

2013-2016 NIMH R34 MH100456 “MOMBA: A Smartphone Application to Promote the Mental Health of New Mothers” Principal Investigator Megan V. Smith, **L.C. Mayes** Investigator (2%) $125,000 annual direct costs.

2010-2015 Baylor College of Medicine R01 DA026437 “Maternal Brain and Behavioral Responses to Infant Cues in Cocaine Exposed Mothers” Lane Strathearn Principal Investigator, **L.C. Mayes** Investigator (10%) $243,184 annual direct costs.

2010-2015 NIDA R01 DA017294 “Fostering Mother's Emotionally-Responsive Parenting” Principal Investigator Nancy Suchman, **L.C. Mayes** Investigator (2%) $350,506 annual direct costs.

2012-2015 NIMH R03 MH094583 “EEG coherence in children with TS: Association with ADHD and tic severity” Denis Sukhodolsky Principal Investigator, **L.C. Mayes** Investigator (1%) $48,000 annual direct costs.

**Areas of Research Focus**

* Early development of attention and arousal regulatory mechanisms in normal and high-risk infants
* Developmental outcome of infants and young children with increased perinatal risks from both specific biological, potentially neurotoxic exposures (e.g., illicit drugs) or increased psychosocial stress
* Early parent-child interaction and the effects of disrupted parental behaviors on the development of arousal and attention regulatory mechanisms
* Stress-response and regulatory mechanisms in young children at both biological and psychosocial risk
* Psychological and pharmacological interventions for arousal and attentional regulatory impairments in young children
* Anxiety disorders in young children as manifestations of arousal regulatory impairments
* Impact of early adversity on emerging stress and reward systems in adolescence
* Neural circuitry of early attachment between parents and their infants and application to both normative development and at-risk conditions (parental depression, substance abuse)
* Neurocognitive development of children growing up in poverty
* Understanding neural mechanisms for initiation of drug use in adolescence
* Designing interventions to promote family resilience and community engagement
* Designing interventions for parents including those involved in substance abuse based on concepts of mentalizing and reflectiveness

**Past and Current Research Collaborations**

***Outside of Yale***

Marc Bornstein, Ph.D., National Institute on Child Health and Human Development: Studies of maternal interactive functioning in high-risk families utilizing data gathered in ongoing longitudinal study of high-risk, drug-exposed children (current)

Adele Diamond, Ph.D., University of British Columbia, Vancouver, Canada. Collaborative studies focusing on assessment of aspects of prefrontal cortical functioning in high-risk preschool children. This line of work also involves creating and evaluating new computer-based methods for assessing aspects of prefrontal, executive capacities in younger children (past)

Arthur Edelman, M.D., and Ruth Feldman, Ph.D., Hebrew University and Bar-Ilan University, Israel: Studies on the long-term developmental outcomes of infants born prematurely and infants adopted internationally (past)

Christian Grillon, Ph.D., National Institute on Mental Health: Acoustic startle studies in preschool and school-aged children (past)

Margo Malakoff, Ph.D. National Institute on Drug Abuse: Studies on the language development of high-risk children exposed to drugs prenatally (past)

Randy Kamphaus, Ph.D., University of Georgia: Studies of the application of dynamic systems theories and models to psychological development using serial assessments by multiple observers of children’s behavior (past)

Dennis Molfese Ph.D., University of Louisville: Collaborative studies focusing on the use of evoked potentials to map regional neural activation during executive function tasks in preschool and school-aged children exposed to psychotropic drugs prenatally. (current)

Tim Oberlander, Ph.D. University of British Columbia: Two-site collaboration regarding impact of maternal use of selective serotonin reuptake inhibitors during pregnancy on infants’ and young children’s attentional and emotional regulatory capacities. (current)

Arietta Slade, Ph.D., City University of New York: Studies of parental “reflective functioning” that focus on how adults make a psychological transition to their parenting role and the impairments in that psychological transition for high risk parents (current)

Peter Snyder, Ph.D., Brown University: Development of computerized neuropsychological battery to assess executive control functions across the lifespan (current)

Mary Target, Ph.D. and Peter Fonagy, Ph.D., University College London: Studies of children’s assessment of their attachment relationships to parents and other adults; applying to studies of high-risk families involved in substance abuse (current)

Marjukka Pajulo, M.D., Tampera University, Finland: Effectiveness of inpatient interventions for substance using women and their children (current)

Carl Lejuez, Ph.D., University of Maryland: Risk-reward systems and developmental trajectory to substance use and abuse in adolescence (current)

Joey Johns, Ph.D., University of North Carolina: Transdisciplinary studies of impact of prenatal cocaine use on neural circuitry of parental attachment and ability to care for infant (current)

Jenae Neiderhauser, Ph.D., Penn State University: Impact of substance use among birth parents on outcome of adopted children (current)

Patrick Luyten, Ph.D., University of Leuven, Belgium: Studies of emotional processing among children and adolescents with depression and impulsive behavior disorders (current)

Lane Strathearn, M.D., Baylor: Neural circuitry of attachment in substance-using and non-substance-using mothers and impact of administered oxytocin on neural response to infant cues (current)

Zeev Kain, M.D., Department of Anesthesiology, UC Irvine: Studies of the impact of anxiety and stress on young children’s response to anesthesia and post-operative recovery (Current)

Neill Epperson, M.D., Department of Psychiatry (In Philadelphia as of 2009):  (1) Studies of the long-term developmental outcome of infants exposed pre- and postnatally to selective serotonin reuptake inhibitors; (2) Cognitive-behavioral interventions for pregnant women with anxiety disorders and severe trauma related symptoms  (Current)

Stephen Lassonde, Ph.D. Harvard: Historical analysis of changes in early childhood developmental theory in this century as reflected in clinical case records from longitudinal studies of the 1950’s and 60’s (Current)

Eamon McCrory, Ph.D., University College London: Studies of the long term neural impact of abuse and neglect on children, adolescents, and on neural circuits related to parenting

Pasco Fearon, Ph.D., University College London: Studies of infant social cognition using EEG methods and relation to infant attachment

***Yale but Outside Child Study Center***

Richard Ehrenkranz, M.D. Department of Pediatrics: Studies of the long-term developmental outcome of very low birthweight infants

Richard Schottenfeld, M.D., Department of Psychiatry: Studies of the long-term psychological functioning of chronically cocaine-abusing adults

Nancy Suchman, Ph.D., Department of Psychiatry with secondary in Child Study Center: Psychosocial interventions for substance abusing women and their children

Rajita Sinha, Ph.D., Department of Psychiatry: The relationship between stress and vulnerability to drug use and addiction in adolescence with special emphasis on gender differences in developmental trajectories

Marc Potenza, Ph.D., Department of Psychiatry with secondary in Child Study Center: Developing balance between risk and reward in adolescence and relationship to risk for drug use and impact of substance use on parent development

Hilary Blumberg, Ph.D., Department of Psychiatry: Impact of chronic stress and early trauma on emotional face processing in adolescence

Hal Blumenfeld, Ph.D., Department of Neurosurgery: Attentional and cognitive processes in children with chronic seizure disorders

Lois Sadler, Ph.D., School of Nursing with secondary in Child Study Center: Minding the Baby, a home based intervention for mothers and infants

Megan Smith, Ph.D., Department of Psychiatry, Public Health, and Child Study Center: Developing a mobile app to reach socially isolated at-risk mothers

Steven Southwick, M.D., Department of Psychiatry: Evaluation of programs for children with serious illness and impact on social connectedness and resilience

**Clinical/Service Development Activities**

* Supervise child psychiatry, child psychology, and social work fellows in the developmental and psychiatric assessment of infants and young children
* Supervise child psychiatry and child psychology fellows in inpatient consultation-liason with children on the pediatric service referred for developmental and behavioral questions
* Supervise fellows in the ongoing developmental follow-up of preterm infants discharged from the neonatal intensive care unit
* Development of combined service-research programs in perinatal mental health that involve clinical interventions for parental depression and anxiety in the perinatal period and evaluation of the efficacy of those interventions
* Development of normative parental-education services that provide developmental assistance for parents of young children in the context of early childhood education programs
* Development, implementation, and assessment of home-based interventions for high-risk mothers and infants (Minding the Baby)
* Development, implementation, and assessment of literacy-based intervention programs for preschool and elementary school-aged children to enhance positive coping and social connectedness; Implemented in rural setting in Tennesseee

**Teaching Activities Related Both to Research and Clinical Service**

* Coordinating the Harris Advanced Clinical Training fellowship in Early Childhood for advanced clinical trainees from child psychiatry, social work, psychology, or pediatrics
* Member of the faculty of the Training Program in Childhood Neuropsychiatric Disorders, James Leckman, Program Director
* Regular participant in core didactic and clinical seminars regarding early child development in the Child Study Center
* Mentoring post-baccalaureate degree students working in research laboratory (three to five students per year)
* Coordinator of annual intensive week-long research training seminar for young scholars from around the country and abroad focused on psychodynamic interventions and theories of development
* Coordinator of joint masters program between University College London and Yale School of Medicine in Developmental Neuroscience and Psychoanalysis
* Coordinating and developing program in Southern Appalachian Studies between Yale and Sewanee: The University of the South with special focus on health and resilience
* Post-doctoral fellows supervised and theme of work:

Kathi Pajer, M.D. (with Robert Wood Johnson Clinical Scholars Program): “Maternal and Paternal Assessments of Child Temperament and the Relation to Parental Behavior”

Margo Malakoff, Ph.D. “Language Development Among High-Risk Drug-Exposed Infants and Young Children”

Adriana Molitor-Siegel, Ph.D. “Emotional Regulation Among High-Risk Preschool Aged Children”

Michael Kaplan, M.D. “Development of Very Low Birthweight Infants”

Ruth Feldman, Ph.D. “Cyclicity in infant information processing and parent-child interaction”

Ilgi Ertem, M.D. (with Robert Wood Johnson General Academic Pediatrics

Program) “Parent-infant Interactions among High-risk substance-using families”

Mario Rojas, M.D. (with Division of Neonatology, Department of Pediatrics) “Growth and Development of Preterm Infants during Skin-to-Skin Care versus Traditional Holding”

Walter Gilliam, Ph.D. “Evaluation of Preschool Classroom Settings”

Sam Judice, M.D. (co-supervised with Larry Scahill, Ph.D.) “Psychopharmacological Interventions with Preschool Aged Children”

Sean Truman, Ph.D. “Transition to Parenting Among High Risk Substance Abusing Adults”

Rebecca Werner, Ph.D. “Aggression and social cognitive development in preschool aged children”

Michael Crowley, Ph.D. “Emotional Regulation/startle response among conduct disordered, school age children”

Wanjiku Njoroge, M.D. “Ethnic identity formation in preschool children from different ethnic minorities”

Jia Wu, Ph.D. (2007 -- ) “Advanced Electrophysiology Data Analysis Methods”

David Bridgett, Ph.D. (2008—2009) “The Impact of Early Adversity on Emerging Inhibitory Capacities in Preschool Children”

Rebecca Hommer, M.D. (2008 -- ) “Impulsivity and Stress Among Adolescents”

Tamara Vanderwal, M.D. (2009 -- ) “Impact of Alpha-2 agonist on EEG Markers of Attention in School Aged Children with Attention Deficit Disorder”

Jon Carlson, M.D. (2009 ) “Nicotine Use, Memory, and Attention, in Adolescents At-Risk for Schizophrenia”

Isabelle Von Kohorn, M.D. (2008) “Nicotine Use Pre- and Postnatally”

Angelica Torres, Ph.D., (2009-) “Resilience in Childhood”

Helena Rutherford, Ph.D. (2007- ) “Emotional Regulation in Substance Using and Non-Substance Using Mothers”

Angela Maupin, Ph.D. (2013- ) “Attachment based interventions for at-risk children and families”

* Visiting International Scholars Supervised

Lucia Criscuola, M.D. (Italy)

Valentina Ivancich, M.D. (Italy)

Marjukka Pajulo, M.D. (Finland, University of Tampere) 2004 NIDA Invest Fellow

Filipa DeCastro, Ph.D. (Mexico, 2008)

Stefan Kempke, Ph.D. (Belgium, University of Leuven) 2009

Patrick Luyten, Ph.D. (Belgium, University of Leuven) 2009

Rooij Sanne, Masters student (Netherlands, University of Maastricht) 2010

* Pre-doctoral fellows and theme of work (candidates for masters and for doctorate)

Alice Carter—Emotional regulatory behaviors in infancy

Pauline Hopper Jordan—Lead exposure in infancy

Brenda Jones—Impact of adoption/foster care on development of prenatally

drug-exposed children

Stephanie Musso—Language development in 18 month old drug-exposed

children

Thomas Fahy—Motivation and exploratory behaviors in preschool drug-exposed

children

Eric Harrell—Attentional regulation in four and five year old children

Brian Harel—Fear conditioning and acoustic startle in normally developing and

autistic children

Anna Ward—Attentional regulation in cocaine-exposed school aged children

Brian Pasley--Emotion and face recognition and acoustic startle response

Dahlia Levy—Parental reflective functioning among substance abusing parents

Jessica Borelli (2005-2007)—Attachment relationships as a mediator of children’ stress-response system

Daryn David (2005-2007; postdoctoral fellow 2009-- )—Impact of different attachment configurations on young adult stress response

Gregory Powers (2007-2008) – Negative Reinforcement and Reward Seeking in Adolescents (Masters Candidate in Psychodynamic Developmental Neuroscience Program)

Tobias Nolte (2008-2009) – Mentalization and Response to Stress (Masters Candidate in Psychodynamic Developmental Neuroscience Program)

Lars White (2008-2009) -- Attachment configuration and response to social rejection in adolescents (Masters Candidate in Psychodynamic Developmental Neuroscience Program)

* Yale School of Medicine students supervised in work on thesis or individual research projects

Helen Eggers—Memory and narrative in face of trauma

Daniel Kamin—Perinatal morbidity among substance using adults

Barbara McGee—Impact of cocaine use on perinatal withdrawal from opiates

Eric Hazen—Theory of mind and social cognition in high-risk, inner city children

Aaron Covey—Young children’s representations of war

Jessica Beard—Socio-emotional development in Kenyan refugee children

Rachel Weston—Impact of poverty on attention in preschool aged children

Whitney Kress –Parent-Adolescent Discrepancies in Parent Knowledge and

Relationship to Adolescent Risk Taking

* Yale undergraduate senior theses supervised

Mary Morales

Danielle Champaigne

Tim Levin

Fell Ogden

Samantha Loria

Samuel Limmer

Elizabeth Talbert

Kyan Safavi

Adriane Levin

Victoria Klingenstein

Scott McCreary

**International Research and Training Activities**

Coordinator, Anna Freud Centre Program at the Yale Child Study Center, an international research and training program involving clinical scholars and investigators from the US and abroad (2004 -- )

Co-Coordinator, University College London –Yale Masters program in Psychodynamic Development Neuroscience (2006 -- )

Head of faculty (2000-2004), University College London, summer research training program

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**Peer Reviewed Publications**

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63. Levy, D., Truman, S., & **Mayes, L.C.** (2001). The impact of prenatal parental cocaine-use on reflective functioning within the context of parent-child relationship. Society for Research in Child Development, Minneapolis, Minnesota.
64. Malakoff, M.E, & **Mayes, L.C.** (2001). Prenatal cocaine exposure and language development in inner-city children: outcome at 30 months. Society for Research in Child Development, Minneapolis, Minnesota.
65. Miles, S., Fay, M., Herzog, L., Natale, K., Malakoff, M., Paul, R., **Mayes, L.C.**, & Cohen, D. (2001). Intentionality and reciprocity in low SES mother-toddler dyads: Effects of prenatal cocaine exposure. Symposium on Research in Child Language Disorders, Madison, Wisconsin.
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68. Molitor, A., Ward, A., & **Mayes, L.C.** (2002) Social Play Between 18-Month-Old Toddlers And Their Cocaine-And-Other-Drug Using Mothers. Poster presented at the 13th Biennial International Conference on Infant Studies, Toronto, Canada.
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70. Malakoff, M., & **Mayes, L.C.** (2003). Effects of Perinatal Cocaine Exposure on Linguistic Interaction Among 24-Month-Old Inner City Children And Their Mothers. Society for Research in Child Development, Tampa, Florida.
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73. Johnson, R.T., Malakoff, M., & **Mayes, L.C.** (2003). Mother-Child Play Behavior and Reciprocity Among Cocaine and Other-Drug-Exposed Inner-City Two-Year-Olds. Society for Research in Child Development, Tampa, Florida.
74. Truman, S., Kamphaus, R., DiStefano, C., & **Mayes, L.C.** (2003) Cluster Analysis of Child Behavior in a High Risk, Urban Sample. Society for Research in Child Development, Tampa, Florida.
75. **Mayes, L.C.**, Molfese, D., & Key, A.F. (2003). Event related potentials in cocaine-exposed children. American Association of Child and Adolescent Psychiatry. Miama, Florida.
76. Schroder, M., Snyder, P., & **Mayes, L.C.** (2003). Impaired performance of children exposed in-utero to cocaine on a novel test of visuospatial working memory. Theoretical And Experimental Neuropsychology, Montreal, Canada.
77. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Eicher, V., Thompson, N.C., Schultz, R.T., & Constable, R.T. (2003) Effects of Infant Pictures and Cries on Parent Brain Activity. American Academy of Child and Adolescent Psychiatry, Miami, Florida.
78. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Constable, R.T., & Schultz, R.T. (2003) The Neural Circuitry of Human Parent-Infant Attachment in the Early Postpartum Period. American College of Neuropsychopharmacology San Juan, Puerto Rico.
79. Hunter, N., Langlois, E., Snyder, P., & **Mayes, L.C.** (2004). Impaired Performance of Children Exposed In Utero to Cocaine on a Novel Test of Visuospatial Working Memory. Neurobehavioral Teratology Society, Vancouver, Canada.
80. **Mayes, L.C.**, Molfese, D., Key, A.F., & Hunter, N. (2004). Event Related Potentials In Cocaine-Exposed Children. Neurobehavioral Teratology Society, Vancouver, Canada.
81. Caldwell-Andrews, A.A., Blount, R.L., **Mayes, L.C.**, Kain, Z.N. (2004)  Development of the P-CAMPIS: Assessing parent and child and health care provider interactions in the perioperative environment.  Society of Pediatric Psychology, Charleston SC.
82. Caldwell-Andrews, A,A, Blount, R,L,, **Mayes, L.C.**, Kain, Z.N. (2004)  Parental Presence in the Operating Room: A Black Box Approach.  Poster to be presented at the annual meeting for the Society of Pediatric Anesthesiology, Phoenix, AZ.
83. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Constable, R.T., & Schultz, R.T. (2004) Functional Neuroimaging of Human Parents in the Early Postpartum with Infant Stimuli Cognitive Neuroscience Society, San Francisco, California.
84. Swain,J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Constable, R.T., & Schultz, R.T. (2004) Neural Substrates of Human Parent-Infant Attachment in the Postpartum. Society for Biological Psychiatry 59th Annual Meeting, New York, NY.
85. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Constable, R.T., & Schultz, R.T. (2004) Functional Brain Imaging of Postpartum Human Parent-Infant Attachment American Psychiatric Association 157th Annual Meeting, New York, NY.
86. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Eicher, V., Thompson, N.C., Constable, R.T., & Schultz, R.T. (2004) Toward an Understanding of the Neurobiology of Parental Love. Compassionate Love Research Conference, Washington DC.
87. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Constable, R.T., & Schultz, R.T. (2004) Brain Basis of Human Parent-Infant Attachment Organization for Human Brain Mapping 10th Annual Meeting, Budapest, Hungary.
88. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Constable, R.T., & Schultz, R.T. (2004) Brain Circuitry and Psychology of Human Parent-Infant Attachment in the Postpartum International Association for Child and Adolescent Psychiatry and Allied Professions (IACAPAP) 16th World Congress, Berlin, Germany.
89. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Constable, R.T., & Schultz, R.T. (2004) Human Brain Physiology and Psychology of Parent-Infant Attachment in the Postpartum Canadian Psychiatric Association 54th Annual Meeting, Montreal, Canada.
90. Swain, J.E., Leckman, J.F., **Mayes, L.C**., Feldman, R., Schultz, R.T. (2005): Early Human Parent- Infant Bond Development: fMRI, thoughts and behaviorsBiological Psychiatry***.*** 57:112S
91. Molitor, A. & **Mayes, L.C.** (2005, April). Interaction behavior in 18-month-old children of mothers using cocaine and other drugs.Poster presented at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.
92. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Schultz, R.T. (2005). The Development of Parental Brain Circuits Correlated with the Thoughts and Behaviors in Mothers and Fathers after the Birth of a Baby. Neuroimage. 26(Supplement 1):S26
93. Swain, J.E., Leckman, J.F., **Mayes, L.C**., Feldman, R., Schultz, R.T. (2005) Functional Neuroimaging and Psychology of Parent-Infant Attachment in the Early Postpartum. Annals of General Psychiatry.4(Suppl 1):S85-86
94. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Schultz, R.T. (2005) The Development of Human Parent-Infant Attachment: Functional Brain Imaging During the Early Postpartum Neuropsychopharmacology. 30:S228-9
95. Crowley, M., **Mayes, L.C.,** and Langlois, E. (2005).. Medial frontal feedback Negativity and Theta Rhythm In A gambling Task Under Reward, Punishment and Nonreward Conditions. Society for Psychophysiology Research. Lisbon, Portugal.
96. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Schultz, R.T. (2006) Own Baby Pictures Induce Parental Brain Activations According to Psychology, Experience and Postpartum Timing.Biological Psychiatry. 59:126S
97. Swain, J.E., Leckman, J.F., **Mayes, L.C**., Feldman, R., Hoyt, E., Kang, H., Kim, P., Schultz, R.T. (2006). Own baby stimuli activate parental emotion centers according to psychology, experience and postpartum timing. Neuroimage. 31(Supplement 1):S155
98. Molitor, A., **Mayes, L.C.**, Vela, D., McCormick, J., Thompson, J. & Foley, M. (2007, March).   The effect of dysfunctional maternal behavior on toddlers’ play:  A multi-method examination in an at-risk population. Biennial meeting of the Society for Research in Child Development, Boston, MA.
99. Molitor, A., **Mayes, L.C.**, Vela, D., & Duran, M. (2006, April).  Play activity in 18-month-old toddlers of polydrug cocaine-using mothers.  Poster presented at the annual meeting of the Western Psychological Association, Palm Springs, CA.
100. Sukhodolsky, D.G., Crowley, M.J., Leckman, J.F., Scahill, L., and **Mayes, L.C.** (2007). Event-Related Potential (ERP) Responses to the Visuospatial Priming Task. Society for Psychophysiology Research. Atlanta, GA.
101. Crowley, M., Bailey, C., Langlois, E., Levin, A., and **Mayes, L.C.** (2007)Morphed Intensity Of Emotional Expressions And Event-Related Potentials. Society for Psychophysiology Research. Atlanta, GA.
102. Crowley, M., Borelli, J., Liu, L., and **Mayes, L.C**. (2007). Chronometry Of Threat Modulated Startle In Children: A Growth Curve Modeling Approach. Society for Psychophysiology Research. Atlanta, Ga.
103. Swain, J.E., Leckman, J.F., **Mayes, L.C.**, Feldman, R., Hoyt, E.H., Kang, H., Kim., P, Schultz, R.T. (2007). Baby Cry and Picture Activations of Parent Brains Vary with Gender, Experience, and Dyadic Relationship. Biological Psychiatry. 61;34-35S.
104. Swain, J.E., Leckman, J.F., **Mayes, L.C.,** Feldman, R., Hoyt, E., Kang, H., Kim, P., Schultz, R.T. (2007). Own baby stimuli activate parental emotion centers according to psychology, experience and postpartum timing. Neuroimage. 31(Supplement 1):S84.

105. Suchman, N., Decoste, C., Schmitt, N., & **Mayes, L.C.**  (2007). Maternal representations, reflective functioning and caregiving behavior: Implications for intervention development. Poster presentation. College on Problems of Drug Dependence Annual Meeting, Quebec City, Quebec. 6/20/07.

106. Suchman, N., DeCoste, C., Borelli, & **Mayes, L.C.** (2007). Preliminary Findings from the Mothers and Toddlers Program: An attachment-based parenting intervention for substance-abusing mothers. Invited presentation to the American Academy of Addiction Psychiatry, Annual Meeting and Symposium, Coronado, CA, 11/30/07.

107. Suchman, N., Decoste, C., Schmitt, N., & **Mayes, L.C.** (2007). Maternal representations, reflective functioning and caregiving behavior: Implications for intervention development. Poster presentation. College on Problems of Drug Dependence Annual Meeting, Quebec City, Quebec. 6/20/07.

108. Chaplin, T.M., Fahy, T., Sinha, R., & **Mayes, L.C.** (2007). Young children's emotional arousal and self-regulation in a frustrating task: Effects of gender and prenatal cocaine exposure. Abstract published in: Journal of Women’s Health, 16, 1114.

109. Stevens, H., Sadler, L., Slade, A., deDios-Kenn, C., Webb, D., Fitzpatrick, S., Close, N., and **Mayes, L.C.** (2007) Minding the Baby: Preliminary Home Visit Dose and Outcomes. Poster presented to American Academy of Child and Adolescent Psychiatry Annual Meetings.

110. Slade, A., and **Mayes, L.C.** (2007). Minding the Baby: Theory, Intervention, and Preliminary Outcomes. Abstract and panel discussion at the annual meeting of the Society for Research in Child Development, Boston, MA.

111. Chaplin, T.M., Sinha, R., & **Mayes, L.C.** (2008, November). Gender and stress response in low-income adolescents. Poster presented at the Office of Research on Women’s Health Fifth Annual Interdisciplinary Women’s Health Research Symposium, Bethesda, MD.

112. Chaplin, T.M., **Mayes, L.C.,** Fahy, T., & Sinha, R. (2008, June). Effects of Prenatal cocaine exposure on toddlers’ emotional arousal and regulation: Implications for behavior problems across a three-year follow-up. Poster presented at the annual meeting of the College on Problems of Drug Dependence, San Juan, Puerto Rico.

113. Oberlander T.F, Weinberg J, **Mayes L.C.**, Riggs W, Rurak D, Papsdorf M, Misri S, Grunau R (2008). Hypothalmic-pituitary-adrenal (HPA) axis function in 3 months old infants with prenatal serotonin reuptake inhibitor (SRI) antidepressant exposure. (XVIth Biennial International Conference on Infant Studies, Vancouver, BC.)

114. Tasgin S, Leckman JF, **Mayes L.C.,** Feldman R, Swain JE (2008) Cesarean Section Affects Parental Brain Responses to Baby Stimuli. 18th World Congress of the International Association for Child and Adolescent Psychiatry and Allied Professions Istanbul, Turkey, April 30-May 3.

115. Swain JE, Leckman JF, **Mayes L.C.**, Feldman R, Hoyt E. Kang H, Kim P, Nguyen S, Schultz RT (2008) Association of Parental Thoughts and Brain Activity in Healthy First-Time Parents. Society for Biological Psychiatry 63rd Annual Meeting Washington DC, May 1-3.

116. Swain JE, Leckman JF, **Mayes L.C.**, Feldman R, Hoyt E, Kang H, Kim P, Nguyen S, Schultz RT (2008) Functional Neuroimaging & Psychology of Parent-Infant Bonding. International Society for Magnetic Resonance in Medicine 16th Annual Meeting Toronto, Canada, May 3-9.

117. Leckman JF, Swain JE, **Mayes L.C.**, Feldman R, Schultz RT (2008) Primary Parental Preoccupation: Reorganization of Brain Circuits involved in Worry, Reward and Habit Formation World Association for Infant Mental Health World Congress Yokohama, Japan, AugustParent Brains Respond to Baby Stimuli According to Relationship and Timing. Canadian Academy of Child and Adolescent Psychiatry 28th Annual Meeting Vancouver, Canada, September 7-9.

118. Swain JE, Leckman JF, **Mayes L.C.**, Feldman R, Hoyt E, Kang H, Kim P, Schultz RT (2008) Parental Psychology, Behavior and Brain Activity in Healthy First-Time Parents. World Psychiatric Association 11th International Congress Prague, Czech Republic, September 20-25.

119. Kim P, Leckman JF, **Mayes L.C.**, Swain JE (2008) The Plasticity of the Human Maternal Brain: A Voxel-Based Morphometry Study American Academy of Child and Adolescent Psychiatry 55st Annual Meeting Chicago, Il, October

28 – November 2.

120. Sooriyakumaran P, Feldman R, Leckman JF, **Mayes L.C.,** Swain JE (2008) Brain Activations To Own-Baby Stimuli Correlated to Other Parenting Measures American Academy of Child and Adolescent Psychiatry 55th Annual Meeting Chicago, Il, October 28 – November 2.

121. Kim P, **Mayes L.C.**, Leckman JF, Feldman R, Swain JE (2008) Breastfeeding vs. Formula-feeding mothers’ brain response to infant cry stimuli in the early postpartum period. Society for Neuroscience 38th Annual Meeting Washington DC, November 15-19.

122. Swain JE, Leckman JF, **Mayes L.C.,** Feldman R, Kim P, Hoyt E, Kang H, Nguyen S, Tasgin E, Constable RT, Schultz RT (2008) Functional Brain Imaging Of Parent Responses To Infant Stimuli: Timing, Experience, Delivery, Breastfeeding, And Relationship American College of Neuropsychopharmacology 47th Annual Meeting Scottsdale, Arizona, December 7-11. \*HOT TOPIC SELECTION\*

123. Cheung, C., Rutherford, H. J. V., **Mayes, L.C**., & McPartland, J. C. (2009).

Neural response to faces reflect social personality traits. Poster presented at the 117th American Psychological Association annual conference, Toronto, Canada.

124. Nolte, T., Fonagy, P., Blatt, S.J., Rutherford, H.J.V., & **Mayes, L.C.**

(2009). Effects of the activated attachment system on performance in mentalization tasks using idiosyncratic stressors in adults. Poster presented by the first author at the American Psychoanalytic Association Winter Meeting, New York.

125. Nolte, T., Rutherford, H.J.V., Fonagy, P., Blatt, S.J., & **Mayes, L.C.** (2009). Investigating the decoupling effect of attachment-related stress on mentalisation ?neural correlates in an event related potentials study. Presentation given by the first author at the NPSA Open Research Day, Paris.

126. Crowley, M.J., Wu, J., Rutherford, H.J.V., **Mayes, L.C.** (2009, October). The FRN: Temporal Parameterization and Relations with Perceived Stress and Personality. Poster presented at the 49 annual meeting on Society for Psychophysiological Research, Germany

127. Anderson, E.R., Crowley, M.J., Wu, J., King; R., Warnick, E., **Mayes, L.C.** (2009, November). Emotion Regulation in Anxious Clinically-Referred and Comparison Youth. Poster Presented at the 43rd Annual Meeting of the Association for Behavioral and Cognitive Therapies, New York, New York.

128. Crowley, M.J., Anderson, E.R., Wu, J., King; R., Warnick, E., **Mayes, L.C.** (2009, November) Probing Social Rejection in Child Anxiety with Cyberball.  Poster Presented at the 43rd Annual Meeting of the Association for Behavioral and Cognitive Therapies, New York, New York.

129. Crowley, M. J., Wu, J., Lejuez, C. W. & **Mayes, L.C.** (2009, March). Risk-Taking, Gender and Feedback Negativity Response to Loss Among At-Risk Adolescents Paper presented at the Gatlinburg Conference, New Orleans, Louisiana.

130. Crowley, M. J., Wu, J., Bailey, C. A. & **Mayes, L.C.** (2009, April). Avoidant Attachment, Social Exclusion and Re-entry into Fair Play. Paper Presented at the Society for Research in Child Development (SRCD), Denver, Colorado.

131. Bobbitt, K., Bridgett, D., and **Mayes, L.C.** (2009). The role of chaos in the development of internalizing behavior problems in children. Jean Piaget Society, Park City, Utah.

132. Borelli, J.L., Crowley, M.J., & **Mayes, L.C.** (November, 2009). Association Between School-Age Children’s Internalizing Symptoms and Subjective, Behavioral, and Physiological Indicators of Emotion Regulation. Paper presented in symposium (Chair: L.M. Hilt), The Role of Emotion Regulation in the Development of Psychological Symptoms in Youth, Association for Behavioral and Cognitive Therapies, New York, NY.

133. Borelli, J.L., Crowley, M.J., David, D.H., Anderson, G.M., & **Mayes, L.C.** (April, 2009). Attachment in Childhood: Links with Subjective, Neuroendocrine, and Psychophysiological Indices of Emotion Reactivity/Regulation. Paper presented in symposium (Chair: D.H. David), The Neurocognitive, Physiological, and Cognitive Markers of Insecure Attachment Across the Lifespan, Society for Research in Child Development Biennial Conference, Denver, CO.

134. Landi, N., Mencl, W. E., Worhunsky, P. Jiansong, X., Erbe, J., Irwin, J. R., Topf, J., Potenza, M.N., & **Mayes, L.C.** (October, 2009) fMRI and EEG measures of adult processing of infant emotion. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

135. Landi, N., Mencl, W.E., Erbe, J., Potenza, M.N., Irwin, J.R., Topf, J., & **Mayes, L.C.** (March, 2009). Functional Cortical Activation Associated with Processing of Infant Emotional State. Poster presented at the sixteenth annual meeting of the cognitive neuroscience society, San Francisco, CA.

136. Erbe, J**.,** Landi, N., Irwin,J., Mencl, E., Topf,J., Potenza, M. & **Mayes, L.C.** (March, 2009). EEG Measures of Adult Response to Infant Emotion. Poster presented at the sixteenth annual meeting of the cognitive neuroscience society, San Francisco, CA.

137. Chaplin, T. M., Sinha, R., & **Mayes, L.C.** (2009, November). Gender and stress response in cocaine exposed adolescents. Paper presented at the Office of Research on Women’s Health Sixth Annual Interdisciplinary Women’s Health Research Symposium, Bethesda, MD.

138. Chaplin, T. M. & **Mayes, L.C.** (2009, June). Stress response and risk for substance use in prenatally cocaine exposed and non exposed adolescents. In R. Sinha & K. Brady (Chairs), How Stress Contributes to Addiction Vulnerability: Studies from Adolescent and Adult Samples. Symposium conducted at the annual meeting of

the College on Problems of Drug Dependence, Reno, Nevada.

139. Chaplin, T.M., Sinha, R., & **Mayes, L.C.** (2009, April). Emotion socialization of prenatally cocaine exposed children. Poster presented at the biennial meeting of the Society for Research on Child Development, Denver, CO.

140. Suchman, N., DeCoste, C., Castiglioni, N., & **Mayes, L.C.** (2009). Attachment-based program for substance abusing mothers: Treatment approach, outcomes and integrity in a randomized trial. Invited paper presentation for the Society for Research on Child Development, biennial meeting, Denver, CO, April 4, 2009.

141. Weikum W, **Mayes L.C.**, Grunau RE, Brain U, Misri S and Oberlander T. (2009). The Impact of Prenatal Selective Serotonin Reuptake Inhibitor (SSRI) Exposure and Maternal Mood on Mother-Infant Interactions at 3 Months. Pediatric Academic Societies Annual Meeting Baltimore, Maryland.

142. Suchman, N., DeCoste, C., & **Mayes, L.C.** (2010). Mothering from the Inside Out: An attachment-based intervention for mothers in substance use treatment. Invited presentation, Conference on mentalization-based interventions for children, young people and their families, Yale Child Study Center.

143. Suchman, N., & **Mayes, L.C.** (2009). Breaking the cycle: Reflective functioning and maladaptive attachment cycles of drug-addicted mothers and their infants. Invited poster presentation for the SRCD biennial meeting, Denver, CO, April 4, 2009.

144. Suchman, N., DeCoste, C., Castiglioni, N., & **Mayes, L.C.** (2009). An attachment-based parenting intervention for substance-abusing mothers: Preliminary findings from a randomized clinical trial. Invited poster presentation for SRCD biennial meeting, Denver, CO, April 2, 2009.

145. Swain JE, Leckman JF, **Mayes, L.C.**, Feldman R, Kim P, Hoyt E, Kang H, Nguyen S, Tasgin, E, Constable RT, Schultz, RT (2009) Functional Brain Imaging Of Parent Responses To Infant Stimuli: Timing, Experience, Mode of Delivery, Breastfeeding, and Dyadic Relationship North American Society for Psychosocial Obstetrics and Gynecology 35th Annual Meeting New Haven, CT, February 4-7.

146. Kim P, **Mayes L.C.,** Leckman JF, Feldman R, Swain JE (2009) Breastfeeding vs. Formula-feeding mothers’ brain response to infant cry stimuli in the early postpartum period. Cognitive Neuroscience Society 16th Annual Meeting San Francisco, CA, March 21-24.

147. Swain JE, Feldman R, Kim P, Sooriyakumaran P, **Mayes L.C.**, Leckman JF

(2009) Parental Brain Activity in Response to Baby Stimuli Correlates with Behavior and Mood 3rd Annual Workshop on Concepts, Actions, and Objects: Functional and Neural Perspectives Rovereto, Italy, April 22-25.

148. Swain JE, **Mayes, L.C.**, Feldman R, Kim P, Leckman JF (2009) Brain Activity in Parents In Response to Baby Stimuli Correlates with Parent-Infant Interactions and Varies with Mood Society for Biological Psychiatry 64th Annual Meeting Vancouver, Canada, May 14-16.

149. Swain JE, Kim P, Feldman R, **Mayes L.C.**, Leckman JF (2009) Parental Brain Activity In Response to Baby Stimuli Varies with Gender and Correlates with Mood and Parent-Infant Interactions Organization for the Study of Sex Differences 3rd Annual Meeting Toronto, Canada, June 4-6

150. Swain JE, Leckman JF, **Mayes L.C.**, Feldman R, Tasgin E, Kim P, Schultz RT

(2009) Functional Brain Activations of Parents Listening to Their Own Baby-Cry that Change over the Early Postpartum and Vary According to Delivery International Behavioral Neuroscience Society 18th Annual Meeting Nassau, Bahamas, June 9-14.

151. Orday, M., Sadler, L., Slade, A, & **Mayes, L.C.** (2009). Parental Reflective Functioning and Child Outcomes. Poster presented to 21st Annual Eastern Nursing Research Society Scientific Sessions Boston, MA.

152. Swain JE, Leckman JF, **Mayes L.C.**, Feldman R, Tasgin E, Kim P, Schultz RT

(2009) Functional Brain Activations of Parents Listening to Their Own Baby-Cry that Change over the Early Postpartum and Vary According to Delivery 31st International Ethological Conference 31st Annual Meeting Rennes, France, August 19-24

153. Swain JE, Feldman R, Kim P, **Mayes L.C.**, Leckman JF (2009) Brain activity in response to own-baby picture and cry predict parenting Society for Neuroscience 39th Annual Meeting Chicago, IL, October 17-21.

154. Swain JE, Feldman R, Pilyoung K, **Mayes L.C.**, Sooriyakumaran P, Leckman JF

(2009) Brain Activations To Own-Baby Stimuli Correlated to Other Parenting Measures American Academy of Child and Adolescent Psychiatry 56th Annual Meeting Honolulu, HI, October 27 - November 1.

155. Swain JE, Kim P, Feldman R, **Mayes, L.C.,** Sooriyakumaran P Leckman JF (2008) Parental Brain: Functional and Structural Imaging, Timing, Thoughts and Behaviors Canadian Academy of Child and Adolescent Psychiatry 29th Annual Meeting Toronto, Canada, November 12-14.

156. Swain JE, Feldman R, **Mayes, L.C**., Leckman JF (2009) Brain Structure and Activity in Response to Own-Baby Stimuli – Parental Brains Vary According to Timing, Gender and Predict Parenting Behaviors American College of Neuropsychopharmacology 48th Annual Meeting Hollywood, Florida, December 6-10

157. Swain JE, Feldman R, **Mayes, L.C.** Leckman JF (2010) Brain Responses to Own Infant Pictures: Correlations With Parental Sensitivity International Conference on Infant Studies 17th Annual Meeting Baltimore, Maryland, March 11-14

158. Slade, A., Sadler, L., & **Mayes, L.C.** (2009). Maternal Reflective Functioning as a Moderator of Intervention Effects in Predicting Infant Attachment. Presentation for Annual meeting of the Society for Research in Child Development, Denver, CO.

159. Sadler, L., Webb., D., Slade, A., and **Mayes, L.C.** (2009). A Reflective Parenting Program for Young Families. Presentation for the 9th International Family Nursing Conference, Reykjavik, Iceland.

160. Oberlander T.F, Weinberg J, **Mayes L.C.**, Riggs W, Rurak D, Papsdorf M, Misri S, & Grunau R (2009). Hypothalmic-pituitary-adrenal (HPA) axis function in 3 months old infants with prenatal serotonin reuptake inhibitor (SRI) antidepressant exposure. (XVIth Biennial International Conference on Infant Studies, Vancouver, BC. 2008)

161. Weikum W, **Mayes L.C.**, Grunau RE, Brain U, Misri S and Oberlander T. (2009). The Impact of Prenatal Selective Serotonin Reuptake Inhibitor (SSRI) Exposure and Maternal Mood on Mother-Infant Interactions at 3 Months. Pediatric Academic Societies Annual Meeting Baltimore, Maryland.

162. McPartland, J., Schultz, R., **Mayes, L.C.** & Klin, A. (2009, August). *Preserved neural specialization for non-social information in autism*. Paper presented at the American Psychological Association Annual Convention, Toronto, Canada.

163. Cheung, C.\*, Morrow, V., **Mayes, L.C.** & McPartland, J. (2009, August). *Neural correlates of cartoon versus human faces: A pilot study*. Poster presented at the American Psychological Association Annual Convention, Toronto, Canada. (\* Mentored student)

164. Oberlander, T.F. Grunau, R.E.Brain, U. and **Mayes, L.C.** (2010). Information processing in 3-month infants with prenatal exposure to selective serotonin reuptake inhibitor (SSRI) antidepressants. Society for Pediatric Research.

165. Willers, M.E., M.E. Tay, L.S., Samuels, K.J., **Mayes, L.C.**, Weeks, B.P. (2010). The Impact of Prenatal Diagnosis of Congenital Heart Disease on Parental Knowledge and Anxiety, and on Parent-Child Attachment. Presentation at Children’s Hospital of Philadelphia Pediatric Cardiology Conference (February 2010) and published in Cardiology in the Young.

166. de Castro, F., Ayala, N.H., **Mayes, L.C.** (2010). Maternal Attributions of Intentionality: Measuring Adaptive and Pathological Maternal Projections. Selected Posters From the 2010 Annual Poster Session. *J Am Psychoanal Assoc*. 2010: 58: 545.

167. McPartland, J., Crowley, M., Molfese, P., Perszyk, D., Klin, A. & **Mayes, L.C.** (2010, May). *Neural correlates of social exclusion in autism spectrum disorder.* Paper presented at the International Meeting for Autism Research, Philadelphia, PA.

168. Kilroy, E.\*, Cheung, C., Perszyk, D., **Mayes, L.C.** & McPartland, J. (2010, May). *Autistic-like behaviors, social personality characteristics, and neural correlates of face perception in the general population.* Poster presented at the International Meeting for Autism Research, Philadelphia, PA. (\* Mentored student)

169. Perszyk, D.\*, Molfese, P., Kilroy, E., **Mayes, L.C.,** Klin, A. & McPartland, J. (2010, May). *Developmental changes in brain bases of face perception as revealed by ERPs.* Poster presented at the International Meeting for Autism Research, Philadelphia, PA. (\* Mentored student)

170. McPartland, J., Crowley, M., Molfese, P., Perszyk, D., Klin, A. & **Mayes, L.C.** (2010, August). *Behavioral and brain responses to social exclusion in children with autism.* Paper presented at the American Psychological Association Annual Convention, San Diego, CA.

171. Shona M. Tritt, Helena Rutherford, Douglas S. Mennin, **Linda C. Mayes**. Political conservatism and uncertainty-bias in patients with generalized anxiety disorder: An event related potentials study. Presented at the 12th Annual Meeting of the Society for Personality and Social Psychology, San Antonio, Texas, U.S.A., January 27-29, 2011.

172. Shona M. Tritt, Douglas Mennin, Helena Rutherford, Michael J. Crowley, **Linda C. Mayes**. An Event-Related Potential Study of Emotional Processing in Patients with Generalized Anxiety Disorder. Presented at the Inaugural Conference of the Rotman Research Institute and the Kunin-Lunenfeld Applied Research Unit: Neuroscience of Emotion and Emotion Related Disorders, Toronto, Canada, March 27-29, 2011.

173. The Role of Executive Functions in Facilitating Soothing Behavior During Interactions with a Simulated Distressed Infant. Katie M. Laws1\*, Melissa Naso1, Kate B. Oddi1, Brittney Keilman-Wyatt1\*, Liz Hougland1, Brittney Wyatt1\*, Grant Allen1, David Bridgett1, Helena Rutherford2, & **Linda Mayes**2. Northern Illinois University1, Yale University School of Medicine2. Society for Research in Child Development, Toronto, 2011.

174. Gender Differences in Emotion Expression in Prenatally Cocaine Exposed Adolescents during a Stressful Task. N. Panjwaniab, A.L.B. Thomassonb, T. M. Chaplina, R. Sinhaa, & **L. C. Mayes.** a: Department of Psychiatry, b: Child Study Center- Yale University School of Medicine, New Haven, CT. Society for Research in Child Development, Toronto, 2011.

175. Food Cue Elicited Event-Related Potentials reflect food craving individual differences in adolescents. J. Wu, M.J. Crowley, & **L.C. Mayes.** Child Study Center, Yale University, New Haven, CT. Society for Research in Child Development.

176. Social Stress and Adolescent Risk-Reward Behavior. R. Hommer, M. Crowley, J. Blood, T. Chaplin, & **L.C. Mayes**. 2011. European Society for Child & Adolescent Psychiatry. Helsinki, Finland.

177. Adolescents’ Responses to Parent-Adolescent Conflict: Associations with Alcohol Use Initiation. Tara M. Chaplin, Rebecca E. Blanton, Rebecca E. Hommer, Michael J. Crowley, Rajita Sinha, & **Linda C. Mayes**. Yale University School of Medicine, New Haven, CT. Research Society on Alcoholism Atlanta, Georgia, 2011.

178. Cheung C.\*, Perszyk, D., **Mayes, L.C.** & McPartland, J. (2011, May). *Positions of gaze fixation influence face-related ERPs*. Poster presented at the UCL/AFC Conference on the Implications of Research on the Neuroscience of Affect, Attachment and Social Cognition, London, UK. (\* Mentored student).

179. Naples, A.\*, Perszyk, D., Crowley, M. J., Wu, J., **Mayes, L.C.** & McPartland, J. (2011, May). *Face processing delays in ASD are robust to variations in visual attention.* Paper presented at the International Meeting for Autism Research, San Diego, CA. (\* Mentored student)

180. Perszyk, D.\*, Crowley, M., Naples, A., Wu, J., Nguyen-Phuc, A., Viktorinova, M., **Mayes, L.C.** & McPartland, J. (2011, May). *Neural mechanisms of reward processing in ASD.* Poster presented at the International Meeting for Autism Research, San Diego, CA. (\* Mentored student)

181. Viktorinova, M.\*, Perszyk, D., Wu, J., Naples, A., Rutherford, H., **Mayes, L.C.** & McPartland, J. (2011, May). *Temporal dynamics of subliminal and supraliminal emotional face perception in individuals with autistic traits*. Poster presented at the International Meeting for Autism Research, San Diego, CA. (\* Mentored student)

182. McPartland, J., Perszyk, D., Crowley, M., Naples, A. & **Mayes, L.C.** (2011, August). *Visual attention modulates neural response to faces in children with autism*. Paper presented at the American Psychological Association Annual Convention, Washington, DC.

183. Associations among maternal anxiety levels, maternal brain activity at the first month postpartum and infants’ socioemotional outcomes at 18-24 months. Pilyoung Kim, Ruth Feldman, James F. Leckman, **Linda C. Mayes,** Pamela M. Cole, James E. Swain. 2012. International Society of Infant Studies Meeting in Minneapolis, Minnesota.

184. Cox, A.\*, Naples, A., Rutherford, H., Coffman, M., Mukerji, C., **Mayes, L.C.** & McPartland, J. (2012, May). *Neural mechanisms of social and non-social reward and their relation to autistic traits.* Poster presented at the International Meeting for Autism Research, Toronto, Canada. (\* Mentored student).

185. Naples, A.\*, Coffman, M., Mukerji, C, E., Wu, J., **Mayes, L.C.** & McPartland, J. (2012, May). *Brain response to gaze contingent eye-contact in ASD*. Poster presented at the International Meeting for Autism Research, Toronto, Canada. (\* Mentored student).

186. Righi, G.\*, Mukerji, C., Coffman, M., Naples, A., **Mayes, L.C.** & McPartland, J. (2012, May). *Electrophysiological markers of social perception in infants at risk for autism.* Poster presented at the International Meeting for Autism Research, Toronto, Canada. (\* Mentored student).

187. McPartland, J., Righi, G., Mukerji, C., Coffman, M., Naples, A. & **Mayes, L.C.** (2012, August). *Neural sensitivity to biological motion in infants at-risk for autism*. Paper accepted for presentation at the American Psychological Association Annual Convention, Orlando, FL

188. Simmons, Jessica A.,1, Crowley, Michael J.,2, Hommer, Rebecca E., 2 , **Mayes, Linda C.,** 2 & Chaplin, Tara1. 1Department of Psychiatry, Yale University 2 Yale Child Study Center, Yale University. (2013, April). *Parent-Adolescent Conflict Interactions on Adolescent Externalizing Problem Behaviors.* Poster presented at the “2013 Society for Research in Child Development Biennial Meeting” in Seattle, WA

189. Goettsche, Emily; Gal, Diana; Strathearn, Lane; Potenza, Marc; Rutherford, Helena & **Mayes, Linda.** (2013, April). *A neurophysiological study of substance use on maternal perception of emotional infant faces.* Poster presented at the “2013 Society for Research in Child Development Biennial Meeting” in Seattle, WA.

190. Gal, Diana; Rutherford, Helena; Goettsche, Emily; Strathearn, Lane; Potenza, Marc & **Mayes, Linda**. (2013, April). *The impact of maternal substance use on the neural response to infant cry*. Poster presented at the “2013 Society for Research in Child Development Biennial Meeting” in Seattle, WA

191. Robb, Jenny; Tominey, Shauna; Southwick, Steven; and **Mayes, Linda.** (2013, April). *The Impact of Parent Stress on Child Stress and Child Quality of Life Outcomes for Children with Serious Medical Illness.* Poster presented at the “2013 Society for Research in Child Development Biennial Meeting” in Seattle, WA

192. Cook, Emily C., **Mayes, Linda;** Crowley, Michael; Hommer, Rebecca; and Chaplin, Tara. (2013, April). *Individual Differences in Adolescents’ Stress Response and Associations with Internalizing and Externalizing Problems*. Poster presented at the 2013 Society for Research in Child Development Biennial Meeting” in Seattle, WA.

193. Crowley, M.J., Marquez, C., & **Mayes, L.C.** (2013) Social exclusion in the socially anxious youth: Neural correlates, fear of negative evaluation and persistent distress. Presenatation at 2013 Society for Research in Child Development Biennial Meeting” in Seattle, WA.

194. Graber, K.M., Rutherford, H.J.V., Potenza, M.N., & **Mayes, L.C.** (2015) *The impact of substance use on maternal responsiveness to infant cues.* Poster presented at 2015 Society for Research in Child Development, Philadelphia, PA.

195. Bridgett, D., Rutherford, H.J.V., & **Mayes, L.C**. (2015). *Responding to Infant Distress: Putting Parenting under the Microscope using a Baby Simulator.* Presentation at 2015 Society for Research in Child Development, Philadelphia, PA.

196. Wi, J., Crowley, M., **Mayes, L** & Baskin-Sommers, A. (2015). Time-Frequency Measures Differentially Index Affective Processing of Pictures in Psychopathic and Externalizing Offenders. Presentation given at the Society for the Scientific Study of Psychopathy, Chicago, IL.

**SELECTED INVITED PRESENTATIONS**

***REGIONAL AND NATIONAL***

1. **Mayes, L.C.** (1986). The cry as a communicative signal. Harvard School of Medicine Continuing Education Symposium.
2. **Mayes, L.C.** (1991). Prenatal cocaine exposure: What of the children? Martin Luther King Day, Yale University School of Medicine.
3. **Mayes, L.C.** (1992). Beliefs, feelings, and desires: The child's emerging understanding of other minds. Muriel Gardiner Society for Psychoanalysis and the Humanities, New Haven, CT.
4. **Mayes, L.C.** (1994). The relevance of studies of children's developing theory of mind for the development of a capacity for imagination. Rapapport-Klein Symposium on Analytic Research, June, Stockbridge, CT.
5. **Mayes, L.C.** (1995). Children’s emerging understand of mental life. Boston Child Psychoanalytic Association.
6. **Mayes, L.C.** (1997). Evolution, attachment, romantic and parental love. Rapaport-Klein Study Group, Annual meeting, Stockbridge, MA.
7. **Mayes, L.C.** (1998). Prenatal cocaine exposure and attention regulation in 4 to 5 year old children. Invited Presentation, Eastern Psychological Association, Boston, MA
8. **Mayes, L.C.**, Kessen, W. (1998). Transparency in science and psychoanalyis: the problem of the unobservable. Muriel Gardiner Seminar for Psychoanalysis and the Humanities, New Haven, CT.
9. **Mayes, L.C.** (1998). What makes development happen? The Boston Psychoanalytic Society and Institute, Inc., Boston, MA.
10. **Mayes, L.C.** (2000). A Developmental Neurobiological Perspective on Arousal Regulation. Rebecca Solomon Lecture, Institute of Living, Hartford, CT May 3, 2000.
11. **Mayes, L.C.** (2001). Being Investigator And Psychoanalyst: Quixotic Double Life Or Synthetic Quest. Western New England Institute for Psychoanalysis, New Haven, CT. September 29, 2001.
12. **Mayes, L.C.** (2001). Prefrontal cortical function and prenatal cocaine exposure. Center for Developmental Cognitive Neuroscience, Eunice Kennedy Shriver Center at University of Massachusetts Medical School.
13. **Mayes, L.C.** (2003). Reflections on future challenges for psychoanalysis. Western New England Institute for Psychoanalysis, Fiftieth Anniversary Celebration, New Haven, CT, October 2003.

14. **Mayes, L.C.** (2008). The art and business of scientific communication. Fulton Lecture. April, 2008, New Haven.

15. Mayes, L.C. (2012). The impact of early adversity on childhood health and development. Annual Clifford Beers symposium on the long-term outcome of trauma. New Haven.

16. **Mayes, L.C.** (2013). Making Room in One’s Mind for a Child: How the Brain and Mind Change with Parenthood. Shulman Lecture, Yale University, Whitney Humanities Center Program on Science and Humanities.

17. **Mayes, L.C.** (2012). Transition To Parenting As An Adult Developmental Phase: Psychobiology Of Parenting. Rapaport-Klein Symposium, Stockbridge, MA.

18. **Mayes, L.C.** (2013). Making Room in One’s Mind for a Child: How the Brain and Mind Change with Parenthood.. Invited speaker to conference on attachment based interventions at MGH, Boston, MA.

19. **Mayes, L.C.** (2013).Long-term Outcome of Prenatal Cocaine Exposure and Relationship to Early Adversity. Harvard School of Medicine Symposium on Prenatal Exposures, Boston, MA.

20. **Mayes, L.C.** (2014). The neurobiology of child neglect and abuse. Seminar at

Harvard Center for the Developing Child, Boston, MA.

21. **Mayes, L.C.** and Yu, K. (2014). The psychology of place in child development.

Austen Riggs Symposium on Place and Psychological Development. Stockbridge, MA.

22. **Mayes, L.C.** (2015). The neural circuitry of attachment and the relation to interventions for parents. Scientific Session for Connecticut Society for Psychoanalytic Psychology, New Haven.

***NATIONAL***

23. **Mayes, L.C.** (1990). A developmental approach to the state of being curious. National Center for Clinical Infant Programs, Washington, DC.

24. **Mayes, L.C.** and Granger, R.H. (1990). Methodologic issues in studying the sequelae of prenatal cocaine exposure. National Center for Clinical Infant Programs, Washington, DC.

25. **Mayes, L.C.**, Cohen, D.J., and Klin, A. (1991). Experiencing self and others: A psychoanalytic perspective on theory of mind and autism. Society for Research in Child Development, Pre-meeting symposium on Theory of Mind, Seattle, WA.

26. **Mayes, L.C.** and Klin, A. (1991). The development of a capacity to understand metaphor and irony in early childhood. National Center for Clinical Infant Programs, Washington, DC.

27. **Mayes, L.C.** and Cohen, D.J. (1991). Experiencing self and others: Contributions from studies of autism to the psychoanalytic theory of social development. American Psychoanalytic Association.

28. **Mayes, L.C.** and Cohen, D.J. (1992). The concept of constitution and endowment in child psychoanalysis. American Academy of Child and Adolescent Psychiatry. Washington,DC

29. **Mayes, L.C.** (1993). Effects of cocaine exposure on the behavioral outcomes of preschool aged children. NIDA Technical Conference, Washington DC.

30. **Mayes, L.C.** (1993). Methodologic dilemmas in understanding the effects of prenatal cocaine exposure. NIDA Symposium on Special Issues in Substance Abuse, Washington DC.

31. **Mayes, L.C.** and Cohen, D.J. (1993). Love and aggression in the preschool child. Society for Research in Child Development, New Orleans, LA.

32. **Mayes, L.C.** (1994). Children exposed prenatally to cocaine: A model for studies of early trauma. Workshop on Urban Violence and Trauma in Childhood at the American Academy of Child and Adolescent Psychiatry Meetings, San Antonio, TX.

33. **Mayes, L.C.** (1994). Biologic models of prenatal cocaine exposure. Developmental colloquium, Center for Studies of Child Development, Robert Wood Johnson Medical School, New Brunswick, NJ.

34. **Mayes, L.C.** (1994). Prenatal cocaine exposure as a model for understanding vulnerability in young children. American Psychoanalytic Association Meetings, Philadelphia, PA.

35. **Mayes, L.C.** (1994). Visual habituation performance in infants exposed prenatally to cocaine. 13th International Association for Child and Adolescent Psychiatry and Allied Professions, San Francisco, CA.

36. **Mayes, L.C.** (1994). The development of a capacity for imagination in young children. Houston-Galveston Psychoanalytic Society Symposium on Child Analytic Research.

37. **Mayes, L.C.** (1994). Urban violence and the relation to children growing up in substance abusing families. Symposium on urban violence presented at the 13th International Association for Child and Adolescent Psychiatry and Allied Professions, San Francisco, CA.

38. **Mayes, L.C.** (1995). Mother-infant interaction between cocaine-abusing parents and their 3 and 6 month old infants. College on Problems of Drug Dependence, Special Panel on Parenting and Substance Abuse, Scottsdale, AZ.

39. **Mayes, L.C.** and Kain, Z (1995). Anxiety among preschool aged children undergoing anesthesia induction. NICHD Symposium (“Child Development and Behavioral Pediatrics”) at Society for Research in Child Development, Indianapolis, IN.

40. **Mayes, L.C.** (1996). Early experience and the developing brain: the model of prenatal cocaine exposure. Conference on “Brain Development in Young Children: New Frontiers for Research, Policy, and Practice”, Chicago, IL.

41. **Mayes, L.C.** (1997). What makes development happen? Vulnerable Child Discussion Group, Spring meeting of the American Psychoanalytic Association, San Diego, CA.

42. **Mayes, L.C.**, Grillon, C., Granger, R., Schottenfeld, R. (1997). Regulation of arousal and attention in preschool children exposed to cocaine prenatally. New York Academy of Science, Washington, D.C.

43. **Mayes, L.C.** (1998) Prenatal exposure to drugs of abuse may affect later behavior and learning. NIDA, Technical Symposium, Washington DC.

44. **Mayes, L.C.** (1998). Neurodevelopmental outcome of prenatal cocaine exposure. American Psychiatric Association, Annual meeting (Toronto).

45. **Mayes, L.C.** (1998). A second, third, even fourth look at developmental change and child analysis. Vulnerable Child Discussion Group, American Psychoanalytic Association, New York, December, 1998.

46. **Mayes, L.C.** (1999). Developmental approaches to the concept of self. Invited presenter to Symposium of the Institute for Psychoanalytic Training and Research, the Evolution and Dissolution of the Self, New York, NY.

47. **Mayes, L.C.** (1999). Issues of arousal regulation, body image, and object relations with early impoverished caretaking. Invited discussant to Association for Child Psychoanalysis, Seattle, WA.

48. **Mayes, L.C.** (1999). Relevance of developmental neuroscience for clinical psychoanalysis. Invited discussant for American Psychoanalytic Association Spring Meeting, Washington, D.C.

49. **Mayes, L.C.** (1999). Regulation of attention and arousal in children exposed prenatally to cocaine. Child and Adolescent Psychiatry Rounds. Westchester Division of the New York Hospital-Cornell Medical College, New York.

50. **Mayes, L.C.** (1999). Development: the growth of the mind. National Academy for Leadership in Education, 1999 Summer Institute of the School Development Program, New York City.

51. **Mayes, L.C.** (1999). Prenatal Cocaine Exposure and The Regulation Of Arousal And Attention. NIDA Scientific Symposium. Washington, DC.

52. **Mayes, L.C.** (1999). Twin poles of order and chaos: development as a dynamic, self-ordering system. The New York Psychoanalytic Society, Heinz Hartmann Lecture.

53. **Mayes, L.C.** (1999). Twin poles of order and chaos: development as a dynamic, self-ordering system. Philadelphia Psychoanalytic Association, Visiting Lecturer.

54. **Mayes, L.C.** (1999). A Developmental Neurobiological Perspective On The Ego Functions Attention and Arousal Regulation. North American International Psychoanalytic Research conference on Neuroscience, Development and Psychoanalysis. New York.

55. **Mayes, L.C.** (2000). Human Studies of the Neurodevelopmental Sequelae of Prenatal Cocaine Exposure. Special NIDA Symposium on Neuroimaging and Prenatal Drug Exposure. Washington, DC.

56. **Mayes, L.C.** (2000). Understanding the social brain and implications for early development. Invited speaker to special symposium on early development, Harris Foundation, Chicago, Illinois.

57. Lassonde, S., & **Mayes, L.C.** (2001). Looking In and Seeing Out: Contexts of a Longitudinal Study in the Age of Eisenhower. Invited joint presentation to MacArthur Foundation Research Network on Successful Pathways Through Middle Childhood, Santa Monica, California.

58. **Mayes, L.C**. (2001). Parental preoccupation and the biology of parenting. Invited presentation as part of visiting scholar to the Baltimore-Washington Psychoanalytic Society.

59. **Mayes, L.C.** (2001). A neurobiological model of the regulation of arousal and attentional states in high-risk children. Invited presentation as part of visiting professorship to the Menninger Clinic, Topeka, Kansas.

60. **Mayes, L.C.** (2001). A neurobiological model of arousal regulation in prenatally cocaine-exposed school-aged children. Special NIDA symposium at the Society for Research in Child Development, Minneapolis, Minnesota.

61. **Mayes, L.C.** (2002). Recent findings regarding long-term outcome of infants exposed to cocaine prenatally. NIDA scientific symposium, Rockville, Maryland.

62. **Mayes, L.C.** (2002). Addressing the Mental Health Needs of At-Risk Infants, Parents, and Families: The Role of Intragenerational Depression. Special symposium convened by the Harris Foundation, Chicago, Illinois.

63. **Mayes, L.C.** (2003). Challenges for the field of early child development: Helping Parents And Their Young Children. Invited speaker to: Making Wise Investments: How do we help our nation’s most vulnerable families? A festschrift for Irving B. Harris. University of Chicago, Chicago, Illinois.

64. **Mayes, L.C.** (2003). Human Studies of the Neurodevelopmental Sequelae of Prenatal Cocaine Exposure. Houston Psychiatric Association, Houston Texas.

65. **Mayes, L.C.** (2003). The neurobiology of parental affiliation. Houston Psychoanalytic Society, Houston Texas.

66. **Mayes, L.C.** (2003) The Neurobiology of emotional regulation in infants and young children. Weil Memorial Lecture, Boston Massachusetts.

67. **Mayes, L.C.** (2003). Arousal regulation and prenatal cocaine exposure. NIDA Center for Addiction Studies, Baltimore, Maryland.

68. **Mayes, L.C.** (2004). Neurodevelopmental sequelae of prenatal cocaine exposure. Columbia University School of Medicine.

69. **Mayes, L.C.** (2004). Maternal Behavior: Genes, neural circuitry, and environmental contexts. University of Cincinnati, Department of Psychiatry, Grand Rounds.

70. **Mayes, L.C.** (2004). Human studies of the neurodevelopmental sequelae of prenatal cocaine exposure. University of Cincinnati, Division of Child Psychiatry, Grand Rounds.

71. **Mayes, L.C.** (2004). Neurodevelopmental sequelae of prenatal cocaine exposure. Special NIDA sponsored symposium at the American Psychiatric Association, New York, NY.

72**. Mayes, L.C.** (2004).  Maternal behavior-Neural circuits, genes, and environmental contexts.  Psychiatric grand rounds at Southwestern School of Medicine, Dallas, Texas.  (Similar presentation to the Dallas Psychoanalytic Society and The Dallas Foundation for Psychoanalysis)

73. **Mayes, L.C.** (2004).  Emotional Regulation in Young Children: Research and Clinical Implications.  Plenary Speaker for the Boston Institute for the Development of Infants and Parents, Boston Massachusetts.

74. **Mayes, L.C.** (2004). Perspectives on Parental Affiliation: Neural circuits, genes, and environmental contexts: Psychiatric grand rounds at Baylor College of Medicine, Houston, Texas.

75. **Mayes, L.C.** (2004). Minding the Baby: A Reflective Parenting Program. Invited speaker for Conference on Mentalization Based Therapies; Baylor College of Medicine and Menninger Clinic at Baylor, Houston, Texas.

76. **Mayes, L.C.** (2005). Primary Maternal Preoccupation: The Neural Circuitry of Parenting. Anna Freud Memorial Lecturer. New York Freudian Society.

77. **Mayes, L.C.** (2004). Minding the Baby: A Reflective Parenting Program.  Invited speaker for Conference on Mentalization Based Therapies; Baylor College of Medicine and Menninger Clinic at Baylor, Houston, Texas.

78. Slade, A., and **Mayes, L.C.** (2005).  Implementing a reflective parenting program. Minding the Baby.  Presentation to scientific session of IPTAR, New York, February 2005.

79. **Mayes, L.C.** (2005) Reflective Parenting Interventions.  Presented as the Harris Visiting Professor lecture at the Harris Early Child Program, Institute of Child Development, University of Minnesota,  May 2005.

80. **Mayes, L.C.** (2005).  Mentalization based interventions with high risk first time mothers.  Presentation in an institute for the American Association of Child and Adolescent Psychiatry, Toronto, October 2005.

81. **Mayes, L.C.** (2006). Neural Circuitry of Attachment. Prager Lecture at George Washington Univeristy.

82. **Mayes, L**.C. (2007): Developmental Trajectories to Adolescent Substance Abuse. College For Problems on Drug Dependence, Pittsburgh, PA.

83. **Mayes, L**.**C.** (2007). How Prenatal Cocaine Exposure May Impact Adolescent Risk For Addiction. Sackler Institute, New York, NY.

84. **Mayes, L**.**C.** (2009). Minding the Baby: Bringing the Basic Science of Parental Attachment to Community Based Services. Annual Conference on Bridging Basic Science and Therapeutic Interventions. Boston, MA.

85. **Mayes, L.C.** (2009). A Psychobiological Model Of Parental Dysfunction: The Role of Early Adversity and Chronic Stress. National Scientific Council for the Developing Child, San Francisco, CA.

86. **Mayes, L**.**C.** (2010). How Neural Models of Parenting Inform Mentalization Based Interventions with Parents. Sydney Pulver Lecture for the Philadelphia Psychoanalytic Society.

87. **Mayes, L.C.** (2011). The Relationship Between Early Adversity, Adolescent Brain Structure and Function, and Risk Taking. College for Problems on Drug Dependence, Florida and American Psychiatric Association, Washington, DC.

88. **Mayes, L.C.** (2012). Neural Circuitry of Attachment and Parenting. Grand Rounds, MGH Department of Psychiatry.

89. **Mayes, L.C.** (2012). Making Room in One’s Mind for a Child: How the Brain and Mind Change with Parenthood. Invited speaker to conference on trauma and early interventions at Baylor College of Medicine.

90. **Mayes, L.C.** (2013). The Relationship Between Early Adversity, Adolescent Brain Structure and Function, and Risk Taking. American Psychiatric Association Symposium, San Francisco, CA.

91**. Mayes, L.C.** (2014). Translating the Neuroscience of Parenting into Interventions

for Parents: Minding the Baby. New York Academy of Science, New York.

***INTERNATIONAL***

92. **Mayes, L.C.** (1993). The child's emerging understanding of other minds. International Psychoanalytic Association Conference on Research, London.

93. **Mayes, L.C.** (1994). Integration of child psychoanalysis and studies of children's developing theory of mind. Instituto Italiano Per Gli Studi Filosofici, "Insight e Teoria Della Mente Nello Sviluppo e Nella Clinica" Naples, Italy.

94. **Mayes, L.C.** (1996). Developmental and psychopathology: prevention in pre-school years. International Association for Child and Adolescent Psychiatry and Allied Professions International Meeting, Rome, Italy.

95. **Mayes, L.C.** (1997). Arousal regulation in prenatally cocaine exposed infants and children. World Psychiatric Association Thematic Conference: The Synthesis Between Psychopharmacology and Psychotherapy. Jerusalem, Israel.

96. **Mayes, L.C.** (1999). Regulation of arousal in preschool children exposed to cocaine prenatally. Invited NIDA symposium at College for Problems on Drug Dependence, Annual Scientific Meeting, Acapulco, Mexico.

97. **Mayes, L.C.** (1999). Appraising Notions of Risk in Infancy. Invited speaker to The Dr. E. Richard Feinberg Annual Conference, Schneider Children’s Hospital, Tel Aviv, Israel.

98. **Mayes, L.C.** (2001). Longitudinal Research Methods with High-Risk Prenatally Drug-Exposed Children. Summer Research Training Institute, University College London.

99. **Mayes, L.C.** (2002). Children Growing up in Adversity. Invited Plenary Speaker for the Fiftieth Anniversary of the Anna Freud Centre, London.

100. **Mayes, L.C.** (2004). Interface of neuroscience and psychodynamic perspectives. Invited discussant for conference on Developmental Science and Psychoanalysis: Innovation and Integration. University College London and the Anna Freud Centre, London (part of the activities of the Anna Freud Centre-Child Study Center program).

101. **Mayes, L.C.** (2005). Interface of developmental neuroscience and psychoanalysis. Plenary keynote. Joseph Sandler Research Conference, London.

102. **Mayes, L.C.** (2006). Reflective parenting interventions: Minding the Baby. Conference on Mentalization Based Interventions. London.

103. **Mayes, L.C.** (2006). Reflective Parenting Programs. Helsinki, Finland (visiting professor). (Also delivered lectures on neural circuitry of parenting and emotional regulation in childhood).

104. **Mayes, L.C.** (2007). Developing risk reward systems and adolescent risk for addiction. Conference on adolescent development. London.

105. **Mayes, L.C.** (2007). Neural circuitry of attachment and implications for intervention. Invited Plenary address at Canadian Association of Child Psychiatry.

106. **Mayes, L.C.** (2008). Parental Neural Circuitry and Minding the Baby. TheFeinberg Memorial Lecture, Schneider Children's Hospital, Tel Aviv, Israel, March 5, 2008. Co-authors, L. Sadler & A. Slade.

107. **Mayes, L.C.** (2010): Psychobiology of Parenting. Presentation to the Alberta Wellness Initiative, Banff, Canada.

108.  **Mayes, L.C.** (2011). Stress, Addiction, and Parenting. Invited Presentation to Wellness Initiative, Banff Canada.

109. **Mayes, L.C.** (2012). Neural Circuitry of Attachment. Invited Presentation to Joseph Sandler Conference. Frankfurt, Germany.

110. **Mayes, L.C.** (2013). Childhood Anxiety. Invited Presentation to University College London Conference on Childhood Psychopathology. London.

111. **Mayes, L.C.** (2014). Maternal depression, addiction, and parenting. Invited Presentation to Norlein Foundation Early Childhood Initiative, Banff, Canada.

112. Rutherford, H.J.V., Potenza, M., and **Mayes, L.C.** (2014). Making Room in One’s Mind for a Child: How the Brain and Mind Change with Parenthood. University College London Symposium on Neurobiology of Attachment, London.

**Personal**

Date of Birth: October 14, 1951

Place of Birth: Sewanee, Tennessee

Certification:

National Board of Medical Examiners. Diplomate. July 1978, #184798

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