

## ***CURRICULUM VITAE***

**Name:** James F. Leckman, MD, PhD, Neison Harris Professor of Child Psychiatry, Psychiatry, Pediatrics & Psychology, Yale University



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**Date and Place of Birth:** December 3, 1947 - Albuquerque, New Mexico

### **Education:**

|             |                                                                              |
|-------------|------------------------------------------------------------------------------|
| B.A., 1969  | The College of Wooster<br>Wooster, Ohio 44691                                |
| M.D., 1973  | University of New Mexico School of Medicine<br>Albuquerque, New Mexico 87106 |
| Ph.D., 2014 | University of São Paulo<br>São Paulo, Brazil                                 |

### **Career:**

|           |                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1973-1974 | Straight Medical Intern, USPHS Marine Hospital<br>San Francisco, California 94118                                                           |
| 1974-1976 | Clinical Associate, Section on Psychogenetics<br>Adult Psychiatry Branch<br>National Institute of Mental Health<br>Bethesda, Maryland 20014 |
| 1976-1979 | Postdoctoral Fellow, Department of Psychiatry<br>Yale University School of Medicine<br>New Haven, Connecticut 06520                         |

**Career (continued):**

|            |                                                                                                                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1978-1979  | Chief Resident, Clinical Research Unit<br>Research Facilities<br>Connecticut Mental Health Center<br>Department of Psychiatry<br>Yale University School of Medicine<br>New Haven, Connecticut 06520 |
| 1979-1994  | Clinical Associate<br>Western New England Institute for Psychoanalysis<br>New Haven, Connecticut 06511                                                                                              |
| 1979-1980  | Postdoctoral Fellow in Child Psychiatry<br>Child Study Center<br>Yale University School of Medicine<br>New Haven, Connecticut 06520                                                                 |
| 1980-1983  | Assistant Professor of Psychiatry and Pediatrics<br>Child Study Center<br>Yale University School of Medicine<br>New Haven, Connecticut 06520                                                        |
| 1981-      | Attending Physician<br>Yale New Haven Hospital<br>New Haven, CT 06520                                                                                                                               |
| 1981- 2005 | Associate Program Director<br>Children's Clinical Research Center<br>Yale University School of Medicine<br>New Haven, Connecticut 06520                                                             |
| 1983-1987  | Associate Professor of Psychiatry and Pediatrics<br>Child Study Center<br>Yale University School of Medicine<br>New Haven, Connecticut 06520                                                        |
| 1983-2010  | Director of Research<br>Child Study Center<br>Yale University School of Medicine<br>New Haven, Connecticut 06520                                                                                    |
| 1985-2015  | Program Director<br>NIMH-Merck Postdoctoral Research Training Program<br>Child Study Center<br>Yale University School of Medicine<br>New Haven, Connecticut 06520                                   |

**Career (continued):**

|           |                                                                                                                                                                        |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1987-1990 | Neison Harris Associate Professor of Child Psychiatry and Pediatrics (without term)<br>Child Study Center<br>Yale University School of Medicine<br>New Haven, CT 06520 |
| 1987-1988 | Sabbatical leave - molecular genetics and developmental neurobiology<br>Department of Biology<br>Yale University<br>New Haven, CT 06520                                |
| 1990-     | Neison Harris Professor of Child Psychiatry, Psychology & Pediatrics<br>Child Study Center<br>Yale University School of Medicine<br>New Haven, CT 06520-7900           |
| 1997      | Sabbatical leave - evolutionary biology<br>The Neurosciences Institute<br>San Diego, CA 92121                                                                          |
| 1998      | Visiting Fellow<br>Wolfson College<br>Cambridge CB2 2AH<br>United Kingdom                                                                                              |
| 1998      | Sabbatical Leave - molecular ethology<br>Sub-Department of Animal Behavior<br>University of Cambridge<br>Madingley CB3 8AA<br>United Kingdom                           |
| 2011-2012 | Sabbatical Leave –<br>Institute of Psychiatry University of Sao Paulo, Brazil                                                                                          |
| 2011-2012 | Sabbatical Leave – Sub-Department of Animal Behavior<br>University of Cambridge, Cambridge, United Kingdom                                                             |
| 2011-2012 | Sabbatical Leave - University of Southern Denmark, Odense, Denmark                                                                                                     |

**Professional Honors and Recognition:**

Phi Beta Kappa, The College of Wooster: 1969  
 USPHS-AAMC Fellowship, RAMBAM Hospital, Haifa, Israel, University of New Mexico:  
 1972  
 Alpha Omega Alpha, University of New Mexico: 1973  
 Seymour L. Lustman Research Award, Department of Psychiatry, Yale University: 1978 & 1979

## Professional Honors and Recognition, continued:

Sigma Xi, Yale Chapter: 1980

William T. Grant Foundation, Research Scholar: 1980-198

H.P. Laughlin Fellowship, American College of Psychiatrists: 1981

Merck Faculty Scholar, John Merck Fund: 1982-1991

***Journal of the American Academy of Child and Adolescent Psychiatry***, Editorial Board: 1982-1988

Scientific Program Committee, American Academy of Child Psychiatry: 1983-1987

***Journal of the American Academy of Child and Adolescent Psychiatry***, Guest Co-editor, Special Section on ***Tourette's*** Syndrome, 1984

Psychopathology and Clinical Biology Initial Research Review Committee (Study Section), NIMH: 1985-1990

Milton M. & Harriet H. Parker Lectureship in Psychiatry and Human Genetics, Ohio State University: 1985

American College of Neuropsychopharmacology, elected to membership: 1985

Consultant, U.S. Army in Europe, Heidelberg: 1986

***Development and Psychopathology***, Editorial Board: 1988-1994

American Psychiatric Association, elected to Fellowship: 1988

American Academy of Child Adolescent Psychiatry, elected to Fellowship: 1988

Chairman, Steering Committee, NIMH sponsored Study of Research on Child and Adolescent Mental Disorders, Institute of Medicine: 1988-1989

Scientific Advisory Board, Sophia Foundation for Medical Research, Rotterdam: 1989-1994, 2003

Consultant, National Advisory Mental Health Council: 1989-1990

***Journal of the American Academy of Child and Adolescent Psychiatry***, Guest Editor, Special Section on Genetics, 1990

***Journal of Child and Adolescent Psychopharmacology***, Editorial Board: 1990-present

Scientific Advisory Board, Tourette Syndrome Association: 1991- 1995

President, Connecticut Council of Child and Adolescent Psychiatrists: 1991-1993

American College of Psychiatrists, elected to membership: 1991-2000

American College of Neuropsychopharmacology: elected to Fellowship: 1991; Co-Chair of the Constitution and Rules Committee, 1998

Chairperson, Child Psychopathology and Treatment Initial Research Review Committee (study section), NIMH: 1992-1995

***Acta Paedopsychiatrica***, Editorial Board: 1992-1998

Roerig Visiting Professor, University of Illinois at Chicago, 1992

National Alliance for Research on Schizophrenia and Affective Disorders, Established Investigator Award: 1993

Visiting Professor, University of Pittsburgh, Western Psychiatric Institute and Clinics: 1993

Invited Plenary Speaker, Annual Meeting of the Society for Biological Psychiatry: 1993

***Anxiety***, Editorial Board: 1993-1997

Plenary Speaker, 13th International Congress, International Association of Child and Adolescent Psychiatry and Allied Professions, July 1994

***Journal of Child Psychology and Psychiatry and Allied Disciplines***, Corresponding Editor (North America): 1995-2001

## Professional Honors and Recognition (continued):

Invited to prepare a “Report Card on NIMH’s National Plan for Research on Child and Adolescent Mental Disorders” by the American Academy of Child and Adolescent Psychiatrist. This report was published in the *Archives of General Psychiatry* September 1995 and endorsed by 25 national organizations including the Society for Neuroscience, the Academy of Pediatrics, the National Alliance for Research on Schizophrenia and Depression, and the National Alliance for the Mentally Ill.

*Neuropsychopharmacology*, Editorial Board: 1995-1998

Blanche E. Ittleson Award for Research in Child Psychiatry, American Psychiatric Association: 1995

Leroy Hoeck Award Lecture, Children’s National Medical Center: May 1996

Search Committee, Editor of *Biological Psychiatry*: 1996-1997

Best Doctors in America, 1996

*Depression and Anxiety*, Editorial Board, 1997-2012

*CNS Spectrums*, Board of Advisors, 1997-2002

Reviewer, National Obsessive-Compulsive Foundation, 1997-Present

Keynote address, Simpósio Internacional: Transtorno Obsessivo-Compulsivo e Suas Fronteiras, Sao Paulo, Brazil, August 1997

*Journal of the American Academy of Child and Adolescent Psychiatry*, Deputy Editor: 1998-2007

*Biological Psychiatry*, Editorial Board: 1998-2001

Keynote address, Tourette Syndrome Association, biennial National meeting, Alexandria, VA, October 1998

Invited Research Update Review with Linda Mayes, *Journal of the American Academy of Child and Adolescent Psychiatry*: Understanding developmental psychopathology: How useful are evolutionary perspectives? 1998; 37:1011-1021.

*Revista Brasileira de Psiquiatria*, Editorial Board, 1999-present

Scientific Advisory Board, NIMH, Treatment of Adolescent Depression Study: 1999-2006

Invited editorial, *American Journal of Psychiatry*: “Incremental Progress in Developmental Psychopathology: Simply complex” – October 1999

Committee on Psychiatric Diagnosis and Assessment, DSM-IV Text Revision, American Psychiatric Association, 1999-2005

Member, Scientific Advisory Panel, American Psychiatric Institute for Research and Education, 1999

Chair, Constitution Committee, American College of Neuropsychopharmacology, 1999-2000

Pfizer Visiting Professor, Wayne State University, Detroit, January 2000

Member, National Mental Health Advisory Council Workgroup on Child Intervention Research, charged with the development of a New National Plan of Research on Child and Adolescent Mental Health, 2000-2001

The 20<sup>th</sup> Annual Daniel Prager Lectureship in Psychoanalytic Psychiatry, The George Washington University, May 2000

*Ad Hoc* reviewer for the Board of Scientific Councilors, National Institute of Mental Health Intramural Research Program, June 2000

Invited Research Update Review with Matthew State, Paul Lombroso, and David Pauls, *Journal of the American Academy of Child and Adolescent Psychiatry*: The genetics of childhood psychiatric disorders: A decade of progress, 2000, published in September 2000.

## Professional Honors and Recognition (continued):

Invited Minireview, *Neuron* "Tourette's syndrome: When habit-forming units form habits of their own" published in November 2000

Chairperson, Committee of Development and Natural History, Strategic National Plan for Mood Disorders Research, National Institute of Mental Health, 2000-2001

Founder, Donald J. Cohen Medical Student Fellowship Program, Yale University School of Medicine, 2001

Invited Special Plenary Lecturer, Chinese Medical Association Annual Meeting, Tapei, Taiwan, Republic of China, June 2001

Distinguished Alumni Award, The College of Wooster, Wooster, OH, June 2001

Invited Special Plenary Lecturer, National Congress of the South African Association of Child and Adolescent Psychiatry, Johannesburg, South Africa, September 2001

Invited Organizer and Lecturer, Annual Meeting of the American Academy of Child and Adolescent Psychiatrists, Honolulu, Hawaii, 2001

Scientific Committee, Fondazione per lo Studio e la Ricerca sull'Infanzia e l'Adolescenza, Modena, Italy, 2001-present

Highly Cited Researchers, identified as being one of the world's most cited authors in Psychology/Psychiatry – in the top half of the top one percent of all publishing researchers, American Society for Information, Science & Technology, 2002

*Journal of Child Psychology and Psychiatry and Allied Disciplines*, Editorial Board, 2002-2012

Visiting Professor, University of São Paulo Medical School, São Paulo, Brazil, 2002-present  
Chair, Council Task force on Curricular Reform for the American Academy of Child and Adolescent Psychiatry, 2002-2006

Invited Seminar, *The Lancet* "Gilles de la Tourette's syndrome," 2002

Member, Program Committee, American College of Neuropsychopharmacology, 2002-2004

Scientific Council, National Alliance for Research on Schizophrenia and Affective Disorders (NARSAD), now named Brain and Behavior Research Foundation, 2002-present

Visiting Professor, Mood & Anxiety Disorders Program, Intramural Program NIMH, Bethesda, MD, 2003.

Keynote Address, NIMH Workshop on Enhancing Research Efforts in Child Mental Health, Bethesda, MD, 2003.

Warren Wright Guest Speaker, Northwestern Memorial Hospital, Chicago, May 2003.

Rapporteur, Dahlem Workshop on Attachment and Bonding: A New Synthesis. Berlin, 2003.

Co-Chair, National Psychiatry Training Council established by NIMH to implement the Institute of Medicine report, "Research Training in Psychiatry Training: Strategies for Reform," released in October 2004-5.

Founder, ERICE (*Empowerment & Resilience in Children Everywhere*) an NGO to promote mental health among Palestinian and Israeli children, the victims of a violent conflict, 2004.

Board Member, Fondazione Child, an Italian NGO <http://www.fondazionechild.it/> whose aim is to promote a child-centered culture through gaining a deeper understanding of causes and treatments of physical and mental diseases, 2004-present

Scientific Council, National Organization for Rare Diseases (NORD) <https://rarediseases.org/>, 2004-present

Founder Albert J. Solnit Integrated Residency Program, Yale University School of Medicine, 2004

Plenary Speaker, International Congress, International Association of Child and Adolescent Psychiatry and Allied Professions, Berlin, August 2004

## **Professional Honors and Recognition (continued):**

*Journal of Neural Transmission*, Editorial Board, 2005-2008

*Child Psychiatry and Human Development*, Editorial Board, 2005-present

*Advances in Cognitive Science*, Editorial Board, 2005-2010

*Journal of Child Psychology and Psychiatry and Allied Disciplines*, Editor of Annual Review Issues, 2005-2013

Invited Lecturer, RIKEN Brain Science Institute Summer Program, 2005, Tokyo, Japan

National Alliance for Schizophrenia and Affective Disorders, Featured Researcher 2005

America's Top Doctors: annually selected by his peers from 2003 to the present (2018).

Outstanding Mentor Award, American Academy of Child and Adolescent Psychiatry: 1990 (1 trainee cited), 1992 (2 trainees cited), 1995 (1 trainee cited), 2001 (1 trainee cited); 2005 (1 trainee cited)

Plenary Speaker, International Congress, International Association of Child and Adolescent Psychiatry and Allied Professions, Melbourne, September 2006

Inaugural Lecturer, Program in Child and Adolescent Psychiatry, Visiting Professor, Federal University of São Paulo, Paulista Medical School, São Paulo, Brazil, 2007

Plenary Speaker, European Society for Child and Adolescent Psychiatry, Florence, August 2007

Ruane Prize, for an outstanding scientist carrying out research on the causes, pathophysiology, treatment, or prevention of severe child psychiatric illness. National Alliance for Research on Schizophrenia and Affective Disorders (NARSAD), 2007

Child and Adolescent Workgroup, DSM-5, American Psychiatric Association, 2007-2013

*Journal of the American Academy of Child and Adolescent Psychiatry*, Editorial Board: 2008-present

National Institute of Mental Health Council Workgroup on Research Training, 2008

Member of the Scientific and Ethical Advisory Board, European Multicentre Tics in Children Studies, 2008-2018

Plenary Speaker, British Neuropsychiatric Association, London, February 2009

Plenary Speaker, Congresso della Societa Italiana di Psicopatologia, February 2009

American Psychiatric Association and the American Association of Chairs of Departments of Psychiatry, Research Mentorship Award, May 2009.

State-of-the-Art Lecturer, International Congress, International Association of Child and Adolescent Psychiatry and Allied Professions, Beijing, June 2010

John F. Kenward Memorial Lecturer, University of Chicago, November 2010

Visiting Professor, Universidade de São Paulo, São Paulo, Brazil, 2011-present

Identified by BiomedExperts as the leading expert on Tourette's Syndrome for 2011- 2014

Lionel Hersov Visiting Lecturer in Glasgow, Scotland and Dublin, Ireland, Association of Child and Adolescent Mental Health, UK, 2012

Visiting Professor, University of Southern Denmark, Odense, Denmark, 2012-2016

State-of-the-Art Lecturer, International Congress, International Association of Child and Adolescent Psychiatry and Allied Professions, Paris, July 2012

Visiting Professor, University of Ulm, Ulm, Germany, 2012

Plenary Speaker, 20<sup>th</sup> Anniversary Symposium, German Tourette Syndrome Association, Ulm, Germany, October 2012

Plenary Speaker, 17<sup>th</sup> meeting of the Israel Society for Biological Psychiatry, Kibbutz HaGoshrim, March 2013

Plenary Speaker, 24<sup>th</sup> meeting of the American Neuropsychiatric Association, Boston, MA, April 2013

**Professional Honors and Recognition (continued):**

Plenary Speaker, 10<sup>th</sup> Annual Research Training Seminar – Fondazione Child, Bocca di Magra, Italy, June 2013

Plenary Speaker, Launch of the Early Childhood Peace Consortium, United Nations, New York, NY September 2013

Co-chair of the 15<sup>th</sup> Ernst Strüngmann Forum, “*Pathways to Peace: The Transformative Power of Children and Families*,” Frankfurt Institute for Advanced Studies, Frankfurt, Germany, October 2013

Keynote address, Brad Cohen Foundation Tourette Syndrome Conference, Atlanta, GA, February 2014

Keynote address, M8 Alliance World Health Summit Regional Meeting – Latin America, São Paulo, Brazil. Universidade de São Paulo, São Paulo, Brazil, April 2014

Organizer and speaker at the week-long Yale Global Health Leadership Institute, Forums for Change 2014, Brazil: Investing early in healthy children, New Haven, August 2014.

Featured speaker at Luncheon UN High-level Forum on The Culture of Peace, organized by Yale University, the Early Childhood Peace Consortium, and UNICEF, New York, NY, September, 2014

Keynote address, Simpósio Internacional de Desenvolvimento da Primeira Infancia, São Paulo, Brazil, November 2014

Plenary Speaker, Founding Forum of the Arab Network for Early Childhood, Amman, Jordan, December 2014

Advisory Council, *How I Decide*, an NGO focused on equipping youth with skills to be better decision makers throughout their lives, 2014-present.

Speaker at the UN Committee on the Family, New York, NY, March 2015

Agnes Purcell McGavin Award for a Distinguished Career Achievement in Child and Adolescent Psychiatry, American Psychiatric Association, Toronto, Canada, May 2015

Plenary Speaker, Global symposium – Growing up in Conflict: the impact of children’s mental health and psychosocial well –being, organized by UNICEF and the government of the Netherlands, The Hague, Netherlands, May 2015

Keynote address, Early Childhood Peace Consortium, organized by Mother and Child Education Foundation (AÇEV), Yale University and UNICEF Istanbul, Turkey, June 2015

Paulina F. Kernberg Memorial Lecture, Weill Cornell Medical Center, New York, November 2015

Invited Speaker by Executive Director of UNICEF to address the Country Representatives of Group of Friends at UNICEF Headquarters, New York, NY, April 2016

Brain and Behavior Research Foundation, Meet the Scientist Webinar Series, Primary Prevention in Child Psychiatry: The Transformative Power of Children and Families, May 2016

<https://bbrfoundation.org/meet-the-scientist-may-2016>

Distinguished Life Fellow, American Psychiatric Association, Atlanta, Georgia, May 2016

Lifetime Achievement Award, the European Society for the Study of Tourette Syndrome, 9th European Conference on Tourette Syndrome and Tic Disorders, Warsaw, Poland, June 2016

Tourettes Action Lifetime Achievement Award for Research and Contributions to Patient Groups, 9th European Conference on Tourette Syndrome and Tic Disorders, Warsaw, Poland, June 2016

Invited Panelist, High–Level Meeting Hosted by the Swedish and Italian Missions to the UN and The World Childhood Foundation USA on Solutions to Achieve the Sustainable Development Goals for Children, New York, NY, September 2016



**Professional Honors and Recognition (continued):**

- Keynote address, Associação Brasileira de Psiquiatria (Brazilian Association of Psychiatry) annual meeting, São Paulo, Brazil, November 2016
- Speaker at the International Peace Research Association. Freetown, Sierra Leone, December 2016.
- Grand rounds presentation on *Primary Prevention in Child Psychiatry: The Transformative Power of Children and Families* at Stanford University, March 2017.
- Plenary speaker at the Global Reporting Institute on Early Childhood Experience and the Developing Brain, Columbia University School of Journalism, New York, NY, March 2016.
- Plenary speaker at a symposium on Early Childhood Development Programmes for Peace Building in Conflict-Affected Countries and Region, Belfast, Northern Ireland, UK, May 2016.
- Host and speaker at the Yale UNICEF Conference on Refugee Children– organized by the Yale undergraduates who are members of the Yale UNICEF Club, New Haven, CT, April 2017.
- Keynote speaker, 5th Advanced training course for the Chinese Society of Child and Adolescent Psychiatry, Chengdu, China, June 2017
- Keynote speaker, Empathy Neuroscience Conference: Translational Relevance to Conflict Resolution. Pathways to Peace: The Promise of Promoting Early Child Development, Rome, Italy, October 2017
- The Women's Board Lecture in Child & Adolescent Psychiatry, *Pathways to Peace and Violence Prevention: The Transformative Power of Children and Families*, Rush University, Chicago, November 2017
- Plenary Speaker, Child Health – Children's Life Journeys and Critical Inflection Points conference. Center for Child Well-Being and Development, University of Zurich, Zurich, Switzerland, March 2018
- Plenary Speaker, congress on From Research to Clinical Practice: The Future of Child and Adolescent Psychiatry. My presentation was entitled, *Setting the Stage for Psychopathology: The Importance of Neural Immune Cross-talk in Early Brain Development*, Modena, Italy, April 2018.
- Plenary Speaker, 14th International Training Research Seminar in Child & Adolescent Psychiatry, *Pathways to a More Peaceful and Sustainable World: The Transformative Power of Children and Families*. Bertinoro, Italy, April 2018
- Scientific Advisory Group, World Childhood Foundation-USA, A global NGO based in Sweden whose aim is to create a world where all children are free from violence, sexual abuse, and exploitation <http://www.childhood-usa.org/>, 2018-present.
- Lifetime Service Award, Yale Child Study Center, June 2018
- Plenary Speaker, 59th Japanese Society for Child and Adolescent Psychiatry Conference, Tokyo, Japan, October 2018
- Distinguished Alumnus Award, University of New Mexico School of Medicine, Albuquerque, New Mexico, October 2018
- Plenary Speaker, XXXVI Sopnia Congress – Society of Psychiatry and Neurology of Children and Adolescents, Santa Cruz, Chile, November 2018
- Conference Chair, Early Child Development Advances the Culture of Peace, Early Childhood Peace Consortium, New Haven, CT, November 2018
- Albert Nelson Marquis Lifetime Achievement Award, Marquis Who's Who, December 2018
- Plenary Speaker, Programa da Disciplina de Pós-Graduação "Transtornos Mentais a partir de Neurocircuitos: uma nova abordagem para os Transtornos Mentais" Programa Tripartite (USP, UNIFESP e UFRGS), São Paulo, Brazil, February 2019.

## Professional Honors and Recognition (continued):

Presenter and panelist at The Consortium of Universities for Global Health. Pathways to a More Peaceful World? The Transformative Power of Children and Families. Chicago, March 2019

Plenary Speaker, 15th International Training Research Seminar in Child & Adolescent Psychiatry, Pathways to a More Peaceful and Sustainable World: The Transformative Power of Children and Families. Rome, Italy, May 2019

Plenary Speaker, LINKS/QUB/ECPC Conference, Implementation and Evaluation of ECD Programs in Fragile Settings: Reflections, Lessons Learned & Next Steps, Belfast, Northern Ireland, April 2019.

Plenary Speaker, International conference on ECD, Children, Hope and Peace: The importance of ECD and negative impact of adverse events on a child's brain development as well as their future cognitive and socio-emotional skills, An-Najah National University, Nablus, Palestine, November 2019

Julius Axelrod Mentorship Award, American College of Neuropsychopharmacology, Hollywood, Florida, December 2019

Norbert and Charlotte Rieger Award for Scientific Achievement, American Academy of Child and Adolescent Psychiatry, October 2020

Highly Commended for the Eric Taylor 'Translational Research into Practice' Award, The Association for Child and Adolescent Mental Health, London, United Kingdom, 2020

## Grant Support - Current

R34 AT009877-01A1 Hedy Kober (PI) & James Leckman (Co-PI). 07/15/2019-06/30/2022  
National Center for Complementary & Integrative Health  
Mindfulness-based ADHD treatment for children: A feasibility study. Mindfulness as an intervention for Attention Deficit Hyperactivity Disorder (ADHD) in elementary school children has not been systematically studied. This project will evaluate the feasibility and acceptability of Mindfulness-Based ADHD Treatment for Children, a novel neuroscience-informed intervention for elementary school children, in clinically underserved areas.

T32 MH018268-30 Michael Crowley (Program Director) 07/01/1985-06/30/2025  
NIMH Training Program in Childhood Neuropsychiatric Disorders  
This is a multidisciplinary post-doctoral research-training program for child psychiatrists, child psychologists, and other postdoctoral scientists in epidemiology, genetics, developmental neurobiology, neuroimaging, and neuropsychopharmacology. The long-term objectives of this program are to increase the number and quality of investigators entering the field of developmental neuropsychiatric disorders. Role: Former Director from 07/01/1985-06/30/2015

R01MH118453 Flora Vaccarino (PI) 01/19/2019 - 11/30/2023  
Neurodevelopment of Tourette Syndrome  
To understand the time of origin and potential neurobiological causes of the network dysfunction associated with Tourette syndrome (TS), we will recapitulate early telencephalic development in vitro using a human induced pluripotent stem cell (iPSC) model of the disorder. Basal ganglia and cortical organoids from chronic TS patients, recovered TS patients and NC will be longitudinally analyzed and compared on the cellular, transcriptomic, epigenomic and electrophysiological levels to reveal cell fate, differentiation, molecular and functional abnormalities that underlie the disorder and its outcome. These complementary experiments will define the likely time of origin, pathophysiology, and molecular underpinnings of TS and provide a disease model where genetic and epigenetic changes can be perturbed to assess their neurobiological effects. Role: Co-investigator

## Grant Support - Current

R25 MH 077823 Andres Martin (Program Director) 08/02/2006-03/31/2022

NIMH Research Education for Future Physician-Scientists in Child Psychiatry

This application is aimed at preparing physicians for independent careers in the investigation and treatment of childhood psychiatric disorders. Role: Associate Program Director and former Director from 08/01/2006-06/30/2011

## Research Support – Completed:

National Institute for Health Research (United Kingdom) 05/01/2018-6/30/2021

Global Health Research Group on Early Childhood Development for Peacebuilding, Queen's University of Belfast; £92.5 K; Role: PI (Yale site) Peacebuilding, Queen's University of Belfast; £92.5 K; The LINKS network is part of the international Early Childhood Peace Consortium (ECPC) hosted by UNICEF, New York that seeks to support the development and evaluation of early childhood development (ECD) programs in societies affected by conflict. During its first phase, the network will support the development of programs in Colombia, Egypt, Kyrgyzstan, Mali, Palestine, Tajikistan, Timor-Leste and Vietnam.

R01 HD070821-01 James Leckman (PI) 09/26/2011 - 08/31/2016

NICHHD, NIH Director's Office; ClinicalTrials.gov #: NCT01542528

Integrated Brain, Body and Social Intervention for ADHD

This project is a Transformative R01 funded by the NIH Director's Office. It is designed evaluate and refine an innovative multi-component, neuroscience based, non-pharmacologic intervention for Attention Deficit Hyperactivity Disorder (ADHD). The proposed treatment program is innovative and involves the use of a computer based "treatment delivery system" to apply new knowledge of neuroplasticity in clinical care; transformation of existing approaches to physical education based on cognitive neuroscience; and use of an evidence-based intervention from social psychology to enhance delivery and effectiveness of neuroscience-based interventions.

UBS Optimus Foundation 6877, Open Road Alliance and Mother Child Education Foundation

(AÇEV) James Leckman (PI) 11/01/2013-06/30/2017

Impact Evaluation of the Mother-Child Education Program among Palestinian Refugees in Beirut: A

Randomized Controlled Trial. Few randomized controlled trials have explored the implementation and impacts of early childhood parenting education programs in fragile contexts and humanitarian settings. We tested the effects of a group-based intervention, the Mother-Child Education Program (MOCEP), on maternal wellbeing and positive parenting practices among refugee and other marginalized communities in Beirut, Lebanon (N =105). ClinicalTrials.gov #: NCT02402556.

R01 MH095789-01A1 Michelle Hampson (PI) 06/08/2012 - 05/31/2017

NIMH

Biofeedback of activity in the supplementary motor area for Tourette Syndrome

To determine whether biofeedback of activity from the supplementary motor area, based on real-time fMRI data, is an effective treatment for Tourette Syndrome (TS), and to use this intervention to probe the neurobiology underlying TS. Role: Investigator

**Research Support – Completed:**

K23 MH091240 Michael Bloch (PI) 08/01/2010 - 04/30/2015

NIH/NIMH: Longitudinal Structural MRI Study of Adult Outcome in Tourette Syndrome

The goals of this career development award are to (1) examine the association of childhood basal ganglia morphology and childhood cortical thickness measures and adulthood tic severity and (2) repeat structural neuroimaging scans on these subjects so that we can compare brain development between persistent TS cases, remitted TS cases and unaffected controls. Role: Mentor

Grifols, Inc. James Leckman (PI) 01/26/2011 - 01/25/2014

Gamunex for the Treatment of PANDAS: A randomized placebo-controlled trial

There are two primary aims of this trial; 1) To evaluate whether Gamunex is superior to placebo in a randomized trial for reducing obsessive-compulsive (OC) symptoms in children with pediatric neuropsychiatric disorders associated with streptococcal infections (PANDAS); 2) To evaluate the long-term stability of short-term gain in children showing a positive response to Gamunex after treatment.

R03 MH094583-01A1 (Sukhodolsky, Denis) 03/15/2012 - 02/28/2014

NIMH

EEG coherence in children with TS: Association with ADHD and tic severity

This is a proposal to investigate mesial-frontal EEG coherence during performance of a Go/No-Go task of motor response inhibition as a biomarker of tic severity and tic suppression in children with Tourette Syndrome (TS). Role: Investigator

“Neurobiological, Behavioral, and cognitive Aspects of Human Attachment.”

Principal Investigator: Ruth Feldman, Ph.D.

Agency: United States-Israel Binational Science Foundation (#2005273)

Period: July 2006-June 2014

This project is expected to (a) provide the first panoramic view on social affiliation in humans (b) evaluate similarities and differences in the neurobiology of parental and romantic attachment, (c) track the emergence of enduring bonds from their initial formative stage, and (d) inform theoretical perspectives of diverse fields on attachment processes in humans. Role: Co-PI

K01 MH079317 Young-Shin Kim (PI) 08/15/2007 - 07/31/2012

NIH/NIMH

Genetic Epidemiology of Autism Spectrum Disorders

The overall goal of this proposal is to develop expertise in genetic epidemiology; an integrated, interdisciplinary translational science that combines epidemiology, functional genomics, molecular genetics, high-throughput genotyping, bioinformatics and specialized computational methods. Role: Primary mentor

K01 MH079130 Denis Sukholdolsky (PI) 09/11/2008 - 06/30/2013

NIH/NIMH: Neurobiology of Behavior Therapy for Children with Tourette Syndrome

This career development award spans the fields of behavioral therapy and developmental neurophysiology, with a specific focus on Tourette Syndrome. Role: Mentor

**Research Support – Completed:**

Pathogenesis & Treatment of Tourette's Syndrome & Obsessive-Compulsive Disorder”

Principal Investigator: James F. Leckman

Agency: National Institute of Mental Health

Type: K05; Period: July 2005-December 2010

This Senior Scientist Award was funded in order that I could continue to explore the utility of prospective longitudinal studies to add to our knowledge about the determinants of course and outcome of TS and early-onset OCD using state-of-the-art methods for clinical assessment (symptom severity, level of psychosocial stress), genomics, immunobiology, neuroendocrinology of stress response, in vivo neuroimaging and electrophysiology. This project involved investigators and trainees across a range of disciplines, completing funded grants, analyzing existing data sets and preparing new grant applications as well as competitive renewals.

Transcranial magnetic stimulation for adults with severe Tourette syndrome

Principal Investigator: James F. Leckman, M.D.

Agency: Tourette Syndrome Association; Period: July 2007-June 2011

The long-term objective of this clinical trial is to establish the safety and efficacy of rTMS in patients with severe Tourette syndrome

Repetitive Transcranial Magnetic Stimulation for Adults with Severe Tourette Syndrome

Principal Investigator: James F. Leckman, M.D.

Agency: National Institute of Mental Health

Type: R21MH082323; Period: December 2007 – November 2010

Repetitive transcranial magnetic stimulation (rTMS) has been used as an investigational intervention for severe TS for at least the last five years. This pilot/feasibility study allowed us to make accurate power estimates for a subsequent R01 to test the efficacy and side effects of rTMS to the SMA in a larger sample, and to examine side effects, secondary electrophysiological outcomes, secondary clinical outcomes

3 R25 MH077823-05S1 James Leckman (PI)

08/01/2010 - 07/31/2012

NIMH

Antibody Identification and IVIG Treatment of PANDAS

Research Education for Future Physician-Scientists in Child Psychiatry. Bench to Bedside Supplement

“A genetic linkage study of GTS”

Principal Investigator: David L. Pauls, Ph.D.

Agency: National Institute of Neurological Disease and Stroke

Type: R01NS040024; Period: September 2007-August 2012

The long-term objective of this project is the localization and characterization of genes important for TS and related conditions. Dr. Leckman was a co-investigator

“Inhibitory Interneurons in Tourette Syndrome”

Principal Investigator: Flora Vaccarino, M.D.

R01 NS054994; Period: July 2007-June 2011

This grant uses postmortem human tissue to investigate the number and distribution of inhibitory interneurons in regions of the basal ganglia and cerebral cortex of Tourette's syndrome patients compared to controls. Role: Investigator

**Research Support – Completed:****Behavior Therapy for Adults with TS**

Principal Investigator: Lawrence Scahill, MSN, PhD

Agency: National Institute of Mental Health

Type: R01MH0698; Period: July 2005-June 2011

This grant supports a multisite investigation to evaluate the efficacy of a structured Habit Reversal Training program for tic reduction in adults with TS. To conduct this study, the Tourette Syndrome Association assembled the Behavioral Sciences Consortium (BSC). The BSC is a multidisciplinary group of investigators representing some of the leading TS research programs in the country including Yale, Harvard, UCLA, and Johns Hopkins. Dr. Leckman is a consultant for this R01.

**Molecular Cytogenetics of TS**

Principal Investigator: Matthew State, MD, PhD

Agency: National Institute of Neurological Disease and Stroke

Type: R01NS043520; Period: September 2002-August 2007

The goal of this proposal is to use molecular cytogenetic and molecular genetic tools to identify genes involved in Tourette syndrome (TS) and related phenotypes. Dr. Leckman is a co-investigator

**Molecular Approaches to Childhood Psychiatric Disorders**

Principal Investigator: Matthew State, MD, PhD

Agency: National Center for Research Resources

Type: K23 RR016118; Period: September 2002-August 2007

This project spans the fields of child psychiatry, molecular cytogenetics and molecular genetics. The near-term objective of this project is to develop an independent program in patient-oriented research that focuses on identifying vulnerability genes underlying childhood-onset developmental and neuropsychiatric illnesses. Dr. Leckman served as a Primary Mentor for this K23.

**"General Clinical Research Center"**

Principal Investigator: Robert Alpern, M.D.

Type: M01RR00125; Period: December 1978-November 2010

This General Clinical Research Center will provide core support for research at the Child Study Center. This support includes the availability of research beds, trained research nurses, dieticians, biostatistics and data management support as well as a mock MRI facility to prepare children for participation in MRI studies. Dr. Leckman has been the Associate Program Director of this GCRC since 1982.

**A Prospective Longitudinal Study of PANDAS**

Principal Investigator: James F. Leckman, M.D.

Type: R01 MH61940; Period: September 2001- August 2008

The aim of this study is to validate the diagnostic concept of PANDAS (Pediatric Autoimmune Neurobiological Disorders Associated with Streptococcal Infections) by performing a prospective longitudinal study. The use of a prospective longitudinal design should permit a close examination of the timing of symptom relapses relative to GABHS exposure. Other specific aims focus on longitudinal fluctuations of psychosocial stress, and anti-neuronal antibody levels. Sites: Yale, Hopkins, NYU, Rochester, Alabama, Cincinnati

## **Research Support – Completed:**

A genetic linkage study of Gilles de la Tourette syndrome

Principal Investigator: David L. Pauls, PhD

Type: R01NS040024; Period: September 2000-August 2006

The long-term objective of this project is the localization and characterization of genes important for TS and related conditions. Dr. Leckman is a co-investigator

PANDAS and Strep Infection: Are they Linked?

Principal Investigator: Roger Kurlan, MD

Agency: National Institute of Neurological Disease and Stroke

Type: R01 R01NS042240; Period: September 2001- August 2006

This is a prospective case control cohort study involving 40 cases of PANDAS and 40 matched controls with TS and/or OCD but without evidence of PANDAS to determine whether antecedent GABHS infection is: 1) temporally associated with exacerbations of PANDAS, 2) specifically associated with exacerbations of tics and OCD, and 3) a specific trigger for exacerbations of PANDAS. Sites: Rochester, Yale, Hopkins, NYU, Alabama, Cincinnati, UCSF, MGH, Washington University, LIU North Shore. Dr. Leckman is a Co-investigator.

Are symptom exacerbations in Tourette syndrome and/or Obsessive-Compulsive Disorder due to autoimmune CNS inflammation?

Principal Investigator: James F. Leckman, M.D.; Agency: Yale University School of Medicine

Type: Dean's Pilot Project in Translational & Interdisciplinary Research; Period: September 2004- August 2006. The aim of this pilot study is to explore the hypotheses that disturbance within T cell immunity is involved in symptom exacerbations in some TS/OCD patients. Co-investigators included: Ivana Kawikova, Alfred Bothwell., Robert Schultz, & Nancy H. Ruddle

Towards an Understanding of the Neurobiology of Parental Love

Principal Investigator: James F. Leckman, M.D.

Agency: Institute for Research on Unlimited Love; Period: 12/01/2002-1/1/2006

This grant focuses on OCD-like early maternal and paternal preoccupations and behaviors that are associated with the birth of a baby, with an aim to better understand the neurobiological basis of parent-infant interactions and how we make room in our lives for new family members.

Pathogenesis and treatment of Tourette's syndrome, obsessive compulsive disorder, and related conditions

Principal Investigator: James F. Leckman, MD

Type: P01 MH49351-09; Period: September 1992- August 2006

Based on explicit models of pathogenesis for TS and OCD and building on prior work an array of clinical, neuropsychological, genetic, neuroimaging, epidemiological, neurobiological, and treatment studies are being conducted. Translational and integrative studies of perinatal and immunological risk factors are of particular significance.

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