

Research Committee

2018

Annual
Report



AACAP's
65th 
annual
meeting

AMERICAN ACADEMY OF
CHILD & ADOLESCENT
PSYCHIATRY

WWW.AACAP.ORG

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Manpreet K. Singh, MD, *Co-chair*

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Barbara Gracious, MD

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Timothy Wilens, MD

Bonnie T. Zima, MD, MPH

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Sarah Hellwege, MEd, Assistant Director of Research, Training, and Education
Amber Prince, Research and Training Coordinator

Letter from the Co-Chairs of AACAP's Research Committee

Dear Supporters, Awardees, and Guests:

On behalf of the American Academy of Child and Adolescent Psychiatry (AACAP) and AACAP's Research Committee, we extend our sincere thanks for your generous support and participation in AACAP's Research Awards Programs. We gratefully acknowledge AACAP's past and current supporters, Pfizer Inc., Sunovion Pharmaceuticals, Inc., Arbor Pharmaceuticals, LLC, PhRMA, and Supernus Pharmaceuticals, Inc. We look forward to continuing our relationships and developing new ones in 2019. You will find in the enclosed report updates on the accomplishments, programs, and activities of the Research Committee.



Daniel P. Dickstein, MD



Manpreet K. Singh, MD

The Research Committee-sponsored award programs enable child and adolescent psychiatrists of all levels—from junior investigators to senior faculty—to get involved with advancing our field. We have achieved success on many levels over the past year, but we face a challenge of great importance—preparing a greater number of child and adolescent psychiatrists to conduct important research necessary to improve health outcomes and advance the field—from autism to suicide, from novel medications to brain-based treatments, from genetics to neuroimaging to epidemiology. Your valuable support has allowed us to further our work in these areas by:

- Addressing the critical workforce shortage of national child psychiatry researchers through our training endeavors, Pilot Research Awards, and Junior Investigator Awards; and
- Disseminating evidence-based practices to primary care practitioners and child and adolescent psychiatrists through our annual Research Institute and Research Symposium.

We are eager to do even more. We greatly appreciate your commitment and partnership in this venture to further research training in child and adolescent psychiatry and welcome your thoughts and ideas at the Research Committee Dinner and on an ongoing basis.

Sincerely,

A handwritten signature in black ink, appearing to read "D.P. Dickstein".

Daniel P. Dickstein, MD
Co-Chair, AACAP's Research Committee

A handwritten signature in black ink, appearing to read "Manpreet K. Singh".

Manpreet K. Singh, MD
Co-Chair, AACAP's Research Committee

Letter from the Pilot Award Program Chairs

Dear Supporters, Awardees, and Guests:

On behalf of AACAP's Pilot Research Award Program, we want to sincerely thank you for your continued support of this essential training program for early investigators in the field of child and adolescent psychiatry. We would like to specifically acknowledge the generous support of Pfizer Inc. for contributing to AACAP's Pilot Research Awards in 2018.



Bonnie T. Zima, MD, MPH



David Cochran, MD, PhD

AACAP's Pilot Research Award Program provides general psychiatry residents, child and adolescent psychiatry residents, fellows, and junior faculty up to \$15,000 for one year of support for research on child and adolescent mental health. Based on a 2018 survey of 92 past awardees, 76% have gone on to receive additional research grant support after their pilot award, and 95% have disseminated the results of their research at scientific meetings or in peer-reviewed publications. This year's pool of applicants was well-qualified and made for a competitive selection process. We received 20 complete applications, representing a wide diversity of candidates, institutions, and research areas. We welcome you to view poster presentations of Pilot Award recipients whom completed their projects in 2018 during AACAP's 65th Annual Meeting in Seattle, Washington.

Sincerely,

A handwritten signature in black ink that reads "Bonnie Zima". The signature is fluid and cursive.

Bonnie Zima, MD, MPH
Chair, Pilot Research Award Program

A handwritten signature in black ink that reads "David Cochran". The signature is fluid and cursive.

David Cochran, MD, PhD
Co-Chair, Pilot Research Award Program



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Research Committee

Since 1999, AACAP's Research Committee has been responsible for the leadership and direction of the AACAP research programs, which are devoted to advancing medical science for the benefit of youth with mental illness

Goals

- To promote the application of a wide variety of methods from a broad array of scientific disciplines to the study of diagnosis and treatment of mental illness in children and adolescents
- To facilitate junior scientists to enter research careers in child and adolescent psychiatry and to facilitate their further development as independent scientists
- To develop and disseminate accurate information about mental illness and its treatment to patients, providers, researchers, and policy makers
- To promote and facilitate clinical research in child psychopathology
- To shape research policy pertaining to research in child and adolescent psychiatry
- To stimulate and collaborate with other AACAP committees
- To plan and promote the Research Institute (formerly known as the Research Forum) and Research Symposium (formerly known as the Founders of the Research Initiative Symposium) at the Annual Meeting
- To advance the growth of research-related funds

How We Meet Our Goals

Programs:

- Research Institute
- Research Symposium
- AACAP Junior Investigator and Pilot Award Programs

Activities:

- Serve as an informal peer oversight committee for all research award programs
- Work to address current issues facing pediatric psychiatry
- Members meet via conference call once per month
- Members meet face-to-face once per year
- Members attend research-related meetings on an as-needed basis

Awards and Programs

Programs

Research Symposium

Research Institute

Awards

AACAP Junior Investigator Award
Supported by AACAP and Industry Supporters

AACAP Pilot Research Award for Junior Faculty and Child and Adolescent Psychiatry Fellows
Supported by AACAP

AACAP Pilot Research Award for General Psychiatry Residents
Supported by Industry Supporters

AACAP Pilot Research Award for Attention Disorders and/or Learning Disabilities
Supported by AACAP's Elaine Schlosser Lewis Fund

Executive Overview

In 2018 the Research Committee focused on...

- Increasing the number of child and adolescent psychiatry researchers through mentored research awards.
- Providing professional development and continuing education to AACAP members through the AACAP Research Institute, the Research Symposium, and other Annual Meeting Programming.
- Distributing information to the AACAP membership and the public on issues relevant to research

Training Challenges

- Obtaining pharmaceutical and federal funding
- The National Institutes of Health (NIH) provides less than 15% of independent research grant funding to new investigators
- Workforce shortage

Training Solutions

- Explore new funding streams for research awards made possible by private, federal, and industry support
- AACAP Awards
- Integrated care training programs, such as Triple Board, offer ways to be cross-trained in pediatric and psychiatric care

AACAP Pilot Research Awards

Supported by AACAP, Pfizer Inc., AACAP's Elaine Schlosser Lewis Fund

- Award provide up to \$15,000 for one year of support to general psychiatry residents, child and adolescent psychiatry fellows, and junior faculty for pilot research projects.
- Awardees work with a mentor who is a child and adolescent psychiatry senior researcher in their area of interest.
- Mentors help with research, design, and implementation over the course of the project.

AACAP Junior Investigator Award

Supported by AACAP, Supernus Pharmaceuticals, Inc., Pfizer Inc., Sunovion Pharmaceuticals, Inc.

- Award provides up to \$30,000 per year, for two years, to junior faculty who specialize in child and adolescent psychiatry and wish to conduct research relevant to the understanding, treatment, and prevention of child and adolescent mental health disorders.
- Projects facilitate innovative research in basic and/or clinical topics.

AACAP's Research, Grants, & Workforce Research Award Portfolio

Medical Students

AACAP Summer Medical Student Fellowship Program, supported by AACAP's Endowment Fund

- Oversight by the Training and Education Committee and Committee on Medical Students and Residents
- \$3,500 for a 12-week mentored summer research fellowship plus travel expenses to AACAP's Annual Meeting
- Poster presentation at AACAP's Annual Meeting

AACAP Jeanne Spurlock, MD, Research Fellowship in Substance Abuse and Addiction for Minority Medical Students, supported by NIDA and AACAP's Campaign for America's Kids

- Oversight by the Substance Use Committee and Diversity and Culture Committee
- \$4,000 for a 12-week mentored summer research fellowship plus travel expenses to AACAP's Annual Meeting
- Poster presentation at AACAP's Annual Meeting

Residents and Junior Faculty

NIDA/AACAP Resident Training Program in Substance Use Disorders, supported by NIDA

- Oversight by the Substance Use Committee
- \$10,000 for one-year mentored project aimed at the dissemination of substance use treatment research findings plus \$2,000 mentor stipend
- Poster presentation at AACAP's Annual Meeting

AACAP Junior Investigator Award, supported by Industry Supporters and AACAP

- Oversight by the Research Committee
- \$30,000 per year for a two-year mentored research project
- Poster presentation at AACAP's Annual Meeting

AACAP Pilot Research Award for Junior Faculty and Child and Adolescent Psychiatry Fellows, supported by AACAP; AACAP Pilot Research Award for Attention Disorders and/or Learning Disabilities, supported by AACAP's Elaine Schlosser Lewis Fund; and AACAP Pilot Research Award for General Psychiatry Residents, supported by Industry Supporters

- Oversight by the Research Committee
- \$15,000 for one-year mentored research project plus travel expenses to AACAP's Annual Meeting
- Poster presentation at AACAP's Annual Meeting

Junior Faculty

NIDA/AACAP Physician Scientist Training Program in Substance Abuse Research, supported by NIDA Career Development Award (K12)

- Oversight by Program Director, Paula D. Riggs, MD, and an AACAP Advisory Committee
- Up to \$100,000 per year salary support and \$50,000 research support per year for five-year mentored research project in substance use
- Submission of independent research grant prior to the end of the five-year project period

AACAP Research Committee-Related Revenue and Expenditures

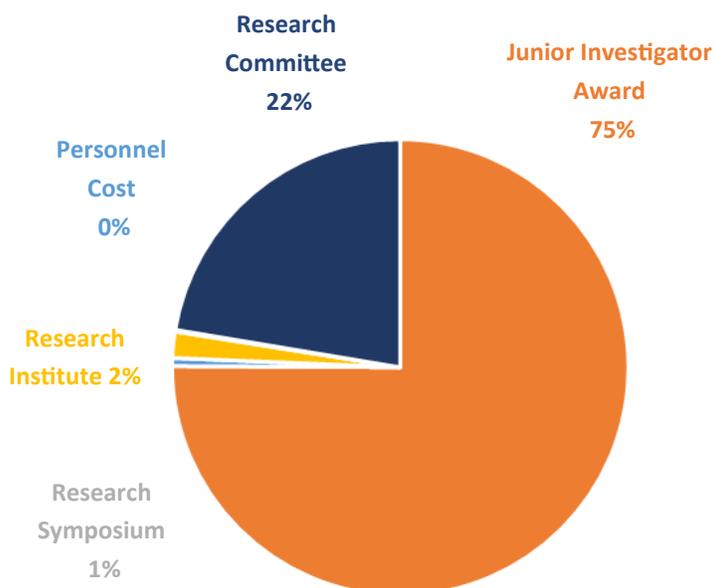
Revenue				
Supporter	2015	2016	2017	2018
Arbor Pharmaceuticals, LLC.		\$15,000		
Individual Contributions	\$432	\$2,163	\$3,199	\$644
Pfizer Inc.		\$20,000	\$45,000	\$40,000
Research Institute	\$6,030	\$15,570	\$9,660	\$13,860
AACAP's Campaign for America's Kids	\$35,150			
Sunovion Pharmaceuticals Inc.	\$25,000	\$25,000		\$25,000
Supernus Pharmaceuticals, Inc.		\$20,000	\$25,000	\$10,000
Total	\$66,612	\$82,733	\$82,859	\$89,504

Expenditures				
Event	2015	2016	2017	2018
Research Committee Dinner	\$1,659	\$2,446	\$1,626	
Junior Investigator Award	\$52,008	\$59,669	\$44,027	\$30,319
Research Symposium	\$5,590	\$390	\$200	\$228
Research Institute	\$10,398	\$8,250	\$4,470	\$750
Personnel Cost	\$5,588	\$1,755	\$297	\$51
Overhead	\$4,481	\$3,917		
Research Committee	\$19,167	\$14,245	\$20,568	\$9,029
Total	\$100,907	\$90,674	\$71,188	\$40,377

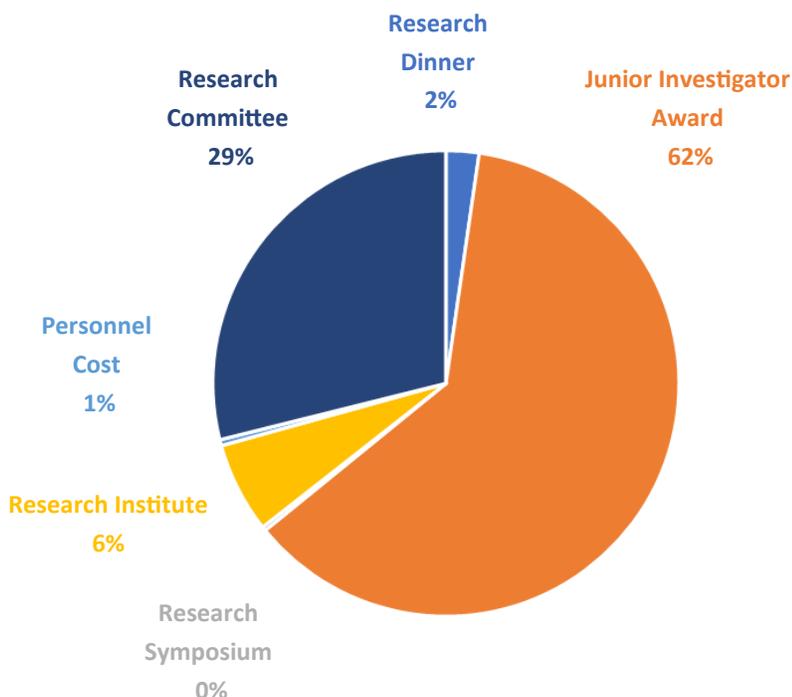
As of September 2018

AACAP Research Committee: Program Allocation

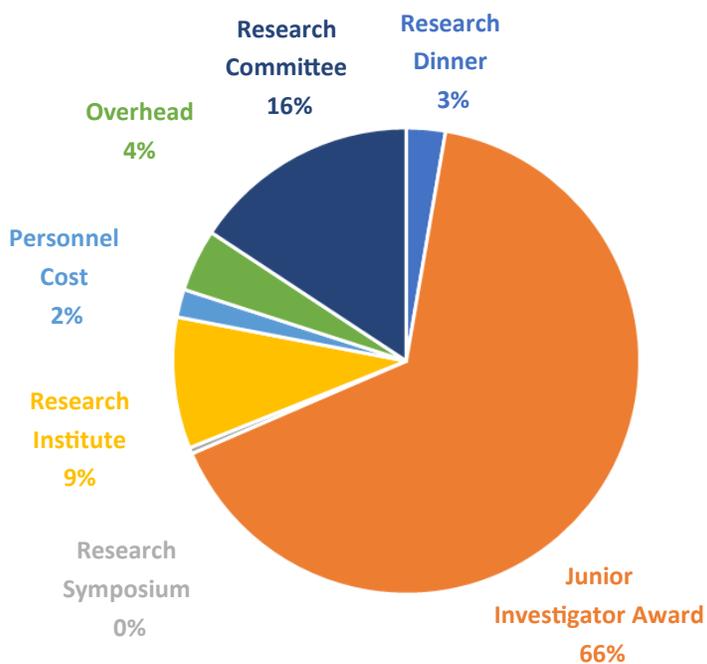
**2018 Research Committee-Related
Program Allocation**



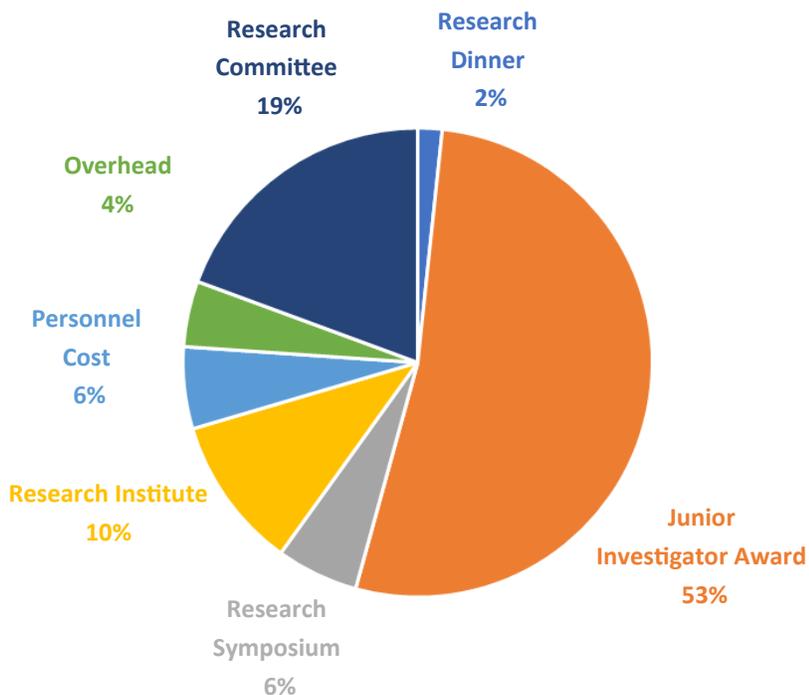
**2017 Research Initiative
Program Allocation**



**2016 Research Initiative
Program Allocation**



**2015 Research Initiative
Program Allocation**



Junior Investigator Award: How it Works

Junior Investigator Award Goal:

To increase the number of child and adolescent psychiatry researchers

History of Junior Investigator Award:

The Junior Investigator Award was created in 2009 to support AACAP members who are child and adolescent psychiatry researchers reach their goal of becoming an independent researcher. Since 2009, AACAP has awarded **12** Junior Investigator Awards.

AACAP Junior Investigator Award

Currently Supported by:

Pfizer Inc., Supernus Pharmaceuticals, Inc., and Sunovion Pharmaceuticals, Inc.

- Support of up to \$30,000 per year for two years
- For child and adolescent psychiatry junior faculty (assistant professor level or equivalent)
- Intended to facilitate innovative research:
- Basic or Clinical
- Relevant to the understanding, treatment, and prevention of child mental health disorders
- Funding support may be used for salary and fringe benefits, supplies, lab costs, etc. as long as they are in the service of the research project
- Recipients are required to submit a presentation on their research at AACAP's Annual Meeting

***The Junior Investigator Award does not compete with the Pilot Research Award or AACAP's K12 Grant from NIDA**

Evaluation of Program Success

Applicants

Submission of continuing project summary & budget

Research committee reviews summary & new applications

Continued funding based on evaluation & progress to date

Short-Term Program

Marketing effort & return

High response rate demonstrates program is fulfilling need in research community

Success of first several awardees

Long-Term Program

Development of a research career

Number of additional grants received, presentations, & publications

Survey evaluation of awardees

Junior Investigator Award: Recipients

Award Recipient	Mentor(s)	Institution	Project Title
2018			
Heather M. Joseph, DO	Brooke Molina, PhD	University of Pittsburgh	<i>Early Signals of Inattention in Toddlers at Familial Risk for ADHD</i>
2017			
Natalie Ramos, MD	Jeanne Miranda, PhD	University of California, Los Angeles	<i>Resiliency Education for LGBT Adolescents with Depression and Parent/Caregiver Psychoeducation Group Proposal</i>
2015			
Ernest Pedapati, MD	Donald Gilbert, MD, MS	Cincinnati Children's Hospital Medical Center	<i>Eye Tracking as a Predictor of Methylphenidate Response in Autism with Comorbid Attention Deficit Hyperactivity Disorder</i>
2014			
Roger Jou, MD, MPH, PhD	Kevin Pelphrey, PhD, & Fred Volkmar, MD	Yale University	<i>Neural Disconnectivity in Autism: Distinguishing Fact from Artifact in Diffusion Imaging</i>
Luis Patino Duran, MD, MS	Melissa DelBello, MD, MS	University of Cincinnati	<i>Genetic Markers of Lithium Response for Acute Mania in Adolescents with Bipolar Disorder</i>
2013			
Tamara L. Vanderwal, MD	Linda Mayes, MD, & Francisco X. Castellanos, MD	Yale University School of Medicine Child Study Center	<i>Intrinsic Connectivity Networks in Young Children</i>
2011			
Ryan Herringa, MD, PhD	Ned H. Kalin, MD, & Marilyn J. Essex, PhD	University of Wisconsin School of Medicine and Public Health	<i>Neural Substrates of Post-Traumatic Stress Disorder (PTSD) in Youth</i>
Ellen Hoffman, MD	Matthew W. State, MD, PhD, & Antonio J. Giraldez, PhD	Yale University School of Medicine Child Study Center	<i>Functional Analysis of the Autism Susceptibility Gene, Contactin Associated Protein-2 (CNTNAP2), in a Zebrafish Model System</i>

Award Recipient	Mentor(s)	Institution	Project Title
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2010

Michael Bloch, MD, MS	James Beckman, MD, & Christopher Pittenger, MD, PhD	Yale University	<i>Double-Blind, Placebo-Controlled Trial of N-acetylcysteine for Childhood Tourette Syndrome</i>
Craig Erickson, MD	Christopher McDougale, MD	Indiana University School of Medicine	<i>Acamprosate in Youth with Autistic Disorder</i>

2009

Evelyn Stewart, MD	David Pauls, PhD, & Jordan Smoller, MD, MSc	Harvard Medical School	<i>Translational Application of Genome-Wide Data for Obsessive-Compulsive Disorder Across Development</i>
Jeremy Veenstra-VanderWeele, MD	Randy Blakely, PhD	Vanderbilt University	<i>Evaluating the SERT 56Ala Knock-In Mouse as a Model for Sensory Aversion in Autism</i>

Junior Investigator Award Recipients: Where Are They Now?

Luis Patino Duran, MD

2014 Award Recipient



Institution: University of Cincinnati

Project Title: *Genetic Markers of Lithium Response for Acute Mania in Adolescents with Bipolar Disorder*

Project Mentor: Melissa DelBello, MD, MS

Dr. Duran is currently an assistant professor at the University of Cincinnati College of Medicine.

Impact of Junior Investigator Award

Through this award, Dr. Duran was able to:

- Immerse himself in clinical research
- Gain theoretical knowledge and empirical expertise of research
- Obtain important preliminary data on the genetic predictors of clinical response with lithium bipolar disorder in adolescents

Dr. Duran's Future Plans

- Use his preliminary data to apply for K99/RO1 funding from the National Institute of Health, an essential next step for his career development as an independent investigator

Roger Jou, MD, MPH, PhD

2014 Award Recipient



Institution: Yale University

Project Title: *Neural Disconnectivity in Autism: Distinguishing Fact from Artifact in Diffusion Imaging*

Project Mentor: James Duncan, PhD

Dr. Jou is currently Instructor of Clinical Child Psychiatry and specializes in autism spectrum disorders across the lifespan. His work includes a combination of clinical care, community partnerships, and research of clinical trials and neuroimaging.

Impact of Junior Investigator Award

Through this award, Dr. Jou was able to:

- Continue research training as a junior faculty member at Yale University, developing additional expertise in neuroimaging, while expanding the scope of current work for greater community impact

Dr. Jou's Future Plans

- Develop balanced, integrated, and sustainable network for promoting community and wellness for individuals with autism across the lifespan



Institution: Yale University School of Medicine Child Study Center

Project Title: *Intrinsic Connectivity Networks in Young Children*

Mentors: Linda Mayes, MD, and Francisco X. Castellanos, MD

Dr. Vanderwal is currently an Associate Research Scientist in the Yale Child Study Center and outpatient child and adolescent psychiatrist at a community clinic.

Impact of Junior Investigator Award

Through this award, Dr. Vanderwal was able to:

- Focus on creating developmentally-informed methods to study large-scale neural networks in young children using fMRI and EEG
- Collaborate closely with the Developmental Electrophysiology Lab at Yale
- Collaborate with the New York University Center for Developmental Disorders

Dr. Vanderwal’s Honors and Awards

- **2012-present:** Yale Psychiatry Research Scholars Program
- **2012-2013:** APA/Lilly Psychiatric Research Fellowship
- **2009-present:** Lecturer of first year Yale medical students on *A Voxel-Based View of Child Development*
- **2009:** Resident Teaching Award, Department of Psychiatry, Yale School of Medicine
- **2008-2010:** AACAP Pilot Research Award

Dr. Vanderwal’s Grant Support

- **2012-2015:** *Developmental Trajectories of Intrinsic Functional Connectivity Networks*, funded by the **Allison Family Foundation** for **\$863,499**
- **2012-2013:** *Cross-Modal Sensory Processing in Infants*, funded by the **American Psychoanalytic Association** for **\$16,000**
- **2012-2013:** *Brain Mapping of Critical Developmental Periods* funded by the **American Psychiatric Association/Lilly Psychiatric Research Fellowship** for **\$45,000**

Number of Recent Publications: 3



Institution: University of Wisconsin School of Medicine and Public Health
Project Title: *Neural Substrates of Post-Traumatic Stress Disorder (PTSD) in Youth*

Mentors: Ned H. Kalin, MD and Marilyn J. Essex, PhD

Dr. Herringa is currently an Assistant Professor of Child & Adolescent Psychiatry at the University of Wisconsin School of Medicine and Public Health.

Impact of Junior Investigator Award

Through this award, Dr. Herringa was able to:

- Use brain imaging (fMRI) to characterize functional brain abnormalities during emotion processing in pediatric PTSD
- Map structural and functional neurodevelopment in pediatric PTSD as compared to typically developing youth

Dr. Herringa was also a recipient of the 2010 AACAP Pilot Research Award, supported by Lilly USA, LLC

Dr. Herringa’s Honors and Awards

2015: Invited Speaker, Fourth Annual Conference on Child Protection and Well-Being

2014: Career Development Travel Award, Anxiety and Depression Association of America

2013: Domestic Travel Fellowship Award, Society of Biological Psychiatry

Dr. Herringa’s Grant Support

2018-2023: Principal Investigator on *Normative and Atypical Trajectories of Cognitive-Emotional Development in Adolescence (R01)*, funded by the **NIMH** for **\$650,000/year**

2015-2020: Co-Investigator on *Dopamine Enhancement of Fear Extinction Learning in PTSD (R21/R33)*, funded by the **NIMH**

Dr. Herringa’s Grant Support

2015-2018: Co-Investigator on *A Critical Test of Neural Models of Risk Among Adolescent Assault Victims (R21)*, funded by the **NIMH**

2014-2019: *Neural Basis of Emotion Regulation in Pediatric Post-Traumatic Stress (K08)*, funded by the **NIMH** for **\$990,000**

2015-2016: University of Wisconsin Fall Research Competition Award for **\$45,000**

2013-2015: *NARSDAD Young Investigator Grant*, funded by the **Brain & Behavior Research Foundation** for **\$60,000**

2013-2014: *UW ICTR Pilot Research Award*, funded by the **University of Wisconsin Institute for Clinical and Translational Research** for **\$50,000**

Number of Recent Publications: 18



Institution: Yale University School of Medicine Child Study Center

Project Title: *Functional Analysis of the Autism Susceptibility Gene, Contactin Associated Protein-2 (CNTNAP2), in a Zebrafish Model System*

Mentors: Matthew W. State, MD, PhD, and Antonio J. Giraldez, PhD
Dr. Hoffman is currently an Assistant Professor in the Yale Child Study Center.

Impact of Junior Investigator Award

Through this award, Dr. Hoffman was able to:

- Advance her understanding of the biological and genetic mechanisms of ASD
- Work to develop a novel model system that will capitalize on key advantages of zebrafish, including visualization of neural circuitry in transparent embryos and ease of genetic manipulation
- Study the ASD risk gene, Contactin Associated Protein-2 (CNTNAP2)

Dr. Hoffman’s Honors and Awards

- **2013:** American College of Nurse Practitioners Travel Award
- **2010:** Yale University Investigative Medicine Program: Admitted to Candidacy

Dr. Hoffman’s Grant Support

- **2012-2016:** *K08 Mentored Clinical Scientist Research Career Development Award*, funded by the **NIMH** for **\$750,000**

Note: Dr. Hoffman did not receive her second year of funding from the Junior Investigator Award, as stipulated by her award agreement, due to her acceptance of the *K08 Mentored Clinical Scientist Research Award*.

Number of Recent Publications: 24



Institution: Yale University

Project Title: *Double-Blind, Placebo-Controlled Trial of N-acetylcysteine for Childhood Tourette Syndrome*

Mentors: James Beckman, MD, and Christopher Pittenger, MD, PhD

Dr. Bloch is currently an Associate Professor in the Yale Child Study Center, Associate Director of the Child Study Center's innovative psychiatry residency program, and Associate Director of the Tic and OCD Program.

Impact of Junior Investigator Award

Through this award, Dr. Bloch was able to:

- Conduct a valuable randomized, double-blind, placebo-controlled trial of N-acetylcysteine in children with Tourette Syndrome
- Fund a longitudinal, neuroimaging study of adult-outcome in pediatric OCD which resulted in two first-authored publications and whose data served as a basis for his first R01 application

Dr. Bloch's Honors and Awards

- **2012-2013:** AACAP Norbert and Charlotte Rieger Award for Scientific Achievement
- **2009:** Seymour L. Lustig Award for Psychiatry Research in Residency
- **2004:** Keese Prize (Best Medical Student Research Thesis)

Dr. Bloch's Grant Support

- **2010-2015:** *Longitudinal Structural MRI Study of Adulthood Outcome in Tourette Syndrome*, funded by the **NIMH** for **\$850,000**
- **2010-2011:** *Pilot Study of an NMDA Receptor Antagonist for Treatment-Refractory OCD*, funded by **NARSDAD** for **\$60,000**

Dr. Bloch also served as a mentor to Jadon Webb, MD, PhD, for his AACAP Pilot Research Award for Attention Disorders and/or Learning Disabilities, supported by the Elaine Schlosser Lewis Fund entitled *Meta-Analysis: Do Stimulants Work as "Smart Pills?" The Cognitive Effects of Stimulants in Healthy Subjects Without ADHD.*

Number of Recent Publications: 81



Institution: Indiana University School of Medicine

Project Title: *Acamprosate in Youth with Autistic Disorder*

Mentor: Christopher McDougale, MD

Dr. Erickson is currently Director of the Fragile X Research and Treatment Center at Cincinnati Children's and Director of Research at the Kelly O'Leary Center for Autism Spectrum Disorders at Cincinnati Children's Hospital.

Impact of Junior Investigator Award

Through this award, Dr. Erickson was able to:

- Find that acamprosate use was associated with significant reduction in amyloid precursor protein levels in youth with autism spectrum disorders

Dr. Erickson was also a recipient of the 2006 AACAP Pilot Research Award sponsored by Lilly USA, LLC

Dr. Erickson's Honors and Awards

- **2011:** Resident's Award for Teaching Excellence, Department of Psychiatry, Indiana University School of Medicine

Dr. Erickson's Intellectual Property

- **2010:** WO 2010/093859 A1 Materials and Methods for Treating Developmental Disorders Including Comorbid and Idiopathic Autism; World Intellectual Property Organization

Number of Recent Publications: 85

Dr. Erickson's Grant Support

2016-2020: *National Center on Birth Defects and Developmental Disabilities Grant*

2015-2018: *Autism Inpatient Collection Grant, Simons Foundation and Nancy Lurie Marks Foundation*

2016-2019: *NIH Grant, "Neurophysiological and Acute Pharmacological Studies in Fragile X Syndrome"*

2013-2016: *Autism Speaks Treatment Grant*

2013-2016: *John Merck Fund Translational Research Program Award*

2013-2014: *Angelman Syndrome Foundation Research Grant*

2012-2014: *Simons Research Foundation SFARI Pilot Award*

2012: *Indiana University Funding Opportunities for Research Commercialization and Economic Success (FORCES) Grant*



Institution: Harvard Medical School

Project Title: *Translational Application of Genome-Wide Data for Obsessive-Compulsive Disorder Across Development*

Mentors: David Pauls, PhD, and Jordan Smoller, MD, MSc

Dr. Stewart is currently an Associate Professor in the Department of Psychiatry, University of British Columbia and the founding director of the Provincial OCD Translational Research Program at BC Children's Hospital (BCCH). She is also the Lead of the Brain, Behaviour & Development Theme at BCCH Research Institute and the Research Director of Child, Youth, and Reproductive Mental Health at BC Women's Hospital.

Impact of Junior Investigator Award

Through this award, Dr. Stewart was able to:

- Observe other clinical research labs through mentorship
- Learn genomic analysis techniques
- Step into the role of Co-director of the International OCD Foundation Genetics Collaborative

Dr. Stewart's Honors and Awards

2018: Distinguished Achievement Award for Excellence in Clinical and Applied Research, Faculty of Medicine, UBC

2017: AACAP Norbert and Charlotte Rieger Award for Scientific Achievement

2017: Nominated for BC Children's Hospital Research Institute Geoffrey L. Hammond Lectureship

2016: Marquis Who's Who Lifetime Achievement

2015: Nominated for Royal College's 2015 Prix d'Excellence - Specialist of the Year Award for Region 1

2009-2013: Listed in *Who's Who of America*

2009-2013: Listed in *Who's Who in the World*

2009-2013: Listed in *Who's Who of American Women*

Number of Recent Publications: 86

Dr. Stewart's Grant Support

2012-2013, 2016, 2017, 2018: Private Donor Grants totaling **\$305,000**

2012, 2014, 2016, 2017, & 2018: BCCH Research Institute Grants totaling **\$155,000**

2014-2019: *CIHR Operating Grant*, funded by the **Canadian Institutes of Health Research** for **\$526,454**

2014-2015: *CIHR Planning Grant*, funded by the **Canadian Institutes of Health Research** for **\$25,000**

2013-2014: International OCD Foundation Grant for **\$43,629**

2012-2020: *Michael Smith Clinical Research Scholar Award*, funded by the **Michael Smith Foundation for Health Research** for **\$635,000**

2010: *K23 Research Career Development Award*, funded by **NIH**—forced to decline due to move to Canada



Institution: Vanderbilt University

Project Title: *Evaluating the SERT 56Ala Knock-In Mouse as a Model for Sensory Aversion in Autism*

Mentor: Randy Blakely, PhD

Dr. Veenstra-VanderWeele is a child and adolescent psychiatrist currently at Columbia University and New York State Psychiatric Institute serving as the Mortimer D. Sackler, MD, Professor of Psychiatry; and the Division Director of Child and Adolescent Psychiatry. His molecular laboratory is housed in the Sackler Institute for Developmental Psychobiology, and his clinical research program is based at the NewYork-Presbyterian Hospital Center for Autism and the Developing Brain.

Impact of Junior Investigator Award

Through this award, Dr. Veenstra-VanderWeele was able to:

- Fund his first R01 in 2011

Dr. Veenstra-VanderWeele’s Honors and Awards

2017: American Psychiatric Association Blanche F. Ittleson Award for Research in Child and Adolescent Psychiatry

2014: University of Chicago Irving B. Harris Memorial Lecture in Child and Adolescent Psychiatry

2013: Vanderbilt Chancellor’s Award for Research

2011-2016: NIMH Biobehavioral Research Award for Innovative New Scientists

Number of Recent Publications: 84

Dr. Veenstra-VanderWeele’s Grant Support

2017-2022: Investigation of EAAT3 in OCD Pathophysiology, funded by the **NIH** for **\$1,853,425**

2017-2020: Effects of AFQ056 on Language Learning in Young Children with Fragile X Syndrome (FXS), funded by the **NIH** for **\$187,928**

2017-2020: Translational Research Training in Child Psychiatry, **\$1,210,500**

2016-2018: Autophagy Pathway as a Novel Therapeutic Target in Autism, **\$299,998**

2012-2018: Study of Oxytocin in Autism to Improve Reciprocal Social Behaviors (SOARS-B), funded by **NIH** for **\$1,146,996**

2011-2017: Neurobiological Signatures of Social Dysfunction and Repetitive Behavior, funded by the **NIH** for **\$1,250,000**

2012-2017: Enduring Impact of Early-Life Serotonin Signaling, funded by the **NIH** for **\$1,095,000**

AACAP Pilot Research Award: How it Works

Award Goal:

To help early investigators launch successful careers in pediatric mental health research.

History:

- The first Pilot Award was awarded in 1993.
- Since 1993, AACAP has awarded **188** Pilot Awards .

AACAP Pilot Research Awards for Attention Disorders and Learning Disabilities

Supported by:

The Elaine Schlosser Lewis Fund

- Encourages a future career in child and adolescent psychiatry research
- Provides up to \$15,000 of funding for child and adolescent psychiatry fellows and junior faculty who have an interest in beginning a career in child and adolescent mental health research, with topics related to attention disorders and/or learning disabilities
- Supports young investigators at a critical stage in their careers

AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows

Currently Supported by:

AACAP's General Operating Funds

- Encourages a future career in child and adolescent psychiatry research
- Provides up to \$15,000 of funding for child and adolescent psychiatry fellows and junior faculty who have an interest in beginning a career in child and adolescent mental health research
- Supports young investigators at a critical stage in their careers

AACAP Pilot Research Awards for General Psychiatry Residents

Currently Supported by:

Pfizer Inc.

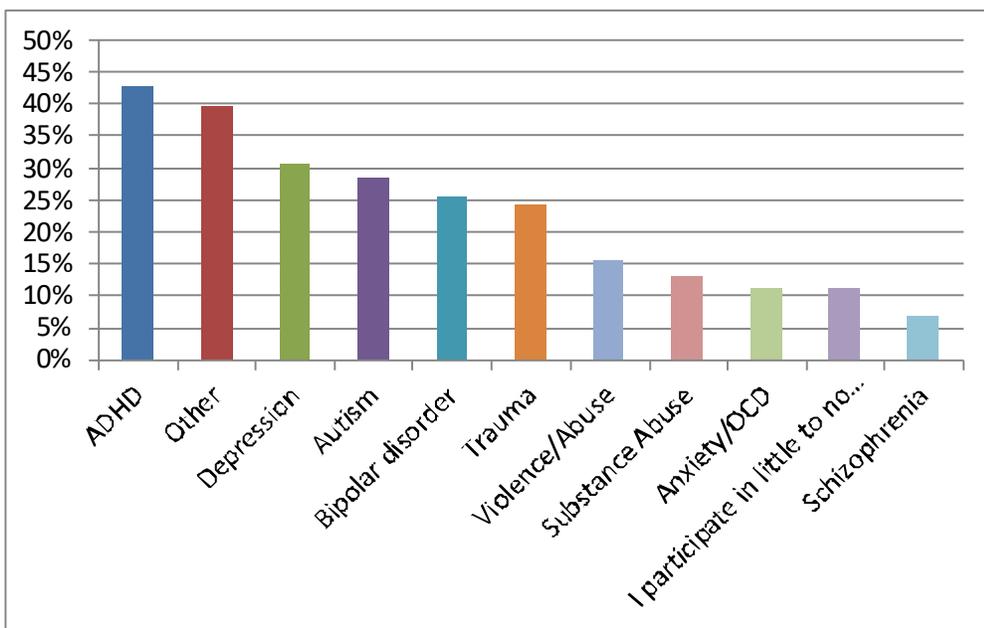
- Reduces the shortage in clinical researchers by supporting young investigators engaging in mental health research programs
- Provides up to \$15,000 of funding for pilot research
- Supports young investigators at a critical stage in their careers

AACAP Pilot Research Award Recipients: Research and Careers

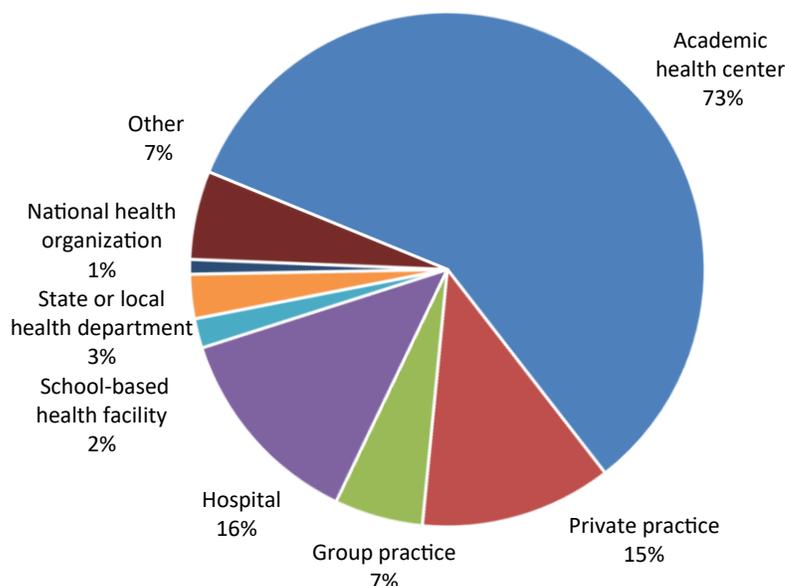
In April 2018, 178 AACAP Pilot Award recipients were solicited by email to participate in a brief survey to gain better insight of their career direction since receiving the award. A robust response rate was received. Fifty-two percent (92) of the total number of past Pilot Award recipients participated in the survey.

Recipients have been engaged in a broad spectrum of research. The most common area of research is ADHD (40%). Other areas of research included sleep, psychosis, brain development, Tourette’s disorder, intellectual disabilities, integrative medicine, early childhood, behavioral health, eating disorders, language development, and primary care.

Areas of Research



Work Settings



Past award recipients work across many work environments, with the majority (73%) working in an academic health center and 61% serving as Assistant or Associate Professors at their respective institutions.

82%
of recipients reported that their
Pilot Award was **valuable** or
highly valuable in establishing
their research career.

AACAP Pilot Research Awards for Attention Disorders

Supported by AACAP's Elaine Schlosser Lewis Fund

The AACAP Pilot Research Awards for Attention Disorders and/or Learning Disabilities, **supported by AACAP's Elaine Schlosser Lewis Fund**, offer up to **\$15,000** in research funding support to child and adolescent psychiatry residents and junior faculty who have an interest in starting a research career. The awards are in memory of Elaine Schlosser Lewis and specifically focus on research in attention disorders and learning disabilities.

Award Recipient	Mentor(s)	Institution	Project Title
2018			
Joel Bernake, MD, MSc	Jonathan Posner, MD	Research Foundation for Mental Hygiene, Inc	<i>Impulsivity and Prediction Error Circuits in Children with Attention Deficit Hyperactivity Disorder</i>
Andrea Diaz Stransky, MD	Denis Sukhodolsky, PhD	Yale University	<i>Digital Delivery of Parent Training for Disruptive Behaviors: Increasing Access to Care</i>
2017			
Erica Greenberg, MD	Sabine Wilhelm, PhD	Massachusetts General Hospital	<i>Modified Comprehensive Behavioral Intervention for Tics: Treating Children with Tic Disorders, Co-occurring ADHD and Psychosocial Impairment</i>
Erik Paschall, MD, MPH	Bonnie Zima, MD, MPH	UCLA Semel Institute for Neuroscience and Human Behavior	<i>Adapting a Mobile Health Application Optimizing ADHD Treatment to the Pediatric Setting</i>
2016			
Naser Ahmadi, MD, PhD	Robert Pynoos, MD	UCLA	<i>Trial of Positive Psychiatry in Comorbid Attention Deficit Hyperactive Disorder with Posttraumatic Stress Disorder</i>
Ryan Sultan, MD	Mark Olfson, MD, MPH	Columbia University	<i>Analysis of Clinical and Demographic Characteristics of ADHD Youth Prescribed Antipsychotics</i>

Award Recipient	Mentor(s)	Institution	Project Title
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2015

Ismail Badran, MD	Craig Erickson, MD	Cincinnati Children's Hospital Medical Center	<i>TDCS Enhancement of Executive Function in Children with Down Syndrome Open-Label Trial of Transcranial Direct Current Stimulation Enhancement of Executive Function in Children with Down Syndrome</i>
Heather Joseph, DO	Brooke Molina, PhD	University of Pittsburgh Medical Center/Western Psychiatric Institute and Clinic	<i>Understanding the transmission of ADHD: A Laboratory Examination of Fathers with a History of ADHD and their Children</i>
Chuanzhong Ye, MD, PhD	Donald J. Newport, MD, MS, MDiv	University of Miami Miller School of Medicine/Jackson Health System	<i>Gut microbial community structure and ADHD: A Pilot Case Control Study</i>

2014

Argelinda Baroni, MD	F. Xavier Castellanos, MD	NYU School of Medicine	<i>Arousal and Cognitive Variability in ADHD: A Pilot Pupillometry Study</i>
Venkat Bhat, MD	Sarojini Sengupta, PhD	McGill University	<i>Epigenetic Modifications Induced By Maternal Smoking During Pregnancy In Children With ADHD</i>

2013

Mai Uchida, MD	Joseph Biederman, MD	Massachusetts General Hospital	<i>Using Health IT to Improve Medication Adherence in Children with ADHD</i>
Jadon Webb, MD, PhD	Michael Bloch, MD, MS	Yale University Child Study Center	<i>Meta-Analysis: Do Stimulants Work as "Smart Pills?" The Cognitive Effects of Stimulants in Healthy Subjects Without ADHD</i>

2012

Jeffrey Strawn, MD	Melissa DelBello, MD, MS	University of Cincinnati	<i>The Neurophysiologic Impact of Anxiety on Attentional Processing in Adolescents with ADHD</i>
Chad Sylvester, MD, PhD	Joan L. Luby, MD	Washington University	<i>Stimulus-Driven Orienting and the Ventral Attention Network in Children with Anxiety Disorders Versus ADHD</i>

AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows

Supported by AACAP

The AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows, supported by AACAP, offer up to **\$15,000** in research funding support to child and adolescent psychiatry residents and junior faculty who have an interest in starting a research career.

Award Recipient	Mentor(s)	Institution	Project Title
2018			
Obianuju Obi Berry, MD, MPH	Catherine Monk, PhD	Columbia University	<i>Treatment of Parents of Intimate Partner Violence and Impact on Child Psychopathology</i>
Isha Jalnapurkar, MD	Jean Frazier, MD	University of Massachusetts	<i>Psychosocial and Biological Correlates of Social Communication Deficits in Autism Spectrum Disorder</i>
Samantha F. Kennedy, DO	Alyse F. Ley, DO	Michigan State University	<i>Evaluation of the Disorder Screen for Athletes (DES-6) in Adolescent Athletes</i>
Aviva K. Olsavsky, MD	Pilyoung Kim, PhD	University of Colorado Denver/Children's Hospital Colorado	<i>Project SIMBA: Stress in Moms and Babies</i>
Geetanjali Sahu, MD	Cristian P. Zeni, MD, PhD	University of Texas	<i>The Role of Trauma and Bdnf in the Dimensional Evaluation of Psychosis in Children and Adolescents</i>
2017			
Aaron D. Besterman, MD	James McCracken, MD	UCLA Semel Institute of Neuroscience and Human Behavior	<i>Deep Behavioral Phenotyping of Children with Non-PTEN, Non-TSC Somatic Overgrowth Disorders</i>
Christina Cruz, MD, EdM	Bradley, N. Gaynes, MD, MPH	University of North Carolina	<i>Task-Shifting Children's Mental Health Treatment to Classroom Teachers</i>

Award Recipient	Mentor(s)	Institution	Project Title
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2017 cont.

Manivel Rengasamy, MD	Lisa Pan, MD	Western Psychiatric Institute and Clinic	<i>The Interaction of Psychotherapy and Inflammatory Plasma Cytokines in Depressed Adolescents</i>
Pravesh Sharma, MD	Michelle Horner, DO	Johns Hopkins Bloomberg Children's Center	<i>The Influence of Transmissible Risk on the Relationship Between Cannabis Use and Psychotic Symptoms</i>
Amalia Londono Tobon, MD	Linda Mayes, MD	Yale University	<i>Lasting Effects of Minding the Baby® Home Visiting Program for Young Families</i>

2016

Anthony Deo, MD, PhD	Ragy Grigis, MD, and David Kimhy, PhD	Columbia University	<i>BDNF and cognition in individuals at clinical high-risk for psychosis</i>
Kelli C. Dominick, MD, PhD	Craig Erickson, MD	Cincinnati Children's Hospital Medical Center	<i>Functional connectivity in infants with Fragile X Syndrome and high risk infant siblings of individuals with Autism Spectrum Disorder</i>
Pilar Trelles, MD	Alexander Kolevzon, MD	Icahn School of Medicine at Mt. Sinai	<i>The Impact of Attention Deficit on Clinical and Functional Outcomes in Autism Spectrum Disorder</i>
Danielle Baribeau, MD	Evdokia Anagnostou, MD	University of Toronto	<i>Biological Correlates of Social Processing Across Childhood-onset Neurodevelopmental Disorders</i>
Jerome Taylor, MD	Michael Bloch, MD, MS	Yale Child Study Center	<i>Identifying Children and Adolescents at Risk for Antipsychotic-Induced Weight Gain and Metabolic Dysfunction in the Treatment of Early Onset Schizophrenia Spectrum Disorders (TEOSS) Study</i>

AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows

Supported by AACAP's Campaign for America's Kids

The AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows, supported by **AACAP's Campaign for America's Kids**, offered up to **\$15,000** in research funding support to child and adolescent psychiatry residents and junior faculty who have an interest in starting a research career.

Award Recipient	Mentor(s)	Institution	Project Title
2015			
Mirjana Domakonda, MD	Rachel Marsh, PhD	NYP Hospital of Columbia and Cornell Universities	<i>Attentional Bias to Food Cues and Fronto-striatal Circuit Function in Adolescents with Bulimia Nervosa</i>
Rebecca Muhle, MD, PhD	Craig Erickson, MD	Yale University	<i>Mapping the cell-type specific regulatory networks of the ASD risk gene KDM6B Molecular and Genetic Mechanisms in Autism: From Bench to Bedside</i>
Carrie Vaudreuil, MD	Dina Hirshfeld-Becker, PhD	Massachusetts General Hospital	<i>RAGE-Control: Teaching emotional self-regulation through videogame play</i>
2014			
Stephanie Ameis, MD, MSc	Peter Szatmari, MD, MSc	The Centre for Addiction and Mental Health, University of Toronto	<i>rTMS for the Treatment of Executive Function Deficits in Autism Spectrum Disorder and Associations with Brain Structure: A Pilot Study</i>
Matthew Burkey, MD, MPH	Lawrence S. Wissow, MD, MPH	Johns Hopkins School of Medicine	<i>Developing an Adaptable Assessment Tool for Disruptive Behavior Disorders</i>
Marc Heiser, MD, PhD	Marco Iacoboni, MD, PhD	UCLA Semel Institute for Neuroscience and Behavior	<i>Mirror Neuron Function in the Psychosis Prodrome in Adolescents</i>
Maria Zerrate, MD, MHS	Cristiane Duarte, PhD, MPH	New York Presbyterian Hospital	<i>Mental Health Service And Psychotropic Medication Use Among Puerto Rican Youth With Disruptive Behavior Disorders: A Mixed Methods Approach</i>

AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows

Supported by AACAP's Endowment

The AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows, supported by **AACAP's Endowment**, offered up to **\$15,000** in research funding support to child and adolescent psychiatry residents and junior faculty who have an interest in starting a research career.

Award Recipient	Mentor(s)	Institution	Project Title
2015			
Daniel Medeiros Almeida, MD	Robert McNamara, PhD	Cincinnati Children's Hospital Medical Center	<i>Long-Chain Omega-3 Fatty Acid Levels and Declarative Memory Testing in Adolescent Depressive Disorders</i>
Carolina Vidal, MD	Lawrence Wissow, PhD	Johns Hopkins University	<i>Perceived Relative Deprivation and Depression in an Adolescent Urban Population</i>
2014			
Emily Gray, MD	Kamryn Eddy, PhD	Massachusetts General Hospital	<i>Characterization of Deficits in Social Cognition and Associated Dysregulation of Oxytocin Secretion in Low Weight Adolescent Eating Disorders</i>
Timothy Rice, MD	Dorothy Grice, MD	The Icahn School of Medicine at Mount Sinai	<i>Mediators and Moderators of Group Cognitive Behavioral Therapy for Childhood Obsessive Compulsive Disorder</i>

AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows

Supported by Lilly USA, LLC.

The AACAP Pilot Research Awards for Junior Faculty and Child and Adolescent Psychiatry Fellows, supported by **Lilly USA, LLC**, offered up to **\$15,000** in research funding support to child and adolescent psychiatry residents and junior faculty who have an interest in starting a research career.

Award Recipient	Mentor(s)	Institution	Project Title
2013			
Michael Birnbaum, MD	Christoph Correll, MD	North Shore LIJ Zucker Hillside Hospital	<i>Exploring Barriers to Care in Early Psychosis</i>
Shannon Delaney, MD	Annisa Abi-Dargham, MD	Columbia University Medical Center	<i>An Investigation of Anti-NMDA Receptor Antibodies in Patients with Psychosis, Comparing Adolescents and Young Adults at Clinically High Risk for Psychosis, to those Meeting DSM-IV Criteria for Schizophrenia</i>
Lawrence Fung, MD, PhD	Allan Reiss, MD	Stanford University	<i>Developmental Pathodynamics of Structural and Connectional Neuroanatomy in a Mouse Model of Fragile X Syndrome</i>
Tejal Kaur, MD	Bradley S. Peterson, MD	Columbia University Medical Center/New York State Psychiatric Institute	<i>Surface Anatomy of the Hippocampus and Cortex: Relationship to Familial Risk for Schizophrenia</i>
Christina Khan, MD, PhD	Victor Carrion, MD	Stanford University School of Medicine	<i>Empowering Girls to Take Charge of their Health through Mindfulness and Movement Therapy</i>
Ernest Pedapati, MD, MS	Elana Harris, MD, PhD, and Steve Wu, MD, MS	Cincinnati Children's Hospital Medical Center	<i>Cortical Plasticity in Adolescent Depression</i>

Award Recipient	Mentor(s)	Institution	Project Title
2012			
Jon P. Carlson, MD	D. Cyril D'Souza, MD, & Scott W. Woods, MD	Yale Child Study Center	<i>Imaging Nicotinic Acetylcholine Receptors in the Psychosis Prodrome</i>
Jatinder M. Chawla, MD	Christoph Correll, MD	North Shore-Long Island Jewish Medical Center	<i>Differential Effects of Risperidone and Aripiprazole on Prolactin-Mediated Alterations in Sex Hormones, Sexual Functioning and Bone Turnover in Antipsychotic-Naive Adolescents</i>
Aaron Krasner, MD	Agnes Whitaker, MD	Columbia University	<i>Revisiting Attention Deficit Disorder (ADD) in a Preterm Low Birthweight Cohort at Age 16 Years: Evidence for a Distinct Disorder?</i>
Teresa Lim, MD, MSc	Alexander Kolevzon, MD, & Tng A. Wang, PhD	Mount Sinai School of Medicine	<i>A Pilot Neuroimaging Study of 22q13 Deletion Syndrome</i>
Sunil Mehta, MD, PhD	S. Lawrence Zipursky, PhD, & James McCracken, MD	UCLA	<i>The Role of Neurexin IV in Drosophila Neural Development</i>
Donna Roybal, MD	Kiki D. Chang, MD	Stanford University School of Medicine	<i>The Effects of Social Stress on Brain Activation and Inflammatory Cytokines in Youth with Bipolar Disorder</i>
Amy M. Yule, MD	Timothy E. Wilens, MD	Massachusetts General Hospital	<i>The Impact of Exposure to Parental Substance Use Disorders (SUD) on SUD Risk in Growing-up Boys and Girls</i>

AACAP Pilot Research Awards for General Psychiatry Residents

Supported by Industry Supporters

The AACAP Pilot Research Awards for General Psychiatry Residents, supported by **Pfizer Inc.**, **Arbor Pharmaceuticals, LLC**, and/or **PhRMA**, offer up to **\$15,000** in research funding support to child and adolescent psychiatry residents and junior faculty who have an interest in starting a research career.

Award Recipient	Mentor(s)	Institution	Project Title
2018			
Emily Olfson, MD, PhD	Thomas V. Fernandez, MD	Yale University	<i>Pilot study investigating the role of de novo genetic variants in trichotillomania</i>
2017			
Yael Kufert, MD	Vilma Gabbay, MD, MS	Icahn School of Medicine at Mount Sinai	<i>Gamma-Aminobutyric Acid as a Biomarker in Adolescent Depression: A Longitudinal Study</i>
David C. Saunders, MD, PhD	Hedy Kober, PhD	Yale University	<i>Mindfulness-Based ADHD Treatment for Children (MBAT-C)</i>
2016			
Hannah Reed, MD	William Fifer, PhD	Columbia University	<i>Autonomic Regulation as a Biomarker of Perinatal Frontolimbic Connectivity and Later Social and Emotional Development</i>
Christina Tolbert, MD	Michael A. de Arellano, PhD	Medical University of South Carolina	<i>The Differential Effects of Race/Ethnicity in Childhood Victimization, the Development of Trauma- Related Mental Illness and Trauma Service Utilization</i>
2015			
Jennifer Dwyer, MD, PhD	Michael Bloch, MD, MS	Yale School of Medicine	<i>Efficacy of Rapid-Acting NMDA Antagonist for Treatment of Adolescent Depression</i>
Kathryn Ridout, MD, PhD	Audrey, R. Tyrka, MD PhD	Brown University	<i>The Effects of Childhood Adversity on Cellular Mechanisms of Stress Response and Risk for Psychiatric Disorders</i>
Gerrit Ian Van Schalkwyk, MD, ChB	Fred R. Volkmar, MD	Yale University	<i>Internet Mediated Communication in Adolescents with Autism Spectrum Disorders</i>

Award Recipient	Mentor(s)	Institution	Project Title
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2014

Jorge Almeida, MD PhD	Daniel Dickstein, MD	Brown University	<i>Dysfunctional Emotion Processing Brain Circuitry as a Potential Endophenotype in a High-plus Risk Group For Bipolar Disorder</i>
Araba Chintoh, MBBS, PhD	Gary Remington, MD, PhD, FRCPC	University of Toronto	<i>MR Imaging of Fat Deposition in Adolescents with First-Time Use of Antipsychotics</i>
Naomi Pitskel, MD	Megan V Smith, DrPH	Yale School of Medicine	<i>Effects of Prenatal SRI Exposure on Maternal-Child Interactions</i>

AACAP Pilot Research Award Recipients: Where Are They Now?

Jeffrey Strawn, MD

2012 Pilot Award Recipient, supported by Elaine Schlosser Lewis Fund



Institution: University of Cincinnati

Project Title: *The Neurofunctional Impact of Anxiety in Adolescents with Attention Deficit/Hyperactivity Disorder*

Mentor: Melissa DelBello, MD, MS

Dr. Strawn is currently an Assistant Professor of Psychiatry and Pediatrics at the University of Cincinnati and Cincinnati Children's Hospital Medical Center.

Through the Pilot Award, Dr. Strawn was able to investigate functional magnetic resonance imaging in the assessment of functional abnormalities related to attentional and emotional processing in adolescents with ADHD and co-occurring anxiety. He continues this work in adolescents with anxiety and is utilizing other functional imaging approaches to identify markers of treatment response in anxious adolescents.

Donna Roybal, MD

2012 Pilot Award Recipient, supported by Lilly USA, LLC



Institution: Stanford University School of Medicine

Project Title: *The Effects of Social Stress on Brain Activation and Inflammatory Cytokines in Youth with Bipolar Disorder*

Mentor: Kiki D. Chang, MD

Dr. Roybal is currently an Assistant Professor and Director of the Child and Adolescent At-risk Evaluation for Bipolar Disorders Program (CAARE-BD) at UT Health San Antonio.

Through the Pilot Award, Dr. Roybal was able to examine the biological effects of social stress on youth with bipolar disorder (BD) via the correlation of brain activation levels and functional connectivity with serum inflammatory cytokines. She is a newly funded NIH K23 Career Development Awardee.

Tushita Mayanil, MD, MBBS

2010 Pilot Award Recipient, supported by Elaine Schlosser Lewis Fund



Institution: University of Illinois at Chicago

Project Title: *Functional Magnetic Resonance Imaging Using Attentional and Affective Paradigms in Early Onset Psychosis*

Mentor: Mani Pavuluri, MD, PhD

Dr. Mayanil is currently working as faculty at the University of Pittsburgh Medical Center.

Through the Pilot Award, Dr. Mayanil was able to study the attentional mechanisms in early onset psychosis. Dr. Mayanil also received the 2013-2014 Center for Mental Health Services (CMHS)-AACAP Fellow.

Ryan Herringa, MD, PhD

2010 Pilot Award Recipient, supported by Lilly USA, LLC



Institution: University of Pittsburgh Medical Center

Project Title: *Functional Brain Changes in Young Adult Combat Veterans with PTSD: Impacts of Childhood Maltreatment and Current Sleep Patterns*

Mentor: Mary Phillips, MD, and Anne Germain, PhD

Dr. Herringa is currently an Assistant Professor of Child & Adolescent Psychiatry at the University of Wisconsin School of Medicine and Public Health. Dr. Herringa also received the AACAP Junior Investigator Award in 2011, and was recognized as an AACAP Distinguished Fellow in 2018.

Through the Pilot Award, Dr. Herringa was able to gain invaluable experience in conducting a clinical neuroscience study, from writing an IRB, recruiting and screening subjects, to analyzing neuroimaging data. This opportunity was crucial for his career development, and laid the foundation for a career development award (K08) funded in 2014, and his first R01 funded in 2018, both through NIMH.

David T.W. Chen, MD, FAPA

2009 Pilot Award Recipient, supported by Lilly USA, LLC



Institution: National Institute of Mental Health/Genetic Basis of Mood and Anxiety Disorder Program

Project Title: *Whole Exome Sequencing in First Degree Cousin Pairs with Early Age-At-Onset Bipolar Disorder*

Mentor: Francis McMahon, PhD

Dr. Chen is currently working with Dr. Francis McMahon, MD, at the Human Genetics Branch of the National Institute of Mental Health Intramural Research Program, National Institutes of Health. He works with patients with bipolar disorder from the Old-Order Anabaptist (Amish) population. Dr. Chen works as a private practice child and adolescent psychiatrist in Chevy Chase, Maryland.

Through the Pilot Award, Dr. Chen was able to fund the preliminary data that went on to facilitate his discovery of three novel risk loci for bipolar disorder.

Anna M. Georgiopoulos, MD

2009 Pilot Award Recipient, supported by the Elaine Schlosser Lewis Fund



Institution: Massachusetts General Hospital

Project Title: *Mood and Attention in Cystic Fibrosis: Prevalence and Impact on Health Outcomes*

Mentors: Janet Wozniak, MD, and Jerrold Rosenbaum, MD

Dr. Georgiopoulos is currently an Assistant Professor of Psychiatry at Harvard Medical School and Massachusetts General Hospital (MGH). She also works in the MGH Cystic Fibrosis (CF) Program and collaborates with the MGH Clinical and Research Program in Pediatric Psychopharmacology and Adult ADHD.

Through the Pilot Award, Dr. Georgiopoulos was able to demonstrate the feasibility of routine psychiatric screening in CF clinic, revealing an elevated prevalence of ADHD symptoms, which were associated with reduced quality of life. She has played a leadership role to develop and implement international mental health guidelines for the CF Foundation and European CF Society, resulting in newly funded mental health coordinator positions integrated into 138 CF centers in the US. She is the 2018 recipient of the CF Foundation's Carolyn and C. Richard Mattingly Leadership in Mental Health Care Award.

Natalie Weder, MD

2009 Pilot Award Recipient, supported by Lilly USA, LLC



Institution: New York University Child Study Center

Project Title: *Child and Parent Predictors of Intervention Response Among Preschoolers at Risk for Conduct Disorder*

Mentor: Laurie Brotman, PhD, and F. Xavier Castellanos, MD

Dr. Weder is currently a child and adolescent psychiatrist at the Child Mind Institute. Dr. Weder also received the AACAP Robinson-Cunningham Award for Best Paper by a Resident, “MAOA Genotype, Maltreatment, and Aggressive Behavior: The Changing Impact of Genotype at Varying Levels of Trauma,” published in *Biological Psychiatry* in 2009.

Through the Pilot Award, Dr. Weder was able to evaluate if baseline parental depression and parental stress moderate immediate intervention effects on parenting outcomes. She was also able to evaluate if the presence of high levels of aggression, impulsivity and callous unemotional traits in children moderate immediate intervention effects on parenting outcomes.

Alexander Kolevzon, MD

2004 Pilot Award Recipient, supported by Lilly USA, LLC



Institution: Mount Sinai School of Medicine

Project Title: *The Relationship Between Obsessive-Compulsive Behaviors and Whole Blood Serotonin in Autism: Searching for Evidence of Autism Endophenotypes*

Mentor: Jeremy Silverman, MD

Dr. Kolevzon is currently Director of the Division of Child and Adolescent Psychiatry at Mount Sinai Health System and Clinical Director at Seaver Autism Center for Research and Treatment Icahn School of Medicine at Mount Sinai.

Through the Pilot Award, Dr. Kolevzon was able to receive critical mentorship and explore a research question that fascinated him and ultimately gave him the confidence to pursue a research career. “I am not overstating it to say that without the AACAP Pilot Research Award and the opportunities it provided, I would likely not be in academic psychiatry today. Since that time 14 years ago, I have continued to ask related clinical research questions and feel convinced that the knowledge gained through the AACAP Pilot Research Award experience served as a critical foundation for my career.”



Institution: The Zucker Hillside Hospital

Project Title: *Olanzapine and Risperidone-Induced Alterations of Central Appetite Regulations in Antipsychotic-Naïve Youth with Non-Affective Psychosis*

Mentor: Sanjiv Kumra, MD

Dr. Correll is currently Professor of Psychiatry and Molecular Medicine at Hofstra Northwell School of Medicine Hempstead, New York and Medical Director of the Recognition and Prevention (RAP) Program at The Zucker Hillside Hospital, Department of Psychiatry.

Through the Pilot Award, Dr. Correll was able to collect pilot data that became a first step and building block toward a larger study and further funding. Additionally, receiving the award boosted his enthusiasm, confidence and hope of having a successful academic career.

From AACAP's Pilot Award to AACAP's K-12 Award

NIDA/AACAP Physician Scientist Training Program in Substance Abuse Research

Supported by:

National Institute of Drug Abuse (NIDA) Career Development Award (K12)

- Provides up to five years of salary support, research support, and mentored addiction research training
- For qualified child and adolescent psychiatrists specializing in substance use research
- Leadership provided by principal investigator and advisory committee mentors within AACAP membership

Goals:

- Increase the number of child and adolescent psychiatrist investigators conducting both addiction and mental health research
- Disseminate pediatric addiction research to increase scientific knowledge and improve clinical practice.

History:

- First granted to AACAP in 1998
- 18 scholars completed the program between 1998-20014
- 6 current scholars received the award in 2016

Amy Yule, MD

2012 Pilot Award Recipient, supported by Lilly USA, LLC

2016 K12 Scholar



Institution: Massachusetts General Hospital

Project Title: *The Impact of Exposure to Parental Substance Use Disorders (SUD) on SUD Risk in Growing-Up Boys and Girls*

Mentor: Timothy E. Wilens, MD

Dr. Yule is currently an Assistant in Psychiatry at Massachusetts General Hospital and an Instructor at Harvard Medical School.

Through the Pilot Award, Dr. Yule was able to gain practical experience in working with a research assistant, working with a biostatistician on a complicated secondary analysis, and managing a budget. The award also helped build her confidence to pursue a research career and laid the groundwork to pursue future research awards such as a two-year institutional award and a subsequent career development award through AACAP/NIDA.

Leslie Hulvershorn, MD

2009 Pilot Award Recipient, supported by the Elaine Schlosser Lewis Fund

2010 K12 Scholar



Institution: New York University Child Study Center and New York University Langone Medical Center

Project Title: *Abnormal Corticolimbic Functional Connectivity Associated with Emotional Lability but not Hyperactivity in Children with ADHD*

Mentors: F. Xavier Castellanos, MD, Rachel Klein, PhD, Amy Krain Roy, PhD, and Michael P. Milham, MD, PhD

Dr. Hulvershorn is currently a tenured Associate Professor of Psychiatry at the Indiana University School of Medicine (IUSM). She also directs the Mood and Adolescent Substance Abuse Clinics at IUSM and serves as the Medical Director at Indiana's Division of Mental Health and Addiction.

Through the Pilot Award, Dr. Hulvershorn was able to fund the preliminary data needed for three foundation grants awarded to her in 2010-11 by NARSAD, Klingenstein Third Generation Foundation, and IU Health Values Fund. Dr. Hulvershorn was able to generate the data for her 4-year Career Development Award (K12), funded by NIDA and AACAP. In 2016, she was awarded a Research Project Grant (R01) from the NIH to study risky decision-making in high-risk youth.

Kevin Gray, MD

2004 Pilot Award Recipient, supported by Lilly USA, LLC

2005 K12 Scholar



Institution: Medical University of South Carolina

Project Title: *Cue Reactivity and Medication Treatment in Adolescents with Marijuana Use Disorders*

Mentor: Himanshu Upadhyaya, MD

Dr. Gray is currently Professor and Director of Child and Adolescent Psychiatry in the Department of Psychiatry and Behavioral Sciences at Medical University of South Carolina in Charleston, South Carolina.

Through the Pilot Award, Dr. Gray was able to build the foundation for a career development award through AACAP/NIDA. His research continues to focus on understanding and treating substance use disorders in adolescence and young adulthood. He has maintained continuous independent NIH funding, building a research team that has made significant discoveries. He mentors multiple junior faculty and postdoctoral fellows and serves as Chair of the Advisory Committee for the AACAP/NIDA K12 program.

Research Institute Overview

(Formerly known as the Research Forum)

"A diversified portfolio of research initiatives is needed not only to expand the body of scientific knowledge about mental disorders of childhood, but also to heighten society's awareness of these disorders and the enormous social costs they entail."

- 1989 Institute of Medicine Report

Purpose:

The Research Institute takes place each year at AACAP's Annual Meeting. The purpose of the day long institute is to drive the research policy agenda of child and adolescent psychiatry.

How:

Research Committee members invite speakers to discuss topics that promote the creation of an intellectual environment and support scientific inquiry into the development of more effective treatments for patients and improvement of our understanding of mental health.

Goals:

- To emphasize the importance of research in child and adolescent psychiatry and the study of mental illness;
- To improve the dissemination of research-supported information relevant to the mental health of children and adolescents; and
- To create an environment that encourages scientific exploration and collaboration with investigators across disciplines.

Participation in the Research Institute is open to active researchers across disciplines whose work addresses child and adolescent mental health. Representatives from parent advocacy groups, federal parties, and members of industry or private corporations are also encouraged to attend.

Treatment Updates in Pediatric Depression and Suicidality

Thursday, October 25, 2018

10:00 am—4:30 pm

Sponsored by AACAP's Research Committee

Co-Chairs



Anne L. Glowinski, MD, MPE
Co-Chair



Michael H. Bloch, MD, MS
Co-Chair

Presenters & Discussion Topics



[Karen Dineen Wagner, MD, PhD](#)
Antidepressant Trials for Depression
in Children and Adolescents



[David A. Brent, MD](#)
SSRIs and Suicidality: Cause of Cure



[Michael H. Bloch, MD, MS,](#)
[and](#)
[Jennifer Dwyer, MD, PhD](#)
Ketamine Across the Lifespan: An
Emerging Treatment for Depression
and Suicidality



[Cheryl King, PhD](#)
Computerized Adaptive Screen for
Teen Suicide Risk: Development and
Three-Month Prediction of Suicide
Attempts



[Elizabeth McCauley, PhD](#)
Youth Suicide: How Gender, Sexual
Orientation, and Gender-
Nonconforming Status Shape Risk and
Inform Intervention Strategies

2003

Assessment of Safety in Child Mental Health Research: Obstacles and Opportunities

Addressing the need to develop better methods for assessing the safety of psychosocial and psychopharmacological treatments in controlled clinical trials

2004

Issues in the Conduct and Interpretation of Studies of Adolescent Depression

Reviewing problems and controversies that have become apparent in conducting and interpreting treatment research in adolescent depression

2005

Research Literacy: Speeding the Adoption of Evidence-Based Medicine (EBM) in Pediatric Psychiatry

Demonstrating the readily available and wide applicability of EBM as applied to research, post-graduate and medical education, and clinical practice

2006

Protective and Risk Factors in Pediatric Bipolar Disorder: Predicting Outcomes

Examining rates of recovery for children, adolescents, and adults with bipolar disorder
Determining what developmental and other differences and commonalities might emerge when various outcomes are considered

2007

The Future of Neuroimaging: Relevance for Child Psychiatry

Focusing on key insights emerging for various conditions based on diverse methods
Reviewing the results from studies of both normal and abnormal development that relied on a range of brain imaging methods

2008

Longitudinal Research – What Is It Informing Us About Clinical Disorders and Psychopathology?

The course of the common psychiatric disorders of childhood and the extent to which variation of outcome within a single diagnosis reflects subtype, comorbidity, or other elements identifiable at the time of diagnosis

2009

Investigating the Effects of Psychotherapy on Children and Adolescents: Learning from the Past—Moving Forward

Discussion on the psychotherapy components of studies such as TORDIA, MTA, TADS, CAMS, POTS, and ADAPT that changed the shape of child psychiatry practice and research and raised as many questions as they answered

2010

Perspectives on Current Pediatric Psychopharmacology Research Needs

Identifying the direction of future research on psychopharmacological treatments for youth with psychiatric disorders after the passage of the FDA Modernization Act, the Best Pharmaceuticals for Children Act, and the Pediatric Research Equity Act

2011

Advancing Biomarker Sciences in Pediatric Psychiatry

Introducing participants to biomarker sciences as applied to the development of diagnostic, prognostic, and treatment biomarkers in pediatric psychiatry

2012

Preventing Psychopathology in Childhood and Adolescence

Introducing participants to principles of universal and targeted prevention in medicine, mechanisms involved in mental illness risk and resilience, and novel clinical applications of psychiatric prevention efforts in youth at familial and clinical high risk for exemplary major psychiatric disorders with pediatric onset

2013

Sensitive Periods in Brain Development: Implications for Child Psychopathology and Therapeutics

Introducing participants to the most current empirical studies that inform whether there may be sensitive periods in human emotional development
Considerations for next steps in research and how such sensitive periods may be applicable to treatment models in developmental psychopathology

2014

The Use of Research Domain Criteria (RDoC) for the Study of Psychopathology

Holding an interactive discussion on the unveiling of RDoC as part of the National Institute of Mental Health's strategic plan
Enhancing the understanding of RDoC for child and adolescent psychiatry and outline initial steps for the best approach by which RDoC and DSM-5 can be effectively utilized

2015

What's Up in Child Addiction Research: A Focus on Methodology

Providing a higher level of understanding of the methodology of studies of substance use disorder research in pediatric and young adult populations

2016

Epigenetics in Child and Adolescent Psychiatry

Providing an overview of epigenetic mechanisms and a discussion of the integration of epigenetics into child and adolescent psychiatry research
The basic epigenetic mechanisms that connect environmental experience with outcomes and how physician-scientists and clinical researchers have integrated epigenetic approaches into their research

2017

This Is Your Brain on Child Psychiatry. Any Questions? A Practical Update on the Impact of Neuroimaging Findings in Child Psychiatry

Providing updates on the current state of neuroimaging research from a practical, clinician-focused standpoint and discuss future challenges and opportunities for clinically relevant imaging research

2018 Research Symposium

(Formerly known as the Founders of the Research Initiative Symposium)

Opioids: From the Receptor to the Clinic

Chair: Leslie Hulvershorn, MD

The Research Symposium takes place each year at AACAP's Annual Meeting to bring the practicing clinician and academician a review and discussion of advanced scientific techniques and demonstrate how they are relevant to the contemporary, clinical practice of child and adolescent psychiatry.

2018 Presenters

Sponsored by AACAP's Research Committee



Charles Chavkin, PhD

Molecular Pharmacology of Opioids: Chronic Stress and Developmental Exposures

Dr. Chavkin is the Allan and Phyllis Treuer Chair of Pain Research and Professor of Pharmacology at the University of Washington. He is the Director of the University of Washington Center for Drug Addiction Research and a fellow of the American College of Neuropsychopharmacology. He received a PhD in pharmacology from Stanford University, and conducted postdoctoral work at Salk Institute and Scripps Clinic in neurophysiology. Throughout his career, Dr. Chavkin's research program has been focused on understanding the functioning of the endogenous dynorphin opioid neuropeptides and their kappa opioid receptors. Dr. Chavkin's research effort in his laboratory continues to be focused on 1) the mechanisms regulating synaptic transmission in the mammalian brain; 2) the molecular mechanisms regulating opioid receptor functioning; and 3) the role of the endogenous dynorphin opioids in the regulation of mood and drug addiction risk. They use a combination of electrophysiological, anatomical, and molecular approaches to understand the role of opioid neuropeptides as neurotransmitters in the brain with the ultimate goal of gaining a better understanding of the molecular basis of drug addiction, a malleable form of motivated behavior.



Geetha Subramaniam, MD

Opioid Use Disorders in Youth: NIDA Research Advances and Implications

Dr. Subramaniam is the Deputy Director of the Center for Clinical Trials Network, at the National Institute on Drug Abuse (NIDA). In this role she has been instrumental in developing research projects in a variety of topic areas, including addressing prevention of substance abuse in adolescents, and prevention and intervention of prescription stimulant misuse in youth. Previously, she was a full-time faculty member in the Division of Child Psychiatry at Johns Hopkins School of Medicine and the Associate Medical Director of Mountain Manor Treatment Center, Baltimore, MD, where she led clinical trials with adolescents with substance use disorder and served as a preceptor to residents and fellows. She distinguished herself as a clinical and research expert in the assessment and treatment of adolescents and young adults with opioid use disorders. She is certified by the American Board of Psychiatry and Neurology in General, Child and Adolescent, and Addiction Psychiatry and a Distinguished Fellow of both the American Psychiatric Association and the American Academy of Child and Adolescent Psychiatry. Dr. Subramaniam received a MBBS from Government Medical College in Ballary, Karnataka, completed her residency in general psychiatry at University of Missouri, and completed her fellowship in child psychiatry at the Johns Hopkins University School of Medicine. She is also a past scholar of the K12 career development award, the AACAP Physician Scientist Program in Substance Abuse, supported by NIDA.

Research Symposium Focus: 2005-2012

2005

Human genetics
Molecular genetics
Neuroimaging approaches to developmental psychopathology

2006

New neuroscience approaches to neurodevelopmental disorders

2007

Genetic and epigenetic influences on brain development and behavior
Their importance for understanding childhood psychiatric disorders

2008

Genetics and child and adolescent psychiatry
Dynamic interplay of phenotype, genotype, and treatment

2009

Principles of brain development
Strategies for defining the neural circuits that are most susceptible to genetic mutations and experience-induced modifications

2010

Stress, anxiety, and the developing brain
“Fearful brains”
Risk for anxiety during adolescence
Diverse mechanisms of sex and stress hormone action throughout the brain

2011

Phenotypes, genetics, imaging, and networks
Recent progress in gene identification for selected neurologic disorders and their relevancy to psychiatry
Structural network modeling in neurodevelopment

2012

Social context in development
The human ability to learn, including the capacity to learn to speak
Issues and implications for understanding disparities in children’s health

Research Symposium Focus: 2013-2017

2013

The brain's adaptive abilities at all levels of resolution of brain structure and function from the levels of gene expression, synaptic and cellular circuitry operations and behavioral operations, as they pertain to understanding the disorders of the child and adolescent brain

The long-term effects of childhood malnutrition on cognitive and behavioral outcomes

2014

Serotonin and autism spectrum disorder

Genetic mechanisms controlling the development of the forebrain

2015

Anxiety, cognition, and habit: a memory systems perspective

The role of exome sequencing and other genetic tests in child and adolescent psychiatry

2016

Development of human emotion regulation neurobiology and the role of the caregiver

Neurobiology of infant attachment to the caregiver and neural mechanisms for the enduring mental health effects of abuse and trauma in early life

2017

Combining Electrophysiology and Functional Magnetic Resonance Imaging to Study Social Visual Cognition

Advancing Child and Adolescent Psychiatric Research: A View from the NIMH

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