

HOPE FOR CHILDREN

Thrasher Research Fund Biennial Report 2018–2019





Al pictured with his older sister, Yvonne

Letter from the President

After 17 years working at the Thrasher Research Fund, visiting projects and study subjects around the world, the people who stand out for their care and devotion to children are the mothers and grandmothers. I have seen their heroic efforts to find the best treatments possible for their children and grandchildren, even if it means standing in long lines or walking miles to get to a clinic. Their love and joy are apparent in the tender way they interact with their children. As you read about the transformational work of our grantees, I hope you will join us in celebrating the mothers and grandmothers of the world through the photography in this report.

Through the commitment of the Thrasher Research Fund, children across the world now benefit from prevention strategies, procedures, and treatments for health conditions. Funded projects have established pioneering medical techniques and applied novel technologies—all to reduce childhood morbidity and mortality. The Fund's focus on the health and well-being of children remains center stage as we look toward the future of pediatric medical care.

All this work is possible through the generosity of Mr. Thrasher, who established the Thrasher Research Fund. The legacy of Mr. E. W. "Al" Thrasher continues to be manifest through the many grants that the Thrasher Research Fund provides to improve the lives of children each year.

R Justin Brown



Letter from Mary Bee Thrasher

Al Thrasher continually looked toward the future with optimism, knowing that the key to a brighter future lay in exploration and research. A prolific inventor himself, Al saw that both whole industries and the economy benefit from innovation. Wishing to leave a gift for future generations, he founded the Thrasher Research Fund to foster that same inventive spirit of discovery and improve the lives of children through medical advances. Thankfully, he lived to see his philanthropic endeavors benefit the lives of thousands of children before his passing in 2005; and since his passing, I have witnessed many more scientific discoveries by Thrasher grantees. Our family wishes to express gratitude to the president and staff of the Thrasher Research Fund, as well as a special thanks to the grantees and scientific teams who carry out the research. What you do has truly made a difference in the lives of children around the world. Thank you for continuing the legacy that AI envisioned for the tremendous difference research could make in the prevention and treatment of diseases in children.

Mary BEE Mouler





ving the Gift of Health e E.W. "Al" Thrasher Award

The purpose of the E.W. "Al" Thrasher Award is to improve pediatric clinical practice through medical research. Since initiating this award over 40 years ago, our grantees have led their fields through significant advancements in clinical practice and guidelines. During 2018–2019, 18 new Thrasher awards were granted, totaling over seven million dollars.

These grants do not focus on a specific disease; instead, the Thrasher Research Fund is open to applications that address a variety of significant pediatric problems. Our current and former grantees of the E.W. "Al" Thrasher Award offer the potential for practical solutions to address significant health problems that affect children in large numbers. Their solutions are innovative and have the potential for broad applicability with low barriers to implementation.





E.W. "AI" Thrasher Award Recipients 2018

Katherine Deans, MD, MHSc The Research Institute at Nationwide Children's Hospital Reducing unnecessary oophorectomies for benign neoplasms in girls: A multi-institutional study \$394,002

Shane George, PhD

The University of Queensland Nasal high-flow apnoeic oxygenation during paediatric emergency intubation: A randomized controlled trial \$368,290

Paul Heath, MBBS, FRCPCH

St. George's, University of London Acellular pertussis vaccination in pregnancy: the impact of timing of vaccination on antibody response in infants \$359,241

Timothy Julian, MSc, PhD

Eawag Impact of water chlorination on children's carriage of antimicrobial-resistant bacteria \$321,959

Anup Katheria, MD

Sharp Mary Birch Hospital for Women & Newborns 2 year neurodevelopmental outcomes in premature infants receiving milking or delayed cord clamping \$531,788

Christine McGrath, PhD, MPH

University of Washington Developing low-cost universal malnutrition screening for low-income countries \$437,983

Hussnain Mirza, MD, FAAP

Florida Hospital for Children Treatment of delayed pulmonary transition in extremely preterm infants and bronchopulmonary dysplasia \$362,624

Georg Schmölzer, MD, PhD

University of Alberta Different chest compression techniques during neonatal resuscitation—a cluster randomized trial \$272,332

Gregory Sokol, MD

University of Alberta Physiological approach to sodium supplementation in preterm infants \$386,077

2019

Sonia Bonifacio, MD

Stanford University School of Medicine TIME Study: An RCT of therapeutic hypothermia for infants with mild encephalopathy in California \$372,711

Jacob Dal-Bianco, MD

Massachusetts General Hospital Identifying and preventing rheumatic heart valve disease progression \$395,992

Andrew DiNardo, MD

Baylor College of Medicine Restoration of BCG immunity after helminth-induced epigenetic-mediated immune exhaustion \$349,088

Adrian Martineau, MRCP, PhD, FRSB

Queen Mary University of London Trial of high-dose vitamin D in the treatment of complicated severe acute malnutrition (ViDiSAM) \$538,232

Sarah Mulkey, MD, PhD Children's National Medical Center Developmental outcome after in utero ZIKV exposure in children Without congenital zika syndrome \$429,786

Elizabeth Stenger, MD, MSc

Emory University Acute GVHD suppression using co-stimulation blockade to expand nonmalignant transplant (ASCENT) \$336,355

Rena Patel, MD, PhD

University of Washington

Using novel point-of-care HIV drug resistance testing to optimize viral suppression rates among children living with HIV (Opt4Kidsplus) \$411,465

Marc Rothenberg, MD, PhD

Cincinnati Children's Hospital Medical Center **Eosinophil progenitor level as a biomarker for disease activity in eosinophilic esophagitis** \$395,900

Tobias Strunk, MD, PhD, FRACP

University of Western Australia

Topical coconut oil to prevent late-onset sepsis in extremely preterm infants: a cluster-randomized clinical trial \$363,010



Early Career Award Program Recipients

Many bright, young investigators find it challenging to secure funding for their innovative research ideas, yet this next generation of researchers is vital for finding solutions to children's health problems. To solve this issue, Thrasher Research Fund provides smaller grants to promising researchers, giving them an introduction into the world of pediatric clinical research. Established in 2006, the Early Career Award Program provides \$25,000 grants to the most promising young researchers and has awarded over 250 of these grants since the program's inception. Well-qualified recipients from around the world are awarded this grant each year through two funding cycles, providing them the necessary resources to conduct their own research under the guidance of a mentor. During 2018 and 2019, 70 new grants were given to young researchers investigating some of the most important problems facing children around the world.

Over the past two years, Early Career Award recipients have not only made substantial contributions to children's health worldwide, but they've also jump-started their careers as lifelong researchers committed to reducing child morbidity and mortality. They have made presentations at prestigious conferences such as Experimental Biology and the Pediatric Academic Societies, as well as publishing in journals such as *The Lancet, The New England Journal of Medicine*, and the *Journal of the American Medical Association.* We look forward to their future success in tackling health problems and improving the lives of children.



Early Career Award Recipients 2018

Aviva Aiden, MD, PhD

Baylor College of Medicine Diagnosing infection and antibiotic resistance using **3D**-genome-based genome assemblies Mentors: Erez Aiden, PhD; James Dunn, PhD

Adam Bensimhon, MD

Duke University Pharmacokinetics of Cefepime in children receiving continuous renal replacement therapy Mentors: Rasheed Gbadegesin, MD; Kevin Watt, MD, PhD

Karen Best, RN, RM, PhD

South Australian Health & Medical Research Institute The effect of maternal unmetabolized folic acid on allergic disease in the infant Mentors: Tim Green, PhD; Debbie Palmer, BSc, BND, PhD; Maria Makrides, BSc, PhD, RD

Meredith Brooks, PhD, MPH

Harvard Medical School Optimizing diagnostic algorithms for prompt detection of childhood tuberculosis Mentor: Mercedes Becerra, ScD

Reid Chamberlain, MD

Duke University Evaluating post-op AKI criteria in infants with CHD and the protective effects of acetaminophen Mentors: Kevin Hill, MD, MS; Christoph Hornik, MD

Tegan Cheng, PhD

The Sydney Children's Hospitals Network Printhotics-Deep learning to optimize and personalize 3D printed pediatric medical devices Mentor: Joshua Burns, PhD

Mary Crocker, MD, MPH Seattle Children's Hospital Lung ultrasound and digital auscultation for discrimination between viral and non-viral respiratory illnesses Mentors: Margaret Rosenfeld, MD, MPH; William Checkley, MD, PhD

Matthew Cummings, MD

Columbia University Medical Center Precision detection and characterization of pediatric severe acute respiratory infection in Uganda Mentors: Max O'Donnell, MD, MPH: Patrick Wilson, MD, MPH; W. Ian Lipkin, MD

Kathleen Dantzler, PhD

Stanford University School of Medicine Impact of recurrent malaria on gamma delta ($y\delta$) **T-cell-mediated trained immunity** Mentor: Prasanna Jagannathan, MD

Kendell German, MD

University of Washington Urine F2-Isoprostanes and oxidative stress in ELGANs and correlation with iron administration Mentors: Sandra Juul, MD, PhD, FAAP; Pratik Parikh, MD

Sabrina Gmuca, MD

Children's Hospital of Philadelphia **Complications of extended antibiotic therapy** and the misdiagnosis of chronic Lyme disease Mentors: Jeffrey Gerber, MD, PhD, MSCE; David Sherry, MD

Jacob Greenberg, MD, MSCI

Washington University in St. Louis Clinical decision support for managing children with mild head injuries and intracranial injury Mentors: David Limbrick, MD, PhD; Randi Foraker, PhD, MA; Nathan Kuppermann, MD, MPH

Stuart Hamilton, BSc, PhD

University of New South Wales Therapeutic strategies for the prevention and treatment of congenital cytomegalovirus disease Mentors: William Rawlinson, MBBS, FRACP, PhD; Manfred Marschall, MD

Wesley Jackson, MD, MPH

University of North Carolina Pharmacokinetics and safety of caffeine in infants with hypoxic-ischemic encephalopathy Mentors: Matthew Laughon, MD, MPH; Daniel Gonzalez, PharmD, PhD

Haik Kalantarian, MS, PhD

Stanford University A system for social training and progress tracking for children with autism spectrum disorder Mentor: Dennis Wall, PhD

Crystal Karakochuk, PhD, RD

University of British Columbia High-dose folic acid supplementation in children with sickle cell disease: Friend or foe? Mentors: Angela Devlin, PhD; John Wu, PhD, MD; Suzanne Vercauteren, PhD, MD

Jana Krystofova, MD, PhD

University of California, San Francisco The role of arginase in neuroinflammation after neonatal hypoxic-ischemic brain injury Mentor: Donna Ferriero, MD, MS

Leila Larson, PhD, MPH

University of Melbourne The influence of hepcidin on benefits and risks of iron Mechanisms and outcomes in children with acute supplementation in Bangladeshi children traumatic coagulopathy Mentors: Sant-Rayn Pasricha, MBBS (Hons) MPH PhD Mentors: Shibani Pati, MD, PhD; Philip Spinella, MD FRACP FRCPA; Beverley-Ann Biggs, MB, BS, PhD



Janessa Law, MD

University of Washington Stem cells in addition to hypothermia for neuroprotection in perinatal hypoxic-ischemic brain injury Mentors: Evan Snyder, MD, PhD; Sandra Juul, MD, PhD, FAAP

Marcela Moncada-Velez, PhD

Johns Hopkins Bloomberg School of Public Health Examining childhood immunity to Leishmania parasites as a path to smarter therapies Mentors: Janet Markle, PhD, MPH; Jose Franco, MD, PhD

Ken Morita, MD, PhD

Dana-Farber Cancer Institute Synthesizing novel activators of PP2A in T-ALL cells Mentor: A. Thomas Look, MD

Alison Nair, MD

University of California, San Francisco



Audrey Nath, MD, PhD

Baylor College of Medicine Language localization in pediatric epilepsy patients using novel, task-free neuroimaging techniques Mentors: Sameer Sheth, MD, PhD; Brett Foster, PhD

Gaston Ofman, MD, FAAP Fundación INFANT

Novel immunologic and physiologic predictors of pediatric lung disease in premature children: A prospective cohort study Mentors: Fernando Polack, MD; Adnan Custovic, DM, MD, PhD, FRCP; Peter Sly, MBBS, MD, DSc, FRACP

Sweta Patel, MD

Duke University The effect of household air pollution on the health outcomes of infants in Botswana Mentors: Matthew Kelly, MD, MPH; Junfeng (Jim) Zhang, PhD

Katherine Satrom, MD

University of Minnesota Smartphone phototherapy irradiance meter for neonatal jaundice Mentors: Tina Slusher, MD; Isa Abdulkadir, MD

Danielle Sipsock, MD

Brown University Defining the neurocognitive profile of depression in adolescents with autism to improve diagnosis Mentor: Stephen Sheinkopf, PhD

Luke Smart, MD

Cincinnati Children's Hospital Medical Center Bedside expedited testing for anemia (BETA) Mentors: Russell Ware, MD, PhD; Patrick McGann, MD, MS

Daria Szkwarko, DO, MPH

Kent Hospital

Using a mobile application to improve pediatric presumptive TB identification in western Kenya Mentors: E. Jane Carter, MD; Charles Eaton, MD, MS; Anna Mandalakas, MD

Matthew Taylor, MD

The Feinstein Institute for Medical Research Contributions of memory (CD4 and CD8 T Cells) to sepsis induced immune and organ dysfunction Mentors: Clifford Deutschman, MD, MS; Barbara Sherry, PhD

Sky Vanderburg, MD, MPH

Duke University Predicting severity and etiology of acute lower respiratory tract infections with lung ultrasound Mentors: Christopher Woods, MD, MPH; Gayani Tillekeratne, MD, MSc

Tess Wallace, PhD

Boston Children's Hospital Robust motion correction for improved MRI of unsedated children with autism spectrum disorder Mentor: Simon Warfield, PhD

Katharine Walter, PhD

Stanford University School of Medicine Reconstructing patterns of virus spread and evolution for prevention of childhood infections Mentors: Yvonne (Bonnie) Maldonado, MD; Jason Andrews, MD, SM, DTM&H

Jeffrey Winer, PhD

Boston Children's Hospital Transdiagnostic group treatment for refugee and immigrant youth: An intervention study Mentor: B. Heidi Ellis, PhD

Yao Wu, PhD

Children's Research Institute Brain development in fetuses with congenital heart disease Mentors: Catherine Limperopoulos, PhD; Mary Donofrio, MD



2019

Rupsa Boelig, MD

Thomas Jefferson University Azithromycin pharmacokinetics and pharmacodynamics in pregnancy and preterm birth prevention: Optimizing dosing to improve maternal and neontatal outcomes Mentors: Athena Zuppa, MD; Walter Kraft, MD

Pau Castel, PhD

University of California, San Francisco A preclinical trial of MEK inhibitor as a therapeutic approach for Noonan syndrome Mentors: Frank McCormick, PhD; Katherine Rauen, MD, PhD

Dillon Chen, MD, PhD

University of California, San Diego A simple method to detect neurologic disease in neonates Mentors: Todd Coleman, PhD; Jeffrey Gold, MD, PhD

May Chen, MD

Johns Hopkins University School of Medicine Caffeine-mediated augmentation of mitochondrial p27 as a novel neurotherapeutic for neonatal HIE Mentors: Jennifer Lee, MD; Lee Martin, PhD

Emily Ciccone, MD, MHS

University of North Carolina School of Medicine Stewardship for acute respiratory illness (STAR): expanding access to rapid biomarker testing Mentors: Jonathan Juliano, MD, MSPH; Edgar Mulogo, PhD; Ross Boyce, MD, MSc

Sarah Commander, MD

Duke University Perioperative tissue penetration of antimicrobials in infants Mentors: Christoph Hornik, MD; Elisabeth (Lisa) Tracy, MD; Michael Cohen-Wolkowiez, MD, PhD

Christina Cruz, MD, EdM

University of North Carolina Acceptability of task-shifting children's mental health care to classroom teachers in Darjeeling Mentors: Bradley Gaynes, MD, MPH

Ankana Daga, MD

Boston Children's Hospital Chronic kidney disease in Honduras and Guatemala Mentors: Friedhelm Hildebrandt, MD; Randall Lou-Meda, MD

Pieter De Cock, PharmD, PhD

Ghent University Hospital Estimation of renal function in critically ill neonates, infants and children Mentor: Johan Vande Walle, MD, PhD

Emily Deichsel, MPH, PhD

University of Maryland School of Medicine The effect of azithromycin and microbiome composition on infant rotavirus vaccine immunogenicity Mentors: Karen Kotloff, MD; Jacques Ravel, PhD

Santosh George, PhD

Yale University

Development of tools to detect deworming drug resistance in children with hookworm infection Mentors: Michael Cappello, MD; Michael Wilson, PhD

Gerard Gonzales, BSc, MSc, PhD

Ghent University Investigating the role of extracellular matrix remodeling in oedematous severe acute malnutrition: A validation study Mentors: James Berkley, FRCPCH, FMedSci; Debby Laukens, PhD; Robert Bandsma, MD, PhD

Sarah Gunter, PhD, MPH

Baylor College of Medicine **Epidemiologic investigation of emergent** spotted fever group rickettsioses in Belize Mentor: Kristy Murray, DVM, PhD

Rachel Hawe, DPT, PhD

University of Calgary

Robotic rehabilitation and brain stimulation for children with hemiparetic cerebral palsy Mentors: Sean Dukelow, MD, PhD; C. Adam Kirton, MD

D. Taylor Hendrixson, MD

Washington University in St. Louis Effect of an alternative RUTF on intestinal permeability in children with severe acute malnutrition Mentor: Mark Manary, MD

Alisa Kachikis, MD

University of Washington **Protection of high-risk infants via maternal antibody: the impact of fetal growth restriction** Mentors: Janet Englund, MD; Linda Eckert, MD; Michael Gravett, MD

Mufaro Kanyangarara, PhD

University of South Carolina Hypothermia prevention in low birthweight and preterm infants Mentor: Robin Dail, PhD, RN, FAAN

Ivan Lee, MD, PhD

Stanford University School of Medicine Endotyping pediatric chronic rhinosinusitis using multiplexed imaging and mass cytometry Mentors: Garry Nolan, PhD; Jayakar Nayak, MD, PhD

R. Brad Lindell, MD

Children's Hospital of Philadelphia Serial high-dimensional immunophenotyping and functional testing in pediatric MODS (PARADIGM-SHIFT) Mentors: E. John Wherry, PhD; Athena Zuppa, MD; Mark Hall, MD

Lindsey Locks, ScD, MPH

Boston University Iron-deficiency and non-iron-deficiency anemia in pregnancy and infant health in India Mentors: Patricia Hibberd, MD, PhD; Archana Patel, MD, DNB (Pediatrics), MSCE, PhD

Anil Maharaj, PhD Duke University Evaluation of the effects of childhood obesity on drug dosing Mentors: Kevin Watt, MD, PhD; Michael Cohen-Wolkowiez, MD, PhD

Hiba Mustafa, MD

University of Minnesota Liposomal Bupivacaine pharmacokinetics and breast milk excretion after cesarean delivery Mentor: Michael Todd, MD

Mary Lauren Neel, MD, MSCI

Nationwide Children's Hospital Early risk identification and neural mechanisms of parent-infant interactions in preterm infants Mentor: Nathalie Maitre, MD, PhD

Zannatun Noor, PhD

ICDDR,B Development of an effective treatment of Cryptosporidiosis in Bangladeshi children Mentors: Rashidul Haque, PhD; Carol Gilchrist, PhD; William Petri, MD, PhD

Uduak Okomo, MBBCh, FWACP, MSc, PhD

MRC Unit The Gambia at LSHTM Incidence and aetiology of viral infections among African newborns with suspected bacterial sepsis Mentor: Beate Kampmann, MD, PhD, DTM&H, FRCPCH

Jessie Oldham, PhD

Boston Children's Hospital **A multifaceted assessment of post-concussion adolescent startle response and injury** Mentors: William Meehan, MD; Marcela Pasetti, PhD; Rebekah Mannix, MD, MPH

Beth Pineles, MD, PhD

UT Health Science Center at Houston **Ambulation for latency during expectant management of PPROM: A randomized controlled trial (AMBLE)** Mentors: Baha Sibai, MD; Suneet Chauhan, MD, Hon DSc

Stephanie Shiau, PhD, MPH

Rutgers, The State University of New Jersey Signature immune activation markers of growth and infectious morbidity in HEU children Mentors: Jennifer Jao, MD; Stephen Arpadi, MD

Jeffrey SoRelle, MD

UT Southwestern Medical Center **Confirming mendelian genetic causes of pediatric food allergy** Mentors: Bruce Beutler, MD; J. Andrew Bird, MD

Neil Stewart, PhD

Cincinnati Children's Hospital Medical Center **Rapid, multi-functional MRI for infant lung disease** Mentors: Jason Woods, PhD; Jim Wild, PhD

Ashley Styczynski, MD, MPH

Stanford University

Evaluating the role of vertical transmission of antimicrobial resistance in neonatal sepsis and infectious morbidity in HEU children Mentor: Stephen Luby, MD

Matthew Vogt, MD, PhD

Vanderbilt University Medical Center **The role of human antibody in enterovirus D68 associated acute flaccid myelitis** Mentors: James Crowe, MD; David Kimberlin, MD

Alberta Wang, MD, MS

Brigham & Women's Hospital **Role of methylation quantitative trait loci in pediatric asthma inhaled corticosteroid response** Mentors: Kelan Tantisira, MD, MPH; Scott Weiss, MD, MS



Marnie Winter, PhD

University of South Australia Circulating fetal cells: A new paradigm for the early detection and treatment of preeclampsia Mentor: Benjamin Thierry, PhD

Yanjia Zhang, MD, PhD

Boston Children's Hospital **Gut microbial signals that influence food preference and appetite regulation in obesity** Mentors: Eric Alm, PhD; Camilla Richmond, MD

Thrasher Financials

Statement of Financial Position – December 31, 2018 and 2019

	2018	2019	
Assets			
Cash and Receivables	\$ 10,191,671	\$ 893,644	
Investments	\$ 96,961,558	\$ 113,138,166	
Total Assets	\$ 107,153,229	\$ 114,031,810	
Liabilities and Net Assets			
Grants Payable	\$ 7,427,039	\$ 8,050,445	
Other Payable	\$ 9,998,484	\$ 787,418	
Total Liabilities	\$ 17,425,523	\$ 8,837,863	
Net Assets	\$ 89,727,706	\$ 105,193,947	
Total Liabilities and Net Assets	\$ 107,153,229	\$ 114,031,810	

Statement of Activities and Changes in Net Assets Ended December 31, 2018 and 2019

	2018	2019
Revenues		
Interest and Dividends from Investments	\$ 2,629,478	\$ 2,372,125
Miscellaneous Income	0	0
Net Realized and Unrealized Gain/(Loss) on Investments	\$ 4,422,654	\$ 10,795,959
Contributed Services	\$ 1,234,400	\$ 1,067,000
Total	\$ 558,776	\$ 14,235,084
Expenses		
Research Grants	\$ 4,094,859	\$ 4,057,633
Contributed Services	\$ 1,234,400	\$ 959,000
General and Administrative	\$ 793,126	\$ 714,185
Total	\$ 6,122,385	\$ 5,730,818
Excess/(Deficiency) in Revenues Over Expenses	\$ 6,681,161	\$ 15,607,322
Net Assets at Beginning of Year	\$ 96,262,025	\$ 89,727,706
Retirement/Medical Expense	\$ 146,842	\$ 141,081
Net Assets at End of Year	\$ 89,727,706	\$ 105,193,947

Advisory Committee

Carl Bose, MD

(Co-Chair) Professor of Pediatrics Division of Neonatal-Perinatal Medicine University of North Carolina School of Medicine at Chapel Hill

Yvonne Wu, MD, MPH

(Co-Chair) Professor of Neurology and Pediatrics University of California, San Francisco

Michael Cohen-Wolkowiez, MD, PhD

Professor of Pediatrics **Director Pharmacometrics Center** Duke Clinical Research Institute

Kathryn Dewey, PhD

Distinguished Professor Emerita, Department of Nutrition Director, Program in International and Community Nutrition University of California, Davis

Kathryn Edwards, MD

Sarah H. Sell and Cornelius Vanderbilt Chair in Pediatrics Professor of Pediatrics Director, Vaccine Research Program Division of Infectious Diseases Vanderbilt University School of Medicine

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Professor of Pediatrics Division of Critical Care Director, PCAT Scholars Program Department of Pediatrics University of Utah

Fernando Polack, MD

Cesar Milstein Professor of Pediatrics Department of Pediatrics Vanderbilt University Medical Center Director, Fundación INFANT, Argentina

Executive Committee

Andria Ruth, MD (Chair) Santa Barbara Neighborhood Clinic

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Chief, Division of Adolescent/Young Adult Medicine Director, Bone Health Program Professor of Pediatrics Harvard Medical School

DeVon Hale, MD

Department of Internal Medicine Professor (Clinical) Emeritus University of Utah School of Medicine

Paul Moore, MD

Director, Pediatric Allergy, Immunology and Pulmonary Medicine Professor of Pediatrics and Pharmacology Vanderbilt University Medical Center

Department of Public Health Brigham Young University

Mark Underwood, MD, MAS

Chief of Pediatric Neonatology Professor of Pediatrics University of California, Davis

Selected Publications

E.W. "AI" Thrasher Awards

Dr. Björn Pasternak, Karolinska Institutet

Pasternak, Björn, Viktor Wintzell, Kari Furu, Anders Engeland, Martin Neovius, and Olof Stephansson. **"Oral Fluconazole in Pregnancy and Risk of Stillbirth and Neonatal Death."** JAMA 319, no. 22 (2018): 2333-2335.

Dr. Anup Katheria, Sharp Mary Birch Hospital for Women & Newborns

Katheria, Anup, Donna Garey, Giang Truong, Natacha Akshoomoff, Jane Steen, Mauricio Maldonado, Debra Poeltler, Mary Jane Harbert, Yvonne E. Vaucher, and Neil Finer. **"A Randomized Clinical Trial of Umbilical Cord Milking vs Delayed Cord Clamping in Preterm Infants:** Neurodevelopmental Outcomes at 22-26 Months of Corrected Age."

The Journal of Pediatrics 194 (2018): 76-80.

Dr. Christine Stewart, University of California, Davis

Stewart, Christine P., Kathryn G. Dewey, Audrie Lin, Amy J. Pickering, Kendra A. Byrd, Kaniz Jannat, Shahjahan Ali et al. **"Effects of lipid-based nutrient supplements and infant and young child feeding counseling with or without improved water, sanitation, and hygiene (WASH) on anemia and micronutrient status: results from 2 cluster-randomized trials in Kenya and Bangladesh.**"

The American Journal of Clinical Nutrition 109, no. 1 (2019): 148-164.

Dr. Mary Ellen McCann, Harvard Medical School

McCann, Mary Ellen, Jurgen C. De Graaff, Liam Dorris, Nicola Disma, Davinia Withington, Graham Bell, Anneke Grobler et al. **"Neurodevelopmental outcome at 5 years of age after general anaesthesia or awake-regional anaesthesia in infancy (GAS): an international, multicentre, randomised, controlled equivalence trial."** The Lancet 393, no. 10172 (2019): 664-677.

Dr. Andrea Beaton, Cincinnati Children's Hospital

Beaton, Andrea, Emmy Okello, Daniel Engelman, Anneke Grobler, Amy Scheel, Alyssa DeWyer, Rachel Sarnacki et al. **"Determining the impact of Benzathine penicillin G prophylaxis in children with latent rheumatic heart disease (GOAL trial): study protocol for a randomized controlled trial."**

American Heart Journal 215 (2019): 95-105.

Early Career Awards

Dr. Jakob Stokholm, University of Copenhagen

Stokholm, Jakob, Martin J. Blaser, Jonathan Thorsen, Morten A. Rasmussen, Johannes Waage, Rebecca K. Vinding, Ann-Marie M. Schoos et al. **"Maturation of the** gut microbiome and risk of asthma in childhood." Nature Communications 9, no. 1 (2018): 141.

Dr. Kristina Adachi, University of California, Los Angeles

Nielsen-Saines, Karin, Patrícia Brasil, Tara Kerin, Zilton Vasconcelos, Claudia Raja Gabaglia, Luana Damasceno, Marcos Pone et al. **"Delayed childhood neurodevelopment and neurosensory alterations in the second year of life in a prospective cohort of ZIKV-exposed children."**

Nature Medicine 25, no. 8 (2019): 1213-1217.

Dr. Jennifer Dan, La Jolla Institute for Allergy & Immunology

Dan, Jennifer M., Colin Havenar-Daughton, Kayla Kendric, Rita Al-Kolla, Kirti Kaushik, Sandy L. Rosales, Ericka L. Anderson et al. **"Recurrent group A Streptococcus tonsillitis is an immunosusceptibility disease involving antibody deficiency and aberrant TFH cells."** Science Translational Medicine 11, no. 478 (2019): eaau3776.

Dr. Yangming Ou, Harvard Medical School

Hassan Rivaz, Matthieu Chabanas, Maryse Fortin, Ines Machado, Yangming Ou, Mattias P. Heinrich et al. **"Evaluation of MRI to ultrasound registration methods for brain shift correction: The CuRIOUS2018 Challenge"** IEEE Transactions on Medical Imaging (2019).

Dr. Bahaa Abu-Raya, University of British Columbia

Michelle L. Giles, Tobias R. Kollman, and Manish Sadrangani. **"The effect of timing of tetanus-diphtheriaacellular pertussis vaccine administration in pregnancy on the avidity of pertussis antibodies."** Frontiers in Immunology 10 (2019): 2423.

Contact Information

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Allison F. Martinez Executive Assistant MartinezAF@ThrasherResearch.org 801.240.4753



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