



# HOPE FOR CHILDREN

**Thrasher Research Fund**

Biennial Report 2015-2016



[ThrasherResearch.org](http://ThrasherResearch.org)



## **THRASHER RESEARCH FUND**

Medical research grants to improve the lives of children



Al and Mary Bee Thrasher

### *Letter from the President*

The greatest legacy a man can have is to leave the world a better place because of his efforts. The world is a better place because of Mr. Thrasher's generosity and his desire to help children. It was this compassion that led him to establish a research fund dedicated to the diagnosis, prevention and treatment of children's diseases.

E. W. "Al" Thrasher's legacy is manifested through the many grants Thrasher Research Fund has provided to improve the lives of children. Over the past several decades, more than \$100 million has been given to research in these efforts. There are children in many countries throughout the world who may never know of his name, but, because of him, have literally been given life. The faces of these children and families reflect a hope for a better tomorrow.

Though Mr. Thrasher is no longer with us, his legacy continues. The Fund's focus on the health and well-being of children remains as our grantees conduct medical research, the results of which are being translated into interventions to prevent and treat children's diseases. These results are published in premier research and medical journals across the globe.

As Mr. Thrasher's legacy continues, the Fund will continue in the vision set forth to improve the health of children around the world.

### *Letter from Mary Bee Thrasher*

My late husband, E.W. "Al" Thrasher, established the Thrasher Research Fund to foster the spirit of innovation in talented doctors and scientists seeking to improve the health of children. Although he too was an inventor, he knew that nothing could be more gratifying than saving the life of a child. Thankfully, he lived to see his philanthropic benefit the lives of thousands of children and many more have improved health since his passing.

Al would be pleased with the continued growth of the Fund and the many lives it has touched. As the Fund works with researchers around the globe to find answers to children's medical problems, Al's legacy and vision will continue. My family and I wish to express our sincere gratitude to the many professionals who assist the Fund in its mission.

*Mary Bee Thrasher*





## ***Giving the Gift of Health The E.W. "Al" Thrasher Award***

The purpose of the E.W. "Al" Thrasher Awards is to improve children's health through medical research. Since initiating this award over 40 years ago, our grantees have been leaders in their fields through significant advancements in clinical practice and guidelines. During 2015-2016, 23 new Thrasher awards were granted, totaling over 7 million dollars. The Thrasher Research Fund does not focus on specific diseases, instead, grants are 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. "Al" Thrasher Awards**

### **2015**

David Anderson, PhD  
*Burnet Institute*  
Improved diagnosis of active syphilis at point-of-care for the elimination of congenital syphilis  
**\$308,924**

Gary Darmstadt, MD, MS  
*Stanford University*  
Emollient therapy for severe acute malnutrition: Randomized controlled clinical trial in Bangladesh  
**\$275,000**

Michael DeBaun, MD, MPH  
*Vanderbilt University Medical Center*  
Hydroxyurea for stroke prevention in children with Sickle Cell Disease in Sub-Saharan Africa  
**\$375,000**

Grace John-Stewart, MD, PhD  
*University of Washington*  
Preventing Mycobacterium tuberculosis infection in HIV-exposed infants  
**\$523,569**

Reynaldo Martorell, PhD  
*Emory University*  
Assessing the impact of home fortification of complementary foods on child cognitive development  
**\$119,316**

Katrin Mattern-Baxter, PT, DPT, PCS  
*California State University, Sacramento*  
Intensive home-based treadmill training and walking attainment in young children with cerebral palsy  
**\$150,001**

Mary Ellen McCann, MD, MPH  
*Boston Children's Hospital*  
Neurocognitive outcomes 5 years after infant anesthesia: The GAS Trial  
**\$361,151**

Loren Miller, MD, MPH  
*LA BioMed*  
Decolonization of the oropharynx, an important and neglected reservoir of *S. aureus* colonization  
**\$304,911**

Francisca Mutapi, PhD  
*University of Edinburgh*  
Childhood schistosomiasis: a novel strategy extending the benefits/reach of antihelminthic treatment  
**\$352,561**

Tina Slusher, MD  
*Minneapolis Medical Research Foundation*  
Filtered sunlight phototherapy to treat significant jaundice: Safety and efficacy in neonates  
**\$449,856**

Catherine Sutcliffe, PhD, ScM  
*Johns Hopkins Bloomberg School of Public Health*  
Evaluation of a novel HIV point-of-care test for early infant diagnosis at birth in rural Zambia  
**\$432,301**

Michael Weiss, MD  
*University of Florida*  
Melatonin as a neuroprotective therapy in neonates with HIE undergoing hypothermia  
**\$296,741**

### **2016**

Stephan Ehrhardt, MD, MPH, DTMPH  
*Johns Hopkins Bloomberg School of Public Health*  
Tenofovir in early pregnancy to prevent mother-to-child transmission of hepatitis B virus  
**\$391,189**

Jonathan Finlay, MB, ChB, FRCP  
*The Research Institute at Nationwide Children's Hospital*  
Prospective molecular profiling of medulloblastoma in children on the Head Start 4 consortium trial  
**\$324,293**

Anup Katheria, MD  
*Sharp Mary Birch Hospital for Women & Newborns*  
Long-term effects of umbilical cord milking vs delayed cord clamping in preterm infants  
**\$174,186**

Jennifer Keiser, PhD  
*Swiss Tropical & Public Health Institute*  
Efficacy and safety of moxidectin plus albendazole,  
moxidectin plus tribendimidine, albendazole plus  
oxantel pamoate and moxidectin alone against *Trichuris*  
*trichiura* and concomitant soil-transmitted helminth  
infections: a randomized controlled trial  
**\$151,037**

Cynthia McEvoy, MD  
*Oregon Health & Science University*  
Steroids and Surfactant in Extremely Low Gestational  
Age Infants (SASSIE), Pilot Dose Escalation Trial  
**\$295,919**

Caleb Nelson, MD, MPH  
*Boston Children's Hospital*  
Reliability and clinical validity of the consensus  
classification system for urinary tract dilation  
**\$164,378**

Mike Seed, MBBS  
*The Hospital for Sick Children*  
Maternal hyperoxygenation in congenital heart disease  
**\$248,613**

Eileen Birch, PhD  
*Retina Foundation of the Southwest*  
Improving visuomotor and visuocognitive outcomes in  
deprivation amblyopia with binocular treatment  
**\$287,014**

Robert Husson, MD  
*Boston Children's Hospital*  
Urine protein biomarkers for tuberculosis diagnosis in  
children  
**\$361,931**

Jason Lang, MD, MPH  
*Duke University*  
Genotype-tailored treatment of symptomatic acid-  
reflux in children with uncontrolled asthma  
**\$374,897**

Andreas Schibler, MD  
*The University of Queensland*  
High flow nasal cannula treatment for children with  
acute hypoxic respiratory failure  
**\$321,942**



## Early Career Award Program

Many bright young investigators around the world find it challenging to secure funding for their innovative ideas, yet this next generation of researchers is vital to finding solutions to children's health problems. To approach this issue, Thrasher Research Fund has awarded over 250 Early Career Awards since 2006. During 2015 and 2016, 73 new grants were given to individuals investigating some of the most important problems facing children.

Over the past two years, Early Career Award Program recipients have made substantial contributions to children's health, in addition to jump-starting their careers as independent researchers committed to reducing child morbidity and mortality.

They have received academic appointments, leveraged grants, made presentations at prestigious conferences such as Experimental Biology and Pediatric Academic Societies, and have published 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 confronting health problems and improving the lives of children.



*“Try to learn everything that you can. What you learn now might be just what you need to know sometime in the future.”*

–Al Thrasher



## Early Career Awards

### 2015

Shehu Abdullahi, MD, FWACP

*Vanderbilt University Medical Center*

Mentor: Michael DeBaun, MD, MPH

**Transcranial doppler flow velocity in iron deficient Nigerian children with Sickle Cell Disease**

Ashley Bjorklund, MD

*University of Minnesota*

Mentors: Marie Steiner, MD, MS;

Gwenyth Fischer MD; Tina Slusher MD

**Advancement of modified bubble CPAP for use in children in low resource settings: A study of safety**

Johanna Calderon, PhD, MS

*Boston Children's Hospital*

Mentors: David Bellinger, PhD;

Jane Newburger, MD, MPH

**Improving neurodevelopment in children with congenital heart disease: An intervention study**

Manu Chaudhary, MD

*Texas Children's Hospital*

Mentors: Morven Edwards, MD; Paula Revell, PhD

**Prevalence of maternal group B Streptococcal colonization in India**

Sarah Coors, BSN, DO, FAAP

*Texas Children's Hospital*

Mentor: Jeffrey Kaiser, MD, MA

**Dextrose gel for newborn hypoglycemia**

Jennifer Dan, MD, PHD

*La Jolla Institute for Allergy & Immunology*

Mentor: Shane Crotty, PhD

**Immunology of group A Streptococcus tonsillitis**

Michelle Eckerle, MD, MPH

*Cincinnati Children's Hospital Medical Center*

Mentors: Mark Steinhoff, MD; Kathleen Stringer, PharmD;

Lilliam Ambroggio, PhD, MPH

**Metabolite profiles in viral respiratory illness among Malawian children**

Shannon Farmakis, MD

*Saint Louis University*

Mentor: Jeffrey Teckman, MD

**Shear wave sonoelastography for the noninvasive evaluation of hepatic fibrosis in the pediatric population**

Justin Godown, MD

*Vanderbilt University Medical Center*

Mentors: Debra Dodd, MD;

Jonathan Soslow, MD, MSCI

**2D speckle tracking echocardiography for non-invasive surveillance of rejection and coronary disease in pediatric heart transplant recipients**

Amy Goss, PhD, RD

*University of Alabama at Birmingham*

Mentors: Barbara Gower, PhD; Ambika Ashraf, MD; Taraneh

Soleymani, MD

**A carbohydrate-restricted diet to reverse fatty liver in adolescents with obesity**

Emmi Helle, MD, PhD, MSc

*Stanford University*

Mentors: Euan Ashley, MRCP, DPhil; James Priest, MD

**Identifying candidate genes and molecular mechanisms behind bicuspid aortic valve and LVOTO defects**

John Hutton, MD, FAAP

*Cincinnati Children's Hospital Medical Center*

Mentors: Scott Holland, PhD;

Thomas DeWitt, MD, FAAP

**Neural effects of home reading environment, screen time, and video format in preschool children processing stories**

Serene Joseph, PhD

*World Health Organization*

Mentors: Antonio Montresor, MD, MSc;

Jüerg Utzinger, MSc, PhD

**A cross-cultural evaluation of the benefits of long-running deworming programs in children**

Krista Kelly, PhD

*Retina Foundation of the Southwest*

Mentor: Eileen Birch, PhD

**Binocular iPad treatment for amblyopia**

Mehmet Kurt, PhD

*Stanford University*

Mentors: David Camarillo, PhD; Gerald Grant, MD

**Reducing the risk of pediatric mTBI through airbag helmets**

Maureen Leonard, MD, MMSc

*Massachusetts General Hospital*

Mentors: Alessio Fasano, MD; W Allan Walker, MD

**Early environmental determinants predictive of autoimmunity in infants at risk of Celiac Disease**

Nilanjan Lodh, PhD, MSc

*Marquette University*

Mentors: Clive Shiff, PhD; Chummy Sikasunge, PhD;

James Mwansa, PhD

**Molecular diagnosis of multi Schistosome parasites from urine from school children in Zambia**

Nathaniel Meuser-Herr, MD

*Minneapolis Medical Research Foundation*

Mentors: Tina Slusher, MD; Robert Opoka, MBChB, MMED,

MPH; Stephen Dunlop, MD

**Sensitivity of lung ultrasound in Ugandan children with radiographic pneumonia**

Melissa Morgan, MD, MSc

*University of California, San Francisco*

Mentors: George Rutherford, MD; Elizabeth Allen, PhD, MA,

MSc; Joy Lawn, PhD, MPH, MBBS, FRCPCH

**The impact of kangaroo mother care on mortality in clinically unstable preterm infants in Uganda**

Benson Ogunjimi, MD

*University of Antwerp*

Mentors: Pierre Van Damme, MD, PhD;

Kris Laukens, PhD

**Gene expression analyses for the differentiation between viral and bacterial meningitis in children**

Keith Ooi, MBBS, Dip Paeds, PhD, FRACP

*University of New South Wales*

Mentor: Adam Jaffe, MD

**Probiotics in infants with cystic fibrosis: Effects of early intervention**

Yangming Ou, PhD

*Massachusetts General Hospital*

Mentors: P Ellen Grant, MD;

Randy Gollub, MD, PhD

**Quantitative MRI characterization of neonatal brain injury**

Elizabeth Radford, BA, MB BChir, PhD

*University of Cambridge*

Mentors: Matthias Zilbauer, MD, PhD, MRCPCH;

Anne Ferguson-Smith, PhD, FMedSci

**A personalized model of the gut epigenome and microbiome in pediatric inflammatory bowel disease**



Hema Ramkumar, MD

*University of California, San Diego*

Mentors: William Freeman, MD;

Eric Nudleman, MD, PhD

**Advanced noninvasive wide field retinal imaging technology for safer detection of pediatric retinal diseases**

Paulina Rebolledo, MD, MSc

*Emory University*

Mentors: Juan Leon, PhD, MPH;

Parminder Suchdev, MD, MPH; Volga Iniguez PhD

**The influence of infant nutritional status on rotavirus vaccine immunity in Bolivia**

Kathryn Ridout, MD, PhD

*Butler Hospital*

Mentor: Audrey Tyrka, MD, PhD

**Examining the mental and physical health sequelae of childhood maltreatment and psychiatric illness**

Johanna Riesel, MD

*Massachusetts General Hospital*

Mentors: John Meara, MD, DMD, MBA;

Martin Situma, FCS

**Surgical management of typhoid intestinal perforations at Mbarara Regional Referral Hospital; a pilot, prospective cohort study**

Balaji Srinivasan, PhD

*Cornell University*

Mentors: Saurabh Mehta, MD; David Erickson, PhD

**A smartphone-based biosensor for assessing iron status in children by detection of ferritin and sTfR**

Chris Stockmann, PhD, MSc

*University of Utah School of Medicine*

Mentor: Andrew Pavia, MD

**Clinical epidemiology and antimicrobial management of Pneumonia among critically-ill children**

Jakob Stokholm, MD, PhD

*COPSAC*

Mentors: Martin Blaser, MD;

**Hans Bisgaard MD**

**Development of the gut microbiome and the risk of asthma, eczema and allergy**

Animesh Tandon, MD, MS

*UT Southwestern Medical Center*

Mentors: Thomas Zellers, MD;

Jeffrey Anderson, MD, MPH, MBA; Yang Xie, MD, PhD

**Predictive analytics to prevent adverse events in interstage single ventricle heart disease**

Holger Unger, MBChB, MSc

*University of Melbourne*

Mentors: Sarah Stock, MRCOG, PhD;

Stephen Rogerson, FRACP, PhD

**Intermittent treatment in pregnancy with azithromycin – does it prevent preterm birth by ablating inflammation?**

Elizabeth Widen, PhD, RD

*Columbia University Medical Center*

Mentors: Andrew Rundle, DrPH; Pam Factor-Litvak, PhD

Virginia Rauh, ScD, MSW

**Pathways between maternal nutrition, toxicant exposure, home environment and child neurodevelopment**

Nicole Zane, PharmD, PhD

*The Children's Hospital of Philadelphia*

Mentor: Athena Zuppa, MD

**Age-dependent differences in intestinal metabolism impact pediatric bioavailability of Voriconazole**

Rens Zonneveld, MD

*University Medical Center Groningen*

Mentors: Grietje Molema, PhD;

Matijts Van Meurs, MD, PhD; Wilco Zijlmans MD, PhD

**Infection, sepsis and meningitis in Surinamese neonates: Novel diagnostic strategies**

## 2016

Kristina Adachi, MD

*University of California, Los Angeles*

Mentor: Karin Nielsen-Saines, MD, MPH

**Evaluation of infants with in-utero exposure to Zika virus in Brazil**

Jonah Attebery, MD

*Washington University in St. Louis*

Mentor: Mark Manary, MD

**Evaluation of a novel method for determining physiologic stability of severely malnourished children**

Elizabeth Bacon, PhD

*University of California, San Diego*

Mentor: Karen Pierce, PhD

**Identifying prognostic biomarkers in toddlers with Autism**

Nicolas Bamat, MD

*The Children's Hospital of Philadelphia*

Mentors: Hareesh Kirpalani, BM, MSc;

Howard Panitch, MD

**Impact of CPAP level on ventilation/perfusion mismatch and shunt in premature infants; a pilot randomized controlled trial**

Petter Bjornstad, MD

*University of Colorado Denver*

Mentors: Kristen Nadeau, MD; Arleta Rewers, MD;

Richard Johnson, MD

**Diabetic Kidney Alarm (DKA) Study – Tubulopathy in new onset diabetic ketoacidosis**

Miranda Broadney, MD, MPH

*National Institutes of Health*

Mentor: Jack Yanovski, MD, PhD

**Break It Up: A study evaluating breaking up daily sedentary behavior in youth**

Jean-Francois Daneault, PhD

*Spaulding Rehabilitation Hospital*

Mentor: Paolo Bonato, PhD

**Robotic-assisted therapy to improve manual dexterity in children with cerebral palsy**

Amanda Debes, PhD, MS

*Johns Hopkins Bloomberg School of Public Health*

Mentors: David Sack, MD;

A Louis Bourgeois, PhD, MPH

**An evaluation of low-cost specimen preservation for characterization of enteric disease in children**

Siyuan Ding, PhD

*Stanford University*

Mentors: Harry Greenberg, MD; Jan Carette, PhD

**Genetic interrogation of host factors essential to rotavirus infection**

Jennifer Dwyer, MD, PhD

*Yale University*

Mentor: Michael Bloch, MD, MS

**Efficacy of rapid-acting NMDA antagonist for treatment of adolescent depression**

Osayame Ekhaguere, MBBS, MPH

*The Children's Hospital of Philadelphia*

Mentors: Andrew Steenhoff, MBBCh, DCH, FCPaed, FAAP;

Elizabeth Lowenthal, MD, MSCE

**PRIMM Trial (Phone Reminder for IMMunization) in Ondo State, Nigeria**

Fausto Ferolla, MD

*University of Buenos Aires*

Mentor: Eduardo Lopez, MD

**Predictors of life-threatening illness in infants with Respiratory Syncytial Virus infection**

Natalia Gomez-Ospina, MD, PhD

*Stanford University*

Mentor: Matthew Porteus, MD, PhD

**Correction of Mucopolysaccharidosis type 1: Targeting safe harbor loci using genome editing**

Isabel Hurtado, MD

*Centro de Estudios en Infectología Pediátrica*

Mentors: Eduardo López-Medina, MD;

Pablo Sanchez, MD

**The impact of congenital zika infection on infants and young children**

Julian Koenig, DSc hum, MA

*Heidelberg University*

Mentor: Michael Kaess, MD

**Non-invasive vagus stimulation for resistant depression in youth – an experimental proof-of-concept**

Alison Kuchta, MD, PhD

*University of California, San Francisco*

Mentors: Bryan Greenhouse, MD, MA;

Philip Rosenthal, MD

**Genetic epidemiology of P. falciparum transmission for malaria elimination and drug resistance monitoring**

Ingrid Kvestad, PhD

*Uni Research AS*

Mentors: Tor Strand, MD, PhD; Mari Hysing, PhD, PsyD

**Earthquake exposure in utero and after birth and early child development and growth in disadvantaged Nepalese children**

Benjamin Lee, MD

*University of Vermont*

Mentor: Beth Kirkpatrick, MD

**The effects of increased inoculum on oral rotavirus vaccine take and immunogenicity in a low- income country**

Sarah Mulkey, MD, PhD

*Children's National Medical Center*

Mentors: Adre du Plessis, MBChB, MPH;

Roberta DeBiasi, MD, MS

**Neurologic outcome of apparently normal newborns from Zika virus positive pregnancies**

Robert Nickel, MD, MSc

*Children's National Medical Center*

Mentors: Jeanne Hendrickson, MD;

John Horan, MD, MPH; Naomi Luban, MD

**The significance of HLA antibodies in children undergoing transplant to cure Sickle Cell Disease**

Brietta Oaks, MPH, PhD

*University of California, Davis*

Mentor: Kathryn Dewey, PhD

**Impact of prenatal and childhood nutrition on telomere length and cortisol in preschool children**

Rawad Obeid, MD

*Children's National Medical Center*

Mentors: Anna Penn, MD, PhD; Dorothy Bulas, MD;

Taeun Chang, MD

**Defining a new parameter for post-hemorrhagic ventricular dilation in premature infants**

Majdi Osman, MD, MPH

*OpenBiome*

Mentor: Eric Alm, PhD

**Fecal microbiota transplantation for severe acute malnutrition: A pilot study**

Jonathan Parr, MD, MPH

*University of North Carolina*

Mentor: Steven Meshnick, MD, PhD

**Evolution and spread of pfhrp2-deleted Plasmodium falciparum in the Democratic Republic of the Congo**

Erin Peckham-Gregory, PhD, MPH

*Texas Children's Hospital*

Mentors: Carl Allen, MD, PhD; Michael Scheurer, PhD, MPH;

Philip Lupo, PhD, MPH

**Risk factors for development of somatic activating MAPK pathway mutations in pediatric cancers**

Karen Queliza, MD

*Baylor College of Medicine*

Mentor: Richard Kellermayer, MD, PhD

**Utility and cost-effectiveness of a combination screen for pediatric lower gastrointestinal disease**

Nandini Raghuraman, MD, MS

*Washington University in St. Louis*

Mentors: Alison Cahill, MD, MSCI; George Macones, MD,

MSCE; Methodius Tuuli, MD, MPH

**Oxygen for category II intrauterine fetal resuscitation: a randomized, noninferiority trial**

Bahaa Abu Raya, MD

*University of British Columbia*

Mentors: Tobias Kollmann, MD, PhD;

Manish Sadarangani, BM, BCh, MPRCPCH, DPhil;

Michelle Giles, MD, PhD

**The effect of timing of gestational Tdap administration on the avidity of pertussis antibodies**

Elizabeth Rogawski, PhD, MSPH

*University of Virginia*

Mentor: Rebecca Dillingham, MD, MPH

**Effectiveness of water treatment technologies to prevent child stunting in Limpopo, South Africa**

Christiana Smith, MD

*University of Colorado Denver*

Mentor: Adriana Weinberg, MD

**Does early cytomegalovirus infection contribute to immune defects in HIV-exposed, uninfected infants?**

Trudy Voortman, PhD

*Erasmus University Medical Center*

Mentor: Oscar Franco, PhD, MD

**Dietary protein in early childhood and the development of adiposity**

Anjuli Wagner, MPH, PhD

*University of Washington*

Mentors: Grace John-Stewart, MD, PhD;

Jennifer Slyker, PhD

**Diagnostic performance and acceptability of Saliva-Based HIV Testing (SBT) in children**

Amanda Wendt, PhD, MS

*Heidelberg University*

Mentor: Sabine Gabrysch, MD, MSc, PhD

**Etiology of Anemia among mother-child pairs in Sylhet, Bangladesh**

Carol Wilkinson, MD, PhD

*Boston Children's Hospital*

Mentors: Charles Nelson, PhD; Lisa Prock, MD, MPH;

Mark Bear, PhD

**Neural predictors of autism symptoms and language in Fragile X Syndrome**

Yin-Ting Yeh, PhD

*Pennsylvania State University*

Mentors: Mauricio Terrones, PhD; Wallace Greene, PhD

**A point-of-care device for respiratory infection diagnosis: Label-free viruses capture and detection**



## Statement of Financial Position - December 31, 2016 and 2015

	2016	2015
<b>Assets</b>		
Cash and Receivables	\$3,251,952	\$2,580,067
<b>Investments</b>	\$92,809,693	\$92,619,772
Total Assets	\$96,061,645	\$95,199,839
<b>Liabilities and Net Assets</b>		
Grants Payable	\$7,883,599	\$8,640,020
Other Payable	\$624,999	\$657,057
Total Liabilities	\$8,508,598	\$9,297,077
Net Assets	\$87,553,047	\$85,902,762
Total Liabilities and Net Assets	\$96,061,645	\$95,199,839

## Statement of Activities and Changes in Net Assets Ended December 31, 2016 and 2015

	2016	2015
<b>Revenues</b>		
Interest and Dividends from Investments	\$2,233,995	\$2,245,444
Miscellaneous Income	0	0
Net Realized and Unrealized Gain/(Loss) on Investments	\$3,585,656	-\$1,568,159.00
Contributed Services	\$1,036,000	\$1,010,000
Total	\$6,855,651	\$1,687,285
<b>Expenses</b>		
Research Grants	\$3,591,465	\$4,767,361
Contributed Services	\$1,036,000	\$1,010,000
General and Administrative	\$654,072	\$679,612
Total	\$5,281,537	\$6,456,973
Excess/(Deficiency) in Revenues Over Expenses	\$1,574,114	-\$4,769,688
Net Assets at Beginning of Year	\$85,902,762	\$90,790,593
Retirement/Medical Expense	\$76,171	-\$118,143
Net Assets at End of Year	\$87,553,047	\$85,902,762

## Thrasher Research Fund Advisory Committee

*Carl L. Bose, MD*  
(Co-Chair)

Professor, Department of Pediatrics  
Division of Neonatal-Perinatal  
University of North Carolina School of Medicine at Chapel Hill

*Yvonne W. Wu, MD, MPH*  
(Co-Chair)

Professor of Neurology & Pediatrics  
University of California, San Francisco

*Michael M. Cohen-Wolkowicz, MD, PhD*  
Associate Professor of Pediatrics  
Director Pharmacometrics Center  
Director, Duke Clinical Research Unit  
Duke Clinical Research Institute

*Kathryn G. Dewey, PhD*

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

*Kathryn M. Edwards, MD*

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

*Chandy C. John, MD, MS*

Ryan White Professor of Pediatrics  
Professor of Pediatrics, Microbiology & Immunology  
Director, Ryan White Center for Pediatric Infectious Diseases &  
Global Health Indiana University School of Medicine

*Heather T. Keenan, MD, PhD, MPH*

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

*Fernando P. Polack, MD*

Cesar Milstein Professor of Pediatrics  
Division of Infectious Diseases  
Vanderbilt University Medical Center  
Director, Fundacion, INFANT, Argentina



## Highlighted Projects

### Filtered Sunlight for Neonatal Jaundice

Neonatal jaundice has been effectively treated in the developed world using conventional phototherapy; however, it continues to be a significant health challenge for newborns in many developing countries with inadequate infrastructure. If left untreated it can lead to serious neurodevelopmental issues and even death.

Filtered sunlight is a novel, practical, and inexpensive method of phototherapy that potentially offers a safe and efficacious treatment strategy for the management of neonatal jaundice in countries with sufficient sunlight where conventional phototherapy treatment is not available. The results of this study demonstrate that filtered sunlight is no less efficacious than conventional phototherapy in the treatment of neonatal jaundice. This treatment offers a practical, affordable, safe, and often the only method to treat neonatal jaundice in low resource settings.



### Treating Preschool Children for Schistosomiasis

A study by Dr. Francisca Mutapi at the University of Edinburgh confirmed that pre-school children carry significant schistosome infections, and that most of these infections are missed by the current, widely-used egg count diagnostic method. Treatment not only effectively reduced infection levels, but also significantly reduced morbidity levels both within 12 weeks and 12 months of treatment for both preschool and primary children.

Preliminary results indicate that antihelminthic treatment also significantly reduced markers of inflammation and boosts immune responses associated with resistance to re-infection. Taken together the results indicate that a single antihelminthic treatment has significant health benefits for both preschool and primary school children, with very low re-infection rates being recorded within a year of treatment.

## Contact Information

### Thrasher Research Fund

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