MOBILIZING STANFORD DISCOVERIES & EXPERTISE TO LAUNCH HEALTHIER LIVES

The Child Health Research Institute (CHRI) accelerates Stanford discoveries to improve the health of pregnant women and children by fostering transdisciplinary research in the pre-clinical, clinical, and basic sciences.

STRATEGIC GOALS
- Trigger innovative research to make transformational discoveries.
- Marshall all disciplines at Stanford to improve the health of expectant mothers and children.
- Accelerate the translation of our discoveries into action.
- Expand the number of future leaders in maternal and child health.
- Play a leadership role locally and globally to promote maternal and child health.

OUR COMMUNITY

FY18 CHRI Membership by Department

N = 549 Members

FUNDING OVERVIEW

FY18 Total Awarded Funding by Department

N = $8,758,508


Other Depts: Dermatology, Electrical Engineering, Obstetrics & Gynecology, Orthopaedic Surgery, Pathology
HIGHLIGHTS OF 2017-2018

Awarded 111 new grants for maternal and child health research across the University, for a total of $8,758,508

Created an Education Committee, launching the popular CHRI SEMINAR SERIES providing collaboration and networking opportunities with ‘hot’ topics in maternal and child health. 

Sponsored Partnerships with Global Child Health Equity Seed Grant Program, Suicide Prevention Through Outreach Grant Program, the Stanford Byers Center for Biodesign Faculty Fellowship, and Stanford Diabetes Research Center Pilot and Feasibility Seed Grants.

Increased funding for the Postdoctoral Support Program to $2.4M ANNUALLY providing $150K in salary support over two years to each recipient.

Drew nearly 400 participants to the Childx conference, titled “The Junction of Science, Medicine, Public Policy, and Health Care Delivery” chaired by Drs. Heidi Feldman and David Cornfield.

Sponsored 7 early-career investigators to courses hosted by the Eureka Institute for Translational Medicine, a CHRI partner that builds, mentors, and trains an international cadre of leaders in translational medicine.

Boosted membership by more than 20% with expansion of membership to Clinician Educators and Instructors, totaling 540+ MEMBERS

16,640 HOURS of clinical research support were provided to Stanford Investigators on 124 research studies.

Formed the Clinical Research Informatics Working Group in partnership with Stanford Children’s Health, the first joint SoM hospital forum to tackle challenges in clinical research informatics.

Established 10 stable panels with 78 reviewers who review all CHRI-adjudicated programs; initiated an annual honorarium to scientific reviewers for their service.

Provided critical biostatistical support leading to submission of 17 NIH GRANTS through partnership with Quantitative Sciences Unit.

chri.stanford.edu | 3
GRANTS AND FUNDING AWARDS

**Faculty Scholars**
$100K/Year for 3 to 5 Years

Program Co-Chairs
- Harvey Cohen, MD - Professor, Pediatrics
- David K. Stevenson, MD - Professor, Pediatrics

**Kara Davis, MD**
Anne T. and Robert M. Bass Endowed Faculty Scholar in Pediatric Cancer and Blood Diseases (2018-2023)
Assistant Professor of Pediatrics (Hematology & Oncology)
Study Title: Relapse Prediction and Mechanism of Drug Resistance of Acute Lymphoblastic Leukemia

**Elizabeth Egan, MD, PhD**
The Tashia and John Morgridge Endowed Faculty Scholar in Pediatric Translational Medicine (2018-2023)
Assistant Professor of Pediatrics (Infectious Diseases)
Study Title: Investigating Novel Host Erythrocyte Determinants of Malaria Infection

**Irene Loe, MD**
Akiko Yamazaki and Jerry Yang Faculty Scholar in Pediatric Translational Medicine (2018-2023)
Assistant Professor of Pediatrics (Developmental Behavioral Pediatrics)
Study Title: Promoting Growth Mindset: A School-Based Intervention Targeting Health, Behavior, and Learning in Underserved Communities

**Anisha Patel, MD**
Arlene and Pete Harman Faculty Scholar (2018-2021)
Associate Professor of Pediatrics (General Pediatrics)
Study Title: Assessing the Cost of Water First: A School-Based Water Intervention to Prevent Childhood Obesity

**Avnesh Thakor, MD, PhD**
Akiko Yamazaki and Jerry Yang Faculty Scholar in Pediatric Translational Medicine (2018-2023)
Assistant Professor of Radiology (Pediatric Radiology)
Study Title: A Novel Approach for Treating Diabetes Using Pulsed Focused Ultrasound and Intra-Arterial Delivery of Mesenchymal Stem Cells, and their Associated Exosomes, Directly into the Pancreas

**Yang Sun, MD, PhD**
Laurie Kraus Lacob Faculty Scholar in Pediatric Translational Medicine (2018-2023)
Associate Professor of Ophthalmology
Study Title: Repurposing Drug to Treat Oculocerebral Renal Syndromes

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**Transdisciplinary Initiatives Program**
$100K/Year for 2 Years

**Study Title: Small Molecules to Inhibit CREB: CBP Interaction for Treatment of Childhood Acute Leukemia**
PI: Kathleen Sakamoto, MD, PhD, School of Medicine (Pediatrics)
Co-PIs: Soichi Wakatsuki, MD, PhD, SLAC National Accelerator Laboratory; Ron Dror, PhD, School of Engineering (Computer Science); Chaitan Khosla, PhD, School of Engineering (Chemical Engineering and Chemistry)

**Study Title: Low-Cost Volumetric Ultrasound Body Scanner for Pediatric Patients: Complete Abdominal 3D Imaging Without Radiation**
PI: Jeremy Dahl, PhD, School of Medicine, Radiology; Co-PIs: Boris Murmann, PhD, School of Engineering (Electrical Engineering); Sebastian Thrun, PhD, School of Engineering (Electrical Engineering); Biondo Biondi, PhD, School of Earth, Energy & Environmental Sciences (Geophysics); Co-Is: Safwan Halabi, MD, School of Medicine (Radiology); Carl Herickhoff, PhD, School of Medicine (Radiology)

**Study Title: Innovative Phenotyping and Theratyping of Newborns with Cystic Fibrosis**
PI: Carlos Milla, MD, School of Medicine (Pediatrics); Co-PIs: Jeffrey Wine, PhD, School of Humanities & Sciences (Psychology); Ron Kopito, PhD, School of Humanities & Sciences (Biology)

**Study Title: Development of a 3D Model for Human Placental Development to Improve Maternal and Child Health**
Co-PIs: Alexander Dunn, PhD, School of Engineering (Chemical Engineering); Katherine Bianco, MD, School of Medicine (Obstetrics & Gynecology); Co-Is: Roger Pedersen, PhD, School of Medicine (Obstetrics & Gynecology); Virginia Winn, MD, PhD, School of Medicine (Obstetrics & Gynecology); Ruth Lathi, MD, School of Medicine (Obstetrics & Gynecology); Vittorio Sebastiano, PhD, School of Medicine (Obstetrics & Gynecology)

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**Clinical (MD) Trainee**
100% Salary & Benefits Support for Up to 2 Years

Program Co-Chairs
- Daniel Bernstein, MD - Professor, Pediatrics
- Gerald Grant, MD, FACS - Professor, Neurosurgery

**Ananta Addala, DO, MPH**
Ernest and Amelia Gallo Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Endocrinology & Diabetes)
Study Title: The Gatekeeper Study: Assessing and Addressing Provider Implicit Bias and its Impact on diabetes Technology Usage

**Yair Bannett, MD**
Charles B. Woodruff Endowed Fellow
Clinical Fellow, Pediatrics (Developmental Behavioral Pediatrics)
Study Title: Management of Developmental and Behavioral Conditions in Primary Care: Objective Measures of Variation
Recipient of CHRI Support

Julia Chandler, MD, MS
Ernest and Amelia Gallo Endowed Postdoctoral Fellow
Clinical Fellow, Medicine (General Surgery)
Study Title: Improving Care for Pediatric Trauma patients: Screening and Secondary Prevention for Post-Traumatic Stress

Kevin Chi, MD
Elizabeth and Russell Siegelman Postdoctoral Fellow
Clinical Fellow, Pediatrics (Hospital Medicine)
Study Title: Parental Perspectives on Pulse Oximeter use in Bronchiolitis Hospitalizations: A Family-Centered Approach to Minimizing Overtreatment of Hypoxemia

Kathleen Collins, MD
Pete and Arline Harman Fellow
Clinical Fellow, Pediatrics (Allergy, Immunology & Rheumatology)
Study Title: Injection Fear in Juvenile Idiopathic Arthritis Patients Using Injectable Medications

Sarah Dubner, MD
Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Developmental Behavioral Pediatrics)
Study Title: Inflammation, White matter Microstructure, and Neurodevelopmental Outcomes in Preterm Infants

Maria de Lourdes Eguiguren Jimenez, MD
Pete and Arline Harman Fellow
Clinical Fellow, Pediatrics (Infectious Diseases)
Study Title: Epidemiology of Antifungal Utilization in Hospitalized Children with Cancer

Lakshmi Ganesan, MD, MAS
Stephen Bechtel Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Nephrology)
Study Title: Assessing the Adequacy of Peritoneal Dialysis in Children

Eric Hamberger, MD
Elizabeth and Russell Siegelman Postdoctoral Fellow
Clinical Fellow, Pediatrics (Pulmonary Medicine & Cystic Fibrosis)
Study Title: Lung Health Risk Behaviors and perceptions in Adolescents with Cystic Fibrosis

Anne McHugh, MD
Stephen Bechtel Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Allergy, Immunology & Rheumatology)
Study Title: Prevalence of Behavioral Problems in patients with Juvenile Spondyloarthritis

Kiran Mudambi, MD
Ernest and Amelia Gallo Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Gastroenterology)
Study Title: Contrast-Enhanced Ultrasound (CEUS) in Pediatric Crohn’s Disease: A Stratified Reliability Study Comparing CEUS to Magnetic Resonance Imaging (MRI) in Evaluating Small Bowel Disease

Rajdeep Pooni, MD
Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Allergy, Immunology & Rheumatology)
Study Title: Evaluating the Impact of an Interactive Secure Messaging Platform on Transition Readiness in Pediatric Rheumatology Patients

Katelyn M. Saarela, DO
Elizabeth and Russell Siegelman Postdoctoral Fellow
Clinical Fellow, Pediatrics (Gastroenterology)
Study Title: Characterizing CD8+ T-cell Mediated Liver Injury in Pediatric Indeterminate Acute Liver Failure

Rebecca Saenz, MD, PhD
Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Allergy, Immunology & Rheumatology)
Study Title: Role of ATM in Human Peripheral T-Cell Survival and Function

Christopher Severyn, MD, PhD, FAAP
Pete and Arline Harman Fellow
Clinical Fellow, Pediatrics (Hematology & Oncology)
Study Title: Influence of the Microbiome on Hematology/Oncology Patients in Order to Improve Outcomes

Melissa Shah, MD, MPH
Stephen Bechtel Endowed Postdoctoral Fellow
Clinical Fellow, Medicine (Infectious Diseases & Geographic Medicine)
Study Title: Malaria and Arbovirus Co-Infections in Kenyan Children

Danielle Shin, MD, PhD
Rosa A. Wann and Marjorie Shannon Fellow
Clinical Fellow, Pediatrics (Hematology & Oncology)
Study Title: SPOTT: Stanford pediatric Oncology Targeted Therapy Cohort

Vaka K. Sigurjonsdottir, MD
Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Nephrology)
Study Title: Are De Novo Complement-Activating Donor Specific Antibodies Highly Responsive to Therapy?

Stephanie Smith, MD, MPH
Rosa A. Wann and Marjorie Shannon Fellow
Clinical Fellow, Pediatrics (Hematology & Oncology)
Study Title: SPOTT: Stanford pediatric Oncology Targeted Therapy Cohort

That Nam Tran (Sony) Ton, MD
Marion and Jack Euphrat Pediatric Translational Medicine Fellow
Clinical Fellow, Pediatrics (Nephrology)
Study Title: Using a Novel Dynamic Assessment of Renal Function to Predict Acute Kidney Injury in Children

$3.3 MILLION
AWARDED TO 44 CLINICAL FELLOWS, POSTDOCS, AND MASTER’S STUDENTS
Postdoctoral Support
Up to $75K/Year for 2 Years

Program Panel Chairs
• Jeffrey A. Feinstein, MD, MPH - Professor, Pediatrics
• Julien Sage, PhD - Professor, Pediatrics
• Kathleen M. Sakamoto, MD, PhD - Professor, Pediatrics
• Hsi-Yang Wu, MD - Associate Professor, Urology

Brandon Cieniewicz, PhD
Postdoctoral Fellow, Pediatrics (Stem Cell Transplantation)
Study Title: Understanding Type 1 T Regulatory Cell (Tr1) Recognition and Killing of Acute Myeloid Leukemia

Ann Collier, PhD
Postdoctoral Fellow, Dermatology (Epithelia Biology)
Study Title: Mechanisms of Chromatin Remodeling During Epithelial Development

Taylor Kathryn Johnson, PhD
Postdoctoral Fellow, Chemical & Systems Biology
Study Title: Mechanistic Studies and Pharmacological inhibition of Oncogenic ARHGAP36 Activity

Amy Krystosik, MPH, PhD
Postdoctoral Fellow, Pediatrics (Infectious Disease)
Study Title: The use of Spatial Video Geonarratives to Describe Localized Environmental Risk Patterns for Arboviral Transmission in Urban Kenya

Stephanie Leonard, PhD
Postdoctoral Fellow, Pediatrics (Neonatal & Developmental Medicine)
Study Title: Understanding Severe Maternal Morbidity: Predictors and Trends

Jie Li, PhD
Postdoctoral Fellow, Neurosurgery
Study Title: Bridging the Gap in Fragile-X Syndrome Research: Experience-Dependent Alteration in Synaptic and Cognitive Function

Jeff Mao-Hwa Liu, PhD
Postdoctoral Fellow, Pediatrics (Stem Cell Transplantation)
Study Title: Comparing In Vivo Efficacy of Novel Subsets and Optimizing Production of Engineered Type-1 Regulatory Cells for Treatment of Graft-Versus-Host Disease

Berenece Mbiribindi, PhD
Postdoctoral Fellow, Surgery (Transplant)
Study Title: NK Cell Recognition of Peptides Encoded by EBV Latent Cycle Proteins

Karma McKelvey, MD, PhD
Postdoctoral Fellow, Pediatrics (Adolescent Medicine)
Study Title: Evaluation of Tobacco Prevention Toolkit 10 Session Curriculum

By increasing support for our Postdoctoral Support Program, we expand the breadth and depth of our commitment across both clinical and non-clinical departments here at Stanford. CHRI awardees and their mentors now have additional means to tackle challenging scientific questions and potentially translate their discoveries into action.

Anthony Oro, MD, PhD
CHRI Co-Director

New Idea Grants
$35K for 1 Year

Kanwaljeet S. Anand, MBBS, DPhil
Professor, Pediatrics (Critical Care Medicine) and Anesthesiology, Perioperative & Pain Medicine
Study Title: Biomarkers of Risk and Resilience in Preschool Children

Rosa Bacchetta, MD
Associate Professor, Pediatrics (Stem Cell Transplantation)
Study Title: Applying CyTOF to Dissect Autoimmunity in Pediatric Patients with Primary Immunodeficiencies

By increasing support for our Postdoctoral Support Program, we expand the breadth and depth of our commitment across both clinical and non-clinical departments here at Stanford. CHRI awardees and their mentors now have additional means to tackle challenging scientific questions and potentially translate their discoveries into action.

Daniel Bernstein, MD
Professor, Pediatrics (Cardiology)
Study Title: Identifying the Mechanisms of Stress-Induced Mitochondrial Hyperpolarization

Ian H. Gotlib, MD, PhD
Professor, Psychology
Study Title: Neural Foundations of Maternal Emotion Regulation: Examining a Risk Factor for Child Maltreatment

Kathleen Sakamoto, MD, PhD
Professor, Pediatrics (Hematology & Oncology)
Study Title: Molecular Characterization of RSK in Acute Myeloid Leukemia
## Recipients of CHRI Support

### Early Career Grants

$35K for 1 Year

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
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<tbody>
<tr>
<td>Virginia D. Winn, MD, PhD</td>
<td>Associate Professor, Obstetrics &amp; Gynecology (Reproductive, Stem Cell &amp; Perinatal Biology)</td>
</tr>
<tr>
<td>Bereketeab Haileselassie, MD, MHS</td>
<td>Instructor, Pediatrics (Critical Care)</td>
</tr>
<tr>
<td>Juliet Knowles, MD</td>
<td>Instructor, Neurology &amp; Neurological Sciences</td>
</tr>
<tr>
<td>Daniel Tawfik, MD, PhD</td>
<td>Instructor, Pediatrics (Critical Care)</td>
</tr>
<tr>
<td>Xinming Tong, PhD</td>
<td>Instructor, Orthopedic Surgery</td>
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### Clinician Educator

$35K for 1 Year

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<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
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<tbody>
<tr>
<td>Meera Sankar, MD</td>
<td>Clinical Associate Professor, Pediatrics (Neonatal &amp; Developmental Medicine)</td>
</tr>
<tr>
<td>Meera Sankar, MD</td>
<td>Clinical Associate Professor, Pediatrics (Neonatal &amp; Developmental Medicine)</td>
</tr>
<tr>
<td>Melissa Scala, MD</td>
<td>Clinical Assistant Professor, Pediatrics (Neonatal &amp; Developmental Medicine)</td>
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### Bridge Support

Up to $100K for 1 Year

$50K from CHRI, $50K Cost Share from Department

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
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<tbody>
<tr>
<td>Manisha Desai, PhD</td>
<td>Professor, Medicine (Center for Biomedical Informatics Research and Biomedical Data Science)</td>
</tr>
<tr>
<td>Desiree LaBeaud, MD</td>
<td>Associate Professor, Pediatrics (Infectious Diseases)</td>
</tr>
<tr>
<td>Julie Parsonnet, MD</td>
<td>Professor, Pediatrics (Infectious Diseases) and Health Research &amp; Policy (Epidemiology)</td>
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### Master’s Tuition

Full Tuition & Fees Coverage

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
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</thead>
<tbody>
<tr>
<td>Devika Bhushan, MD</td>
<td>Clinical Fellow, Pediatrics (General Pediatrics)</td>
</tr>
<tr>
<td>Rajdeep Pooni, MD</td>
<td>Clinical Fellow, Pediatrics (Rheumatology)</td>
</tr>
</tbody>
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16 PILOT GRANTS (CLINICAL EDUCATOR, EARLY CAREER, & NEW IDEA) RECEIVED A TOTAL OF $541,026
Eureka Institute for Translational Medicine

Coralee Del Valle Mojica, MD, MPH
Tashia and John Morgridge Endowed Postdoctoral Fellow; Pediatrics (Infectious Diseases)

Tashia and John Morgridge Endowed Postdoctoral Fellow; Pediatrics (Infectious Diseases)

Tamar Green, MD
Instructor, Psychiatry & Behavioral Sciences

Marko Jakovljevic, PhD
Postdoctoral Research Fellow, Radiology

Sara Kreimer, MD
Tashia and John Morgridge Endowed Postdoctoral Fellow; Clinical Assistant Professor, Pediatrics (Hematology & Oncology)

Anupama Narla, MD
Tashia and John Morgridge Faculty Scholar in Pediatric Translational Medicine; Assistant Professor, Pediatrics (Hematology & Oncology)

Manpreet Singh, MD
Akiko Yamazaki and Jerry Yang Faculty Scholar in Pediatric Translational Medicine; Assistant Professor, Psychiatry & Behavioral Sciences (Child & Adolescent Psychiatry)

Sriram Vaidyanathan, PhD
Postdoctoral Research Fellow, Pediatrics (Stem Cell Transplantation)

Recipients of CHRI Support

Global Child Health Equity Seed Grant

Jennifer Keller, PhD
Clinical Associate Professor, Psychiatry & Behavioral Sciences
Study Title: Linguistic and Cultural Adaptation of the Building Empowerment and Resilience Program for Adolescent Girls in Gujarat, India

Clea Sarnquist, DrPH, MPH
Senior Research Scholar and Lecturer, Pediatrics (Infectious Diseases)
Co-PI: Michael Baiocchi, PhD, Medicine (Stanford Prevention Research Center); Co-I: Helen W. Wilson, PhD, Psychiatry & Behavioral Sciences
Study Title: Mental Health Issues and Violence Among Adolescents in the Nairobi Slums: Can Empowerment Programs Prevent or Mitigate Both?

SPARK

Julie Baker, PhD
Professor, Genetics
Study Title: (YR 2) A Non-invasive Diagnostic for Placenta Accreta

Carolyn Bertozzi, PhD
Professor, Chemistry
Study Title: A PCR-Based Method for Sample-Sparing & Cost-Effective Diagnosis of Food Allergy Risk

Helen Blau, PhD
Professor, Microbiology & Immunology
Study Title: Transient Telomere Extension to Treat Liver Failure in Dyskeratosis Congenita Patients

Tina Cowan, PhD
Professor, Pathology
Study Title: A Small-Molecule Activator of AMPK for Treatment of Mitochondrial Disorders

Shirit Einav, MD
Associate Professor, Medicine (Infectious Diseases) and Microbiology & Immunology
Study Title: An Assay for Predicting the Development of Severe Dengue Prior to its Onset

Jeffrey S. Glenn, MD, PhD
Professor, Medicine (Gastroenterology & Hepatology) and Microbiology & Immunology
Study Title: Leveraging Enterovirus Dependency on the Human Host Factor PIP5k1a for the Development of a Potent Broad-Spectrum Antiviral

Stuart Goodman, MD, PhD
Professor, Orthopedic Surgery
Study Title: Engineered Mesenchymal Stem Cell Therapy to Promote Immunological Tolerance to Pancreatic Islets

Mark A. Kay, MD, PhD
Professor, Pediatrics (Human Gene Therapy) and Genetics
Study Title: Enhancement of Adeno-Associated Virus-Mediated Homologous Recombination (AAV-HR) Through Inhibition of the FANCM Pathway

Funded Partners Awards

Cardiovascular Institute

Christopher Gardner, PhD
Professor, Medicine (Stanford Prevention Research Center) Co-Is: Michael Snyder, PhD, Genetics; Francois Haddad, MD, Medicine (Cardiology)
Study Title: Addressing the obesity and diabetes epidemic through understanding personalized energy expenditure

Doff McElhinney, MD
Professor, Cardiothoracic Surgery (Pediatrics Cardiac Surgery) and Pediatrics (Cardiology)
Study Title: Psychosocial, Cognitive, and Quality of Life Outcomes in Children and Adults with Repaired Tetralogy of Fallot with Pulmonary Atresia and Major Aortopulmonary Collateral Arteries

James Priest, MD
Assistant Professor, Pediatrics (Cardiology)
Co-I: Mads Melbye, MD, DMSc, Medicine (Primary Care & Population Health)
Study Title: A Sensitized Genetic Association Study for Congenital Heart Disease

The Eureka course taught me to engage with the end game in science, which is a long-term vision rather than a vision for a specific research study or project. Engaging with this end-game has helped me realize the true potential and impact of the work we must do to meet the unmet needs of our patients.

Manpreet Singh, MD
2018 Eureka Participant
The CHRI partners with several Stanford centers and institutes, including the Global Child Health Equity Seed Grant Program, to sponsor projects that aim to improve the health of pregnant women and children locally and globally.

Matthew Porteus, MD, PhD
Associate Professor, Pediatrics (Stem Cell Transplantation)
Study Title: (YR 2) Genome Edited Airway Stem Cells as a Durable Cell-Based Therapy to Treat Cystic Fibrosis

Robert M. Waymouth, PhD
Professor, Chemistry
Study Title: CARTS: New Materials Enable a New Platform Technology for Gene Delivery, Vaccinations, and Cancer Immunotherapy

Stanford Byers Center for Biodesign Faculty Fellowship

Scott Hoffinger, MD
Clinical Professor, Orthopedic Surgery
Project concept: A way to diagnose compartment syndrome in the extremities before irreversible tissue damage occurs, with accuracy sufficient to prevent the need for prophylactic fasciotomy.

Wui Ip, MD
Clinical Instructor, Pediatrics
Project concept: A way to maintain peripheral vascular access in hospitalized patients to minimize its failure.

Doff McElhinney, MD
Professor, Cardiothoracic Surgery and Pediatrics (Cardiology)
Project concept: A way to mitigate the physiologic consequences of functional tricuspid regurgitation in patients with this condition to provide symptom improvement.

Priya Prahalad, MD, PhD
Clinical Assistant Professor, Pediatrics (Endocrinology & Diabetes)
Project concept: A way to deliver timely, accurate medical advice to patients/caregivers to decrease unnecessary ED and urgent care visits.

Thomas Robinson, MPH, MD
Professor, Pediatrics (General Pediatrics) and Medicine (Stanford Prevention Research Center)
Project concept: A way to make effective behavioral weight control more scalable and cost-effective for overweight children in order to reduce children's obesity-related morbidities.

Avnesh Thakor, MD, PhD
Assistant Professor, Radiology (Pediatrics Radiology)
Project concept: A way to self-screen for cervical cancer in women aged 21-65 in order to improve screening compliance according to national guidelines.

Stanford Diabetes Research Center Pilot and Feasibility Seed Grant

Eric A. Appel, PhD
Assistant Professor, Materials Science & Engineering
Co-Is: Bruce Buckingham, MD, Pediatrics; David Maahs, MD, PhD; Pediatrics
Study Title: Novel Ultra-fast Insulin Formulations for Diabetes Treatment

H. Tom Soh, PhD
Professor, Electrical Engineering and Radiology
PI: Amani Hariri, PhD, Electrical Engineering and Radiology; ChEM-H Institute; Collaborators: Jelena Vuckovic, PhD, Electrical Engineering; Seung Kim, MD, PhD, Developmental Biology
Study Title: Real-time Biosensor for Continuous in Vivo Detection of Glucose

Suicide Prevention Through Outreach Grant Program

Study Title: Understanding Silicon Valley Transitional-Aged Male Youth (USV-TAMY)
Pis: Aparna Atluru, MD, Psychiatry & Behavioral Sciences (Child & Adolescent Psychiatry & Child Development) and Shelly Tran, MD, Psychiatry & Behavioral Sciences (Child & Adolescent Psychiatry & Child Development)

Study Title: Sleep Disturbances as a Proposed Biomarker and Emergency Department (ED) Target: A Comprehensive Screening to Enhance Access to Care in the Prevention of Youth Suicide
PI: Rebecca A. Bernert, PhD, Assistant Professor, Psychiatry & Behavioral Sciences

Study Title: Smartphone Data Identification of Suicidality in Young Men with Bipolar Disorder
Pis: Anda Gershon, PhD, Instructor, Psychiatry & Behavioral Sciences (Child & Adolescent Psychiatry & Child Development); Shefali Miller, MD, Psychiatry & Behavioral Sciences; Katarzyna Wac, PhD

Study Title: Building Bridges to Adolescent Wellness by Promoting Healthy Media Portrayals
PI: Shashank V. Joshi, MD, Associate Professor, Psychiatry & Behavioral Sciences (Child & Adolescent Psychiatry & Child Development) and, by courtesy, of Pediatrics (Operations) and of Graduate School of Education

The CHRI supports various projects and initiatives aimed at improving health outcomes for children and pregnant women. These initiatives range from innovative research projects to outreach programs designed to enhance access to care and improve mental health in young people.
Many of the projects that have put Stanford at the forefront of pediatric research have been supported through CHRI funding that came directly from philanthropic gifts. […] We are deeply grateful for those early CHRI supporters who endorsed this vision and equally grateful for those who are supporting CHRI’s more recent efforts to bring better care to children and mothers.

Brian Perronne
COO and Senior Vice President for Development, LPFCH

Education Committee

Anthony Oro, MD, PhD - Chair
Michelle Monje-Deisseroth, MD, PhD
Thomas Robinson, MD, MPH
Kathleen Sakamoto, MD, PhD
Karl Sylvester, MD
Virginia Winn, MD, PhD
Fan Yang, PhD

Executive Committee Members

Anthony Oro, MD, PhD - Co-Director of CHRI, Professor of Dermatology
David K. Stevenson, MD - Co-Director of CHRI, Professor of Pediatrics (Neonatal & Developmental Medicine)
Mary M. Chen, MS, MBA - Administrative Director of CHRI, Assistant Dean of Maternal & Child Health Research
David Cornfield, MD

Transdisciplinary Initiatives (Proposal)

• Bridge (Fall)

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David K. Stevenson, MD - Co-Director of CHRI, Professor of Pediatrics (Neonatal & Developmental Medicine)
Mary M. Chen, MS, MBA - Administrative Director of CHRI, Assistant Dean of Maternal & Child Health Research
David Cornfield, MD

Professor of Pediatrics (Pulmonary Medicine) and, by courtesy, of Surgery

James Dunn, MD, PhD
Surgeon-in-Chief, Lucile Packard Children’s Hospital Stanford; Professor of Surgery (Pediatric Surgery) and, by courtesy, of Bioengineering

Michelle Monje-Deisseroth, MD, PhD
Associate Professor of Neurology & Neurological Sciences, and, by courtesy, of Neurosurgery, of Pediatrics (Operations), of Pathology, and of Psychiatry & Behavioral Sciences

Thomas Robinson, MD, MPH
Professor of Pediatrics (General Pediatrics), of Medicine, and, by courtesy, of Health Research & Policy

Kathleen Sakamoto, MD, PhD
Professor of Pediatrics (Hematology & Oncology)

Karl Sylvester, MD
Professor of Surgery (Pediatric Surgery)

Virginia Winn, MD, PhD
Associate Professor of Obstetrics & Gynecology (Reproductive Biology)

Fan Yang, PhD
Associate Professor of Orthopaedic Surgery and of Bioengineering

Natalia Gomez-Ospina, MD, PhD
Assistant Professor of Pediatrics (Medical Genetics)

Meena Kadapakkam, MD
Instructor in Pediatrics (Hematology & Oncology)

Melissa Mavers, MD, PhD
Instructor in Pediatrics (Stem Cell Transplantation)

Trung Pham, MD, PhD
Instructor in Pediatrics (Infectious Diseases)
For information about funding programs and deadlines, visit our website at chri.stanford.edu.