



STANFORD
MATERNAL & CHILD HEALTH
RESEARCH INSTITUTE



ANNUAL REPORT **FY 2022**

ADVANCING RESEARCH IN MATERNAL AND CHILD HEALTH

Advancing research to solve the greatest health challenges facing pregnant women and children

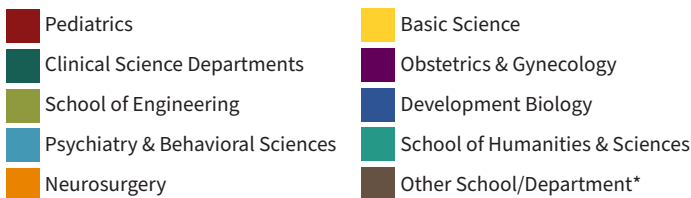
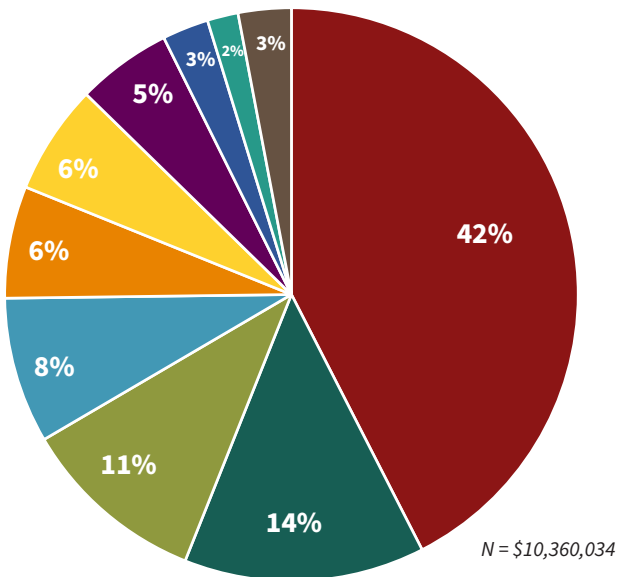
The Stanford Maternal and Child Health Research Institute (MCHRI) accelerates Stanford discoveries to improve the health of pregnant women and children by fostering transdisciplinary research in the pre-clinical, clinical, and basic sciences.

MCHRI's strategic goals are to:

- Focus Stanford's intellectual talent on solving the greatest health challenges facing expectant mothers and children.
- Increase the number of future academic leaders dedicated to these problems.
- Accelerate innovative research to make transformational discoveries.
- Enable the translation of our discoveries into action.
- Promote maternal and pediatric health and well-being, nationally and globally.

FUNDING OVERVIEW

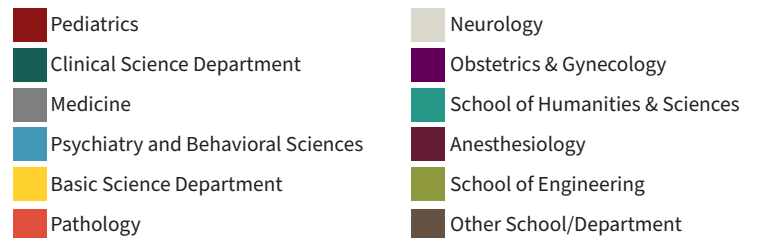
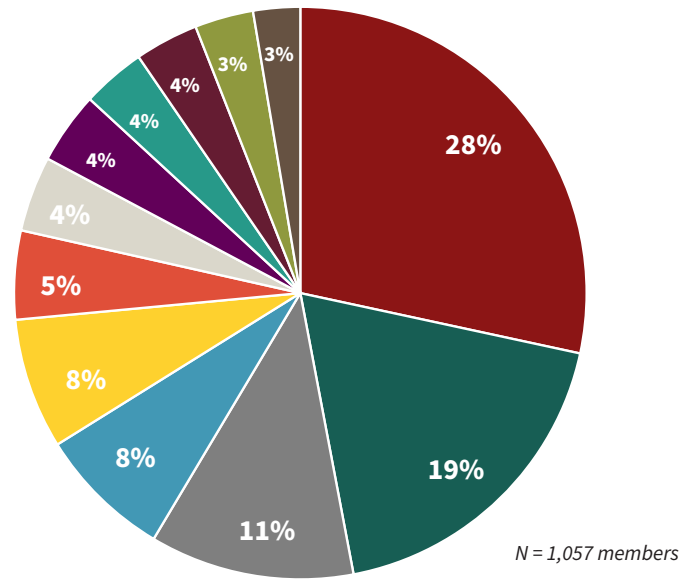
FY22 Total Funding Awarded by Department



* Other School/Department Includes: Anesthesiology, Perioperative & Pain Medicine, Biochemistry, Cardiovascular, Chemical & Systems Biology, Center for Innovation in Global Health, Dermatology, Epidemiology and Population Health, Gastroenterology and Hepatology, Genetics, Infectious Diseases, Microbiology and Immunology, Molecular and Cellular Physiology, Nephrology, Neurobiology, Neurology, Ophthalmology, Orthopaedic Surgery, Otolaryngology - Head & Neck Surgery, Pathology, Radiology, Urology, Undergraduate Students

OUR COMMUNITY

FY22 MCHRI Membership by Department/School



Other School/Department Includes: Doerr School of Sustainability, School of Law, Graduate School of Education, Cardiovascular Institute, Stanford Institute for Stem Cell Biology and Regenerative Medicine, Institute for Immunity, Transplantation, and Infection, Center for Biomedical Ethics, Center for Biomedical Informatics Research

HIGHLIGHTS OF 2021-2022

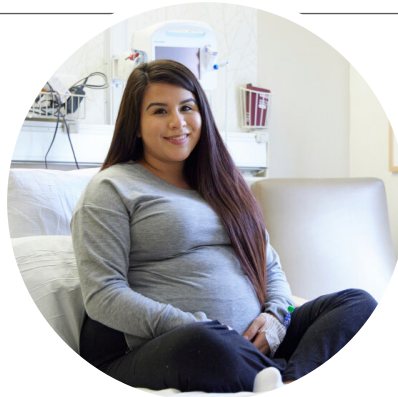
Awarded **164 grants** for maternal and child health research across the University, for a total of

\$10,360,034

Provided biostatistical support to **159 projects**,
leading to

19 NIH GRANT SUBMISSIONS

through **MCHRI-funded partner, Quantitative
Sciences Unit.**



MCHRI membership
increased by
13% for a total of:

1057 MEMBERS.

MCHRI nurtured DE&I efforts:

The **Clinical Research Support Office** received **207 new clinical and translational research study submissions** through its hospital-wide Clinical Research Intake Portal for Stanford Medicine Children's Health, representing **47 School of Medicine Departments and Divisions.**

Launched the **MCHRI Office of Community-Engaged Research.**

Hosted 23 underrepresented minority (URM) and/or first-generation low income (FLI) undergraduates students to participate in the **DRIVE (Diversity, Respect, and Inclusion are Vital for Excellence) in Research Pipeline Program.**

MCHRI
Clinical
Research
Coordinators
supported **over 70
studies** in FY22.



MCHRI led Stanford's joining of **PEDSnet** in 2021, a multi-site network across 11 institutions that utilizes a common data model to enable a Pediatric Learning Health System, and engaged in **5 national grants**, including taking a leadership role in an NIH funded grant studying long-haul COVID in adolescents.

Clinical Research Coordinator Services

MCHRI provides a formal infrastructure through the **Clinical Research Core** that enables, facilitates, and promotes the clinical and translational research efforts of children's services at Stanford by supporting a variety of research studies and trials.

MCHRI Clinical Research Core Services offer multiple models for Principal Investigators (PIs) to hire and onboard Clinical Research Coordinators (CRCs) to support their research.

PIs and Divisions can select one of MCHRI's hiring models:



Hourly Model: MCHRI CRCs support single or multiple PIs on an hour basis



Part-time Model: MCHRI CRCs support single or multiple PIs on a part-time basis



Full-time Model: MCHRI hires new CRC who is dedicated to PIs or Division



“MCHRI are experts in talent search for CRCs. It was a boon to have them provide our Division with support for hiring. I wish they had multiple clones of themselves, so we could hire more great CRCs.

*Sohail Husain, MD
Chambers-Okamura Endowed Professor of Pediatric Gastroenterology*

70+

Studies supported by MCHRI CRCs in FY22

CRCs support all sponsor type research, including:

- **NIH-funded**
- **Industry-funded**
- **Other Non-Federal-funded**, including: Internal Grants, Foundation, and PI-initiated studies

MCHRI Clinical Research Coordinator Services provides complimentary consultations to review the appropriate level of CRC support needed for any research project.

Consultation is available to all P Investigators who conduct Maternal or Child Health Research across the School of Medicine, including the following Departments:

- Pediatrics
- OB-Gyn
- Otolaryngology
- Psychiatry & Behavioral Sciences
- Neurology
- Anesthesiology
- Medicine
- Surgery

Clinical Research Operations Improvements

The **Clinical Research Support Office (CRSO)** partners with research and hospital teams to remove the hurdles to conduct research within the inpatient and outpatient hospital setting, reduce red tape, improve the efficiency of conducting clinical trials, and overcome administrative burdens.

Integration between Hospital and School of Medicine

- **Expanded Clinical Research Intake Portal** for Stanford Medicine Children's Health for additional departments and services, including:
 - Space planning
 - Community-engaged research
 - Expansion of pharmacy services
 - Tracking expanded access protocols
- Reduced turn-around time for Investigational Drug Services' Pharmacy to provide research fee estimate to **under 5 days**.

Expanded Training & Education for School of Medicine Staff

- Deployed Stanford Medicine Children's Health safety, infection prevention, emergency preparedness, and communication training to **235 clinical research staff**.
- **Held bi-weekly Clinical Research Coordinator/Clinical Research Manager Stanford Medicine Children's Health Clinical Research Operations meetings**. Focused on operational updates for School of Medicine study teams, interactive sessions, and guest speakers from different hospital departments.
- **Hosted workshops** for School of Medicine research staff on Stanford Medicine Children's Health operational and informatics resources.





MCHRI led Stanford's joining of **PEDSnet** in 2021, a multi-site network **across 11 institutions** that utilizes a common data model to enable a Pediatric Learning Health System that leverages a common governance structure, administrative efficiencies, and logistical, scientific and training resources.

PEDSnet at Stanford FY22 Highlights:

- Engaged in **5 national grants** across several sub-specialties, including a leadership role in an **NIH funded grant** studying long-haul COVID in kids.
- Submitted our first **investigator led grant** proposal through PEDSnet, and the first PEDSnet grant aimed at implementation.
- Became a **PCORnet site** in 2022, securing a youth to represent Stanford on the National Youth Advisory Council and one of our esteemed researchers on the PCORnet Maternal Morbidity and Mortality (MMM) national workgroup.

Enhancing Clinical and Translational Research Efficiency

- Enhanced clinical research functionality in the Electronic Medical Record (EMR) by enabling Epic research features.
- Provided remote access to Stanford Medicine Children's Health EMR (Epic) for **183 sponsor** monitor visits in FY22.
- Trained research teams in Electronic Research billing review and completed the migration of Research billing review from PDF to electronic in coordination with Patient Financial Services.
- Epic-REDCap API Integration to facilitate electronic data transfer from Epic to REDCap. Excellent option for easy maintenance of the registries and better support for translational research.
- Over 980 patients expressing interest in clinical trial participation in response to **research recruitment invitations through the Epic portal**, completed in coordination with Research Participation services.



Translational Medicine

The **Drug and Device Development (D³) Training Program** cultivates skills in the translational medicine field, and in the process, develops clinical researchers with expertise in the development of novel, therapeutics, medical devices, and diagnostics in pregnant women and children.

The program offers each trainee a multi-week 'internship' with an industry partners, engaging directly with at least one major project team, providing their science education and experience in medical product development.

D³ FY22 Trainees & Industry Partners



Christine Bui, MD
Industry Partner: Pfizer



Jesse Sanberg, MD
Industry Partner:
Revelation Biosciences



José Andrés Morales, MD
Industry Partner: GSK



Jennifer Ni, MD
Industry Partner: Dexcom



Lokesh Shah, MD, MS
Industry Partner: Bayer



Stanford Kids CAMP Study

The Stanford Kids Continuous Advanced Metabolic Profiling (CAMP) Study was developed to evaluate a **new community partnered model** for assessing the health of children and their associated risk of obesity, prediabetes, and related chronic diseases.

The successful pilot of a non-invasive health monitoring protocol in a community setting was designed to encourage participation from a variety of ages, races, ethnicities, and backgrounds. The pilot enrolled **30 participants, 43% URM**, ranging in ages 6-13 and was conducted at the Palo Alto Family YMCA.

MCHRI Office of Community-Engaged Research

The **MCHRI Office of Community-Engaged Research (OCEnR)** was established in 2022, with the mission to promote health equity for maternal and child health populations by supporting community-engaged research initiatives and advancing strong collaborative partnerships between community, academic, and policy entities.

OCEnR Services:

Research: Technical Assistance and training for researchers on community engaged research.

Resources: Tools for community-engaged research and funding.

Education: Contributing to a variety of seminars and informational sessions across the university. For example: MCHRI January 2022 Seminar: Community-Engaged Research: Reducing Disparities in Our Backyard.

10 Technical Assistant requests received and completed by OCEnR in March-August 2022



DRIVE (Diversity, Respect, and Inclusion are Vital for Excellence) in Research Pipeline Program expands to host student mentees on campus in second year

The MCHRI DRIVE (Diversity, Respect, and Inclusion are Vital for Excellence) in Research Pipeline Program provides summer research internships to **underrepresented minorities (URM) and first-generation and/or low income (FLI)** undergraduate students.

After a smaller virtual pilot in 2021, the program expanded in 2022 to host **23 Stanford students**, matched with faculty mentors to work on maternal and child health research projects on campus. Students participated in weekly Lunch & Learn lectures and training sessions, and presented their research at a Poster Symposium



Student Poster Symposium

To conclude the internship, DRIVE students showcased their work and accomplishments, with each student presenting their research poster and answering questions from faculty and peers, and sharing their reflections on the summer program.

Lunch and Learn Presenters:

- Fernando Mendoza, MD
- Thomas Collins, MD
- Florette K. Gray Hazard, MD
- Tulio Valdez, MD, MSc
- Yvonne Maldonado, MD
- Claudia Algaze, MD
- Henry Lee, MD, MS
- Bereketeab Haileselassie, MD
- Ha Tran, MD
- Anisha Patel, MD, MSPH, MSHS

Training Seminar Topics:

- Lane Medical Library Literature Search Toolkit
- Preparing a Scientific Poster
- Next steps in your research career

Education and Training

The 2021 4th Annual MCHRI Symposium continued virtually and showcased the latest innovations in maternal and child health



600+ Attendees



15 Speakers



90+ Posters

Online Poster Hall

Hosted on Fourwaves, the virtual Poster Hall was viewable for the full week of the Symposium, was searchable and filterable by topic and presenter, and featured video discussions from individual presenters.

Keynote Speaker

Kelle Moley, MD

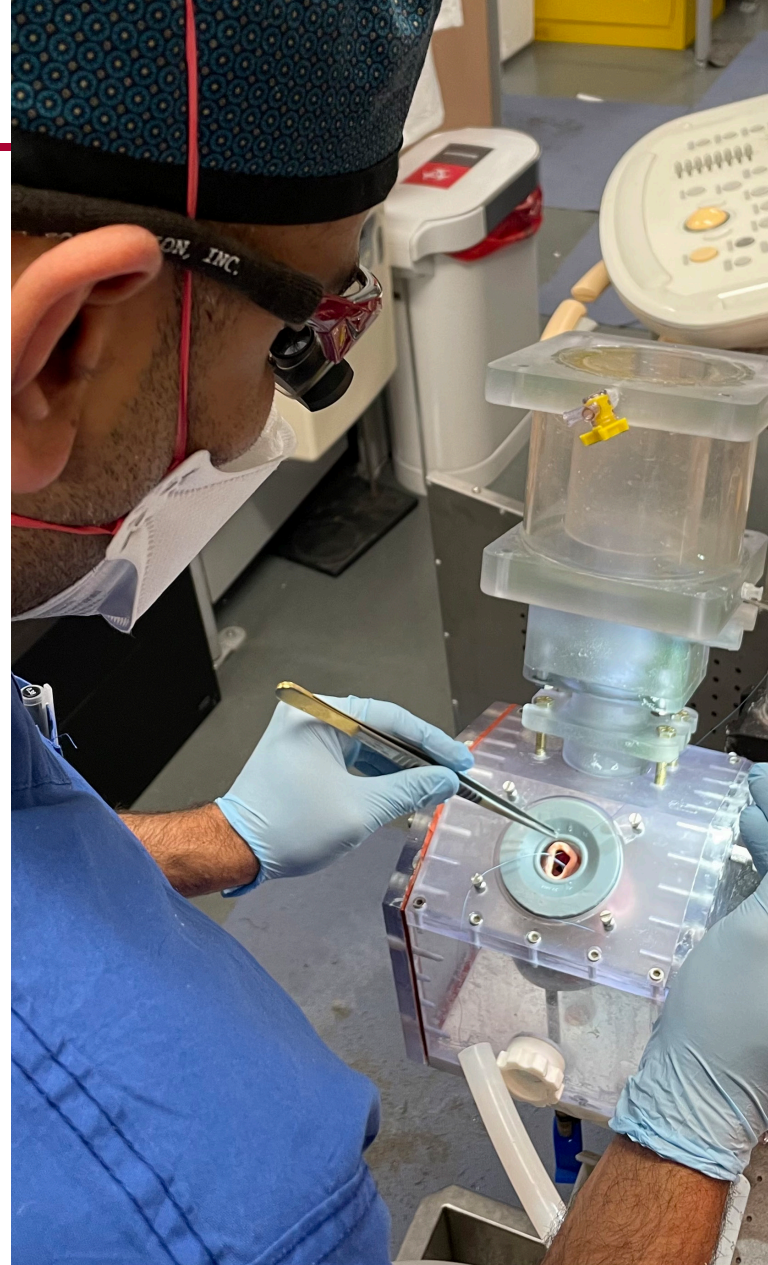
Deputy Director of Reproductive Health Technologies, Bill & Melinda Gates Foundation

Keynote Topic: Global Priorities in Reproductive Health Technologies

Visionary Leadership Award

Yvonne Maldonado, MD

Senior Associate Dean, Faculty Development and Diversity, Taube Professor of Global Health and Infectious Diseases, Professor of Pediatrics (Infectious Diseases) and of Epidemiology and Population Health



Maternal and Child Health Seminar Series

MCHRI hosted 10 virtual seminars, featuring speakers from across the university and highlighting groundbreaking research and developments.

Topics covered included:

- Community-Engaged Research: Reducing Disparities in Our Backyard
- AI in Medicine
- 22q11 Deletion Syndrome
- Pediatric IBD
- Translational Genomics
- Developmental Immunity

Specialty Programs

Uytengsu-Hamilton 22q11 Neuropsychiatry Research Program

The MCHRI Uytengsu-Hamilton 22q11 Neuropsychiatry Research Program aims to promote research to improve the neurocognitive outcomes and behavioral symptoms of 22q11.2 Deletion Syndrome (22q11.DS).

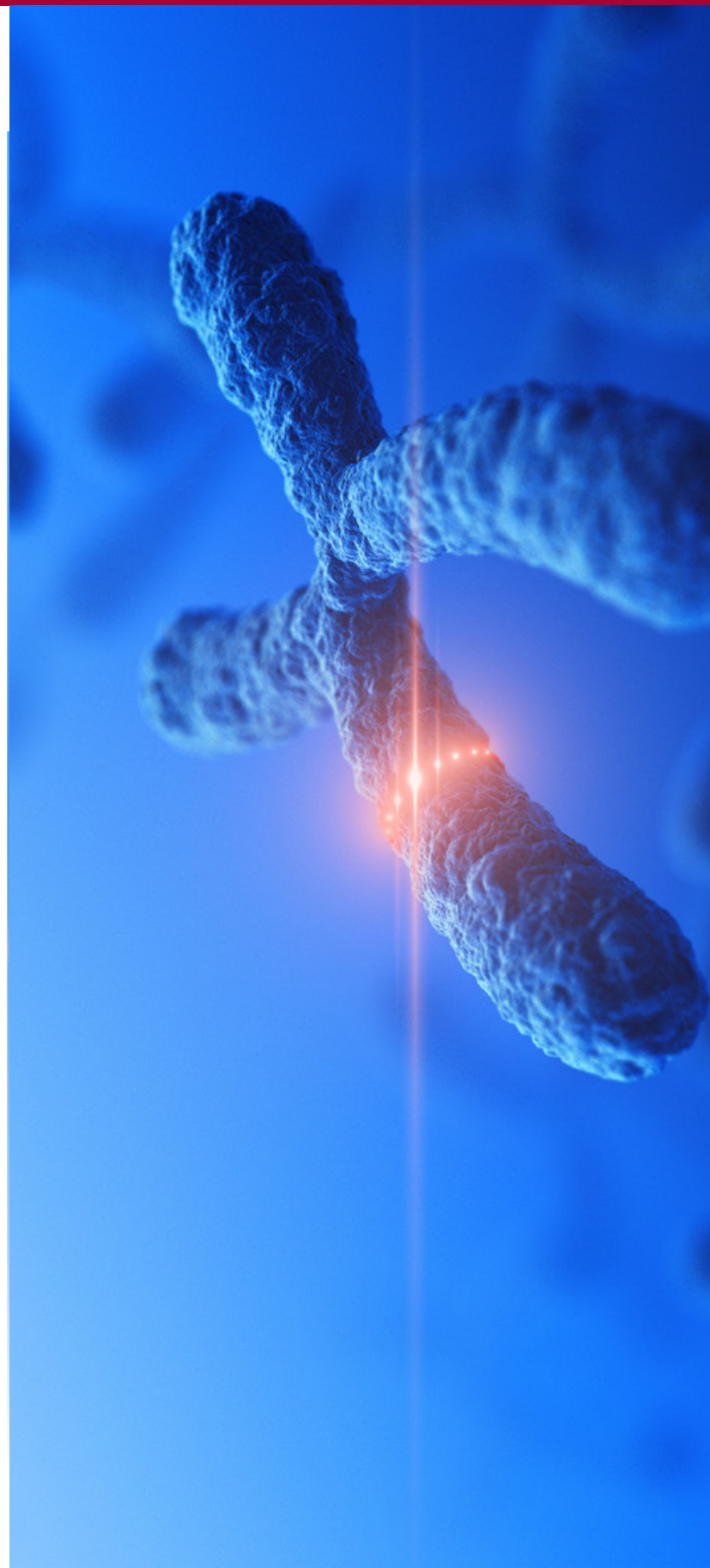
This fiscal year, Stanford's 3rd Biennial 22q11 Deletion Syndrome Virtual Symposium drew a spotlight on genetics, genomics and development, and the mechanisms underlying clinical variability in 22q11.2DS, featuring talks from Stanford faculty and international leaders in 22q11.2DS research.

Also in FY22, the program launched a focused seminar series to highlight emerging research in 22q11.2DS and facilitating knowledge exchange and discourse within the 22q11.2DS research community.

Stanford Pediatric Inflammatory Bowel Disease (IBD) and Celiac Disease Research Program

MCHRI originally helped launch the Stanford Center for Pediatric IBD and Celiac Disease Research Program and continues to assist in the grant's administration. The program supports innovative research and development of new treatments to improve the lives of all children with IBD and Celiac disease.

Recently, the program increased the eligible parties to include MD and PhD instructors, expanding the funding opportunity to more researchers.



Faculty Scholars

\$100K/year for up to five years

Program Co-Chairs

- Harvey Cohen, MD - Professor, Pediatrics
- David Stevenson, MD - Professor, Pediatrics

Tamar Green, MD, The Stephen Bechtel Endowed Faculty Scholar in Pediatric Translational Assistant Professor, Psychiatry and Behavioral Sciences (Interdisciplinary Brain Sciences)
Study Title: A Dyadic Modeling Approach to Improve Prognosis for Children at High Risk for Neuropsychiatric Disorders

Christin Kuo, MD, Tashia and John Morgridge Endowed Faculty Scholar in Pediatric Translational Medicine Assistant Professor Of Pediatrics (Pulmonary Medicine)
Study Title: Elucidating lung developmental pathways in the pathogenesis of pediatric respiratory diseases

Kelly Mahaney, MD, Tashia and John Morgridge Endowed Faculty Scholar in Pediatric Translational Medicine Assistant Professor Of Neurosurgery
Study Title: Role of iron-mediated injury in post-hemorrhagic hydrocephalus (PHH) following severe neonatal intraventricular hemorrhage (IVH)

Katherine Travis, PhD, The Lucile Packard Foundation for Children's Health Faculty Scholar Assistant Professor (Research) Of Pediatrics (Developmental-Behavioral Pediatrics)
Study Title: Towards improving brain health and neurodevelopmental outcomes in children born preterm: Leveraging clinical MRI and medical records data for research and for clinical care

Transdisciplinary Initiatives Program

\$100K/year for up to two years

Study Title: High-dimensional Immunofluorescence Atlas of Tissue Architecture and Microbiome in Pediatric Fibrostenosing Crohn's Disease

PI: Stephan Rogalla, MD, PhD, School of Medicine (Gastroenterology and Hepatology)
Co-PI: Olav Solgaard, PhD, School of Engineering (Electrical Engineering)

Study Title: Investigating the Potential of Quorum Sensing Molecules, Produced by Pseudomonas Aeruginosa, to Produce Sensory Hearing Loss in Chronic Suppurative Otitis Media

PI: Peter Santa Maria, MD, PhD, School of Medicine (Otolaryngology - Head and Neck Surgery)
Co-PI: Lynette Cegelski, PhD, School of Humanities and Sciences (Chemistry)

Study Title: Instant ELISA: Extremely Rapid Biomarker Detection at the Bedside

PI: Hyongsok Tom Soh, MS, PhD, School of Engineering (Electrical Engineering)
Co-PI: Timothy Cornell, MD, School of Medicine (Pediatric Critical Care Medicine)

Study Title: Novel Biopsy-Free Preimplantation Genetic Testing in Embryos

PI: Bo Yu, MD, MS, School of Medicine (Obstetrics & Gynecology)
Co-PI: Stanley Qi, PhD, School of Engineering (Bioengineering)

Study Title: Going from Manually-crafted to Digitally-designed Oral Devices: A Digital Workflow to Treat Neonates with Cleft Lip and/or Palate or Robin Sequence to Ameliorate Surgical Procedures

PI: HyeRan Choo, DDS, DMD, MS, School of Medicine (Plastic and Reconstructive Surgery)
Co-PI: Joseph Desimone, PhD, School of Engineering (Chemical Engineering)

Clinical (MD) Trainee

Up to 100% salary/benefits support for up to two years

Program Co-Chairs

- Daniel Bernstein, MD - Professor, Pediatrics
- Gerald Grant, MD, FACS - Professor, Neurosurgery

Elizabeth Barrington, MD

Elizabeth and Russell Siegelman Postdoctoral Fellow Clinical Fellow, Pediatrics (Developmental Behavioral)
Study Title: Evaluating pediatric resident curricula for diagnosing and managing Attention-Deficit/Hyperactivity Disorder (ADHD)

Kathryn Czepiel, MD

Ernest and Amelia Gallo Endowed Postdoctoral Fellow Clinical Fellow, Pediatrics (Gastroenterology, Hepatology and Nutrition)
Study Title: Investigating the Dysregulation of T-cell Responses in Primary Sclerosing Cholangitis

Theresa Dunham, MD

Stanford Maternal & Child Health Research Institute Fellow Clinical Fellow, Pediatrics (Allergy, Immunology and Rheumatology)
Study Title: Referral Patterns and Uptake of Penicillin Allergy Delabeling in Pregnancy

Catherine Frelinger, MD

The Marion and Jack Euphrat Pediatric Translational Medicine Fellow Clinical Fellow, Pediatrics (Developmental Behavioral)
Study Title: Primary Care Provider Use of Telehealth in the Diagnosis of Developmental Delay: The COVID-19 Era

Xavier Gaeta, MD, PhD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Adolescent Medicine)
Study Title: A Wnt Signaling Approach to Improving Kidney Tubule Regeneration and Recovery in a Mouse Model of Acute Kidney Injury

Karolina Grekov, MD, MA

Maggie Otto Fellow in Pediatrics Palliative Care
Clinical Fellow, Pediatrics (Critical Care Medicine)
Study Title: Conveying Suffering: Implications for Communication and Shared Decision-Making in Pediatric Critical Illness

Karen Jacobson, MD, MPH

The Stephen Bechtel Endowed Fellow in Pediatric Translational Medicine
Clinical Fellow, Medicine (Infectious Diseases)
Study Title: Interactions of SARS-CoV-2 and malaria in pregnancy and their impact on birth and infant outcomes in Uganda

Ryan Jamiolkowski, MD, PhD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Postdoctoral Fellow, Neurosurgery
Study Title: The Fasciola Cinereum in Pediatric Temporal Lobe Epilepsy

Christine Lai, MD

Stanford Maternal & Child Health Research Institute Fellow
Clinical Fellow, Pediatrics (Hematology)
Study Title: Regulation of Cancer Cell Surface Glycosylation by Oncogenes

Emily Larimer, MD

Stanford Maternal & Child Health Research Institute Fellow
Clinical Fellow, Pediatrics (Hematology)
Study Title: Improving Shared Situational Awareness in Pediatric Oncology to Reduce Medical Errors

Mindy Lee, MD, PhD

Elizabeth and Russell Siegelman Postdoctoral Fellow
Clinical Fellow, Pediatrics (Endocrinology and Diabetes)
Study Title: Automated Insulin Delivery and Asynchronous Remote Patient Monitoring for Management of Type 1 Diabetes

Danni Liang

Stanford Maternal & Child Health Research Institute Fellow
Clinical Fellow, Pediatrics (Hospital Medicine)
Study Title: Impact of the COVID-19 Pandemic on Urinary Tract Infection Diagnosis and Outcomes in Children

Hayley Miller, MD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Obstetrics and Gynecology (Maternal Fetal Medicine)
Study Title: Mifepristone as an Adjunct to Transcervical Balloon for Labor Induction (MiLI): A Randomized Clinical Trial

Brent Monseur, MD, ScM

Ernest and Amelia Gallo Endowed Postdoctoral Fellow
Clinical Fellow, Obstetrics and Gynecology (Reproductive Endocrinology and Infertility)
Study Title: Drivers of Assisted Reproductive Technology Use and Associated Reproductive and Mental Health Outcomes in Women by Sexual Orientation-Results from National Longitudinal Cohorts

Danielle Nahal, MD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Infectious Diseases)
Study Title: Pediatric Resident Competence in Infectious Diseases: A Mixed Methods Exploration of Didactic and Experiential Curricula

Preeti Panda, MD

Stanford Maternal & Child Health Research Institute Fellow
Clinical Fellow, Pediatrics (Emergency Medicine)
Study Title: Sociodemographic Characteristics and Health Disparities of Trafficked Children Presenting to Pediatric Emergency Departments

Rose Noelle Pineda, MD, MPH

Charles B. Woodruff Endowed Fellow
Clinical Fellow, Pediatrics (Adolescent Medicine)
Study Title: Digital Media Marketing of Alcohol, Marijuana, and Tobacco to Black, Indigenous, and Youth of Color: Implications for Prevention and Policy

Stephanie Squires, MD

Pete and Arline Harman Fellow
Clinical Fellow, Pediatrics (Hospital Medicine)
Study Title: Exploring Caregiver and Provider Perspectives on Transitions from Hospital to Home for Children with Medical Complexity and Limited English Proficiency

Paige Stevens, MD

Stanford Maternal & Child Health Research Institute Fellow
Clinical Fellow, Pediatrics (Critical Care Medicine)
Study Title: Design and Validation of Simulation-Based Educational Tools and a Novel Assessment of Spiritual Care Competency (ASCC) Tool for Teaching Spiritual Care Skills

Michael Strug, DO, PhD

Ernest and Amelia Gallo Endowed Postdoctoral Fellow
Clinical Fellow, Obstetrics and Gynecology (Reproductive Endocrinology and Infertility)
Study Title: Evaluation of Notch Signaling Expression in Endometriosis and Prediction of Pregnancy Outcomes During In Vitro Fertilization

Ryan Town, MD

Elizabeth and Russell Siegelman Postdoctoral Fellow
Clinical Fellow, Pediatrics (Nephrology)
Study Title: Hematocrit Correction to Improve Evaluation of Tacrolimus Exposure in Pediatric Kidney Transplant recipients

Recipients of MCHRI Support

Ngoc Nhu Tran, MD

Stanford Maternal & Child Health Research Institute Fellow
Clinical Fellow, Pediatrics (Allergy, Immunology and Rheumatology)
Study Title: Food Allergy Among Asian Americans and Pacific Islanders in the United States

Postdoctoral Support Up to \$80K/year for up to two years

Requires a commitment from the mentor of \$40K for year 2

Program Panel Chairs

- *Jeff Feinstein, MD, MPH - Dunlevie Family Professor, Pulmonary Vascular Disease*
- *Julien Sage, PhD - Professor, Pediatrics*
- *Kathleen Sakamoto, MD, PhD - Professor, Pediatrics*
- *Virginia Winn, MD, PhD - Associate Professor, Obstetrics & Gynecology*

Julia Abitbol, PhD

Postdoctoral Fellow, Otolaryngology - Head & Neck Surgery
Study Title: Enhancing Proliferative Regeneration in the Mammalian Cochlea

Simon Borna, PhD

Postdoctoral Fellow, Pediatrics (Stem Cell Transplantation and Regenerative Medicine)
Study Title: Identifying the Origin of Autoreactive T Cells in Early Onset Autoimmune Diseases

Daniela Rojo Capitanio, PhD

Postdoctoral Fellow, Psychiatry and Behavioral Sciences
Study Title: Crosstalk between Circadian and Myelin Biology in Brain Development and Disorders

Qingquan Chen, PhD

Postdoctoral Fellow, Medicine (Infectious Diseases and Geographic Medicine)
Study Title: Novel Mechanisms of Antibiotic Tolerance in Cystic Fibrosis Lung Infections"

Shashank Chetty, MTEch, PhD

Postdoctoral Fellow, Radiology
Study Title: Enhancing the Bioenergetic Potential of Adipose Tissue Derived Mesenchymal Stem Cells for Autologous Islet Transplantation Using Soundwaves

Davide De Francesco, PhD

Postdoctoral Fellow, Anesthesiology, Perioperative and Pain Medicine
Study Title: An Artificial Intelligence Driven Health Index for Neonatal Morbidities

Jen Haensel, MS, PhD

Postdoctoral Fellow, Ophthalmology
Study Title: Visual Cortical Functions and Their Associations in Children With and Without Amblyopia

Bradley Hamilton, PhD

Postdoctoral Fellow, Pediatrics (Stem Cell Transplantation and Regenerative Medicine)
Study Title: Establishing Definitive Pediatric Gene Therapies Through Novel Production Methods: Generating Aav Gene Vectors That Avoid Immune Detection

Angel Kongsomboonvech, MHS, PhD

Postdoctoral Fellow, Pediatrics (Infectious Diseases)
Study Title: Investigating the Function of Erythrocyte CD44 During Malaria Parasite Invasion

Jin Liu, PhD

Postdoctoral Fellow, Psychiatry and Behavioral Sciences
Study Title: Brain Plasticity and Predictors of Learning Induced By Cognitive Training in Children With Autism

Shiqin Liu, PhD

Postdoctoral Fellow, Radiology
Study Title: Identification of UCHL1 as a Novel Serum Biomarker and Therapeutic Target for Neuroblastoma

Mary Quinn, PhD

Postdoctoral Fellow, Pediatrics (Neonatal and Developmental Medicine)
Study Title: Inequities in Family Engagement in the Neonatal Intensive Care Unit

Aditi Swarup, PhD

Postdoctoral Fellow, Ophthalmology
Study Title: Characterizing Human Corneal Organoids for Transplantation in Pediatric Ocular Diseases

Qing Wang, PhD

Postdoctoral Fellow, Ophthalmology
Study Title: CRISPR-targeting of Inositol Signaling in Oculocerebrorenal Syndrome of Lowe

Shuai Wang, PhD

Postdoctoral Fellow, Molecular and Cellular Physiology
Study Title: The mechanism of Lphn3-Mediated Synapse Formation

Qiao Wenjie, PhD

Postdoctoral Fellow, Microbiology and Immunology
Study Title: A Host Signal Peptide Peptidase is Critical for Dengue Virus Infection

Duo Xu, MA, PhD

Postdoctoral Fellow, Biochemistry
Study Title: Generating Epitope-Focused, Universal Ebola Vaccine Candidates

**Pilot Grant Programs
\$35K for one year**

Program Co-Chairs

- Paul Grimm, MD - Professor, Pediatrics
- Gary Shaw, DrPH - Professor, Pediatrics

Iram Ahmad, MD, MME

Assistant Professor, Otolaryngology - Head and Neck Surgery
Study Title: Radiographic Changes in the Auditory Pathway of Children With Hearing Loss

Julia Kaltschmidt, PhD

Associate Professor, Neurosurgery
Study Title: Development and Injury of the Human Fetal Enteric Nervous System, In Vivo and In Vitro"

Ruth Lathi, MD

Professor, Obstetrics and Gynecology (Reproductive Endocrinology and Infertility)
Study Title: Determining Immune Predictors of Pre-eclampsia Optimizing the NatPro Study

David Lewis, MD

Professor, Pediatrics (Allergy, Immunology, Rheumatology)
Study Title: A CRISPR-Based Pan-Respiratory Virus Prophylactic Regimen Effective in Infants, Pregnant Women, and Other Immunologically Vulnerable Hosts

Alison Marsden, MSE, PhD

Douglass M. and Nola Leishman Professor of Cardiovascular Diseases
Study Title: Elucidating the Role of Structure and Morphometry on Mechanobiological Drivers of Pulmonary Arterial Hypertension

Scott Owen, PhD

Assistant Professor, Neurosurgery
Study Title: Investigating How Autism Risk Genes Alter Homeostatic Adaptation in Juvenile Human Neurons

Ken Sutha, MD, PhD

Instructor, Pediatrics (Nephrology)
Study Title: Immune Characterization of Patient-Derived Kidney Organoids

**Structural Racism, Social Injustice and Health Disparities Pilot Grants
\$35K for one year**

Program Co-Chairs

- Lisa Chamberlain, MD, MPH - Professor, Pediatrics
- Anisha Patel, MD, MSPH, MSHS - Associate Professor, Pediatrics

Suzan Carmichael, MS, PhD

Professor, Pediatrics (Neonatology)
Study Title: Severe Maternal Morbidity Among Black and Latinx Women: A Qualitative Study to Lay the Foundation for Improving Maternal Health Equity

Baraka Floyd, MD, MSc

Clinical Assistant Professor, Pediatrics (General Pediatrics)
Study Title: Presence 5 for Racial Justice: Anti-Racism Communication for Pediatric Care

Michelle Khan, MD, MPH, FACOG

Clinical Associate Professor, Obstetrics and Gynecology
Study Title: Disparities in Cervical Cancer Screening Among Patients Receiving Perinatal Care

Juno Obedin-Maliver, MD, MPH, MAS, FACOG

Assistant Professor, Obstetrics and Gynecology
Study Title: Sexual and/or Gender Minority Family Building: Understanding Barriers, Facilitators, Patterns, and Health Outcomes through a National, Community-Engaged Study

Laura Prolo, MD

Assistant Professor, Neurosurgery
Study Title: Language as a Driver of Healthcare Outcomes in Pediatric Neurosurgery

Dawn Siegel, MD

Clinical Professor, Dermatology
Study Title: Changing the Look of Dermatology Through a Skin Innovation Laboratory

Stephanie Smith, MD, MPH

Instructor, Pediatrics (Hematology and Oncology)
Study Title: Community-Based Participatory Research to Improve Health Equity for Childhood Cancer Survivors in the Salinas Valley

Recipients of MCHRI Support

Clinician Educator

\$35K for one year

Program Co-Chairs

- *Sayantani Sindher, MD - Clinical Associate Professor of Allergy and Immunology*
- *Deirdre Lyell, MD - Professor, Obstetrics & Gynecology*

Jessica Ansari, MD

Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

Study Title: Standardized Uterine Tone Assessments to Predict Hemorrhage During Cesarean Delivery: A Prospective Observational Study With Nested Comparative Pharmacologic Effectiveness Assessment

Cynthia Campen, MD

Clinical Associate Professor, Neurology and Neurological Sciences
Study Title: Neurobiological Basis of White Matter Organization in Children With Neurofibromatosis Type 1 With and without Low-Grade Glioma

Andrea Henkel, MD, MS

Clinical Assistant Professor, Obstetrics and Gynecology (General)
Study Title: Transcutaneous Electrical Nerve Stimulation (TENS) For Pain Control During First Trimester Abortion: A Blinded Randomized Controlled Trial

Audra Horomanski, MD

Clinical Assistant Professor, Medicine (Immunology and Rheumatology)
Study Title: Analysis of Twenty Years of Pregnancy Outcomes in Systemic Vasculitis in California

Lianna Marks, MD

Clinical Assistant Professor, Pediatrics (Hematology and Oncology)
Study Title: Outcomes in Pediatric Relapsed/Refractory Anaplastic Large Cell Lymphoma

Alison Marsden, MSE, PhD

Douglass M. and Nola Leishman Professor of Cardiovascular Diseases
Study Title: Elucidating the Role of Structure and Morphometry on Mechanobiological Drivers of Pulmonary Arterial Hypertension

Peter Meaney, MD, MPH

Clinical Professor, Pediatrics (Critical Care)
Study Title: Initial Feasibility and Refinement of Pediatric Acute Care Education (PACE): an Adaptive E-Learning Program for Tanzanian Providers to Increase Child Survival

Rishi Mediratta, MD, MSc, MA

Clinical Assistant Professor, Pediatrics
Study Title: Training Providers in Ethiopia on Helping Babies Breathe With a Combination of Online and Remote Simulation Instruction

Anoop Rao, MS

Clinical Assistant Professor, Pediatrics (Neonatal and Developmental Medicine)
Study Title: Continuous Monitoring of Patients With Hypoxic Ischemic Encephalopathy Using Waveform Variability Metrics

Kaustubh Supekar, PhD

Clinical Associate Professor, Psychiatry and Behavioral Sciences
Study Title: Early Brain-based Biomarkers of Autism

Scott Sutherland, MD

Clinical Professor, Pediatrics (Nephrology)
Study Title: Optimizing NINJA: Applied Analytics to Stratify the Injury Risk of Individual Nephrotoxins

Nichole Tyson, MD

Clinical Associate Professor, Obstetrics and Gynecology (General)
Study Title: Sexual and Reproductive Health in Adolescents With Chronic Disease, An Analysis of the Adolescent Parent Dyad

Evan Zucker, MD

Clinical Associate Professor, Radiology (Pediatric Radiology)
Study Title: 3D Printing to Improve Triaging of Univentricular vs. Biventricular Repair in Complex Congenital Heart Disease using 4D Cardiac MRI Datasets

Bridge Support

Up to \$100K/year for up to one year

50% support from both MCHRI & awardee's department

Katja Weinacht, MD, PhD

Assistant Professor, Pediatrics (Stem Cell Transplantation and Regenerative Medicine)
Study Title: Adenylate Kinase 2 Deficiency and the Failure of Myelopoiesis

Dawn Siegel, MD

Clinical Professor, Dermatology
Study Title: Functional Validation of Genomic Variants Contributing to Structural Brain and Heart Defects in PHACE syndrome

Instructor K Award Support
Up to \$50K/year for up to two years

50% support from both MCHRI & awardee's department

Shivani Gaiha PhD

Instructor, Pediatrics (Adolescent Medicine)
 Study Title: Countering E-cigarette Marketing in the Retail Environment among Adolescents and Young Adults

William Goodyer, MD, PhD

Instructor, Pediatrics (Cardiology)
 Study Title: Elucidation of the Development and Function of the Cardiac Conduction System

Lauren Harrison, PhD

Instructor, Anesthesiology, Perioperative and Pain Medicine
 Study Title: Agile Development of a Digital Exposure Treatment for Youth With Chronic Musculoskeletal Pain

David Paik, PhD

Instructor, Cardiovascular Institute
 Study Title: Identifying Novel Role of Angiocrine Signaling in Pathobiology of Left Ventricular Non-Compaction

Alison Vander Roest, PhD

Instructor, Pediatrics (Cardiology)
 Study Title: Modeling Myosin Mechanobiology Towards Understanding the Mechanisms of Hypertrophic Cardiomyopathy

Ina Stelzer, PhD

Instructor, Anesthesiology, Perioperative and Pain Medicine
 Study Title: Neuromodulation of maternal immune adaptations in pregnancy

Mark Wilkes, PhD

Instructor, Pediatrics (Hematology and Oncology)
 Study Title: Characterization of the Role of Nemo-like Kinase in Normal and Diamond Blackfan Anemia Models of Erythropoiesis

Master's Tuition Support
Up to \$32,500/year for up to two years

Kathryn Czepiel, MD

Fellow, Pediatrics (Gastroenterology)
 Master's Student in Epidemiology and Clinical Research

Anju Goyal, MD

Fellow, Pediatrics (Hematology and Oncology)
 Master's Student in Pediatric Hematology and Oncology

Seth Hoffman, MD

Fellow, Medicine (Infectious Diseases and Geographic Medicine)
 Master's Student in Epidemiology and Clinical Research

Iroque Igbinosa, MD

Fellow, Obstetrics and Gynecology
 Master's Student in Epidemiology and Clinical Research

Preeti Panda, MD

Fellow, Emergency Medicine
 Master's Student in Pediatric Emergency Medicine

DRIVE (Diversity, Respect, and Inclusion are Vital for Excellence) in Research Pipeline Awards
Undergraduate student stipend of up to \$9,000

Eyerusalem Alemu

Faculty Mentor: Clea Sarnquist, DrPH, MPH, Clinical Associate Professor of Pediatrics (Infectious Diseases)
 Project Title: HIV, Violence, and Mental Health Challenges: Triple threats to adolescent girls in Western Kenya

Pedro Ambriz

Faculty Mentor: Justin Annes, MD, PhD, Associate Professor of Medicine (Endocrinology)
 Project Title: Developing A Regenerative Therapeutic for Diabetes

Aiyana Austin

Faculty Mentor: Gary Darmstadt, MS, MD, Professor of Pediatrics (Neonatology)
 Project Title: Developing A Regenerative Therapeutic for Diabetes

Jessica Balbin

Faculty Mentor: Hayley Gans, MD, Clinical Professor of Pediatrics (Infectious Diseases)
 Project Title: Immune response to SARS-CoV-2 mRNA vaccine in immunocompromised pediatric patients

Emelin Cabrera

Faculty Mentor: Anisha Patel, MD, MSPH, MSHS, Associate Professor of Pediatrics (General Pediatrics)
 Project Title: Examining Communication and Marketing Strategies

Recipients of MCHRI Support

to Reduce Food Insecurity among Latino Children in California's San Joaquin Valley

Mario Gonzalez Ramirez

Faculty Mentor: Elizabeth Egan, MD, PhD, Assistant Professor of Pediatrics (Infectious Diseases)

Project Title: Host-pathogen interactions in malaria: Uncovering the function of an essential erythrocyte host factor

Tracy Ha

Faculty Mentor: Virginia Winn, MD, PhD, Associate Professor of Obstetrics and Gynecology

Project Title: Mutating Siglec-6 in Trophoblast to Understand its Role in Preeclampsia Pathogenesis

Clarissa Jaime Gonzalez

Faculty Mentor: Henry Lee, MD, MS, Professor of Pediatrics (Neonatology)

Project Title: Conversation Circles

Kelly Huang

Faculty Mentor: Sean Wu, MD, PhD, Associate Professor of Medicine (Cardiovascular Medicine)

Project Title: Understanding the mechanism of heart defect in single ventricle congenital heart diseases

Fatima Lopez

Faculty Mentor: Bonnie Halpern-Felsher, PhD, Professor of Pediatrics (Adolescent Medicine)

Project Title: Understanding and Preventing Adolescent and Young Adult Vaping

Jadess Lowrey

Faculty Mentor: Thomas Robinson, MD, MPH, Professor of Pediatrics and Medicine

Project Title: Wise Social Psychological Interventions to Improve Outcomes of Behavioral Weight Control in Children with Obesity

Geana Marte

Faculty Mentor: Anca Pasca, MD, Assistant Professor of Pediatrics (Neonatal and Developmental Medicine)

Project Title: Studying the effects of hypoxia on human brain development using organoids derived from stem cells

Shriti Parajuli

Faculty Mentor: Anoop Rao, MD, Clinical Assistant Professor of Pediatrics (Neonatal and Developmental Medicine)

Project Title: Physiological Waveform Variability in patients with and without hypoxic ischemic encephalopathy (HIE) – Preliminary pipeline for Heart Rate Variability data analysis

Amanda Rodriguez

Faculty Mentor: Thomas Robinson, MD, MPH, Professor of Pediatrics (General) and Medicine (Stanford Prevention Research Center)

Project Title: Discovering Adolescents' Smartphone Food Environments

Tania Rojas

Faculty Mentor: Tulio Valdez, MD, MSc, Associate Professor of Otolaryngology

Project Title: Diagnosis and treatment of pediatric infections with bacterial probes

Chanpichiny Ros

Faculty Mentor: Ruth Lathi, MD, Professor of Obstetrics and Gynecology

Project Title: NATPro Study: Improving Pregnancy Outcomes for Frozen Embryo Transfer

Belem Salgado

Faculty Mentor: Jiangbin Ye, PhD, Assistant Professor of Radiation Oncology

Project Title: Targeting the pediatric cancer epigenome with metabolic therapy

Diana Sanchez

Faculty Mentor: Dennis Wall, PhD, Professor of Pediatrics (Systems Medicine) and Biomedical Data Science

Project Title: AI for child health and education

Tuananh Tran

Faculty Mentor: Lee Sanders, MD, MPH, Associate Professor of Pediatrics (General Pediatrics)

Project Title: Effective Community-based Policies and Programs to advance Child Health Equity: Focus on Latino Youth

Sydney Vaughn

Faculty Mentor: Dennis Wall, Professor of Pediatrics (Systems Medicine) and Biomedical Data Science

Project Title: AI for child health and education

Jordan Vedelli

Faculty Mentor: Kanwaljeet (Sunny) Anand, MD, DPhil, Professor of Pediatrics (Pediatric Critical Care)

Project Title: Biomarkers for Risk and Resilience in Preschool Children

Olivia Viruet Quintero

Faculty Mentor: Virginia Winn, MD, PhD, Associate Professor of Obstetrics and Gynecology (Reproductive and Stem Cell Biology)

Project Title: The Effects of Aneuploidy on Human Trophoblast Stem-like Cell Differentiation

Audrey Xu

Faculty Mentor: Kara Meister, MD, FAAP, FACS, Clinical Assistant Professor of Otolaryngology

Project Title: Cell Free DNA Sequencing for the Diagnosis of Head & Neck Infections in Children

**Uytensu-Hamilton 22q11
Neuropsychiatry Research Awards
\$150K/year for two years**

Stanford Awards

Birgitt Schuele, MD

Associate Professor, Pathology
Study Title: Deciphering Early Neurodegenerative Mechanisms in 22q11.2 Deletion Syndrome

Alexander Urban, PhD

Associate Professor, Psychiatry and Behavioral Sciences
Study Title: Revealing the Molecular Activity of the 22q11 Segdup Regions, Potential Modifiers of Phenotype and Hubs of Connectivity

External Awards

Jorge Alvarez, PhD

Assistant Professor, Pathology and Veterinary Medicine
University of Pennsylvania
Study Title: Dysregulation Within the Brain-Immune Axis in the 22q11.2 Deletion Syndrome

Alessandro Gozzi, PhD

Senior Scientist, Functional Neuroimaging
Italian Institute of Technology
Study Title: Unravelling Developmental Connectopathy in 22q11.2 Deletion Syndrome

Ralda Nehme, PhD

Group Leader, Stanley Center for Psychiatric Genetics, Broad Institute
Study Title: Defining Human Neuronal Phenotypes Linked to 22q11.2 Deletion

Kathleen Sullivan, MD PhD

Professor of Pediatrics
Children's Hospital of Philadelphia
Study Title: Immune dysfunction in 22q11.2 Deletion Syndrome Associated with Schizophrenia Spectrum Disorders

**Stanford Pediatric IBD and Celiac Disease
Research Awards - Seed Grant
\$100K/year for two years**

John Mark Gubatan, MD

Instructor, Medicine (Gastroenterology and Hepatology)
Study Title: Decoding the Adaptive Immune Repertoire With Machine Learning to Predict Biologic Therapy Outcomes in Patients With Pediatric Inflammatory Bowel Disease

David Relma, MD

Thomas C. and Joan M. Merigan Professor and Professor of Microbiology and Immunology
Study Title: Characterizing the Role of the Peri-Appendiceal Mucosa in Children With Ulcerative Colitis

Maria Grazia Roncarolo, MD

George D. Smith Professor Stem Cell Cell and Regenerative Medicine and Professor of Medicine (Blood and Marrow Transplantation and Cellular Therapy)
Study Title: Establishing an IBD Humanized Mouse Model for the Evaluation of Engineered Treg and Tr1 Cell Products

Hyongsok Tom Soh, MD, PhD

Professor, Radiology (Early Detection)
Study Title: Molecular Tracking Pill Technology for P-IBD

**Stanford Pediatric IBD and Celiac Disease
Research Awards - Postdoctoral and Early
Career Support
\$80K/year for two years**

Babajide Ojo, MS, PhD

Postdoctoral Research Fellow, Pediatrics (Gastroenterology, Hepatology, and Nutrition)
Study Title: Deciphering the Impact of Sulfite Exposure and MOCS1 Defects on Epithelial Homeostasis in Pediatric Ulcerative Colitis

Li Ying, PhD

Postdoctoral Research Fellow, Pediatrics (Human Gene Therapy)
Study Title: Targeting Gluten Antigen Presenting Cells in Pediatric Celiac Patients by Novel TRACeR Binders and Optimized TCR-like Antibodies

Zheng Zhong, PhD

Postdoctoral Research Fellow, Radiology
Study Title: Faster and Safer Diagnosis of Pediatric Inflammatory Bowel Disease (IBD) With a Novel MRI Technique

Park Seung-Min, PhD

Postdoctoral Research Fellow, Urology
Study Title: Continuous Health Monitoring of IBD Patients Using an Integrated Bowel-Symptoms Diagnostic (IBD) Toilet

William Rees, PhD

Postdoctoral Research Fellow, Pediatrics (Hematology and Oncology)
Study Title: Developing an Immune-Epithelial Organoid Lymphatic System to Study Novel Mechanisms Involved in Pediatric IBD

Qinghui Mu, PhD

Postdoctoral Research Fellow, Medicine (Hematology)
Study Title: Organoid Modeling of Immune-epithelial Interaction in Pediatric Inflammatory Bowel Disease

FUNDED PARTNERS AWARDS

Global Child Health Program Awarded a total amount of \$50,000

Study Title: Impact of Economic Sanctions on Maternal and Child Health

PIs: Paul Wise, MD, MPH, Richard Behrman, MD Professor of Child Health and Society
Ruth Gibson, MS, PhD, Postdoctoral Scholar, Medicine

Study Title: Intermittent preventive treatment for malaria in pregnancy: a potential child growth intervention?

PI: Jade Benjamin-Chung, PhD MPH, Assistant Professor of Epidemiology and Population Health

SPARK

Awarded a total amount of \$250,000

Alma Martina Cepika, MD, PhD

Instructor, Pediatrics (Stem Cell Transplantation)
Study Title: 2nd Generation Engineered Tr1 Cell Therapy

Priscila Ferreira Slepicka, PhD

Instructor, Pediatrics (Stem Cell Transplantation)
Study Title: Genetic Engineering of Gamma Delta ($\gamma\delta$) T Cells With the IL-2 Cytokine Receptor Orthogonal Pair (OIL-2R/OIL-2) as Immunotherapy for Acute Myeloid Leukemia

Bereketeab Haileselassie, MD

Assistant Professor, Pediatrics (Critical Care)
Study Title: Inhibitor of Immune Dysregulation In Pediatric Sepsis

Benjamin Kraemer

Ph.D. Student In Chemical and Systems Biology
Study Title: ALDH4A1 Activators to Treat Pediatric Hyperprolinemia Type II

Thomas Larocca, MD

Clinical Assistant Professor, Pediatrics (Critical Care)
Study Title: An Anti-sense Oligonucleotide (ASO) Therapeutic Targeting a RhoBTB2 Disease Causative Variant in a Pediatric Patient With Refractory Epilepsy

Elizabeth Mellins, MD

Professor, Pediatrics (Human Gene Therapy)
Study Title: Development of Actionable Biomarkers in Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS)

Daria Mochly-Rosen, PhD

George D. Smith Professor of Translational Medicine
Study Title: ALDH4A1 Activators to Treat Pediatric Hyperprolinemia Type II

Claudia Petritsch, PhD

Associate Professor, Neurosurgery
Study Title: MicroMESH-based Therapeutic Approach for Children With Brain Cancer

Stanford Cardiovascular Institute Awarded a total amount of \$20,000

Joshua Spin, MD, PhD

Clinical Assistant Professor, Medicine (Cardiovascular Medicine)
Study Title: Maternal Vaping and Transgenerational Risk of Abdominal Aortic Aneurysm

Virginia Winn, MD, PhD

Associate Professor, Obstetrics and Gynecology (Reproductive and Stem Cell Biology)
Study Title: Determining Early Maternal Immune Predictors of Preeclampsia

Undiagnosed Diseases Network Awarded a total amount of \$49,000

Vivek Bhalla, MD

Associate Professor, Medicine (Nephrology)
Study Title: Genome Study of Overlap Syndrome to Elucidate Causes of Two Rare Diseases of Adolescence

Stuart Scott, PhD, FACMG

Professor, Pathology
Study Title: Long-Read Genome Sequencing to Increase Diagnostic Yield in Pediatric Genetic Diseases

Holly Tabor, PhD

Associate Professor, Medicine
Study Title: Putting Precision Medicine in Conversation With Disability: A Pilot Study of Parental Conceptions of Disability Experience and Identity for Parents of Pediatric Patients in the Stanford UDN

MCHRI LEADERSHIP

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Senior Associate Dean of Research and Professor of Psychiatry and Behavioral Sciences, Stanford School of Medicine

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Executive Director, MCHRI; Assistant Dean for Maternal & Child Health Research, Stanford School of Medicine

Anisha Patel, MD, MSPH, MSHS

Director of Community-Engaged Research, MCHRI; Associate Professor of Pediatrics (General Pediatrics), Stanford School of Medicine

Karl Sylvester, MD

Director of Clinical Research Support Office, MCHRI; Associate Dean for Maternal & Child Health Research and Professor of Surgery (Pediatric Surgery), Stanford School of Medicine

Grant Wells, MS

Director of Innovation and Development, MCHRI

FY22 Members

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Professor of Psychology, School of Humanities and Sciences, Stanford School of Medicine

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Associate Professor of Obstetrics & Gynecology (Reproductive Biology); Stanford School of Medicine

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Co-Director, MCHRI

Chair, MCHRI Education Committee

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Assistant Professor of Pediatrics (Medical Genetics)

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Clinical Assistant Professor, Otolaryngology (Head & Neck Surgery Divisions)

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Clinical Associate Professor, Pediatrics - General Pediatrics

Trung Pham, MD, PhD

Instructor in Pediatrics (Infectious Diseases)

Bo Yu, MD, MS

Assistant Professor of Obstetrics and Gynecology (Reproductive Endocrinology and Infertility)

Clinical Research Support Office Executive Advisory Committee

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Director of Nursing Research and Evidence-Based Practice, Stanford Medicine Children's Health; Clinical Associate Professor of Pediatrics, Stanford School of Medicine

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Chief Medical Information Officer, Stanford Medicine Children's Health; Clinical Professor of Pediatrics and Clinical Associate Professor of Medicine, Stanford School of Medicine

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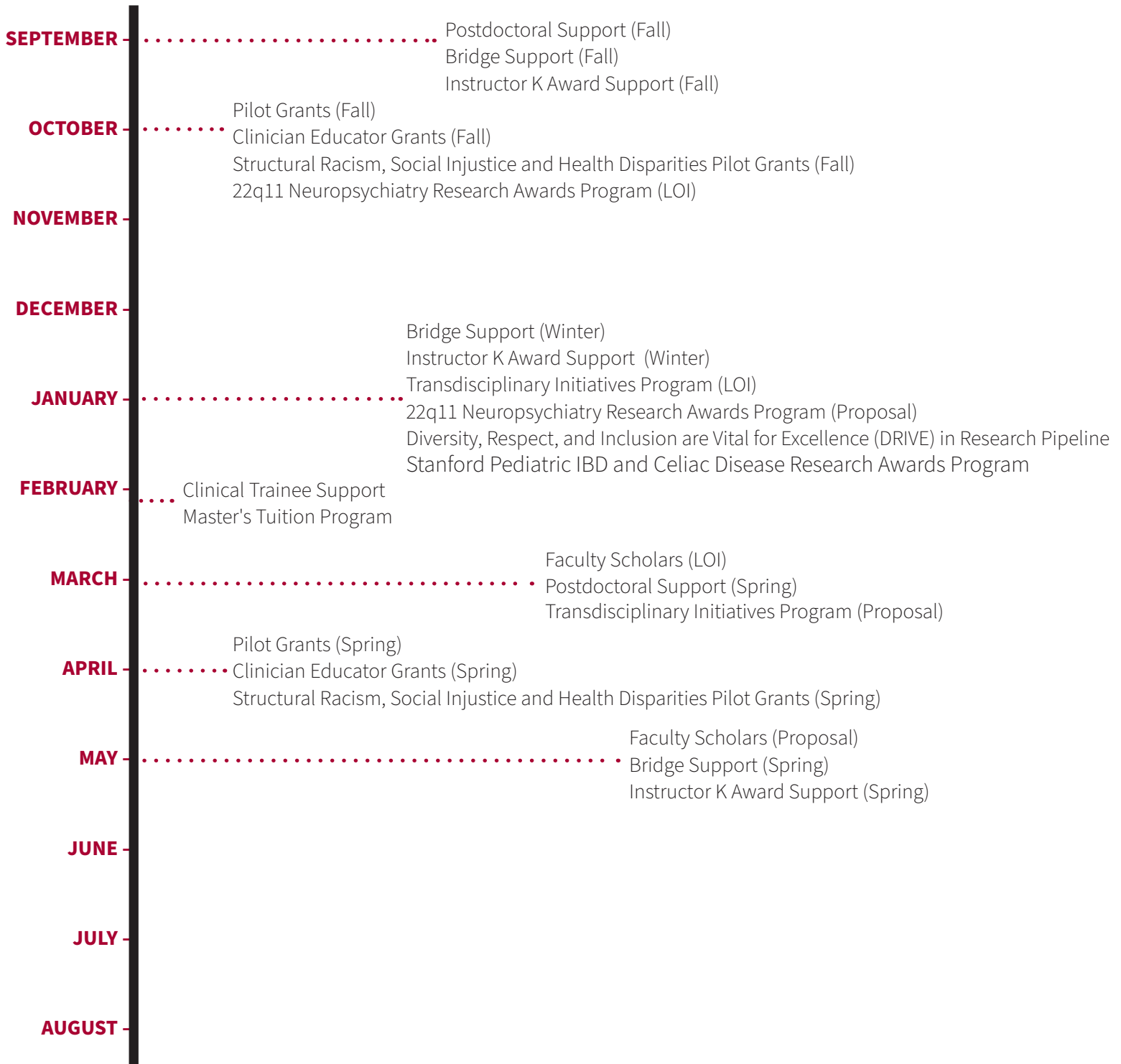
Karl Sylvester, MD

Director of Clinical Research Support Office, MCHRI, Associate Dean for Maternal & Child Health Research and Professor of Surgery (Pediatric Surgery), Stanford School of Medicine

Chantal Volel-Torres

Chief Executive Officer (CEO) of Packard Children's Health Alliance (PCHA); Chief Administrative Officer and Senior Vice President of Ambulatory Operations

Grants & Programs Timeline



For information about funding programs and deadlines, visit our website at mchri.stanford.edu.



**STANFORD
MATERNAL & CHILD HEALTH
RESEARCH INSTITUTE**

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Annual Report FY 2022

MCHRI ADMINISTRATION

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ACKNOWLEDGEMENTS

Thank you to all of our MCHRI donors, members, leadership, staff, awardees, reviewers, collaborators, and partners for their support.

Special thanks to our strategic partners, the Lucile Packard Children's Hospital Stanford/Stanford Medicine Children's Health, Lucile Packard Foundation for Children's Health, Stanford Health Care, and Stanford School of Medicine.

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