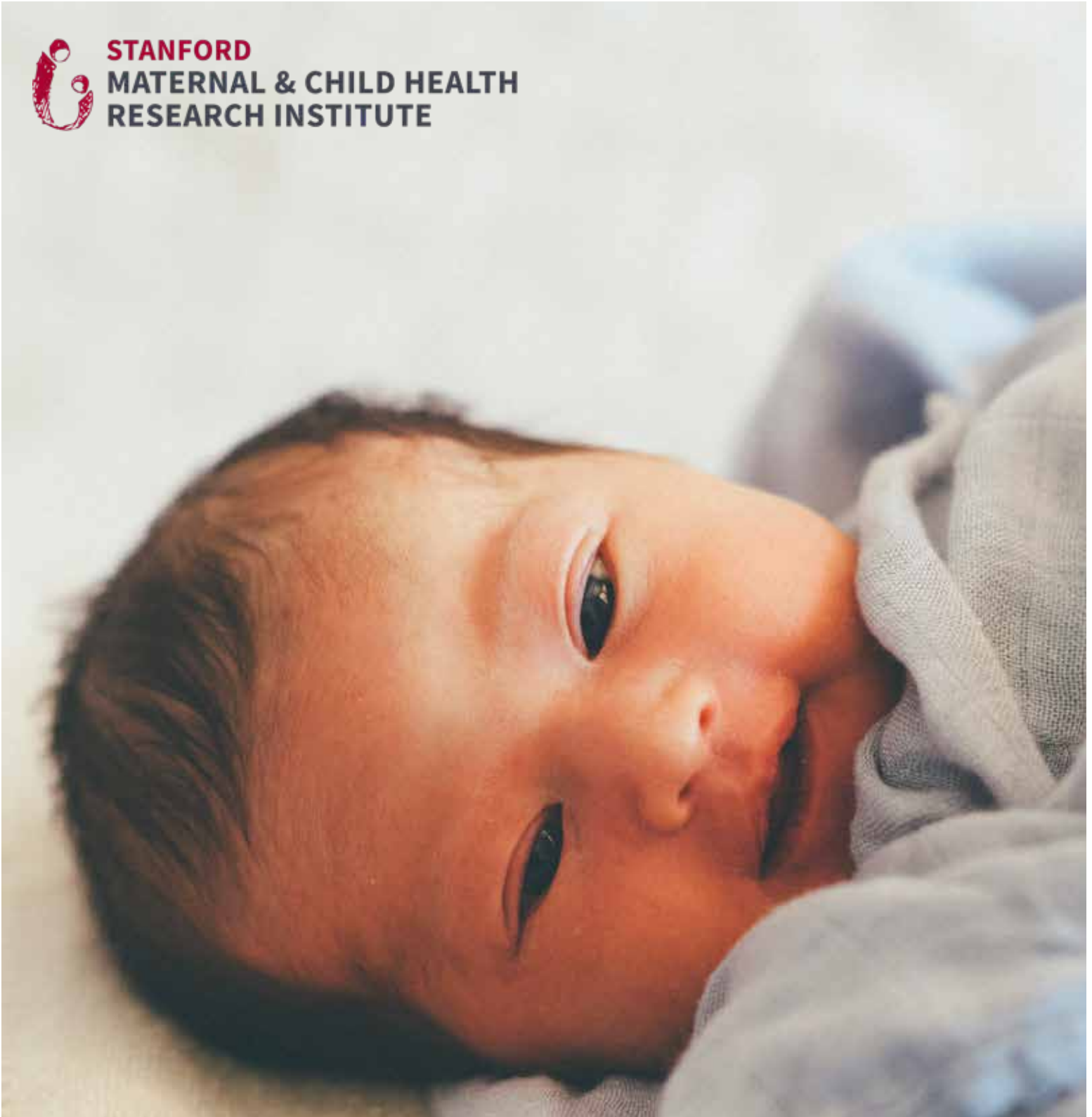




STANFORD
MATERNAL & CHILD HEALTH
RESEARCH INSTITUTE



ANNUAL REPORT **FY 2019**

ADVANCING RESEARCH IN MATERNAL AND CHILD HEALTH

MOBILIZING STANFORD DISCOVERIES & EXPERTISE TO LAUNCH HEALTHIER LIVES

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.

STRATEGIC GOALS

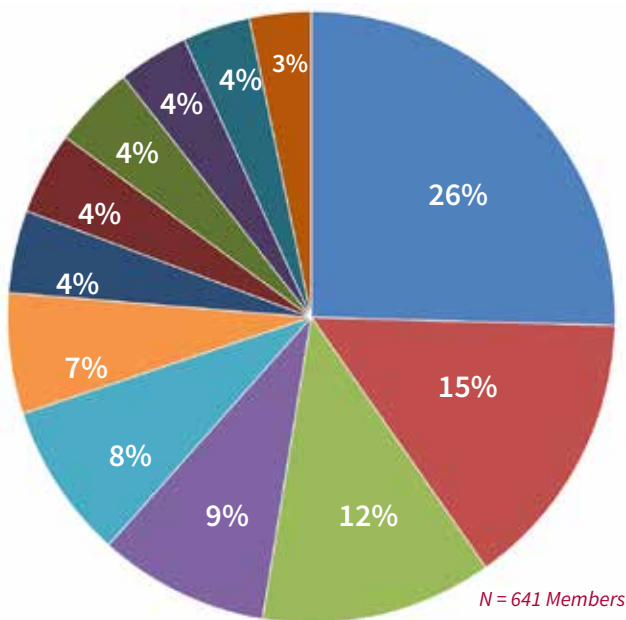
- Focus Stanford's intellectual talent on solving the greatest health challenges facing expectant mothers and children
- Increase the number of future academic leaders dedicated to these problems
- Accelerate innovative research to make transformational discoveries
- Enable the translation of our discoveries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



Toni Bird Photography courtesy of the Lucile Packard Foundation for Children's Health

OUR COMMUNITY

FY19 MCHRI Membership by Department

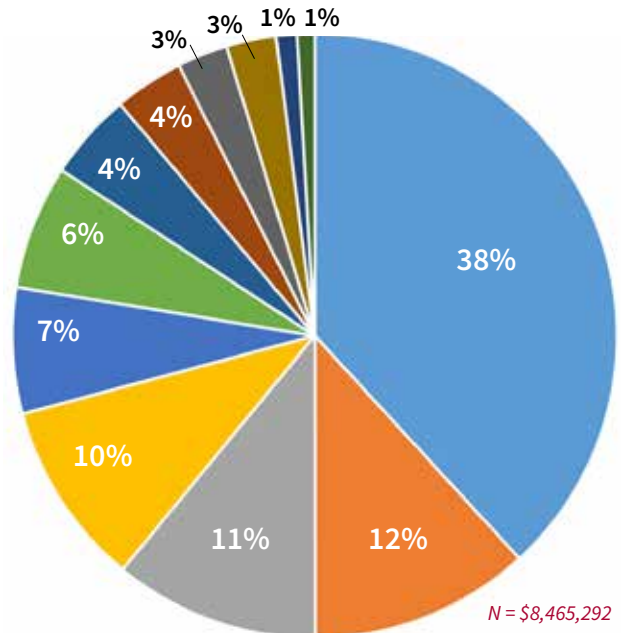


- | | |
|------------------------------------|--------------------------------|
| ■ Pediatrics | ■ Humanities & Sciences Depts. |
| ■ Other Depts. | ■ Radiology |
| ■ Medicine | ■ Pathology |
| ■ Basic Science Depts. | ■ Engineering Depts. |
| ■ Psychiatry & Behavioral Sciences | ■ Anesthesia |
| ■ Neurology & Neurosurgery Depts. | ■ Obstetrics & Gynecology |

Other Depts: Biology, Cardiothoracic Surgery, Cardiovascular Medicine, Dermatology, Earth System Science, Emergency Medicine, Energy Resources Engineering, Graduate School of Education, Law School, Ophthalmology, Orthopaedic Surgery, Otolaryngology Head & Neck Surgery, Photon Science Directorate, Pulmonary, Urology

FUNDING OVERVIEW

FY19 Total Funding Awarded by Department



- | | |
|------------------------------------|------------------------|
| ■ Pediatrics | ■ Anesthesia |
| ■ Other Depts. | ■ Psychology |
| ■ Neurology & Neurosurgery Depts. | ■ Basic Science Depts. |
| ■ Psychiatry & Behavioral Sciences | ■ Engineering |
| ■ Obstetrics & Gynecology | ■ Ophthalmology |
| ■ Medicine | ■ Otolaryngology |

Other Depts: Baxter Laboratory for Stem Cell Biology, Dermatology, Economics, Orthopaedics, Pathology, Radiology, Stanford Cardiovascular Institute, Surgery

HIGHLIGHTS OF 2018-2019

Awarded **110** new grants for maternal and child health research across the University, for a total of

\$8,465,292

Sponsored new partnerships with Stanford Women's Health and Sex Differences in Medicine (WHSDM) and Undiagnosed Diseases Network Seed Grant Program.

MCHRI membership increased by **more than 15 %** for a total of **641 MEMBERS**

Welcomed over **400 participants** to the Institute's

INAUGURAL RESEARCH SYMPOSIUM

featuring **20 speakers, 127 scientific posters**, and a speed-dating session hosted by former Stanford participants of the Eureka Institute for Translational Medicine



Established a **new funding opportunity**, the **Instructor K Award Support Program**, to provide supplemental support for instructors who have received NIH Career Development (K) awards

16,495 HOURS of clinical research support were provided to Stanford Investigators on **104 research studies**.

Provided critical biostatistical support leading to submission of **14 NIH GRANTS** through partnership with Quantitative Sciences Unit.

Created the **Clinical Research Support Office (CRSO)** aimed at providing operational, informatics, regulatory, and other needed support for the execution of studies at Stanford Children's Health (SCH), as well as enhancing research collaboration between the School of Medicine and SCH.

GRANTS AND OTHER AWARDS

Faculty Scholars

\$100K/year for three to five years

Program Co-Chairs

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

Rosa Bacchetta, MD, Anne T. and Robert M. Bass Endowed Faculty Scholar in Pediatric Cancer and Blood Diseases (2019-2024)

Associate Professor, Pediatrics (Stem Cell Transplantation)

Study Title: Harnessing FOXP3 Genome Editing Towards Innovative Treatment of IPEX syndrome

David Hong, MD, Lucile Packard Foundation for Children's Health Faculty Scholar (2019-2024)

Assistant Professor, Psychiatry & Behavioral Sciences (Center for Interdisciplinary Brain Sciences Research)

Study Title: A Novel Investigation of Sex Steroid Influence on Mood Neuro-circuitry in the Pubertal Period

Vittorio Sebastiano, PhD, Woods Family Faculty Scholar in Pediatric Translational Medicine (2019-2024)

Assistant Professor, Obstetrics & Gynecology (Reproductive Biology)

Study Title: A Platform to Study and Generate Human Autologous Germ Cells

Kevin Wang, MD, PhD, Bechtel Faculty Scholar Awards in Pediatric Translational Medicine (2019-2024)

Assistant Professor, Dermatology

Study Title: Interleukin Modulation by Noncoding RNAs as Novel Therapeutic Targets in Preterm Labor

Keith Van Haren, MD, Tashia and John Morgridge Endowed Faculty Scholar in Pediatric Translational Medicine (2019-2024)

Assistant Professor, Neurology & Neurological Sciences and Pediatrics

Study Title: Assessing the Implications of Early- vs Late-life Vitamin D Exposure on Metabolic Rationing Within the Blood and Brain

Transdisciplinary Initiatives Program

\$100K/year for two years

Project Title: Prenatal Predictors of Child Mental Health: Testing a Neurobiological Model of Children's Risk for Psychopathology

PI: Ian Gotlib, PhD, The Taube Family Endowed Transdisciplinary Investigator for Maternal Child Health, School of Humanities & Sciences (Psychology); Co-PI: David K. Stevenson, School of Medicine (Pediatrics)

Project Title: Reversal of Opioid-Induced Neonatal Cardiac Malformation Using CRISPR-Cas9 Gene Editing

PI: Detlef Obal, MD, PhD, DESA, School of Medicine (Anesthesiology, Perioperative & Pain Medicine); Co-PI: Joseph C. Wu, MD, PhD, School of Medicine (Medicine); Lei (Stanley) Qi, MA, PhD, Schools of Engineering & Medicine (Bioengineering) and School of Medicine (Chemical & Systems Biology)

Project Title: Quantifying Regionalized Care Delivery and Outcomes Using Network Science

PI: Jochen Profit, MD, MPH, School of Medicine (Pediatrics); Co-PI: Jurij Lesckovec, PhD, School of Engineering (Computer Science)

Project Title: Real-time Biosensor for Treating Type 1 Diabetes in Children

PI: H. Tom Soh, PhD, School of Engineering (Electrical Engineering and Radiology); Co-PI: Bruce Buckingham, MD, School of Medicine (Pediatrics)

Clinical (MD) Trainee

100% salary/benefits support for up to two years

Program Co-Chairs

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

Valentin Barsan, MD

Anne T. and Robert M. Bass Endowed Fellow

Clinical Fellow, Pediatrics (Hematology & Oncology)

Project Title: Dynamic Personalized Response Assessment to Cancer Immunotherapy Through Next Generation Sequencing

Chen Chen, MD

Stanford Maternal & Child Health Research Institute Fellow

Clinical Fellow, Pediatrics (Hospital Medicine)

Project Title: Patient and Family Perspectives on Admission from the Emergency Department to Pediatric Inpatient Setting

Holly C. Cooper, MS, MD

Pete and Arline Harman Fellow

Clinical Fellow, Pediatrics (Endocrinology & Metabolism)

Project Title: Body Composition Changes in Transgender Adolescents After Initiation of Cross-Sex Hormones

Rebecca Dang, MD

Ernest and Amelia Gallo Endowed Postdoctoral Fellow

Clinical Fellow, Pediatrics (Hospital Medicine)

Project Title: Temperature Measurement and Values at Well-Child Visits

Eman S. Haidari, MD

Stanford Maternal & Child Health Research Institute Fellow

Clinical Fellow, Pediatrics (Neonatology)

Project Title: An Exploration of NICU Admission Rates

Alice C. Huang, MD, MBA

Ernest and Amelia Gallo Endowed Postdoctoral Fellow

Clinical Fellow, Pediatrics (Gastroenterology, Hepatology, & Nutrition)

Project Title: Feasibility and Utility of Virtual Reality in the Management of Pediatric Functional Constipation

Sara G. Kibrom, MD

Tashia and John Morgridge Endowed Postdoctoral Fellow

Clinical Fellow, Pediatrics (Nephrology)

Project Title: Management of Hypertension in Children with Chronic Kidney Disease in Ethiopia



Jill Krissberg, MD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Nephrology)
Project Title: Racial/Ethnic and Socioeconomic Disparities in Pediatric Glomerular Diseases

Ivan Lee, MD, PhD

Ernest and Amelia Gallo Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Allergy, Immunology, & Rheumatology)
Project Title: Endotyping Chronic Rhinosinusitis Using Multiplexed Imaging and Mass Cytometry

Rachelle M. Lo, MD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Allergy, Immunology & Rheumatology)
Project Title: Assessing Peanut Allergy Testing and Prevalence in Infants Before and After Early Peanut Introduction Guidelines

Justine C. Maller, PhD, MD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Allergy, Immunology, & Rheumatology)
Project Title: Extracellular Vesicles as Novel Biomarkers and Clues to Pathogenesis in Systemic Juvenile Idiopathic Arthritis

Jonathon J. Parker, MD, PhD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Neurosurgery (Pediatric Neurosurgery and Epilepsy)
Project Title: Towards Pediatric-Epilepsy Specific Neurostimulation: Exploring White Matter Local Field Oscillations During Neocortical Seizures and in Response to Brain Stimulation

Mahil Rao, PhD, MD

Stanford Maternal & Child Health Research Institute Fellow
Clinical Fellow, Pediatrics (Critical Care)
Project Title: Identification of Early Markers of Rejection Following Solid Organ Transplant

Ayelet Rosenthal, MD, MSc

Paul and Yuanbi Ramsay Endowed Fellow
Clinical Fellow, Pediatrics (Infectious Diseases)
Project Title: Adaptive Immunity Following Pediatric Renal Transplantation

Katelyn M. Saarela, DO

Stanford Maternal & Child Health Research Institute Fellow
Clinical Fellow, Department of Pediatrics, Division of Gastroenterology
Project Title: Characterizing CD8+ T-cell Mediated Liver Injury in Pediatric Indeterminate Acute Liver Failure

Ragini M. Shyam, MD

Tashia and John Morgridge Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Hematology & Oncology)
Project Title: Circulating Tumor DNA in Genetic Profiling and Monitoring of Pediatric Hodgkin Lymphoma

Xin (Cissy) Si, MD

Clinical Fellow, Pediatrics (Pulmonary)
Project Title: Host Immune Response of Non-Tuberculous Mycobacteria Infections in Cystic Fibrosis

Lea Steffes, MD

Ernest and Amelia Gallo Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Pulmonary Medicine)
Project Title: Genomic Analysis of Neointimal Expansion in Pulmonary Arterial Hypertension

Amanda M. Uber, DO

Paul and Yuanbi Ramsay Endowed Fellow
Clinical Fellow, Pediatrics (Nephrology)
Project Title: Urinary Biomarkers to Predict Acute Kidney Injury (AKI) in Pediatric Patients with Sepsis

Walter A. Zegarra, MD

Pete and Arline Harman Fellow
Clinical Fellow, Pediatrics (Endocrinology & Metabolism)
Project Title: Efficacy and Safety of Aromatase Inhibitors for Height Augmentation in Pubertal Boys with Short Stature

Ke-You Zhang, MD

Ernest and Amelia Gallo Endowed Postdoctoral Fellow
Clinical Fellow, Pediatrics (Gastroenterology, Hepatology, & Nutrition)
Project Title: The Effect of Pancreatic Secretions in Chronic Pancreatitis on Duodenal Inflammation and Mucosal Integrity

Postdoctoral Support
Up to \$75K/year for two years

Program Panel Chairs

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

Janet Y. Bang, PhD

Postdoctoral Fellow, Psychology
Project Title: How Do Early Caregiver-Child Interactions Support Long-Term Academic Outcomes in At-Risk Children?

Recipients of MCHRI Support

Adam Raymond Burns, PhD

Postdoctoral Fellow, Infectious Diseases

Project Title: The Role of Microbial Dispersal and Disturbance in the Assembly of Newborn Microbiomes in Neonatal Intensive Care Units

Hyesang Chang, PhD

Postdoctoral Fellow, Psychiatry & Behavioral Sciences

Project Title: Cognitive Training-Induced Plasticity of Brain Circuits in Children with Learning Disabilities

Kathleen Whittle Dantzler, PhD

Postdoctoral Fellow, Medicine (Infectious Disease)

Project Title: Mechanisms driving T cell and monocyte dysfunction during recurrent malaria and impact on adaptive immune responses

Debopam Ghosh, PhD

Postdoctoral Fellow, Pediatrics (Human Gene Therapy)

Project Title: MHC Class-II Molecule H2-M Affects the Development and Function of B-1 Cells

Lauren Charlotte Heathcote, MSc, PhD

Postdoctoral Fellow, Anesthesia

Project Title: Living with Uncertainty: A Mixed-Methods Study of Symptom Perception After Pediatric Cancer

Efthymia Iliana Matthaïou, PhD

Postdoctoral Fellow, Medicine (Pulmonary & Critical Care)

Project Title: Cystic Fibrosis-Related Innate Immunity Defects Increase the Risk Of Aspergillus Fumigatus Infection After Pediatric Lung Transplantation

Monica Mendes Kangussu Marcolino, PhD

Postdoctoral Fellow, Medicine (Infectious Diseases)

Project Title: Novel Therapies for Lethal Parasitic Diseases of Children: Validation of Drug Target in Entamoeba Histolytica and Naegleria Fowleri

Noga Or-Geva, PhD

Postdoctoral Fellow, Neurology & Neurological Sciences

Project Title: Interrogating the Role of the Neuro-Immune Axis in Pediatric Acute-Onset Neuropsychiatric Syndrome

Omer Revah, DVM, PhD

Postdoctoral Fellow, Psychiatry & Behavioral Sciences (Sleep Medicine)

Project Title: Functional Integration into the Rodent Cortex Of Human Stem Cell Derived 3D Cortical Spheroids to Model Neurodevelopmental Disorders

Jolanda Sarno, PhD

Postdoctoral Fellow, Pediatrics (Hematology & Oncology)

Project Title: Single-Cell Analysis of Treatment Failure in Childhood Acute Lymphoblastic Leukemia

Li-av Segev Zarko, PhD

Postdoctoral Fellow, Microbiology & Immunology

Project Title: Taking Charge: How an Important Fetal Pathogen Introduces the Proteins It Uses to Invade and Take Control of Human Cells

“

Receiving the MCHRI Postdoctoral Support grant is an invaluable stepping stone at this stage in my career. The funding has enabled me to establish my own independent research line in pediatric cancer survivorship, which I hope will lead to a future faculty position and to building my research team.

LAUREN HEATHCOTE, PHD

Anesthesiology, Perioperative, & Pain Medicine

Deepa Sengupta, PhD

Postdoctoral Fellow, Biology

Project Title: Role of the Epigenetic Mutagen NSD2 in Driving Pediatric ALL

Inge Timmers, PhD

Postdoctoral Fellow, Anesthesiology, Perioperative & Pain Medicine

Project Title: Scanning Circles of Pain Engagement (SCOPE): A Brain Imaging Study of Parent's Affective Responses to Observing their Child's Pain

Jonas D. Van Belleghem, PhD

Postdoctoral Fellow, Medicine (Infectious Diseases & Geographic Medicine)

Project Title: The Prevalence and Impact of Phage Infection in Cystic Fibrosis

Humsa Venkatesh, PhD

Postdoctoral Fellow, Neurology (Neurology)

Project Title: Electrical Integration of Pediatric Gliomas into Neural Circuitry

Elizabeth Wall-Wieler, PhD

Postdoctoral Fellow, Pediatrics (Neonatal & Developmental Medicine)

Project Title: Psychotropic Medication and Ectopic Pregnancy

Pilot Grant Programs \$35K for one year

Program Co-Chairs

- Paul C. Grimm, MD - Professor, Pediatrics
- Gary M. Shaw, DrPH - Professor, Pediatrics

New Idea Grants

Alice Bertaina, MD, PhD

Associate Professor, Pediatrics (Stem Cell Transplant & Regenerative Medicine)

Project Title: Transposition of Native Chromatin for Fast And Sensitive Epigenomic Profiling of Open Chromatin, DNA-Binding Proteins and Nucleosome Position (ATAC-seq) in JMML

Yair Blumenfeld, MD

Associate Professor, Obstetrics and Gynecology (Maternal-Fetal Medicine)

Project Title: Discovery of New Associations Between Drug-Drug Interactions and Adverse Maternal and Neonatal Pregnancy Outcomes

Ravindra Majeti, MD, PhD

Professor, Medicine (Hematology)

Project Title: Pre-Leukemic Hematopoietic Stem Cells in Pediatric Acute Myeloid Leukemia

Sean M. Wu, MD, PhD

Associate Professor, Medicine (Cardiovascular Medicine)

Project Title: Preclinical Validation of Cntn2-800: A Novel Optical Imaging Agent to Reduce Intraoperative Damage to the Cardiac Conduction System During Congenital Heart Surgery

Early Career Grants

Helio Costa, PhD

Instructor, Pathology

Project Title: Epigenetic, Transcriptional, and Chromatin Conformation Signature Profiling of a Pediatric Sarcoma Clinical Cohort for Identification of Molecular Biomarkers to Inform Disease Prognosis and Aid in Therapy Selection

Elizabeth S. Egan, MD, PhD

Assistant Professor, Pediatrics (Infectious Diseases)

Project Title: Investigating Host Determinants of Malaria Anemia at Single-Cell Resolution

Lucian Custo Greig, MD, PhD

Instructor, Ophthalmology

Project Title: Regeneration of Retinal Ganglion Cells from Endogenous Progenitors

Maya Elise Kumar, PhD

Instructor, Medicine (Pulmonary & Critical Care)

Project Title: Defining Molecular Mechanisms Driving Neointima Growth in a Mouse Model of Pulmonary Hypertension

Suzanne A. Tharin, PhD, MD

Assistant Professor, Neurosurgery

Project Title: Chromatin State Controls Over a Neuron Subtype-Specific MicroRNA Cluster During Brain Development

**Clinician Educator
\$35K for one year**

Program Co-Chairs

- Bertil Glader, MD, PhD - Professor, Pediatrics
- Deirdre J. Lyell, MD - Professor, Obstetrics & Gynecology

Cynthia J. Campen, MD, MS

Clinical Associate Professor, Neurology & Neurological Sciences (Child Neurology)

Project Title: Characterizing White Matter Microstructure of Optic Pathways Gliomas in Children with Neurofibromatosis Type 1

Thomas J. Caruso, MD, MEd

Clinical Associate Professor, Anesthesiology, Perioperative & Pain Medicine (Pediatric Anesthesia)

Project Title: Bilateral Erector Spinae Blocks for Pediatric Patients undergoing Cardiovascular Surgery - A Prospective, Randomized Trial

Sharon Chen, MD, MPH

Clinical Assistant Professor, Pediatrics (Pediatric Cardiology)

Project Title: Outcomes After Strokes in Pediatric Heart Transplant Patients Bridged with Ventricular Assist Devices

Adam R. Frymoyer, MD

Clinical Assistant Professor, Pediatrics (Neonatal & Developmental Medicine; General Pediatrics)

Project Title: Individualized Vancomycin Therapy in Children Using Model-Based Dosing

Amy E. Judy, MD, MPH

Clinical Assistant Professor, Obstetrics & Gynecology (Maternal Fetal Medicine)

Project Title: Introduction of an Automated Conversational Agent in the Peripartum Setting to Improve Maternal Mental Health

Sruti S. Nadimpalli, MPH, MD

Clinical Assistant Professor, Pediatrics (Infectious Diseases)

Project Title: Innate and Adaptive Immune Reconstitution Following Cardiac and Renal Transplantation in Children

Neha Purkey, MD

Clinical Assistant Professor, Pediatrics (Pediatric Cardiology)

Project Title: Does Birth Location Impact Outcomes for Neonates with Hypoplastic Left Heart Syndrome in California?

Thalia Robakis, MD, PhD

Clinical Assistant Professor, Psychiatry & Behavioral Sciences

Project Title: Maternal Attachment Style in Relation to Parenting Practices and Child Development

Joyce Teng, MD, PhD

Clinical Professor, Dermatology (Pediatric Dermatology)

Project Title: Gene Expression Characterization of Lymphatic Malformation Following Treatment

Kali R. Tileston, MD

Clinical Assistant Professor, Orthopaedic Surgery (Pediatric Orthopaedic Surgery)

Project Title: The Role of Health Mindset in Adolescents' Compliance with Brace Wear for Adolescent Idiopathic Scoliosis

Kirsten A. Willar, PhD

Clinical Instructor, Psychiatry & Behavioral Sciences (Child & Adolescent Psychiatry)

Project Title: Exploring Outcomes of the PEERS Intervention for Adolescents with Autism Spectrum Disorder

Recipients of MCHRI Support

Bridge Support

Up to \$100K for one year

50% support from both MCHRI & awardee's department

Yvonne Maldonado, MD

Professor, Pediatrics (Infectious Diseases); Health Research & Policy
Project Title: A Genomic Tool for Identifying Pathogenic Circulating Vaccine-Derived Polioviruses

Henry C. Lee, MD

Professor, Pediatrics (Neonatal and Developmental Medicine)
Project Title: Implementing an Individualized Prediction Tool for Perivable Birth in Order to Improve Outcomes

Instructor K Award Support

Up to \$50K/Year for up to two Years

50% support from both MCHRI & awardee's department

Joseph M. Baker, PhD

Instructor, Psychiatry & Behavioral Sciences (Interdisc. Brain Sciences)

Ahmet Coskun, PhD

Instructor, Radiology (Molecular Imaging Program)

Siyuan Ding, PhD

Instructor, Medicine (Gastroenterology & Hepatology)

Tamar Green, MD

Instructor, Psychiatry & Behavioral Sciences (Interdisc. Brain Sciences)

Mingxia Gu, MD, PhD

Instructor, Pediatrics (Cardiology)

Bereketeab Haileselassie, MD

Instructor, Pediatrics (Critical Care)

Tiffany Ho, PhD

Instructor, Psychiatry & Behavioral Sciences (Child & Adolescent Psychiatry)

Juliet Klasing Knowles, MD, PhD

Instructor, Neurology & Neurological Sciences (Child Neurology)

Trung Pham, MD, PhD

Instructor, Pediatrics (Infectious Diseases)

David Vu, MD

Instructor, Pediatrics (Infectious Diseases)

Master's Tuition Support

Full Tuition & Fees Coverage

Yair Bannett, MD

Clinical Fellow, Pediatrics (Developmental-Behavioral Pediatrics)

Rebecca Dang, MD

Clinical Fellow, Pediatrics (Hospital Medicine)

Jill Krissberg, MD

Clinical Fellow, Pediatrics (Nephrology)

Yeon-Kyeong Noh, MD

Clinical Fellow, Pediatrics (Neonatal & Developmental Medicine)

Eureka Institute for Translational Medicine

Eureka International Certificate Program

Mingxia Gu, MD, PhD

Instructor, Pediatrics (Cardiology)

David Hong, MD

Assistant Professor, Psychiatry & Behavioral Sciences (Center for Interdisciplinary Brain Sciences Research)

Christin Kuo, MD

Assistant Professor, Pediatrics (Pulmonary Medicine)

Jiangbin Ye, PhD

Assistant Professor, Radiation Oncology (Radiation & Cancer Biology)

Eureka Summer School Course Program

Jeffrey Liu, PhD

Postdoctoral Fellow, Pediatrics (Stem Cell Transplantation and Regenerative Medicine)

Jennifer Tsai, MD

Clinical Fellow, Pediatrics (Hematology & Oncology)

Eureka Monsoon School Certificate Program

William Goodyear, MD, PhD

Postdoctoral Fellow, Pediatrics (Cardiology)

Zachary Sellers, MD, PhD

Instructor, Pediatrics (Gastroenterology)

Elizabeth Wall-Wieler, PhD

Postdoctoral Fellow, Pediatrics (Neonatal & Developmental Medicine)



MCHRI is dedicated to supporting innovative research programs to launch healthier lives. Our support includes clinical research infrastructure, epidemiology training programs, seed grants and partnership with institutes across Stanford University.

MARY LEONARD, MD, MSCE
MCHRI Director

FUNDED PARTNERS AWARDS

Global Child Health Program

Pascaline Dupas, PhD

Associate Professor, Economics

Team Members: Dedevi S. Marie Christine Apedo Amah, PhD, Stanford Institute for Economic Policy Research; Yao N'dri, CARE International Cote d'Ivoire

Project Title: Remote Assistance and Coaching Helpline (REACH): An Innovative Approach to Improving the Quality of Public Healthcare in Rural Cote d'Ivoire with Community Participation

Lambertus Hesselink, PhD

Professor, Electrical Engineering

Team Members: Maya Ramachandran, School of Medicine; Ashwini Ramamoorthy, School of Engineering; Anna von Wendorff, School of Earth and Environment

Project Title: Scopi Nasoendoscope

SPARK

William Rowland Goodyer, MD, PhD

Postdoctoral Medical Fellow, Pediatrics (Cardiology)

Co-PIs: Sean Wu, MD, PhD, FACC, Medicine; Eben Rosenthal, MD, Otolaryngology and Radiology

Project Title: Cntn2-800: A Novel Optical Imaging Agent to Visualize Cardiac Conduction System in Congenital Heart Surgery

David Myung, MD, PhD

Assistant Professor, Ophthalmology

Project Title: Bioactive Collagen Filler for Sutureless Corneal Tissue Reconstruction After Corneal Injury

Kathleen M. Sakamoto, MD, PhD

Professor, Pediatrics (Hematology & Oncology)

Project Title: Targeting Nemo-like Kinase for the Treatment of Diamond-Blackfan Anemia

Peter Luke Santa Maria, MD, PhD

Assistant Professor, Otolaryngology

Co-PIs: Annelise Barron, PhD, Bioengineering; Jennifer Lin

Project Title: Synthetic Antimicrobial Peptoids for the Treatment of Chronic Suppurative Otitis Media

Peter Luke Santa Maria, MD, PhD

Assistant Professor, Otolaryngology

Co-PI: Laurent Bekale, PhD, Otolaryngology

Project Title: Glucose Capped Gold Nanoparticle as Targeted Anti-Bio-film Adjunctive Therapy in Chronic Suppurative Otitis Media

Stanford Byers Center for Biodesign Faculty Fellowship

Thomas A. Anderson, MD, PhD

Clinical Associate Professor, Anesthesiology, Perioperative & Pain Medicine

Sumit Bhargava, MD

Clinical Associate Professor, Pediatrics (Pulmonary Medicine)

Eric Foote, MD

Clinical Instructor, Pediatrics

Louis Halamek, MD

Professor, Pediatrics (Neonatal & Developmental Medicine) and by courtesy, of Obstetrics & Gynecology

David S. Hong, MD

Clinical Assistant Professor, Neurosurgery

Tulio A. Valdez, MD, MSc

Associate Professor, Otolaryngology (Head & Neck Surgery)

Stanford Cardiovascular Institute

Helen M. Blau, PhD

Professor, Baxter Laboratory for Stem Cell Biology

Project Title: Multiparametric Imaging to Study Cellular Dynamics in Duchenne Muscular Dystrophy-Associated Dilated Cardiomyopathy

Michael Snyder, PhD

Professor, Genetics

Project Title: Identification of Metabolic Markers During Early Pregnancy Associated with the Risk of Congenital Heart Defects in the Offspring

Undiagnosed Diseases Network

Gill Bejerano, PhD

Associate Professor, Developmental Biology; Computer Science; Biomedical Data Science; and Pediatrics (Genetics)

Project Title: A Next Generation Computational System for the Diagnosis of Rare Genetic Disease

Stephen Montgomery, PhD, Associate Professor, Pathology and Genetics and **Maura Ruzhnikov, MD**, Clinical Assistant Professor, Neurology & Neurological Sciences and Pediatrics (Medical Genetics)
Project Title: Transcriptomic Profiling to Augment the Diagnosis of Rare Genetics Disorders

Holly Tabor, PhD

Associate Professor, Medicine (Primary Care and Population Health)

Project Title: Experiences and Outcomes of Diverse Participants in the Undiagnosed Diseases Network Population: A Pilot Study

Governing Board

Cynthia J. Brandt, PhD

President and CEO, Lucile Packard Foundation for Children's Health

Jeff Chambers, MBA

Chair of Governing Board and Chair of Board of Directors, Lucile Packard Children's Hospital Stanford

James Dunn, MD, PhD

Surgeon-in-Chief, Lucile Packard Children's Hospital Stanford; Professor of Surgery (Pediatric Surgery)

Paul A. King

President and CEO, Lucile Packard Children's Hospital Stanford

Mary Leonard, MD, MSCE

Director, Stanford Maternal & Child Health Research Institute; Professor and Chair of Pediatrics, Stanford School of Medicine; Physician-In-Chief, Lucile Packard Children's Hospital Stanford

Lloyd B. Minor, MD

Dean, Stanford School of Medicine; Professor of Otolaryngology (Head & Neck Surgery)

Anthony Oro, MD, PhD

Co-Director, Stanford Maternal & Child Health Research Institute; Professor of Dermatology

David K. Stevenson, MD

Co-Director, Stanford Maternal & Child Health Research Institute; Senior Associate Dean for Maternal & Child Health, Stanford School of Medicine; Professor of Pediatrics (Neonatal & Developmental Medicine)

Executive Committee

Leadership

Mary Leonard, MD, MSCE

Director, Stanford Maternal & Child Health Research Institute

Anthony Oro, MD, PhD

Co-Director, Stanford Maternal & Child Health Research Institute

David K. Stevenson, MD

Co-Director, Stanford Maternal & Child Health Research Institute

Mary M. Chen, MS, MBA

Administrative Director, Stanford Maternal & Child Health Research Institute; Assistant Dean for Maternal & Child Health Research, Stanford School of Medicine

Members

David Cornfield, MD

Professor of Pediatrics (Pulmonary Medicine)

James Dunn, MD, PhD

Surgeon-in-Chief, Lucile Packard Children's Hospital Stanford; Professor of Surgery (Pediatric Surgery)

Michelle Monje, MD, PhD

Associate Professor of Neurology & Neurological Sciences

Thomas Robinson, MD, MPH

Professor of Pediatrics (General Pediatrics) and of Medicine

Kathleen Sakamoto, MD, PhD

Professor of Pediatrics (Hematology & Oncology)

Karl Sylvester, MD

Associate Dean, Maternal & Child Health Research, Stanford School of Medicine; 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

Education Committee

Anthony Oro, MD, PhD - Chair

Co-Director, Stanford Maternal & Child Health Research Institute

Natalia Gomez-Ospina, MD, PhD

Assistant Professor of Pediatrics (Medical Genetics)

Michelle Monje, MD, PhD

Associate Professor of Neurology & Neurological Sciences

Thomas Robinson, MD, MPH

Professor of Pediatrics (General Pediatrics) and of Medicine

Manpreet K. Singh, MD, MS

Associate Professor of Psychiatry & Behavioral Sciences (Child & Adolescent Psychiatry)

Virginia Winn, MD, PhD

Associate Professor of Obstetrics & Gynecology (Reproductive Biology)

Fan Yang, PhD

Associate Professor of Orthopaedic Surgery and of Bioengineering

Meena Kadapakkam, MD

Instructor in Pediatrics (Hematology & Oncology)

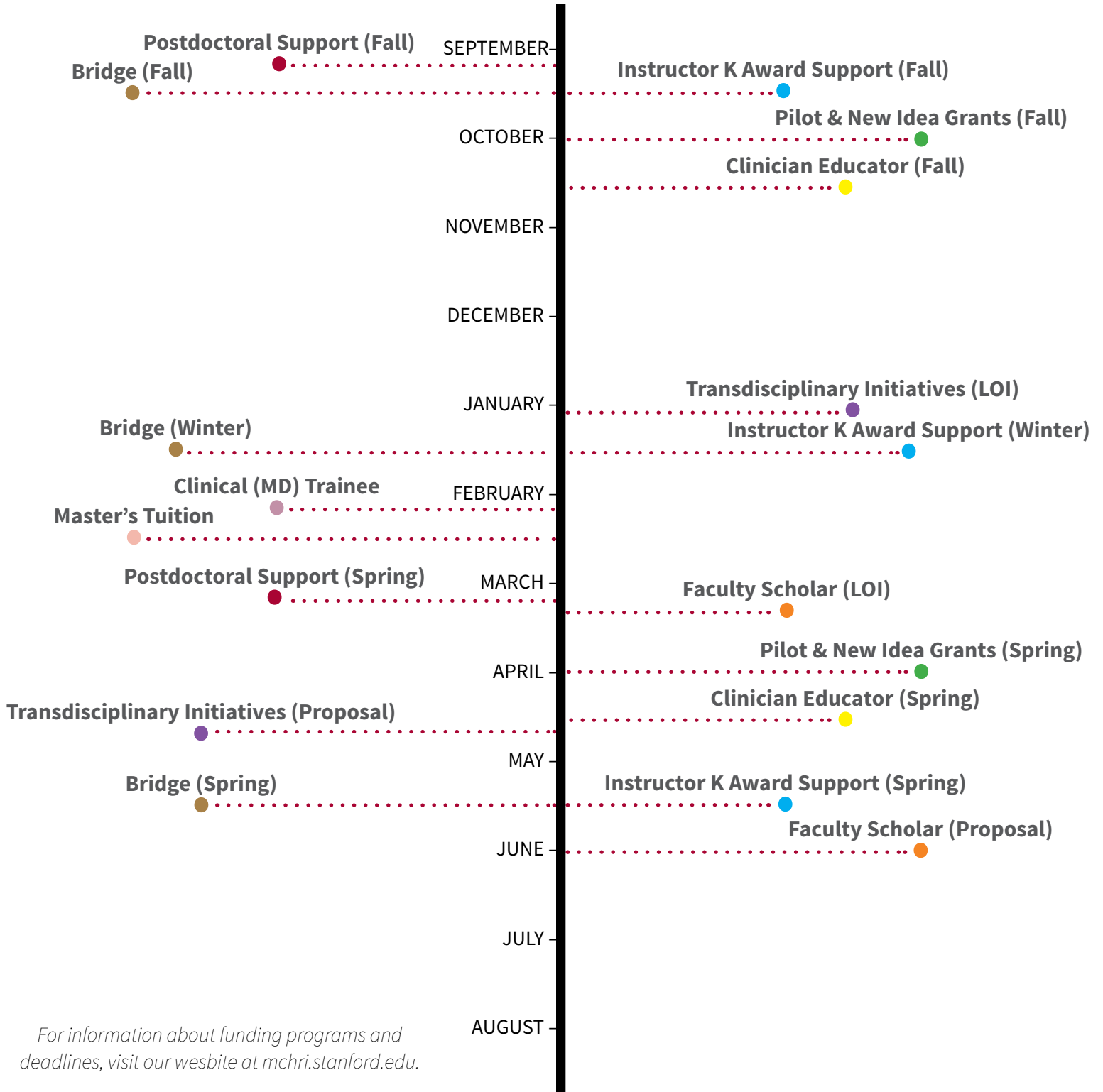
Melissa Mavers, MD, PhD

Instructor in Pediatrics (Stem Cell Transplantation)

Trung Pham, MD, PhD

Instructor in Pediatrics (Infectious Diseases)

PROGRAM TIMELINE



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



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