Maternal and Child Health Research Institute Progress Report and New Programs – Mary Leonard
Physician Wellness Survey is here! – April 1st

Let’s assess & address physician wellness!

WellMD incentive per department:
• 50% participation = $25 per participant
• 70% participation = $50 per participant
*Funds allocated to improve your wellness!

FPO Engagement/Wellness incentive per division:
• 80% response rate for full payout
• 70% response rate for 50% payout
*Pertains to both Communication & Wellness Surveys

Peds Well-Being Director: Felice Su, felicesu@stanford.edu
FPO Engagement/Wellness: Tzielan Lee tzlee@stanford.edu
Dan Murphy murphyd@stanford.edu
WellMD/WellPhD Center: wellmd.stanford.edu
10TH ANNUAL
PEDIATRICS RESEARCH RETREAT
Ten Years of Scientific Discovery and Innovation

April 19, 2019 • Friday
8:00am - 3:30pm
Paul & Mildred Berg Hall
Li Ka Shing Center for Learning and Knowledge

PEDIATRIC GRAND ROUNDS - KEYNOTE SPEAKER
DAVID A. RELMAN, MD
Pregnancy, Gestational Outcome, and the Human Microbiome

REGISTER TODAY!
http://pediatrics.stanford.edu/research-retreat

PROGRAM
07:50 AM - 08:55 AM Welcome & Pediatric Grand Rounds
08:55 AM – 10:00 AM Session 1 Presentations
10:00 AM – 11:00 AM Poster Session
11:00 AM – 12:20 PM Session 2 Presentations
12:20 PM - 01:00 PM Lunch & Poster Viewing
01:00 PM - 02:45 PM Session 3 Presentations
02:45 PM - 03:00 PM Trainee Speakers & Poster Awards
03:00 PM – 03:30 PM Celebration Reception
Pediatric Academic Societies Meeting
April 24 – May 1, 2019 | Baltimore, MD

April 24-26 • Pre-conference Events | April 27-30 • PAS 2019 Meeting | May 1 • Post-conference Events

# PRESENTERS
194 Total Presenters:
98 faculty
43 staff
28 trainees (residents/fellows)
25 postdoctoral scholars/students

DEPARTMENTS REPRESENTED
17 Departments Represented

ANESTHESIOLOGY
Biomedical Data Science
Chemical & Systems Biology
Computer Science
Emergency Medicine
Genetics
Human Biology
International Relations
LPCH Medicine
Microbiology & Immunology
Neurology
Orthopaedic Surgery
Otolaryngology Head & Neck Surgery
Pediatrics
Psychology
Surgery

LEARNERS REPRESENTED
Undergraduate Students
Medical Students
Residents
Clinical Fellows
Postdoctoral Scholars

# PRESENTATIONS
TOTAL 156
41 Platforms
79 Posters
11 Workshops
9 Hot Topic/Topic Symposia
16 Clubs, Special Interest Groups, Other
SCH booth #80

Overhang over booth

Meterboards at lounge
The ask

Faculty/ SOM staff participation at the SCH booth to meet attendees and answer questions, or to share and present relevant work. Ideal commitment of one hour.

Can potentially set aside an hour for a specific specialty (ie. Endocrinology hour) so multiple faculty/ residents/ fellows can be available without committing specific doctor.

Schedule of faculty presence at the booth will be promoted at booth and on social media.

Please sign up with Leona Wong at lewong@stanfordchildrens.org
STANFORD PEDIATRICS

APPOINTMENTS AND PROMOTIONS WORKSHOP

THURSDAY, MAY 2, 2019
12:00 PM - 1:00 PM
LPCH AUDITORIUM

Register at tinyurl.com/pedsAPworkshop
Research Infrastructure in a Healthcare Network: What are the Needs?

Wednesday, May 8th, 2019
8:00am-1:00pm (Check-in begins 7:30am)
Fisher Conference Center - Lane/Lyons/Lodato Rooms
Frances C. Arrillaga Alumni Center
Breakfast and lunch included with registration

For more information, please visit http://med.stanford.edu/pcha-uha.html

4.0 CME credits offered

A Continuing Medical Education Conference presented by the Department of Pediatrics /Division of General Pediatrics and Department of Medicine

ACCREDITATION
The Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians

CREDIT DESIGNATION
The Stanford University School of Medicine designates this live activity for a maximum of 4.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. The California Board of Registered Nursing recognizes that Continuing Medical Education (CME) is acceptable for meeting RN continuing education requirements; as long as the course is certified for AMA PRA Category 1 Credit™ (rn.ca.gov). Nurses will receive a Certificate of Participation following this activity that may be used for license renewal.
2ND ANNUAL
DIVERSITY & INCLUSION
FORUM 2019
FRIDAY, MAY 10, 2019
8:00 AM - 1:30 PM
Sponsored by the Stanford Medicine LEAD (Leadership Education in Advancing Diversity) Program, the Stanford Office of Pediatric Education and the Stanford Medicine Teaching and Mentoring Academy

Workshop Sessions:
• They Say, Therefore I Am: Stereotype Threat and its Impact on Medical Trainees
• Words Hurt: Identifying and Removing Stigmatizing Language from Clinical Settings
• Do I Belong Here? Imposter Syndrome and its Impact on Diversity of the Medical Workforce
• John is Confident, Jada is too Assertive: How to Recognize and Minimize Bias in Written Trainee Evaluations
• Mentoring a Movement from Diversity to Inclusion

Diversity & Inclusion Fair:
To celebrate the people and organizations promoting diversity and inclusion in the Stanford community

Pediatric Grand Rounds Speaker:
Joan Reede, MD, MS, MPH, MBA
Dean for Diversity and Community Partnership
Harvard Medical School

Stanford Medicine | Office of Pediatric Education
Leadership Education in Advancing Diversity
Stanford Medicine | Teaching and Mentoring Academy
Awards Day is a great opportunity to honor faculty and staff for their dedication to our department!

Awards for Faculty
Stanford Pediatrics DRIVE Award
Advocacy Award
Early Career Clinical Excellence Award
Mid-Career Clinical Excellence Award
Laura Bachrach Mentor Award
Postdoc Mentor Award
Basic Science Award
Clinical Science Award
Medical Science Scholarship Award

Awards for Staff
Collaboration Award
Innovation Award
Rising Star Award
Donna Schurr Spirit Award

Nominate online at pediatrics.stanford.edu/awards
AAP California Advocacy Priorities

Smoking
3 bills

- Limit e-smoking ads to children <21
- Prohibit flavored tobacco products
- Change packaging

Sugar Sweetened Beverages
3 bills

- Limit sugar sweetened beverages near check-out counters
- Requires Safety Warning “...may contribute to obesity, type 2 diabetes, and tooth decay.”
- Prohibit sale of unsealed container >16 fluid ounce
Success!

California Senate Bill 38 (eliminating sales of all flavored tobacco products) and 39 (age verification) passed through the senate health committee
We are headed to Sacramento to talk with our elected officials!

**April 23-24, 2019**
California AAP and the California Medical Association

**May 21-22, 2019**
California Children’s Hospitals Association

Interested in joining us?
Contact Lchamberlain@Stanford.edu
APPD Quality Improvement (QI)
Project Improvement Award: Improving Consults between Residents and Fellows

Sara Pavitt
Hannah Bassett
Kevin Chi
Kim Hoang
Rachel Goldstein
Elizabeth Lippner
Anne McHugh
Kiran Mudambi
Katelyn Saarela
Jennifer Tsai
Pediatrics Research Committee
Committee Membership

Chaired by Gary Shaw

Grace Lee    Carlos Milla    Jeff Feinstein    Robby Parkman    Anisha Patel
Julien Sage    Christin Kuo    Marlene Rabinovitch    Katja Weinacht    Rajni Agarwal
Mingxia Gu    Elizabeth Burgener    Mary Chen    Sijo Thomas    John Whitin
The Maternal and Child Health Research Institute: Progress and New Programs

Mary B. Leonard, MD, MSCE
Arlene & Pete Harman Professor and Chair,
Department of Pediatrics
Adalyn Jay Physician-In-Chief,
Lucile Packard Children's Hospital
Director, Maternal & Child Health Research Institute
Stanford University School of Medicine
MCHRI Executive Committee Members

- David Cornfield: Professor of Pediatrics
- James Dunn: Professor of Surgery and Bioengineering
- Michelle Monje-Deisseroth: Associate Professor of Neurology and Pediatrics
- Tom Robinson: Professor of Pediatrics and Medicine
- Karl Sylvester: Professor of Surgery
- Kathy Sakamoto: Professor of Pediatrics
- Virginia Winn: Professor of Obstetrics and Gynecology
- Fan Yang: Professor of Orthopedic Surgery & Bioengineering
Administration

Mary Chen
Admin. Director

Grant Wells
Program Manager

May Zepeda
Research Manager

Rachel Moericke
Research Manager

Hosna Omarzad
Program Coordinator

Carol Schulze
Hospital Finance

Roxanna Van Norman
Marketing Manager

Kim Stern
Research Administrator
Maternal & Child Health Research Institute

Mobilize Stanford Discoveries and Expertise to Launch Healthier Lives

Strategic Goals

- Uniquely Stanford
- Increase Future Academic Leaders
- Accelerate Innovation
- Translate Discoveries into Action
- Lead Locally, Nationally and Globally
What We Do

Funding
- Seed Grants
- Career Development Grants
- Faculty Scholar Grants
- School of Medicine Partnerships
- MS Tuition

Resources
- Consultation
- Regulatory Support
- Clinical Research Coordinator Pool
- Recruitment Enhancement Core
- Biostatistics and Data Management

Education
- Monthly Seminars
- Workshops
- Annual Research Symposium
- Translational Medicine Courses
MCHRI Partnerships

- **Renewed Funded Partners**
  - SPARK
  - Stanford School of Medicine Institutes
  - Eureka Institute for Translational Medicine.
    Stanford-Eureka graduates planning 2020 Stanford course in translational medicine

- **New Funded Partners**
  - Global Child Health Equity Seed
  - Suicide Prevention through Outreach Grants
  - Byers Center for Biodesign Faculty Fellowships
  - Undiagnosed Disease Network Seed Grants
  - Diabetes Research Center Seed Grants
January 25, 2019
Bioengineering Strategies for Advancing Treatment of Brain Cancer
Gerald Grant, MD, FACS
Fan Yang, PhD

February 4, 2019
Stanford Biodesign Faculty Fellows: Designing Innovations to Improve Health and Health Care
Paul Yock, MD
Scott A. Hoffinger, MD
Wui Ip, MD
Priya Prahalad, MD, PhD
Thomas Robinson, MD, MPH
Avnesh Thakor, MD, PhD

March 4, 2019
Improving Pregnancy and Neonatal Outcomes by Targeting Inflammation and Hypoxia
Brice Gaudilliere, MD, PhD;
Laura S. Peterson, MD
Anca M. Pasca, MD

April 1, 2019
The Health and Wellbeing of Children in Immigrant Families: Understanding the Impact of National Immigration Policy
Fernando S. Mendoza, MD, MPH
David Laitin, PhD
Vasco Yasenov, PhD

May 6, 2019
Abnormal Placentation from Clinic to Bench Discoveries
Deirdre J. Lyell, MD
Julie Baker, PhD

June 3, 2019
SPARK Translational Research Program
Daria Mochly-Rosen, PhD
Anthony Ricci, PhD

September 11, 2019
The Vaping Phenomenon: What it is, why it happened, and what we can do about it
Bonnie Halpern-Felsher, PhD, FSAHM
Karma McKelvey, MD, PhD

October 7, 2019
Undiagnosed Diseases Network
Gill Bejerano, PhD
Jon Bernstein, MD, PhD

And more to come!
MCHRI SEMINAR SERIES

MONDAY, APRIL 1

The Health and Wellbeing of Children in Immigrant Families: Understanding the Impact of National Immigration Policy

12:00 PM -1:00 PM | Alway Building, M114

Register here! https://mchri-seminar-apr1.eventbrite.com
INAUGURAL 2018 MCHRI SYMPOSIUM

KEYNOTE SPEAKER

Sean J. Morrison, PhD

“Stem Cell Niches in the Bone Marrow”

Dr. Morrison is the director of the Children’s Medical Center Research Institute (CRI) at UT Southwestern, the Mary McDermott Cook Chair in Pediatric Genetics, the Kathryne and Gene Bishop Distinguished Chair in Pediatric Research, and a Howard Hughes Medical Institute Investigator.
Second Annual Research Symposium
Friday, November 15, 2019
Li Ka Shing Center, Berg Hall

Announcing Keynote Speaker!

Diana W. Bianchi, MD
“The Earlier the Better: Using Precision Medicine to Develop Fetal Treatments”

Dr. Bianchi is the director of the Eunice Kennedy Shriver National Institute of Child Health and Human Development and head of the Prenatal Genomics and Therapy Section for the Medical Genetics Branch at the National Human Genome Research Institute.
Challenges Facing the Clinical Research Enterprise

Translational Blocks

- Lack of Research Participants
- Regulatory Burdens
- Fragmented Infrastructure

- Need for Biostatistics & Data Management
- Lack of Qualified Investigators
- High research costs and lack of funding

Basic Biomedical Research → Translation from Basic Science to Human Studies → Clinical Science and Knowledge → Translation into Clinical Practice & Decision Making → Improved Health

Biostatistics & Data Management Support

**Eligibility:** available to all MCHRI members and their mentees for research projects directly related to maternal and child health

- **Quantitative Sciences Unit Partnership**
  - Comprehensive biostatistics and data management support.
  - Research directly related to maternal and child health.
  - Over 25 data scientists faculty, masters, and PhD level staff.
  - Expertise in study design, database creation, data management, and data analysis using interdisciplinary collaborative approach.
  - As soon as you have a study question, fill out a “QSU Project Initiation Form” at [http://med.stanford.edu/qsu](http://med.stanford.edu/qsu)
Biostatistics & Data Management Support

Quantitative Sciences Unit

- Partnership enabled 139 projects
  - 53% (73) within Department of Pediatrics
  - 47% (66) outside of Pediatrics
- Majority of requests are grant related
  - 59% Pre-award / grant activities
  - 41% non-funded / data analyses
- Over a third of projects for trainees
  - 37% trainees, 45% faculty, 10% clinician educators
- Enabled 17 NIH grants submitted in maternal and child health.
  - K01—1, KL2—1, K23—2
  - R21—1, R01—12

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<tr>
<th>Department</th>
<th>Projects</th>
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<tbody>
<tr>
<td>Pediatrics</td>
<td>73</td>
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<tr>
<td>Medicine</td>
<td>16</td>
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<tr>
<td>Neurology</td>
<td>14</td>
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<td>Anesthesiology</td>
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<td>Neurosurgery</td>
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<td>Ob/Gyn</td>
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<td>Psychiatry</td>
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<td>Dermatology</td>
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<td>Pathology</td>
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<td>Radiology</td>
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<td>Bioengineering</td>
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<td>Otolaryngology</td>
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<td>Radiation Onc.</td>
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<td>Urology</td>
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MCHRI Clinical Research Support Office

- Provides experienced **Clinical Research Coordinators** who support investigators from study start-up through close out
  - Reduce regulatory risk and logistical burden on junior investigators
  - Serve as central liaison with hospital and school resources
  - Provided coordinator services to 124 studies with 16,600+ hours

“I have found the obstacles to initiating clinical research at Stanford to be daunting, and have at times refrained from starting important early studies due to limitations on my time...these services and resources have made a big difference in this process...Thank you for this important assistance.”
Clinical Research Informatics Work Group

- Launched by Packard Clinical Research Informatics Manager, Sijo Thomas.
- Aims to leverage the use of the electronic medical health record for research.
- Tackles fragmented infrastructure by engaging hospital compliance, research IT, and stakeholders.
Clinical Research Operations Manager

• Facilitate clinical and translational research at SCH

• Serve as a central research liaison with SCH for ancillary services.

• Serve as the operational research liaison between MCHRI, Spectrum, and the School of Medicine Departments and Centers

• Under the direction of MCHRI, identify and develop appropriate protocols, policies, processes, and standard operating procedures associated with research operations
MCHRI Scholars in Pediatric Translational Medicine

- **Morgridge Scholars**
  - Tashia and John Morgridge Faculty Scholars
  - Tashia and John Morgridge Endowed Post-doctoral Fellows

- **Bass Society of Pediatric Scholars and Fellows**
  - Anne T. and Robert M. Bass Endowed Faculty Scholar
  - Mary Gallo Endowed Fellowship Fund
  - Ernest & Amelia Gallo Endowed Fellowship Funds
  - Laurie Kraus Lacob Fellowship/Faculty Scholar Fund
  - Akiko Yamazaki and Jerry Yang Fellowship/Faculty Scholar Fund
  - Bechtel Faculty Scholar Fund in Pediatric Translational Medicine
  - Kastanis Family Faculty Scholar Fund for Translational Medicine
  - Bechtel Endowed Fellowship Fund in Pediatric Translational Medicine
  - Sheri Sobrato Brisson Endowed Faculty Scholar Fund in Pediatric Neuropsychology
  - Carrell Family Endowed Scholar in Food Allergy and Immunology Research
  - Stanford Autism Center Post-doctoral Faculty Scholar Fund
Total MCHRI FY18 Funding by Department

- Pediatrics, $5,956,723
- Radiology, $707,321
- Ophthalmology, $500,000
- Medicine, $400,071
- Other Depts., $318,750
- Chemical Engineering, $200,000
- Psychology, $145,000
- Surgery, $122,500
- Neurosurgery & Neurology Depts., $110,000
- Psychiatry & Behavioral Sciences, $107,143
- Chemistry, $100,000
- Basic Science Depts., $91,000

N = $8,758,508
Postdoc Grants

Postdoc Pipeline over 10 Years

- Number of postdocs funded: **177**
- Publications by postdocs: **129**
- Funded by NIH or government awards: **48%**
- Funded by career development awards: **54%**
- Extramural ROI per MCHRI dollar awarded: **193%**

Postdoc Funding Reaches Across Basic and Clinical Department FY08-18

- **35%** Pediatrics, $2.8M, 63 awards
- **12%** Other Depts., $966K, 19 awards
- **11%** Medicine, $862K, 17 awards
- **8%** Psychiatry & Behavioral Sci., $671K, 14 awards
- **8%** Neurosurgery & Neurology Depts., $619K, 14
- **7%** Pathology, $529K, 12 awards
- **8%** Surgery, $393K, 10 awards
- **4%** Basic Science Depts., $361K, 9 awards
- **3%** OB/GYN, $225K, 6 awards
- **3%** Biochemistry, $212K, 5 awards
- **2%** Otolaryngology, $200K, 4 awards
- **2%** Chemical & Systems Bio., $176K, 4 awards

**Other Departments (12%)**
- Anesthesiology, Bioengineering, Dermatology, Emergency Medicine, Genetics, Orthopaedic Surgery, Psychology, Radiation Oncology, Radiology, Stem Cell Biology & Regenerative Medicine, Urology

**Basic Science Departments (4%)**
- Biology, Developmental Biology, Microbiology & Immunology, and Structural Biology

N = $8M
Uniquely Stanford

- MCHRI Seed Grant
- NIH $250K Grant
- LPCH Support
- MCHRI TIP Grant
- PAC-12 $1M Grant
- MCHRI Faculty Scholar
- NIH $1M R24
- Taube $5M Gift

- Development of mouthguard
- Basic testing
- High Speed video equipment
- Biomechanical biomarkers
- Imaging studies
- Further development and precision testing
- Mouthguards distributed to UCLA, UNC & Virginia Tech
- Extend applications to high school students

Gerald Grant and David Camarillo
Lisa Chamberlain
Harman Faculty Scholar
A Transdisciplinary Approach to Improving School Readiness

Anisha Patel
Harman Faculty Scholar
Assessing the Cost of Water First: A School-Based Water Intervention to Prevent Childhood Obesity

Fernando Mendoza
Transdisciplinary Initiative Program
The Health and Well-Being of Children in Immigrant Families

Desiree LeBeaud
Bechtel Faculty Scholar
Integrated Vector Management as a Strategy for Reduced Disease Risk in a Newly Discovered Region of Dengue Fever in Africa