COMMITTEE FOR THE PROTECTION OF HUMAN SUBJECTS (CPHS)  
CALIFORNIA HEALTH AND HUMAN SERVICES AGENCY (CHHS)

**Members**  
Juan Ruiz, MD, DrPH, Chair  
Larry Dickey, MD, MPH, Vice Chair  
Alicia Bazzano, MD, PhD  
Darci Delgado, PsyD, MS  
Maria Dinis, PhD, MSW  
Lois Lowe, PhD, MA  
Laura Lund, MA  
Fred Molitor, PhD  
Philip Palacio, EdD, MS  
John Schaeuble, PhD, MS

**Location:**  
2020 West El Camino Avenue  
Cal Mortgage Board Room 1235  
Sacramento, CA 95833

**Phone:**  
US Toll-Free Number: (888) 636-3807  
Access Code: 963949

**Date:**  
Friday, February 1, 2019  
8:30 a.m.–4:00 p.m.

**AGENDA**

<table>
<thead>
<tr>
<th>Item</th>
<th>Subject</th>
<th>Presenter</th>
</tr>
</thead>
</table>
| A | Welcome  
1. Introductions  
2. Chair Updates | Juan Ruiz, MD, DrPH, Chair |
| B | CHHS Office of Innovation Report – Status update regarding CHHS data application standardization project | Darci Delgado, Member |
| C | CPHS Policies and Procedures  
1. Re-visit December 7, 2018 Revision of CPHS policy on Annual Continuing Reviews; updated proposal to be presented – **Action**  
2. CPHS Policy on activities that are “Not Research”: public health surveillance – **Discussion** | John Schaeuble, Member  
Laura Lund, Member |
| D | Review and approval of Meeting Minutes  
1. February 2, 2018 – **Action**  
2. February 23, 2018 – **Action**  
3. December 7, 2018 – **Action** | Lucila Martinez, Administrator |
| Item | Subject                                                                 | Presenter                                         |
|------|-------------------------------------------------------------------------|                                                  |
| E    | **Projects with Reported Adverse Events and/or Deviations**<br>Determine if action on projects is needed. See attachment for list of projects. – **Action** | Juan Ruiz, MD, DrPH, Chair                       |
| F    | **New Projects – Full Committee Review Required**<br>See attachment for list of projects. – **Action** | All Members                                       |
| G    | **Second Review Calendar**<br>Full committee review needed on previously tabled projects. See attachment for list of projects. – **Action** | Juan Ruiz, MD, DrPH, Chair                       |
| H    | **New Projects – Expedited Review Requested**<br>Some projects listed may require full committee review and others are recommended for approval by expedited review. Project approvals may be ratified by the committee. See attachment for list of projects. – **Action** | Juan Ruiz, MD, DrPH, Chair                       |
| I    | **Projects Requiring Periodic Review Only (Including Greater than Minimal Risk)**<br>Some projects listed may require full committee review and others are recommended for approval by expedited review. Project approvals may be ratified by the committee. See attachment for list of projects. – **Action** | Juan Ruiz, MD, DrPH, Chair                       |
| J    | **Projects with Major Revisions Requiring Periodic Review**<br>Some projects listed may require full committee review and others are recommended for approval by expedited review. Project approvals may be ratified by the committee. See attachment for list of projects. – **Action** | Juan Ruiz, MD, DrPH, Chair                       |
| K    | **Projects with Request for CPHS to Rely on Another IRB**<br>See attachment for list of projects. – **Action** | Juan Ruiz, MD, DrPH, Chair                       |
| L    | **Exemption/Determination Requests**<br>Some projects listed may require full committee review and others are recommended for approval by expedited review. Project approvals may be ratified by the committee. See attachment for list of projects. – **Action** | Juan Ruiz, MD, DrPH, Chair                       |
### CPHS Agenda
February 1, 2019

<table>
<thead>
<tr>
<th>Item</th>
<th>Subject</th>
<th>Presenter</th>
</tr>
</thead>
</table>
| M    | Final Reports  
Projects listed are submitted for closure and are recommended for approval by expedited review. See attachment for list of projects. – **Action** | Juan Ruiz, MD, DrPH, Chair |
| N    | Public Comments |  |
| O    | Next Meeting  
The next CPHS meeting is scheduled for Friday, April 5, 2019, at 2020 West El Camino Avenue, Sacramento, CA 95833. | Juan Ruiz, MD, DrPH, Chair |
| P    | Adjournment | Juan Ruiz, MD, DrPH, Chair |

**NOTE:** Action may be taken on any items listed in this agenda. To request any background materials prior to the meeting, please contact the Administrator.

Pursuant to the Americans with Disabilities Act, the meeting is accessible to people with mobility impairments. If you need a reasonable accommodation request to attend or participate in this event, please contact the CPHS Administrator at least five (5) business days prior to the meeting, using the CPHS contact information below. CPHS will ensure that it makes every effort to fulfill the request. CPHS encourages public attendance and participation at its meetings. If you have any questions or comments, you may contact the CPHS Administrator at (916) 326-3660 or by email: cphs-mail@oshpd.ca.gov.
E. Projects with Reported Adverse Events and/or Deviations

1. Project # 16-12-2801 (Schaeuble) – 10 Reports
   Title: California Child Care Snapshot
   PI: Carlise King, MA
   Co-PI: Weilin Li, PhD
   Child Trends
   Bethesda, MD

2. Project # 13-10-1398 (Ruiz) – 2 Reports
   Title: Birth Defects Study to Evaluate Pregnancy Exposures – California Component
   PI: Gary Shaw, DrPH
   Co-PI: Suzan Carmichael, PhD
   Stanford University
   Stanford, CA

F. New Projects – Full Committee Review Required

1. Project # 2019-047 (Molitor)
   Title: Establishment of Group B Streptococcal Immunologic Endpoints Reasonably Like to Predict Clinical Benefit Against Invasive Disease Among Young Infants: A Multi-State Case-Control Study
   PI: Mirasol Apostol, MPH
   California Emerging Infections Program
   Oakland, CA

2. Project # 2019-044 (Lund)
   Title: Supporting Women, Infants, and Children Mothers in Infant Feeding
   PI: Shannon Whaley, PhD
   Public Health Foundation Enterprise Women, Infants, and Children
   Irwindale, CA

3. Project # 2019-032 (Lowe)
   Title: Southern California Child Development Survey (SoCal CDS)
   PI: Grace Baranek, PhD
   University of Southern California
   Los Angeles, CA
4. Project # 2019-005 (Dinis)
Title: REACT Study: A Feasibility Study to Develop and Test the Integration of the Cancer Registry Early Case Ascertainment (REACT) Process Via E-Path with an Online Clinical Trial Matching Tool
PI: Scarlett L Gomez, PhD
Cancer Prevention Institute of California
Fremont, CA

5. Project # 2019-004 (Dickey)
Title: Determinants of Genetic Penetrance from the Study of Twins with Breast Cancer
PI: Thomas Mack, MD, MPH
University of Southern California
Los Angeles, CA

6. Project # 2019-002 (TBD)
Title: Promoting Take-Up of the Earned Income Tax Credit: California Department of Social Services Outreach
PI: Jesse Rothstein, PhD
University of California, Berkeley
Berkeley, CA

7. Project # 2019-012 (TBD)
Title: Promoting Take-Up of Earned Income Tax Credit
PI: Jesse Rothstein, PhD
University of California, Berkeley
Berkeley, CA

8. Project # 2019-001 (Palacio)
Title: Collection of Light-Duty Activity Data
PI: Chris Ruehl, BS, MS, PhD
California Air Resources Board
Sacramento, CA

9. Project # 2019-022 (Bazzano)
Title: A Pilot-Feasibility of a Home-Based Intervention to Reduce Obesity Risk for Bottle-Fed Infants
PI: Alison Ventura, PhD, CLEC
California Polytechnic State University
San Luis Obispo, CA
10. Project # 2019-031 (Schaeuble)  
   Title: Medi-Cal 2020 Waiver Evaluation of Dental Transformation Initiative  
   PI: Sean Orzol, PhD  
   Mathematica  
   Ann Arbor, MI

G. Second Review Calendar

1. Project # 13-02-1114 (Ruiz)  
   Title: Mother and Infant Home Visiting Program Evaluation (MIHOPE)  
   PI: Virginia Knox, PhD  
   Manpower Demonstration Research Corporation  
   New York, NY  
   Co-PI: Charles Michalopoulos, PhD  
   Manpower Demonstration Research Corporation  
   Oakland, CA

2. Project # 2018-261 (Delgado)  
   Title: Child Support Debt Relief Pilot  
   PI: Heather Hahn, PhD  
   Urban Institute  
   Washington, D.C.

H. New Projects – Expedited Review Requested

1. Project # 2018-153 (Palacio)  
   Title: Research on Prostate Cancer in African American Men: Defining the Roles of Genetics, Tumor Markers and Social Stress (RESPOND) Core B  
   PI: Ann Hamilton, PhD  
   University of Southern California  
   Los Angeles, CA  
   Co-PI: Christopher Haiman, ScD  
   University of Southern California  
   Los Angeles, CA  
   Rosemary Cress, DrPH  
   Cancer Registry of Greater California  
   Sacramento, CA  
   Scarlett L Gomez, PhD  
   Cancer Prevention Institute of California  
   Fremont, CA
2. Project # 2018-278 (Bazzano)
   Title: Impact of Drought-Related Air Quality on Childhood and Adolescent Asthma in Imperial Valley, California
   PI: Aubrey Doede, MSN RN
       University of Virginia
       Charlottesville, VA

3. Project # 2018-275 (Martinez)
   Title: Networks and Competition in Health Care Markets
   PI: Carolyn McNamara, PhD Economics
       University of Wisconsin – Madison
       Madison, WI

4. Project # 2017-058 (Schaeuble)
   Title: Longitudinal Outcomes Study on the Effect of Perinatal Care on the Development of Pediatric Chronic Disease
   PI: Cassandra Kelleher, MD
       Massachusetts General Hospital
       Boston, MA
   Co-PI: Maggie Westfal, MD MPH
       Partners Healthcare
       Boston, MA

5. Project # 2019-025 (Delgado)
   Title: San Diego Study of Outcomes in Mother and Infants (SOMI)
   PI: Christina Chambers, PhD, MPH
       University of California, San Diego
       La Jolla, CA
   Co-PI: Gretchen Bandoli, PhD MPH MBA
       University of California, San Diego
       La Jolla, CA
       Laura Jelliffe, PhD
       University of California, San Francisco
       San Francisco, CA

6. Project # 2019-026 (Bazzano)
   Title: Predictors of Preterm Birth and Low Birth Weight among Women in Los Angeles County: An Analysis of the Los Angeles Mommy and Baby Project
   PI: Dena Herman, PhD, MPH, RD
   Co-PI: Miranda Westfall, MPH, RD
       University of California, Los Angeles
       Los Angeles, CA
7. Project # 2019-007 (Palacio)
   Title: Why She Did Not Just Leave: The Effect of Nuisance Property Ordinances on Domestic Violence
   PI: Gauri Shastry, PhD
   Co-PI: Emily Moss
   Wellesley College
   Norfolk County, MA

8. Project # 2019-023 (Lund)
   Title: Hospital Investment in Urgent Care: Impacts on Emergent, Outpatient, and Ambulatory Surgery Volumes
   PI: Hillary Linhart, BBA, MBA
   Virginia Commonwealth University Health
   Richmond, VA

9. Project # 2019-021 (Ruiz)
   Title: Five-Year Impact of a Commercial Accountable Care Organization on Health Care Spending, Utilization and Quality of Care
   PI: Hui Zhang, PhD
   California Public Employees Retirement System (CalPERS)
   Sacramento, CA

10. Project # 2018-110 (Schaeuble)
    Title: Preconception Health and Birth Outcomes: A National Longitudinal Study of Adolescent to Adult Health (Add Health)
    PI: Jon Hussey, PhD, MPH
    University of North Carolina
    Chapel Hill, NC
    Co-PI: Jennifer Buher Kane, PhD
    University of California, Irvine
    Irvine, CA

11. Project # 2018-225 (Lund)
    Title: PA17-0785: Fertility and Obstetrical Outcomes Among Young Women with Cancer
    PI: Jose Alejandro Rauh-Hain, MD, MPH
    M. D. Anderson Cancer Center
    Houston, TX
<table>
<thead>
<tr>
<th>Project #</th>
<th>Title</th>
<th>PI:</th>
<th>Co-PI:</th>
<th>Institution</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12. 2019-006</td>
<td>The Effect of Air Pollution from Ports in California on Human Health</td>
<td>Kenneth Gillingham, PhD</td>
<td>Pei Huang, PhD</td>
<td>Yale University</td>
<td>New Haven, CT</td>
</tr>
<tr>
<td>13. 2019-024</td>
<td>Examination of Social, Geographic, and Policy Determinants of Preterm Birth in California</td>
<td>Laura Jelliffe, PhD</td>
<td>Deborah Karasek, PhD, MPH</td>
<td>University of California, San Francisco</td>
<td>San Francisco, CA</td>
</tr>
<tr>
<td>14. 2019-028</td>
<td>Evaluation of the Supportive Services Demonstration</td>
<td>Leah Lozier, PhD</td>
<td>Sara Galantowicz, MPH</td>
<td>United States Department of Housing and Urban Development</td>
<td>Boston, MA</td>
</tr>
<tr>
<td>15. 2019-027</td>
<td>Extreme Heat Events and Pregnancy Outcomes</td>
<td>Lyndsey Darrow</td>
<td></td>
<td>University of Nevada, Reno</td>
<td>Reno, NV</td>
</tr>
<tr>
<td>16. 2018-272</td>
<td>San Diego Homelessness Program Evaluation Project</td>
<td>Mark Duggan, PhD</td>
<td></td>
<td>Stanford University</td>
<td>Stanford, CA</td>
</tr>
<tr>
<td>17. 2019-029</td>
<td>Evaluation of the Health Homes Program (HHP)</td>
<td>Nadereh Pourat, PhD</td>
<td></td>
<td>University of California, Los Angeles</td>
<td>Los Angeles, CA</td>
</tr>
</tbody>
</table>
18. Project # 2018-264 (Dinis)
Title: Implementing the Next Generation Science Standards: Science Course Offering, Access, and Completion
PI: Niu Gao, PhD
Co-PI: Hans Johnson, PhD
Public Policy Institute of California
Sacramento, CA

19. Project # 2018-274 (Lowe)
Title: Mapping University of California-Trained Educators Across California
PI: Pamela Brown, MPP
University of California, Office of the President
Oakland, CA

20. Project # 2019-020 (Palacio)
Title: Understanding the Impact of the ACA Medicaid Expansion on Emergency Department Utilization for Primary Care Treatable Conditions
PI: Peter Veazie, PhD
Co-PI: Alina Denham, MS
University of Rochester Medical Center
Rochester, NY

21. Project # 2019-015 (Lowe)
Title: Effect of Behavioral Health Treatment Access and Public Policies Targeting Behavioral Health on the Use of Emergency Department and Inpatient Medical Care
PI: Thanh Lu, PhD
Temple University
Philadelphia, PA

22. Project # 2018-065 (Trent)
Title: Time-Trends in Fetal Death and Neonatal Mortality in California
PI: Tim Bruckner, PhD
University of California, Irvine
Irvine, CA

23. Project # 2019-051 (Ruiz)
Title: Baseline Assessment of Cancer Health Disparities in Underserved Populations in California
PI: Robert Bristow, MD, MBA
Co-PI: Kiran Clair, MD
University of California, Irvine
Irvine, CA
24. Project # 2019-045 (Ruiz)
   Title: The Heterogeneity of the Tumor Microenvironment and its Impact on Multiple Myeloma Survival
   Official Title: Administrative Supplements to Existing National Institutes of Health Grants and Cooperative Agreements (Parent Admin Supp – Clinical Trial Optional)
   PI: Wendy Cozen, DO, MPH
       University of Southern California
       Los Angeles, CA

I. Projects Requiring Periodic Review Only (Including Greater than Minimal Risk)

1. Project # 13-04-1191 (Ruiz)
   Title: Obstetric Management and Outcomes in California 2005–2012
   PI: Aaron Caughey, MD, PhD
   Co-PI: Blair Darney, PhD, MPH
       Oregon Health and Science University
       Portland, OR

2. Project # 2018-006 (Ruiz)
   Title: Prenatal Tobacco Smoke Exposure and Somatic Alterations in Childhood ALL
   PI: Adam de Smith, PhD
       University of Southern California
       Los Angeles, CA
   Co-PI: Catherine Metayer, MD, PhD
       University of California, Berkeley
       Berkeley, CA
       Joseph Wiemels, PhD
       University of San Francisco
       San Francisco, CA

3. Project # 15-10-2248 (Lowe)
   Title: Assessing the Incidence of Osteosarcoma Among Teriparatide Users Using Medicare Part D and State Cancer Registry Data
   PI: Alicia Gilsenan, PhD
   Co-PI: Elizabeth Andrews, PhD, MPH
       Research Triangle International
       Research Triangle Park, NC
4. Project # 2018-033 (Dickey)
Title: Late Effects in Multiethnic Population-Based Cohort of Childhood Cancer Survivors
PI: Amie Hwang, PhD
Co-PI: Dennis Deapen, DrPH
University of Southern California
Los Angeles, CA

5. Project # 16-12-2811 (Schaeuble)
Title: Environmental and Socioeconomic Factors Associated with West Nile Virus in the Northern San Joaquin Valley
PI: Andrea Joyce, PhD
University of California, Merced
Merced, CA

6. Project # 12-07-0565 (Dickey)
Title: Disparity in the Quality of Breast Cancer Treatment and Effect on Outcomes – Los Angeles Subcontract
PI: Ann Hamilton, PhD
University of Southern California
Los Angeles, CA

7. Project # 12-06-0426 (Dickey)
Title: Comparative Effectiveness of Treatments for Localized Prostate Cancer (CEASAR Study) – Los Angeles Subcontract
PI: Ann Hamilton, PhD
University of Southern California
Los Angeles, CA

8. Project # 16-10-2765 (Dickey)
Title: Surveillance, Epidemiology, and End Results (SEER) Registry Feasibility Study
PI: Ann Hamilton, PhD
University of Southern California
Los Angeles, CA

9. Project # 17-04-2950 (Dickey)
Title: Exploring Factors Related to Racial Disparities in Ovarian Cancer Incidence and Survival: The Ovarian Cancer in Women of African Ancestry Consortium
PI: Anna Wu, PhD
University of Southern California
Los Angeles, CA
10. Project # 12-10-0873 (Dinis)
   Title: Learning to Listen Ahead in English and Spanish
   PI: Anne Fernald, PhD
   Stanford University
   Stanford, CA

11. Project # 12-12-1013 (Schaeuble)
    Title: Applied Statistics for Pattern and Fraud Detection in Health Care Data
    PI: Artur Dubrawski, PhD
    Carnegie Mellon University
    Pittsburgh, PA

12. Project # 12-11-0893 (Dickey)
    Title: Pilot Study of Trends and Risks in Gestational Diabetes
    PI: Assiamira Ferrara, MD, PhD
    Kaiser Permanente
    Oakland, CA

13. Project # 16-09-2718 (Delgado)
    Title: Grandparental Exposures and Risk of Autism in the Third Generation
    PI: Barbara Cohn, PhD
    Co-PI: Gayle Windham, PhD
    University of California, Berkeley
    Berkeley, CA

14. Project # 2017-085 (Delgado)
    Title: Getting a Grip on Guiding Rage into Power (GRIP): Perceptions of Effects on
    Socio-Emotional Development and Behavioral Patterns in Two California
    State Prisons
    PI: Bowen Paulle, PhD
    University of Amsterdam
    Amsterdam, Netherlands

15. Project # 16-12-2801 (Schaeuble)
    Title: California Child Care Snapshot
    PI: Carlise King, MA
    Co-PI: Weilin Li, PhD
    Child Trends
    Bethesda, MD
16. Project # 12-12-0953 (Schaeuble)
Title: Parkinson's Registry Investigation of Diagnosis and Etiology (PRIDE) Study
PI: Caroline Tanner, MD, PhD
Co-PI: Samuel Goldman, MD, MPH
University of California, San Francisco
San Francisco, CA

17. Project # 15-01-1853 (Ruiz)
Title: Evaluation of Cal MediConnect
PI: Carrie Graham, PhD
Co-PI: H. Stephen Kaye, PhD
University of California, Santa Barbara
Santa Barbara, CA

18. Project # 2018-005 (Dickey)
Title: Support for Infrastructure of Childhood Leukemia Environmental Research
PI: Catherine Metayer, MD, PhD
Co-PI: Todd Whitehead, PhD
University of California, Berkeley
Berkeley, CA

19. Project # 13-01-1048 (Schaeuble)
Title: Research in Language and Cognitive Development
PI: Catherine Sandhofer, PhD
University of California, Los Angeles
Los Angeles, CA

20. Project # 13-12-1428 (Ruiz)
Title: Chronic Disease in California, 2007–2016
PI: Catrina Taylor, PhD
Co-PI: Brendan Darsie, MPH
California Department of Public Health
Sacramento, CA
21. Project # 14-04-1565 (Delgado)
Title: Mother and Infant Home Visiting Program Evaluation – Strong Start (MIHOPE – Strong Start)
PI: Charles Michalopoulos, PhD
Manpower Demonstration Research Corporation
Oakland, CA
Co-PI: Virginia Knox, PhD
Manpower Demonstration Research Corporation
New York, NY

22. Project # 12-11-0910 (Dinis)
Title: Comparative Effectiveness of Integration of Care Programs at Improving Metabolic Screening and Treatment of People with Severe Mental Illness
PI: Christina Mangurian, MD
University of California, San Francisco
San Francisco, CA

23. Project # 14-05-1581 (Molitor)
Title: Quality of Care for Patients with Kidney and Ureteral Stones in California
PI: Christopher Elliott, MD, PhD
Stanford University
Stanford, CA

24. Project # 16-01-2380 (Dickey)
Title: Environmental Conditions, Infectious Disease and Public Health
PI: Corey White
California Polytechnic State University
San Luis Obispo, CA
Co-PI: Olivier Deschenes, PhD
University of California, Santa Barbara
Santa Barbara, CA

25. Project # 12-11-0905 (Ruiz)
Title: Surveillance of Air Pollution and Related Cardiopulmonary Morbidity in California, 2000–2020
PI: Cynthia Garcia, BA
Co-PI: Hye-Youn Park, PhD in Epidemiology
Air Resources Board
Sacramento, CA
26. Project # 2018-047 (Dickey)
   Title: Evaluation of the Hub and Spoke: Statewide Medication Assisted Treatment Expansion Program
   PI: Darren Urada, PhD
       University of California, Los Angeles
       Los Angeles, CA

27. Project # 12-12-0969 (Dinis)
   Title: Psychometric Evaluation of Assessment Measures Used in the Substance Abuse and Mental Illness (SAMI) Program at Patton State Hospital
   PI: David Glassmire, PhD
       California Department of State Hospitals
       Patton, CA

28. Project # 12-07-0512 (Schaeuble)
   Title: Validation of Embedded Malingering Indices in the Wechsler Adult Intelligence Scale-Fourth Edition (WAIS-IV) in a Forensic Psychiatric Inpatient Population
   PI: David Glassmire, PhD
       California Department of State Hospitals
       Patton, CA

29. Project # 12-12-0986 (Lowe)
   Title: The Utility of the Structured Interview of Reported Symptoms (SIRS) and Miller-Forensic Assessment of Symptoms Test (MFAST) in a Forensic Inpatient Setting
   PI: David Glassmire, PhD
       California Department of State Hospitals
       Patton, CA

30. Project # 12-07-0506 (Lund)
    Title: The Impact of Physician Supply, Socioeconomic Status, and Insurance on Preventable Hospitalizations and Emergency Department Visits
    PI: David Zingmond, MD, PhD
    Co-PI: Roberto Vargas, MD
         University of California, Los Angeles
         Los Angeles, CA

31. Project # 14-11-1779 (Lowe)
    Title: Effect of Hospital Workload on Hospital Treatment and Outcome
    PI: Deepa Wani, PhD
        University of Texas at San Antonio
        San Antonio, CA
32. Project #  2018-007 (Schaeuble)
Title: Investigating the Role of Age Groups During Pertussis Outbreaks in California
PI: Edward Goldstein, PhD
Harvard University
Boston, MA

33. Project #  2018-080 (Ruiz)
Title: California Health and Human Services Record Reconciliation
PI: Emily Putnam-Hornstein, PhD
University of Southern California
Los Angeles, CA

34. Project #  2017-084 (Ruiz)
Title: Examining Choking Risks Within State Hospital Patients
PI: Erin Dengate
California Department of State Hospitals
Atascadero, CA

35. Project #  12-12-0950 (Schaeuble)
Title: Lessons in Epidemiology and Genetics of Adult Cancer from Youth (LEGACY): A Cohort of Youth in Families from the Breast Cancer Family Registry
PI: Esther John, PhD
Cancer Prevention Institute of California
Fremont, CA

36. Project #  16-04-2493 (Lund)
Title: Cancer Incidence Study of Marines/Navy Personnel and Civilian Employees Exposed to Contaminated Drinking Water at United States Marine Corps Base Camp Lejeune
PI: Frank Bove, ScD, MS
Centers for Disease Control and Prevention
Atlanta, GA

37. Project #  13-10-1398 (Ruiz)
Title: Birth Defects Study to Evaluate Pregnancy Exposures – California Component
PI: Gary Shaw, DrPH
Co-PI: Suzan Carmichael, PhD
Stanford University
Stanford, CA
38. Project # 12-11-0906 (Lund)
   Title: Using Population-Based Datasets to Generate and Test New Hypotheses for Investigating Preterm Births and Related Adverse Conditions in California
   PI: Gary Shaw, DrPH
   Co-PI: Paul Wise, MD, MPH
   Stanford University
   Stanford, CA

39. Project # 12-11-0924 (Dickey)
   Title: Candidate Genes and Congenital Malformations of Neural Crest Cell Origin
   PI: Gary Shaw, DrPH
   Co-PI: Suzan Carmichael, PhD
   Stanford University
   Stanford, CA

40. Project # 12-05-0219 (Lowe)
   Title: Multigenerational Familial and Environmental Risk for Autism (MINERvA) Network – California Population
   PI: Gayle Windham, PhD
   Co-PI: Martin Kharrazi, PhD
   California Department of Public Health
   Richmond, CA

41. Project # 2018-046 (Ruiz)
   Title: Hospital Markets in California
   PI: Glenn Melnick, PhD
   Research And Development Corporation
   Los Angeles, CA

42. Project # 12-11-0896 (Dinis)
   Title: Air Pollution and Autism in Southern California
   PI: Heather Volk, PhD
   Johns Hopkins University
   Baltimore, MD
   Co-PI: Rob McConnell, MD
   University of Southern California
   Los Angeles, CA
43. Project # 16-11-2778 (Ruiz)
   Title: Transition of Care for Patients with Complex Congenital Urological Conditions
   PI: Hillary Copp, MD
   University of California, San Francisco
   San Francisco, CA

44. Project # 12-11-0911 (Bazzano)
   Title: Markers of Autism Risk in Babies – Learning Early Signs (MARBLES)
   PI: Irva Hertz-Picciotto, PhD
   University of California, Davis
   Davis, CA

45. Project # 12-11-0900 (Dickey)
   Title: Childhood Autism Risks from Genetics and the Environment (the CHARGE Study)
   PI: Irva Hertz-Picciotto, PhD
   University of California, Davis
   Davis, CA

46. Project # 13-02-1083 (Lowe)
   Title: California Physicians’ Use of Health Information Technology
   PI: Janet Coffman, PhD
   University of California, San Francisco
   San Francisco, CA

47. Project # 2018-093 (Palacio)
   Title: Comparative Analysis of Police Force Effects on Birth Outcomes in the United States
   PI: Javier Rodriguez, PhD
   Co-PI: Carlos Alberto Echeverria-Estrada, Master's in Public Policy
   Claremont Graduate University
   Claremont, CA

48. Project # 16-11-2798 (Ruiz)
   Title: Assessing the Value of Aggressive Treatment of Low-Risk Prostate Cancer
   PI: Jean Mitchell, PhD
   Georgetown University
   Washington, D.C.
49. Project # 16-12-2813 (Ruiz)
   Title: Population-Based Assessment of Treatment Patterns and Outcomes among Women with Newly Diagnosed Ductal Carcinoma in Situ
   PI: Jean Mitchell, PhD
   Co-PI: Arnold Potosky, PhD
   Georgetown University
   Washington, D.C.

50. Project # 2018-010 (Palacio)
   Title: Pursing Health Equity through Restorative Practices in K–12 Schools
   PI: Jelena Todic, MSW, PhD Candidate
   University of Texas
   Austin, TX

51. Project # 2018-034 (Ruiz)
   Title: Reducing Isolation through Support and Empowerment (RISE)
   PI: Marci Eads, PhD
   Health Management Associates
   Sacramento, CA
   Co-PI: Rafael Colonna, PhD
   California Department of Public Health
   Sacramento, CA

52. Project # 14-12-1810 (Lowe)
   Title: Toddlers in Play Study
   PI: Jessica Grady, PhD
   University of the Pacific
   Stockton, CA

53. Project # 2018-004 (Palacio)
   Title: Evaluation of the Fathers Advancing Communities Together (FACT) Program
   PI: Jocelyn Fontaine, PhD
   Urban Institute
   Washington, D.C.

54. Project # 2018-042 (Delgado)
   Title: The Reliability of Experts’ Risk Assessments and Factors Related to Expert Decisions for Referral in Women, Infants, and Children 6600 Evaluations
   PI: Joseph Lockhart, PhD
   Co-PI: James Rokop, PhD
   California Department of State Hospitals
   Sacramento, CA
55. Project # 2017-143 (Ruiz)
   Title: The Impact of Enterprise Health Information Exchange on Organizational Performance and Local Health Care Markets
   PI: Joshua Vest, PhD, MPH
       Indiana University
       Bloomington, IN

56. Project # 2018-012 (Lund)
   Title: Immune Infiltrates in Breast Tumor Microenvironment, Health Disparity and Triple Negative Breast Cancer Survival in a Multi-Ethnic Population
   PI: Jun Wang, PhD
       University of Southern California
       Los Angeles, CA

57. Project # 12-10-0868 (Ruiz)
   Title: Survey of Body Burdens in California Communities
   PI: June-Soo Park, PhD
   Co-PI: Kim Hooper, PhD
       Department of Toxic Substance Control
       Oakland, CA

58. Project # 12-12-0997 (Molitor)
   Title: FoodNet Study of Escherichia Coli O157:H7 Infection: Antibiotic Exposure and the Risk of Hemolytic Uremic Syndrome
   PI: Katie Wymore, MPH
       California Emerging Infections Program
       Oakland, CA

59. Project # 17-01-2849 (Ruiz)
   Title: Congregate Care Reform Analysis
   PI: Kevin O'Connell, MA
       Chief Probation Officers of California
       Sacramento, CA

60. Project # 2018-031 (Palacio)
   Title: Program Evaluation of Human Immunodeficiency Virus Screening and Linkage to Care in California Correctional Health Care Services
   PI: Kimberley Lucas, MPH
       California Department of Corrections and Rehabilitation
       Sacramento, CA
<table>
<thead>
<tr>
<th>Project #</th>
<th>Title</th>
<th>PI</th>
<th>Institution</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-09-0702 (Dinis)</td>
<td>Predicting Adverse Pregnancy Outcomes</td>
<td>Laura Jelliffe, PhD</td>
<td>University of California, San Francisco</td>
<td>San Francisco, CA</td>
</tr>
<tr>
<td>14-12-1829 (Ruiz)</td>
<td>Champions for Change Media Campaign Evaluation</td>
<td>Lauren Whetstone, PhD</td>
<td>California Department of Public Health</td>
<td>Sacramento, CA</td>
</tr>
<tr>
<td>12-12-0956 (Dickey)</td>
<td>Replication of Draper Study of Leukemia, Brain Tumors and Distance to Power Lines in California</td>
<td>Leeka Kheifets, PhD</td>
<td>University of California, Los Angeles</td>
<td>Los Angeles, CA</td>
</tr>
<tr>
<td>12-11-0941 (Ruiz)</td>
<td>Development of the Brain Basis of Cognitive and Social Behavior in Human Infants</td>
<td>Leslie Carver, PhD</td>
<td>University of California, San Diego</td>
<td>La Jolla, CA</td>
</tr>
<tr>
<td>15-12-2350 (Palacio)</td>
<td>Outcomes of Nurse Practice Environments</td>
<td>Linda Aiken, RN, PhD</td>
<td>University of Pennsylvania</td>
<td>Philadelphia, PA</td>
</tr>
<tr>
<td>12-12-0958 (Palacio)</td>
<td>A Diverse Autism Registry for Effectiveness Studies</td>
<td>Lisa Croen, PhD</td>
<td>Kaiser Permanente</td>
<td>Oakland, CA</td>
</tr>
</tbody>
</table>
67. Project # 15-09-2245 (Dickey)
   Title: Making the Most of Women, Infants, and Children Foods: A Pilot Study to
   Examine Purchasing Decisions of Women, Infants, and Children Participants
   PI: Loan Kim, PhD, RD
   Pepperdine University
   Malibu, CA
   Co-PI: Shannon Whaley, PhD
   Public Health Foundation Enterprise Women, Infants, and Children
   Irwindale, CA

68. Project # 13-12-1462 (Dickey)
   Title: Racial/Ethnic and Gender Differences in Early Stage Non-Small Cell Lung
   Cancer
   PI: Lori Sakoda, MPH, PhD
   Kaiser Permanente
   Oakland, CA

69. Project # 17-06-3027 (Delgado)
   Title: School Food and Activity Culture and Its Association with Health and
   Learning
   PI: Lorraine Ritchie, PhD, RD
   University of California, Davis
   Davis, CA

70. Project # 12-06-0357 (Ruiz)
   Title: Ascertainment of Environmental Exposure During Pregnancy
   PI: Martin Kharrazi, PhD
   California Department of Public Health
   Oakland, CA

71. Project # 12-06-0355 (Dickey)
   Title: Gestational Age Measurement in California Birth Records
   PI: Martin Kharrazi, PhD
   California Department of Public Health
   Oakland, CA

72. Project # 12-11-0925 (Lowe)
   Title: Molecular Markers of Preterm Birth – Maternal and Infant Genetic
   Contributions to Preterm Birth: The Inflammatory Response
   PI: Martin Kharrazi, PhD
   California Department of Public Health
   Oakland, CA
73. Project # 2017-022 (Palacio)
   Title: Characteristics of Persons Admitted to State Prisons, 2009 and 2014
   PI: Matthew Durose, Masters of Science
        Department of Justice
        Washington, D.C.

74. Project # 2017-103 (Dinis)
   Title: Health at Birth and Adult Socio-Economic Outcomes
   PI: Maya Rossin-Slater, PhD
   Co-PI: Raj Chetty, PhD
          Stanford University
          Stanford, CA
          John Friedman, PhD
          Brown University
          Providence, RI
          W. Reed Walker, PhD
          University of California, Berkeley
          Berkeley, CA

75. Project # 12-11-0903 (Lowe)
   Title: Cohort Cancer Registry Follow-Up Study
   PI: Meir Stampfer, MD, DrPH
       Harvard University
       Cambridge, MA

76. Project # 2018-003 (Palacio)
   Title: A Comparison of Criminal and Violent Recidivism: Conditional Release
          Program-Released Patients and Directly-Discharged Patients by Legal
          Classification
   PI: Melinda DiCiro, PsyD
   Co-PI: Shiva Amin, PhD
          California Department of State Hospitals
          Sacramento, CA

77. Project # 16-10-2744 (Palacio)
   Title: California’s College and Career Readiness Standards in the Era of Common
          Core Assessments
   PI: Michal Kurlaender, PhD
   Co-PI: Jonathan Isler, PhD
          University of California, Davis
          Davis, CA
78. Project # 12-11-0945 (Dickey)
Title: Central Valley Autism Project, Incorporated: Early Intensive Behavioral Treatment Outcome Study
PI: Mieke San Julian, MA, BCBA
Central Valley Autism Project, Incorporated
Sacramento, CA

79. Project # 2018-030 (Ruiz)
Title: Whole Person Care (WPC) Pilot Evaluation Design
PI: Nadereh Pourat, PhD
University of California, Los Angeles
Los Angeles, CA

80. Project # 15-12-2363 (Ruiz)
Title: Risk of Second Cancers Among People with Human Immunodeficiency Virus/Acquired Immune Deficiency Syndrome
PI: Nancy Hessol, MSPH
University of California, San Francisco
San Francisco, CA

81. Project # 15-12-2357 (Dickey)
Title: Investigating Epidemiology and Long-Term Outcomes of Infectious Endocarditis
PI: Natalia Egorova, PhD
Mount Sinai School of Medicine
New York, NY

82. Project # 15-12-2344 (Dinis)
Title: Asian and Pacific Islander Community Exposures (ACE) Project
PI: Nerissa Wu, PhD
California Department of Public Health
Oakland, CA

83. Project # 16-10-2729 (Ruiz)
Title: Pancreatic Cystic Lesions: Descriptive Epidemiology and Natural History
PI: Paige Bracci, PhD, MS, MPH
University of California, San Francisco
San Francisco, CA
84. Project # 12-12-1006 (Dickey)
   Title: Molecular Epidemiology of Pancreatic Cancer
   PI: Paige Bracci, PhD, MS, MPH
        University of California, San Francisco
        San Francisco, CA

85. Project # 17-01-2834 (Dickey)
   Title: Participant Voices Study
   PI: Pat Crawford, DrPH, RD
   Co-PI: Wendi Gosliner, DrPH, RD
        University of California, Davis Natural and Agricultural Resources
        Davis, CA

86. Project # 2018-019 (Lund)
   Title: The Old Globe Theatre's Reflecting Shakespeare Program Evaluation
   PI: Patricia Saraniero, EdD
        Moxie Research
        San Diego, CA

87. Project # 2018-009 (Delgado)
   Title: Hospital Visits Due to External Causes of Injury: A Time Series Analysis
   PI: Peter Tuckel, PhD
   Co-PI: William Milczarski, PhD
        City University of New York
        New York, NY

88. Project # 13-09-1341 (Ruiz)
   Title: Disparities in the Surgical Treatment of Cancer Based on Race, Ethnicity, and Immigration Status
   PI: Philip Ituarte, PhD, MPH
   Co-PI: Jae Kim, MD
        City of Hope
        Duarte, CA

89. Project # 2017-040 (Perel)
   Title: Trends in the Use of Percutaneous Intervention in Congenital Heart Disease for Pediatric Patients
   PI: Rie Sakai-Bizmark, MD, MPH, PhD
        Los Angeles Biomedical Research Institute
        Torrance, CA
90. Project # 2018-020 (Dickey)
Title: The University of California San Diego Newborn Screening-Autism Risk Study
PI: Robert Naviaux, MD, PhD
University of California, San Diego
La Jolla, CA

91. Project # 12-12-0959 (Ruiz)
Title: Enhancement of Surveillance of Vaccine Preventable Diseases Using California Hospital Discharge and Death Data
PI: Robert Schechter, MD
Co-PI: Kathleen Harriman, PhD
California Department of Public Health
Oakland, CA

92. Project # 13-02-1085 (Ruiz)
Title: The Connie Wofsy Women's Human Immunodeficiency Virus Study (Northern CA Women’s Interagency Human Immunodeficiency Virus Study)
PI: Ruth Greenblatt, MD
University of California, San Francisco
San Francisco, CA

93. Project # 2018-041 (Dinis)
Title: Impact of Neighborhoods and Navigation on Survivorship
PI: Salma Shariff-Marco, PhD, MPH
Co-PI: Alyssa Nickell, PhD
University of California, San Francisco
San Francisco, CA

94. Project # 13-02-1084 (Dickey)
Title: Perinatal Regionalization and Quality of Care
PI: Scott A Lorch, MD, MSCE
University of Pennsylvania
Philadelphia, PA

95. Project # 2018-045 (Schaeuble)
Title: School Readiness Home Visits: Year 5 Evaluation of the Little by Little Program
PI: Shannon Whaley, PhD
Co-PI: Catherine Martinez, MPH
Public Health Foundation Enterprise Women, Infants, and Children
Irwindale, CA
96. Project # 13-08-1323 (Schaeuble)
Title: The Relationship Between the Rorschach Performance Assessment System Cognitive Processing Scales and Neuropsychological Status in a Conditional Release Offender Population
PI: Shay Groenewold, MA
Alliant International University
San Diego, CA

97. Project # 12-12-0949 (Dickey)
Title: Los Angeles Mommy and Baby (Lamb) Project
PI: Shin Chao, PhD
Los Angeles County
Los Angeles, CA

98. Project # 13-09-1350 (Ruiz)
Title: Los Angeles Mommy and Baby Project Follow Up Project (LAMB Follow-Up)
PI: Shin Chao, PhD
Los Angeles County
Los Angeles, CA

99. Project # 14-11-1799 (Ruiz)
Title: Exogenous Shocks In Utero and Infant Health: Evidence from California
PI: Shin-Yi Chou, PhD
Co-PI: Muzhe Yang, PhD
Lehigh University
Bethlehem, PA

100. Project # 12-11-0927 (Ruiz)
Title: Collection of Gene Mutations for Laboratory Quality Assurance
PI: Stanley Sciortino, MPH, PhD
Co-PI: Jeff Sanchez, BA
California Department of Public Health
Oakland, CA

101. Project # 15-11-2299 (Schaeuble)
Title: Insurance Coverage, Employment Status, and Copayments/Deductibles Faced by Young Women Diagnosed with Breast Cancer
PI: Sujha Subramanian, PhD
Research Triangle Park International
Research Triangle Park, NC
102. Project # 14-10-1750 (Schaeuble)
   Title: Kaiser Permanente Inter-Regional Behavioral Health Suicide Metric for
           Quality Improvement Benchmarking
   PI: Sumita Bhatia, MPH, MS
   Co-PI: Jean Flores, MPH
           Kaiser Permanente
           Oakland, CA

103. Project # 16-11-2793 (Ruiz)
   Title: Changes in Safety at High Desert State Prison: Official Data Analysis
   PI: Susan Turner, PhD
        University of California, Irvine
        Irvine, CA

104. Project # 2017-042 (Ruiz)
   Title: California Reducing Disparities Project Phase 2, Convivencia Local
          Evaluation
   PI: Susana Morales, MA
        California Department of Public Health
        Oakland, CA
   Co-PI: Rafael Colonna, PhD
          California Department of Public Health
          Sacramento, CA

105. Project # 12-11-0935 (Ruiz)
   Title: Foodborne Diseases Active Surveillance Network: Population Survey
   PI: Tanya Libby, MPH
   Co-PI: Duc Vugia, MD, MPH
          California Emerging Infections Program
          Oakland, CA

106. Project # 15-10-2260 (Dickey)
   Title: Collection of Confirmed Duchenne Muscular Dystrophy Positive and
          Presumptive Negative Newborn Screening Dried Blood Spot Specimens
   PI: Lisa Vershave
        Perkin Elmer
        Indianapolis, Indiana

106. Project # 17-04-2939 (Palacio)
   Title: Racial and Immigrant Generation Disparities in Birth Outcomes
   PI: Theresa Andrasfay, MA
        Princeton University
        Princeton, NJ
107. Project # 15-09-2210 (Dickey)
Title: Utilizing Electronic Health Records to Measure and Improve Prostate Cancer Care
PI: Tina Hernandez-Boussard, PhD
Co-PI: Scarlett L Gomez, PhD
Stanford University
Stanford, CA

108. Project # 12-07-0507 (Ruiz)
Title: Genome Wide Admixture for Multiple Myeloma in African Americans
PI: Wendy Cozen, DO, MPH
Co-PI: Christopher Haiman, ScD
University of Southern California
Los Angeles, CA

109. Project # 2018-013 (Ruiz)
Title: Host Factors, Tumor Microenvironment and Survival in a Multi-Ethnic Study of Hodgkin Lymphoma Patients
PI: Wendy Cozen, DO, MPH
University of Southern California
Los Angeles, CA

110. Project # 15-11-2298 (Trent)
Title: Opioid Use Disorders in Primary Care Settings: Linking Electronic Health Records with Prescription Drug Monitoring Program and National Death Index Data Systems
PI: Yih-Ing Hser, PhD
University of California, Los Angeles
Los Angeles, CA

111. Project # 15-03-1914 (Dickey)
Title: Geocoding Decedents' Home Addresses to Evaluate Health Impacts from Localized Sources of Air Pollution
PI: Virginia Lau, MS
Bay Area Air Quality Management District
San Francisco, CA
J. Projects with Major Revisions Requiring Periodic Review

1. Project # 12-11-0893 (Dickey)
   Title: Pilot Study of Trends and Risks in Gestational Diabetes
   PI: Assiamira Ferrara, MD, PhD
       Kaiser Permanente
       Oakland, CA

2. Project # 15-02-1885 (Ruiz)
   Title: Coordinating All Resources Effectively (CARE) for Children with Medical Complexity
   PI: Carlos Lerner, MD
       University of California, Los Angeles
       Los Angeles, CA

3. Project # 12-12-0962 (Ruiz)
   Title: The Utility of the Minnesota Multiphasic Personality Inventory-2, Minnesota Multiphasic Personality Inventory-2 Reconstructive Form, and Personality Assessment Inventory in a State Psychiatric Hospital
   PI: David Glassmire, PhD
       California Department of State Hospitals
       Sacramento, CA

4. Project # 13-10-1366 (Molitor)
   Title: The Children's Data Network/California Children's Services Archive
   PI: Emily Putnam-Hornstein, PhD
       Co-PI: Jacquelyn McCroskey, DSW
       University of Southern California
       Los Angeles, CA

5. Project # 14-08-1658 (Ruiz)
   Title: Environmental Health Tracking and Childhood Cancers in California
   PI: Julia Heck, PhD
       University of California, Los Angeles
       Los Angeles, CA

6. Project # 14-12-1829 (Ruiz)
   Title: Champions for Change Media Campaign Evaluation
   PI: Lauren Whetstone, PhD
       California Department of Public Health
       Sacramento, CA
7. Project # 12-05-0176 (Dickey)
   Title: California Health Interview Survey
   PI: Ninez Ponce, PhD
   Co-PI: Todd Hughes, BS
   University of California, Los Angeles
   Los Angeles, CA

8. Project # 17-07-3079 (Molitor)
   Title: Gestational Vitamin D and Relationship with Autism Spectrum Disorders
   PI: Rebecca Schmidt, PhD
   University of California, Davis
   Davis, CA

9. Project # 16-09-2711 (Ruiz)
   Title: Effect of Changing Neonatal Intensive Care Unit Patient Volumes and
   Levels of Care on Neonatal Outcomes
   PI: Scott A Lorch, MD, MSCE
   University of Pennsylvania
   Philadelphia, PA
   Co-PI: Ciaran Phibbs, PhD
   Stanford University
   Stanford, CA

10. Project # 16-06-2577 (Lund)
    Title: Developing a Patient-Level Risk Prediction Model for Prescription Opioid
    Overdose and Death
    PI: Stephen Henry, MD, MSc
    University of California, Davis
    Davis, CA
    Co-PI: Tina Farales, BA
    Department of Justice
    Sacramento, CA

11. Project # 17-01-2843 (Trent)
    Title: Local Community Health Needs Assessment Data
    PI: Warren Jensen, BA
    Gary Bess Associates
    Paradise, CA
K. Projects with Request for CPHS to Rely on Another IRB

1. Project # 2017-042 (Ruiz)
   Title: California Reducing Disparities Project Phase 2, Convivencia Local Evaluation
   PI: Susana Morales, MA
       California Department of Public Health
       Oakland, CA
   Co-PI: Rafael Colonna, PhD
       California Department of Public Health
       Sacramento, CA

L. Exemption/Determination Requests

1. Project # 2018-268 (Lowe)
   Title: Assessment of Responder Behavioral Health Practices Among Response Agencies
   PI: Jason Wilken, PhD
       California Department of Public Health
       Oakland, CA

2. Project # 2018-267 (Lowe)
   Title: Community Assessment of Preparedness for Emergency Response (CASPER) for Heat Preparedness, Imperial County
   PI: Jason Wilken, PhD
       California Department of Public Health
       Oakland, CA

3. Project # 2018-190 (Ruiz)
   Title: Medi-Cal Dental Utilization Rates for Children in Foster Care in Los Angeles County
   PI: Maritza Cabezas, DDS, MPH
       Los Angeles County
       Los Angeles, CA

4. Project # 2018-271 (Ruiz)
   Title: Interferon Gamma Release Assay Sensitivity Among Older Adults
   PI: Pennan Barry, MD
   Co-PI: Adam Readhead, PhD, MPH
       California Department of Public Health
       Oakland, CA
M. Final Reports

1. Project # 12-12-0985 (None)
   Title: Reproductive Outcomes Among Female Flight Attendants
   PI: Candice Johnson, PhD
   Co-PI: Christina Lawson, PhD
   National Institute of Occupational Safety and Health
   Atlanta, GA

2. Project # 13-01-1048 (None)
   Title: Research in Language and Cognitive Development
   PI: Catherine Sandhofer, PhD
   University of California, Los Angeles
   Los Angeles, CA

3. Project # 16-02-2427 (None)
   Title: The National Longitudinal Study of Adolescent to Adult Health – Project II: Birth Records
   PI: Jon Hussey, PhD, MPH
   University of North Carolina
   Chapel Hill, NC
   Co-PI: Jennifer Buher Kane, PhD
   University of California, Irvine
   Irvine, CA

4. Project # 12-12-1007 (None)
   Title: Colorectal Cancer Family Epigenetic Study Program
   PI: S. Pamela Shiao, PhD
   Augusta University
   Augusta, GA