



# California Initiative to Advance Precision Medicine

## California Initiative to Advance Precision Medicine Request for Proposals 2016

### Justification for selecting the demonstration projects that are awarded and list of demonstration projects that were not selected.

The *California Initiative to Advance Precision Medicine*, established by AB 1602, Chapter 24, Statutes of 2016, under Chapter 1.5 of Division 1 of Title 7 of the Government Code, convened the CIAPM Selection Committee to evaluate proposals submitted in response to CIAPM RFP 2016, and identify up to 6 demonstration projects for funding, at a total cost of up to \$7.2 million. Applications were assessed in a comprehensive peer review selection process in keeping with NIH process. 29 concept proposals were reviewed by the selection committee, and 10 were selected as finalists and invited to submit full proposals.

After the two rounds of evaluation by the expert [selection committee](#), [6 proposals](#) were selected for funding as 2016 CIAPM Demonstration Projects:

- **Nicholas Anderson, UC Davis.** Personal mobile and contextual precision health.
- **Sheldon Greenfield, UC Irvine.** Precision Medicine for Early Prostate Cancer: Integrating Biological and Patient Complexity Variables to Predict Treatment Response.
- **David Martin, Children's Hospital Oakland Research Institute.** Full genome analysis of children to guide precision medicine.
- **Pratik Mukherjee, UC San Francisco.** Artificial Intelligence for Imaging of Neurologic Emergencies: From Images to Precision Medicine.
- **Brennan Spiegel, Cedars-Sinai Medical Center.** Early Prediction of Major Adverse Cardiovascular Event Surrogates Using Remote Monitoring with Biosensors, Biomarkers, and Patient-Reported Outcomes.
- **Walter Stewart, Sutter Health.** Precision Medicine for MS: Making It Work.

After thorough review of the proposals, the committee deemed these six proposals best met the criteria as specified in [statute](#) and put forward in the CIAPM [RFP 2016](#). These proposals were viewed as most scientifically meritorious, innovative, collaborative, and together comprise a diverse portfolio, representing different disease areas, approaches and focus areas by which CIAPM and the State of California can best advance Precision Medicine in the long term and most immediately improve patient lives.

There was great enthusiasm for all finalist proposals, which represent diverse precision medicine activities throughout the state of California. Selecting 6 proposals was a difficult decision for the committee to make. The titles of the finalist proposals not selected for funding are:

- Building state of the art genomic diagnosis for California's health
- Center for Precision Metabolic Health
- Enabling precision medicine through efficient linking of molecular profiling and clinical data in the EHR

- Interactive web-based approach for outcomes research and precision medicine in multiple sclerosis

Other projects submitted to CIAPM at the concept proposal stage and reviewed by the selection committee were:

- Central Valley of California Precision Medicine of Melanoma
- Connecting genetic insights with personalized diet and medicine for future prevention and treatment of major metabolic disease
- Customized gene editing in prioritized patients to cure sickle cell disease
- Detecting medically relevant genetic diversity in California
- Improving neonatal outcomes through precision medicine
- Integrating Pharmacogenetic Testing in Real-World Practice
- Pathway toward diagnosing and monitoring prodromal Alzheimer's Disease using novel imaging biomarkers
- Patient-centered studies of rapid genome sequencing for diagnosis of genetic diseases in Hispanic/Latino infants receiving neonatal intensive care
- “Personalized App for Patient Generated Data, Engagement, EHR and Risk Assessment”  
Project 1: Recruitment and engagement
- “Personalized App for Patient Generated Data, Engagement, EHR and Risk Assessment”  
Project 2: Biobanking and genome sequencing
- “Personalized App for Patient Generated Data, Engagement, EHR and Risk Assessment”  
Project 3: Data integration and management
- “Personalized App for Patient Generated Data, Engagement, EHR and Risk Assessment”  
Project 4: Precision medicine economics
- Population-based precision oncology for colorectal cancer: psychosocial, clinical, and budget impact
- Precision medicine for lung adenocarcinoma
- Precision Medicine for Predicting Chemotherapy-Induced Cardiotoxicity
- Precision Medicine: A Biomarker for Thromboembolism in Cancer Patients.
- The UC-PRIME Transplant Initiative
- Tidepool: A free, open source platform enabling precision care and research for Type 1 Diabetes.
- University of California Precision Medicine Multi-Modality Imaging Platform

If there is interest in any of the listed projects, please contact [CIAPM](#) and we will facilitate interaction with the applicants.