**Cluster 0:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Center for Cell Circuits | BROAD INSTITUTE, INC. | P50 | 2015 | 0.34 |
| Neuromodulatory control of collective circuit dynamics in C. elegans | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | R01 | 2020 | 0.34 |
| High Resolution Connectomics of Mammalian Neural Circuits | HARVARD UNIVERSITY | R01 | 2015 | 0.33 |
| Instructive Signals for Motor Learning | STANFORD UNIVERSITY | R01 | 2019 | 0.28 |
| Neural control of skilled movements: an ethological dissection of genetically tractable mammalian motor circuits | SALK INSTITUTE FOR BIOLOGICAL STUDIES | DP2 | 2019 | 0.24 |

**Cluster 1:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Leveraging National Sleep Research Resource Data for Personalized Sleep Profiling | BRIGHAM AND WOMEN'S HOSPITAL | R01 | 2020 | 0.41 |
| Sleep Health Profiles in Middle-aged Workers in Relation to Cardiovascular and Cognitive Health | UNIVERSITY OF SOUTH FLORIDA | R56 | 2020 | 0.41 |
| Administrative Supplement for Sleep and Cardiometabolic Health Disparities at the US/Mexico Border: The Nogales Cardiometabolic Health and Sleep (NoCHeS) Study | UNIVERSITY OF ARIZONA | R01 | 2019 | 0.4 |
| The Health and Behavioral Effects of Sleep Deprivation Among the Urban Poor in India | UNIVERSITY OF PENNSYLVANIA | K01 | 2020 | 0.38 |
| Sleep and Cardiometabolic Health Disparities at the US/Mexico Border: The Nogales Cardiometabolic Health and Sleep (NoCHeS) Study | UNIVERSITY OF ARIZONA | R01 | 2020 | 0.38 |

**Cluster 2:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| High performance PET Detector Module for Human Brain Imaging | CANON MEDICAL RESEARCH USA, INC. | R01 | 2020 | 9.5e-05 |
| AC/DC: Artificial intelligence and Computer visioning to assess Dietary Composition | TUFTS UNIVERSITY BOSTON | R21 | 2020 | -0.0013 |
| Building protein structure models for intermediate resolution cryo-electron microscopy maps | PURDUE UNIVERSITY | R01 | 2020 | -0.0015 |
| Development of label-free computational flow cytometry for high-throughput micro-organism classification | BOSTON UNIVERSITY (CHARLES RIVER CAMPUS) | R21 | 2019 | -0.0015 |
| Physically Realistic Virtual Surgery | RENSSELAER POLYTECHNIC INSTITUTE | R01 | 2020 | -0.0015 |

**Cluster 3:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Automated quantitative CT imaging of epicardial adipose tissue and risk of cardiac events | CEDARS-SINAI MEDICAL CENTER | R01 | 2019 | 0.18 |
| CorBand: A novel wearable wrist sensor for heart failure remote monitoring | RETHINK MEDICAL, INC. | R44 | 2017 | 0.16 |
| Transition from Risk Factors to Early HF: Prevalence, Pathogenesis, and Phenomics | WAKE FOREST UNIVERSITY HEALTH SCIENCES | R01 | 2018 | 0.16 |
| Charting a New Course for Heart Failure: From Discovery to Data | KEYSTONE SYMPOSIA | R13 | 2020 | 0.16 |
| Innovative MRI-based Characterization of Cardiac Dyssynchrony | RUTGERS, THE STATE UNIV OF N.J. | R01 | 2018 | 0.15 |

**Cluster 4:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Background parenchymal uptake (BPU) on molecular breast imaging as a novel breast cancer risk factor | MAYO CLINIC ROCHESTER | R21 | 2016 | 0.37 |
| Informatics Techniques to Optimize Mammography for Aging Populations | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2016 | 0.36 |
| Quantitative Parenchyma Descriptor as an Imaging Biomarker of Breast Cancer Risk | UNIVERSITY OF MICHIGAN AT ANN ARBOR | U01 | 2019 | 0.35 |
| Collagen structural changes as an early biomarker for breast carcinoma | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2019 | 0.33 |
| A computer model to improve breast cancer diagnosis | UNIVERSITY OF WISCONSIN-MADISON | K07 | 2010 | 0.32 |

**Cluster 5:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Neurocomputational mechanisms of proactive social behavior deficits in autism spectrum disorder | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | R01 | 2020 | 0.3 |
| Investigating quantitative signatures of autism in toddlers | COLUMBIA UNIVERSITY TEACHERS COLLEGE | R01 | 2020 | 0.27 |
| Neural Correlates of Biological Motion Perception in Children with ASD | SEATTLE CHILDREN'S HOSPITAL | K01 | 2018 | 0.26 |
| Novel video-based approaches for detection of autism risk in the first year of life | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.26 |
| Harmonization for multisite Connectomics: parsing heterogeneity and creating markers in ASD | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.25 |

**Cluster 6:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Drug repurposing for Alzheimer's disease using structural systems pharmacology. | HUNTER COLLEGE | R01 | 2019 | 0.33 |
| Drug repurposing for Alzheimer's disease using structural systems pharmacology | HUNTER COLLEGE | R56 | 2017 | 0.33 |
| Assessing ASL CBF as a biomarker for early Alzheimer's disease detection and disease progression | UNIVERSITY OF MARYLAND BALTIMORE | R01 | 2020 | 0.32 |
| Using connectomics to characterize risk for Alzheimer's Disease | MEDICAL UNIVERSITY OF SOUTH CAROLINA | R01 | 2020 | 0.32 |
| Molecular Networks Underlying Resilience to Alzheimer's Disease Among APOE E4 Carriers | YALE UNIVERSITY | R01 | 2020 | 0.32 |

**Cluster 7:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Tracing the evolution of the human mutation rate | STANFORD UNIVERSITY | F32 | 2017 | 0.3 |
| Computational evaluation of the causal role of somatic mutations in human aging | ALBERT EINSTEIN COLLEGE OF MEDICINE | K99 | 2019 | 0.29 |
| Massively parallel functional analyses of human PTEN variants | OREGON HEALTH & SCIENCE UNIVERSITY | F31 | 2019 | 0.27 |
| A statistical framework to systematically characterize cancer driver mutations in noncoding genomic regions | DANA-FARBER CANCER INST | R21 | 2020 | 0.26 |
| Molecular impact of mutations in monogenic disease and cancer | UNIV OF MARYLAND, COLLEGE PARK | R01 | 2018 | 0.26 |

**Cluster 8:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Algorithms to Identify Systemic Lupus from Electronic Health Record Data | NORTHWESTERN UNIVERSITY AT CHICAGO | R21 | 2018 | 0.096 |
| From enrichment to insights | STANFORD UNIVERSITY | R01 | 2020 | 0.085 |
| Automated Detection of Anomalous Accesses to Electronic Health Records | VANDERBILT UNIVERSITY MEDICAL CENTER | R01 | 2017 | 0.083 |
| Biases introduced by filtering electronic health records for patients with "complete data" | HARVARD MEDICAL SCHOOL | R01 | 2020 | 0.077 |
| Semi-supervised Algorithms for Risk Assessment with Noisy EHR Data | HARVARD SCHOOL OF PUBLIC HEALTH | R21 | 2020 | 0.075 |

**Cluster 9:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Development of epidermal, wireless sensor tattoos for non-invasive monitoring of biofluid composition | TUFTS UNIVERSITY MEDFORD | F32 | 2016 | 0.059 |
| User-driven Retrospectively Supervised Classification Updating (RESCU) system for robust upper limb prosthesis control | INFINITE BIOMEDICAL TECHNOLOGIES, LLC | U44 | 2020 | 0.051 |
| User-driven Retrospectively Supervised Classification Updating (RESCU) systemfor robust upper limb prosthesis control | INFINITE BIOMEDICAL TECHNOLOGIES, LLC | U44 | 2019 | 0.051 |
| Slicer+PLUS: Collaborative, open-source software for ultrasound analysis | KITWARE, INC. | R01 | 2019 | 0.047 |
| Context Understanding Technology to improve internet accessibility for users with | VORTANT TECHNOLOGIES, LLC | R44 | 2015 | 0.044 |

**Cluster 10:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| A Theranostic Tool to Assess and Enable Spared Spinal Motor Function After SCI | NEUROENABLING TECHNOLOGIES, INC. | R43 | 2014 | 0.17 |
| Restoring arm and hand motor function with non-invasive spinal stimulation. | NEUROENABLING TECHNOLOGIES, INC. | R43 | 2013 | 0.16 |
| Spinal Epidural Electrode Array to Facilitate Standing and Stepping After SCI | UNIVERSITY OF CALIFORNIA LOS ANGELES | R01 | 2012 | 0.16 |
| Enabling forelimb function with agonist drug and epidural stimulation in SCI | UNIVERSITY OF CALIFORNIA LOS ANGELES | U01 | 2017 | 0.14 |
| MRI and machine learning to improve early prognosis and clinical management after spinal cord injury | UNIVERSITY OF COLORADO DENVER | R03 | 2020 | 0.13 |

**Cluster 11:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Development of a novel medication adherability tool to improve cardiovascular disease management | BRIGHAM AND WOMEN'S HOSPITAL | K01 | 2020 | 0.26 |
| Improving Adherence and Outcomes by Artificial Intelligence-Adapted Text Messages | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R21 | 2015 | 0.25 |
| Personalized multimedication packaging with integrated real-time instrumentation to improve adherence | INSIGHTFIL | R43 | 2019 | 0.25 |
| Personalized Patient data and behavioral nudges to improve adherence to chronic cardiovascular medications | UNIVERSITY OF COLORADO DENVER | UH3 | 2020 | 0.23 |
| Evaluation of multiple medication exposures concurrently using a novel algorithm | UNIVERSITY OF PENNSYLVANIA | K08 | 2020 | 0.19 |

**Cluster 12:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Center for the Study of Aphasia Recovery (C-STAR) | UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA | P50 | 2020 | 0.41 |
| Neural Correlates of Recovery from Aphasia After Stroke | VANDERBILT UNIVERSITY MEDICAL CENTER | R01 | 2020 | 0.4 |
| Academy of Aphasia Research and Training Symposium | BOSTON UNIVERSITY (CHARLES RIVER CAMPUS) | R13 | 2020 | 0.38 |
| Neural correlates of recovery from aphasia after acute stroke | VANDERBILT UNIVERSITY MEDICAL CENTER | R01 | 2018 | 0.33 |
| Transcranial Magnetic Stimulation for Aphasia: Efficacy and Neural Basis | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.32 |

**Cluster 13:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Perception of dysarthric speech: An objective model of dysarthric speech evaluation with actionable outcomes | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R01 | 2020 | 0.36 |
| Speech Prosody and Articulatory Dynamics in Spoken Language | UNIVERSITY OF SOUTHERN CALIFORNIA | R01 | 2016 | 0.35 |
| Objectively Quantifying Speech Outcomes of Children with Cleft Palate | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R21 | 2019 | 0.33 |
| Dynamics of Vocal Tract Shaping | UNIVERSITY OF SOUTHERN CALIFORNIA | R01 | 2020 | 0.32 |
| Functional Architecture of Speech Motor Cortex | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | U01 | 2018 | 0.32 |

**Cluster 14:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| 3D Image Analysis Approach to Determine Severity and Cause of Optic Nerve Edema | UNIVERSITY OF IOWA | R01 | 2017 | 0.25 |
| Functional and Structural Optical Coherence Tomography for Glaucoma | OREGON HEALTH & SCIENCE UNIVERSITY | R01 | 2019 | 0.16 |
| SCH: Proactive Health Monitoring Using Individualized Analysis of Tissue Elastic\* | UNIV OF NORTH CAROLINA CHAPEL HILL | R01 | 2016 | 0.15 |
| Prostate-cancer Imaging by Combined Ultrasound and Magnetic-resonance Parameters | RIVERSIDE RESEARCH INSTITUTE | R01 | 2014 | 0.14 |
| Multi-Modality Quantitiative Imaging for Evaluation of Response to Cancer Therapy | JOHNS HOPKINS UNIVERSITY | U01 | 2015 | 0.14 |

**Cluster 15:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Transforming Analytical Learning in the Era of Big Data | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R25 | 2020 | 0.19 |
| Administrative Supplement Request for Transforming Analytical Learning in the Era of Big Data | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R25 | 2016 | 0.18 |
| Fisk University/UIUC-Mayo KnowENG BD2K Center R25 Partnership | FISK UNIVERSITY | R25 | 2019 | 0.16 |
| Summer Institute for Statistics of Big Data | UNIVERSITY OF WASHINGTON | R25 | 2016 | 0.15 |
| The Big DIPA: Data Image Processing and Analysis | UNIVERSITY OF CALIFORNIA-IRVINE | R25 | 2017 | 0.14 |

**Cluster 16:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Statistical methods for vitamin D targets for functional outcomes in older adults | UNIVERSITY OF MARYLAND BALTIMORE | R01 | 2019 | 0.15 |
| Voice2Connect: Informing the Design of Smart Speakers for Social Connectedness in Low-Income Older Adults | VIRGINIA COMMONWEALTH UNIVERSITY | R03 | 2020 | 0.15 |
| Uncovering and Surveilling Financial Deception Risk in Aging | UNIVERSITY OF FLORIDA | R01 | 2020 | 0.15 |
| A Personalized Health Behavior System to Promote Well-Being in Older Adults | WEILL MEDICAL COLL OF CORNELL UNIV | R01 | 2020 | 0.14 |
| Uncovering and Surveilling Financial Deception Risk in Aging (Alzheimer's Disease Supplement to 1R01AG057764-01A1) | UNIVERSITY OF FLORIDA | R01 | 2019 | 0.14 |

**Cluster 17:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Micropublications for Automating Genome Sequence Variant Interpretation from Medical Literature | GENOMENON, INC. | R43 | 2019 | 0.21 |
| Comprehensive Characterization of Missense Mutants in Factor IX | BLOODWORKS | R01 | 2020 | 0.21 |
| Clinically Relevant Genome Variation Database | STANFORD UNIVERSITY | U01 | 2016 | 0.2 |
| Predicting causal non-coding variants in a founder population | STANFORD UNIVERSITY | R01 | 2017 | 0.19 |
| F-CAP: Functionalization of Variants in Clinically Actionable Pharmacogenes | UNIVERSITY OF WASHINGTON | R24 | 2017 | 0.19 |

**Cluster 18:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Nasal biomarkers of asthma | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | R01 | 2019 | 0.12 |
| Multi-Omics Analysis of the Association of Polyunsaturated Fatty Acids with Asthma and Allergy in Childhood | BRIGHAM AND WOMEN'S HOSPITAL | K08 | 2020 | 0.095 |
| Perinatal Origins of Asthma | UNIVERSITY OF ILLINOIS AT CHICAGO | F30 | 2020 | 0.078 |
| Clustering to identify novel phenotypes in childhood asthma | UNIVERSITY OF WISCONSIN-MADISON | F30 | 2013 | 0.075 |
| SCH: kHealth: Semantic Multisensory Mobile Approach to Personalized Asthma Care | WRIGHT STATE UNIVERSITY | R01 | 2018 | 0.075 |

**Cluster 19:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Computational methods for modeling lineage-specific gene regulation | STANFORD UNIVERSITY | R01 | 2016 | 0.19 |
| Learning Regulatory Drivers of Chromatin and Expression Dynamics during Nuclear Reprogramming | STANFORD UNIVERSITY | R01 | 2019 | 0.15 |
| Computational Inference of Regulatory Network Dynamics on Cell Lineages | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2020 | 0.15 |
| Computational approaches for comparative regulatory genomics to decipher long-range gene regulation | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2020 | 0.15 |
| Global Discovery and Validation of Functional Regulatory Elements | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R00 | 2017 | 0.14 |

**Cluster 20:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Administrative Supplement to The When to Worry about Language Study (W2W-L) | NORTHWESTERN UNIVERSITY | R01 | 2020 | 0.29 |
| The When to Worry about Language Study (W2W-L): Joint consideration of developmental patterning and neural substrates for enhancing earlyidentification of language impairment | NORTHWESTERN UNIVERSITY | R01 | 2020 | 0.28 |
| Automatic Voice-Based Assessment of Language Abilities | OREGON HEALTH & SCIENCE UNIVERSITY | R01 | 2020 | 0.28 |
| Distributional Learning in Children with Language Impairment | UNIVERSITY OF IOWA | F31 | 2017 | 0.27 |
| Identification of treatment parameters that maximize language treatment efficacy for children. | UNIVERSITY OF ARIZONA | R01 | 2019 | 0.27 |

**Cluster 21:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Big Data analytics of HIV treatment gaps in South Carolina: Identification and prediction | UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA | R01 | 2020 | 0.34 |
| Big Data Analysis of HIV Risk and Epidemiology in Sub-Saharan Africa | STANFORD UNIVERSITY | R01 | 2020 | 0.3 |
| Gene Network Identification and Integration (GNetii) Approach to Understanding the Biology Underlying HIV and Drug Abuse. | RESEARCH TRIANGLE INSTITUTE | R01 | 2020 | 0.3 |
| Developing an artificial intelligence-based mHealth intervention to increase HIV testing in Malaysia | YALE UNIVERSITY | R21 | 2020 | 0.3 |
| Defining the impact of injection drug use on antiretroviral therapy and HIV treatment outcomes: an (epi)genomic approach | YALE UNIVERSITY | R01 | 2020 | 0.29 |

**Cluster 22:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Scalable Assays for Morphological Analysis of Mammalian Neurons | HARVARD MEDICAL SCHOOL | R01 | 2014 | 0.086 |
| Uncovering Population-Level Cellular Relationships to Behavior via Mesoscale Networks | DUKE UNIVERSITY | R01 | 2019 | 0.078 |
| Crowd coding in the brain:3D imaging and control of collective neuronal dynamics | UNIV OF MARYLAND, COLLEGE PARK | U01 | 2016 | 0.072 |
| Exocytosis fuels plasma membrane expansion in developing neurons | UNIV OF NORTH CAROLINA CHAPEL HILL | R01 | 2020 | 0.067 |
| Emergence of Functional Network Dynamics from Single Cell Properties | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | R35 | 2020 | 0.066 |

**Cluster 23:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| ABCD-USA Consortium:Research Project | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | U01 | 2019 | 0.16 |
| ABCD-USA Consortium: Research Project | UNIVERSITY OF CALIFORNIA, SAN DIEGO | U01 | 2019 | 0.15 |
| Using Machine Learning Approaches to Examine Emotion-Related Brain Activity and Substance Use Among Adolescents | GEORGE MASON UNIVERSITY | F31 | 2020 | 0.12 |
| ABCD-USA Consortium: Data Analysis Center | UNIVERSITY OF CALIFORNIA, SAN DIEGO | U24 | 2019 | 0.11 |
| Testing Scalable, Single-Session Interventions for Adolescent Depression in the context of COVID-19 | STATE UNIVERSITY NEW YORK STONY BROOK | DP5 | 2020 | 0.11 |

**Cluster 24:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Genetic & epigenetic analysis of angiogenesis genes in recurrent prostate cancer | H. LEE MOFFITT CANCER CTR & RES INST | R01 | 2012 | 0.33 |
| Gene-Gene Interactions and Their Functional Roles in Prostate Cancer Aggressiveness | LSU HEALTH SCIENCES CENTER | R21 | 2017 | 0.32 |
| Predicting the Presence of Clinically Significant Prostate Cancer using Multiparametric MRI and MR-US Fusion Biopsy | UNIVERSITY OF CALIFORNIA LOS ANGELES | R21 | 2019 | 0.32 |
| Development of a Multimodal Deep Learning Model for the Generation of Cancer Probability Maps and Imaging Biomarkers for Prostate Cancer using Multiparametric MRI | UNIVERSITY OF CALIFORNIA LOS ANGELES | F30 | 2018 | 0.28 |
| Image Analysis Tools for mpMRI Prostate Cancer Diagnosis Using PI-RADS | EIGEN HEALTH SERVICES LLC | R42 | 2020 | 0.27 |

**Cluster 25:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Reliable Seizure Prediction Using Physiological Signals and Machine Learning | MAYO CLINIC ROCHESTER | R01 | 2019 | 0.49 |
| Assessment of Peripherally Circulating Plasma Proteins and Clinical Risks to Differentiate Epileptic Seizure from Psychogenic Nonepileptic Seizure | EVOGEN, INC. | R43 | 2019 | 0.47 |
| Neurophysiologically Based Responsive Pharmacotherapy for Epilepsy | MAYO CLINIC ROCHESTER | U01 | 2013 | 0.43 |
| Dynamics of long range network interactions in focal epilepsy | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2020 | 0.43 |
| Algorithm for the Real-Time Detection of Absence Seizures from Oculometric Data | EYSZ, INC. | R43 | 2020 | 0.42 |

**Cluster 26:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Rules for penetrating the Gram-negative bacterial envelope | UNIVERSITY OF KENTUCKY | R56 | 2018 | 0.12 |
| Peripheral Nerve-on-a-chip for Predictive Preclinical Pharmaceutical Testing | AXOSIM, INC. | R42 | 2018 | 0.11 |
| Phenotypic assay for drug discovery and personalized medicine based on real-time vibrational spectroscopy enhanced by plasmonic metasurfaces | CORNELL UNIVERSITY | R21 | 2020 | 0.11 |
| MegaTrans – human transporter machine learning models | COLLABORATIONS PHARMACEUTICALS, INC. | R41 | 2019 | 0.1 |
| Development of a Biocatalytic Platform for Convergent Synthesis of Chiral Amines | CALIFORNIA INSTITUTE OF TECHNOLOGY | R01 | 2020 | 0.1 |

**Cluster 27:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Real-time fMRI neurofeedback of large-scale network dynamics in opioid use disorder | YALE UNIVERSITY | R21 | 2020 | 0.19 |
| Project FIGARO - Factors Important to Gather for Anticipating Relapses for Opioids | BEHAIVIOR, LLC | R43 | 2018 | 0.18 |
| Project Motivate: A digital motivation and prediction platform to improve treatment retention and reduce relapse in opioid use disorder | BIOMOTIVATE, LLC | R43 | 2020 | 0.16 |
| Technology Improving Success of Medication-Assisted Treatment in Primary Care | Q2I, LLC | R42 | 2020 | 0.16 |
| Using Machine Learning to Predict Problematic Prescription Opioid Use and Opioid Overdose | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2019 | 0.16 |

**Cluster 28:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Mid-frontal delta/theta rhythms and cognitive control in PD | UNIVERSITY OF IOWA | R01 | 2020 | 0.41 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson???s Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2014 | 0.38 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson's Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2017 | 0.38 |
| Multi-tissue high-throughput proteomic and genomic study in Parkinson's Disease | WASHINGTON UNIVERSITY | R01 | 2020 | 0.37 |
| Analytic Methods for Determining Multimodal Biomarkers for Parkinson's Disease | COLUMBIA UNIVERSITY HEALTH SCIENCES | U18 | 2014 | 0.36 |

**Cluster 29:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Omics Data Integration to Identify Disease Pathways in COPD | UNIVERSITY OF COLORADO DENVER | R21 | 2018 | 0.2 |
| Machine Learning Development for Subtyping COPD | BRIGHAM AND WOMEN'S HOSPITAL | K25 | 2020 | 0.2 |
| A diagnostic model for malignant pulmonary nodules | UNIVERSITY OF MARYLAND BALTIMORE | R21 | 2020 | 0.19 |
| EARLY DETECTION OF LUNG CANCER USING METABOLOMIC LIPID PROFILING | RUSH UNIVERSITY MEDICAL CENTER | R21 | 2014 | 0.19 |
| Autoimmunity as a Mechanism for Atherosclerosis in COPD | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | K23 | 2019 | 0.19 |

**Cluster 30:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Center for Environmental Genetics | UNIVERSITY OF CINCINNATI | P30 | 2017 | 0.043 |
| Psoriasis Center of Research Translation | CASE WESTERN RESERVE UNIVERSITY | P50 | 2020 | 0.032 |
| Integrating multidimensional genomic data to discover clinically-relevant predictive models | UNIVERSITY OF ALABAMA AT BIRMINGHAM | R00 | 2020 | 0.032 |
| NIDA Center of Excellence OF Computational Drug Abuse Research (CDAR) | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | P30 | 2018 | 0.032 |
| HERCULES: Exposome Research Center | EMORY UNIVERSITY | P30 | 2019 | 0.031 |

**Cluster 31:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Central glutamate signaling in postoperative pain regulation - Renewal | NEW YORK UNIVERSITY SCHOOL OF MEDICINE | R01 | 2020 | 0.46 |
| Neuroimaging-based biomarkers for two components of pain | COLUMBIA UNIV NEW YORK MORNINGSIDE | RC1 | 2010 | 0.46 |
| fMRI-based Biomarkers for Multiple Components of Pain | UNIVERSITY OF COLORADO | R01 | 2017 | 0.46 |
| Molecular Epidemiology of Neuropathic Pain in Head and Neck Cancer | UNIVERSITY OF TX MD ANDERSON CAN CTR | R01 | 2016 | 0.45 |
| Autonomous Pain Recognition in Non-Verbal and Critically Ill Patients | UNIVERSITY OF FLORIDA | R21 | 2020 | 0.45 |

**Cluster 32:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| How Cannabis Use Affects Alcohol Treatment Outcomes | PUBLIC HEALTH INSTITUTE | R21 | 2016 | 0.31 |
| Mediators and Moderators of a Neighborhood Experiment on Alcohol Use | UNIVERSITY OF MINNESOTA | R21 | 2017 | 0.31 |
| Ambulatory assessment of alcohol use, mood dysregulation, and alcohol craving | UNIVERSITY OF MISSOURI-COLUMBIA | R21 | 2014 | 0.29 |
| NCANDA: DATA ANALYSIS RESOURCE | SRI INTERNATIONAL | U24 | 2020 | 0.27 |
| Development of a novel photocatalytic system for direct deoxyfunctionalization of alcohols involving machine learning | PRINCETON UNIVERSITY | F32 | 2019 | 0.27 |

**Cluster 33:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Improving Critical Congenital Heart Disease Screening and Detection of "Secondary" Targets | UNIVERSITY OF CALIFORNIA AT DAVIS | R21 | 2020 | 0.18 |
| Comprehensive Colorectal Cancer Risk Prediction to Inform Personalized Screening | FRED HUTCHINSON CANCER RESEARCH CENTER | R01 | 2020 | 0.18 |
| Innovative text-mining tools to accelerate citation screening: comparative efficiency and impact on conclusions | ECRI INSTITUTE | R03 | 2018 | 0.18 |
| Familial hypercholesterolemia screening in children: population impact of phenotype, genotype, and cascade approaches | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2020 | 0.17 |
| Improving Cancer Screening Through A Tailored Technology-Based Intervention | MEDICAL UNIVERSITY OF SOUTH CAROLINA | R61 | 2020 | 0.16 |

**Cluster 34:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Multi-point and multi-locus analysis of genomic association data | CASE WESTERN RESERVE UNIVERSITY | R01 | 2010 | 0.077 |
| Machine Learning Prediction of Cancer Susceptibility | UNIVERSITY OF PENNSYLVANIA | R01 | 2014 | 0.075 |
| Accelerating Curation of GWAS Catalog by Automatic Text Mining | UNIVERSITY OF CALIFORNIA, SAN DIEGO | U01 | 2015 | 0.074 |
| Genome-Wide Association Analysis of Bladder Cancer | UNIVERSITY OF TX MD ANDERSON CAN CTR | U01 | 2012 | 0.074 |
| Machine learning to identify predictive SNPs and complex interaction effects | VIRGINIA POLYTECHNIC INST AND ST UNIV | R21 | 2010 | 0.067 |

**Cluster 35:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Computational genome-wide RNA profiling using next-generation sequencing | UNIVERSITY OF PENNSYLVANIA | R01 | 2016 | 0.13 |
| Programmable RNA-targeting CRISPR-Cas tools to study RNA biology | UNIVERSITY OF ROCHESTER | R35 | 2020 | 0.13 |
| Structure, function, and dynamics of viral RNAs and RNA-containing complexes | UNIVERSITY OF COLORADO DENVER | R35 | 2020 | 0.12 |
| An Automated RNA 3D Structure Determination System | NYMIRUM, INC. | R44 | 2016 | 0.096 |
| Revealing Principles of Subcellular RNA Localization by Proximity Labeling | STANFORD UNIVERSITY | K99 | 2020 | 0.093 |

**Cluster 36:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Mentoring in Immunometabolic Dysregulation in TB and TB/HIV | JOHNS HOPKINS UNIVERSITY | K24 | 2020 | 0.11 |
| Transcriptomics of Tuberculosis Latency and Reactivation in Primates | TULANE UNIVERSITY OF LOUISIANA | R01 | 2013 | 0.11 |
| Machine Learning for Integrative Modeling of the Immune System in Clinical Settings | STANFORD UNIVERSITY | R35 | 2020 | 0.11 |
| Identifying individuals at risk of progression to active tuberculosis | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R01 | 2020 | 0.1 |
| Comprehensive analysis of human adaptive immune receptors to elucidate correlates of Epstein-Barr virus disease suppression | UNIVERSITY OF KANSAS LAWRENCE | DP5 | 2020 | 0.097 |

**Cluster 37:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Models for synthesising molecular, clinical and epidemiological data, and transla | U OF L IMPERIAL COL OF SCI/TECHNLGY/MED | U01 | 2018 | 0.13 |
| Point-of-care antimicrobial susceptibility testing based on simultaneous tracking of multi-phenotypic features of single bacterial cells | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R01 | 2020 | 0.12 |
| Preventing antimicrobial resistance and infections in hospitalized neonates in low resource settings | JOHNS HOPKINS UNIVERSITY | K23 | 2020 | 0.12 |
| Integrated Microbial Screening and Antimicrobial Susceptibility Test on Microfluidic Digital Array for Diagnosis of Urinary Tract Infections | COMBINATI, INC. | R41 | 2019 | 0.12 |
| Rapid and broad pathogen profiling system for infection in newborn | MELIOLABS INC. | R43 | 2019 | 0.12 |

**Cluster 38:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Southern California Clinical Center of the Type 1 Diabetes in Acute Pancreatitis Consortium | CEDARS-SINAI MEDICAL CENTER | U01 | 2020 | 0.17 |
| Validation of Survey Questions to Distinguish Type 1 and Type 2 Diabetes Among Adults With Diabetes | WESTAT, INC. | U01 | 2017 | 0.15 |
| Clinical, Radiologic and Biochemical Factors Related to Diabetes Development after Acute Pancreatitis | JOHNS HOPKINS UNIVERSITY | U01 | 2020 | 0.15 |
| Statistical methods for healthcare in complex patients with diabetes | FRED HUTCHINSON CANCER RESEARCH CENTER | R01 | 2019 | 0.13 |
| Action for Health in Diabetes Brain Magnetic Resonance Imaging Ancillary Study | WAKE FOREST UNIVERSITY HEALTH SCIENCES | R01 | 2014 | 0.13 |

**Cluster 39:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Towards cortical visual prosthetics | BOSTON CHILDREN'S HOSPITAL | R21 | 2010 | 0.22 |
| Neural and Behavioral Interactions Between Attention, Perception, and Learning | PRINCETON UNIVERSITY | R01 | 2015 | 0.21 |
| Representation of information across the human visual cortex | UNIVERSITY OF CALIFORNIA BERKELEY | R01 | 2018 | 0.21 |
| Bioinformatics Approaches to Visual Disease Genetics | DARTMOUTH COLLEGE | R01 | 2014 | 0.16 |
| CRCNS: Neural Reprensentation of Hierarchical Visual Concepts in Natural Scenes | CARNEGIE-MELLON UNIVERSITY | R01 | 2014 | 0.16 |

**Cluster 40:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| A Real-Time Computational System for Detecting ARDS Using Ventilator Waveform Data | UNIVERSITY OF CALIFORNIA AT DAVIS | F31 | 2020 | 0.57 |
| Data-Driven Identification of the Acute Respiratory Distress Syndrome | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K01 | 2020 | 0.55 |
| Rule Based Semantics and Big Data Based Methods for Early Identification of Patients at Risk of Acute Respiratory Distress Syndrome (ARDS) | COMPUTER TECHNOLOGY ASSOCIATES, INC. | R43 | 2017 | 0.55 |
| TREAT ECARDS: Translating Evidence into Action: Electronic Clinical Decision Support in ARDS | ALBERT EINSTEIN COLLEGE OF MEDICINE | R18 | 2020 | 0.53 |
| Acute Respiratory Distress Syndrome after Isolated Traumatic Brain Injury: Platelet Biology, Endothelial Activation, and Mechanical Ventilation | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | K23 | 2020 | 0.53 |

**Cluster 41:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Sleep apnea after stroke: Implications for screening and treatment | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2019 | 0.3 |
| Whole Genome RNA Sequencing (RNAseq) of Blood from Patients with Lacunar Stroke | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2019 | 0.3 |
| Fast and Easy Assessment of Stroke | ALVA HEALTH, INC. | R43 | 2019 | 0.29 |
| Prediction Model for Incident Stroke for Early Screening of an Individual at Risk of Stroke | IHEALTHSCREEN, INC. | R43 | 2018 | 0.29 |
| Whole Transcriptome Studies of Patients with Transient Ischemic Attacks (TIAs) | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.28 |

**Cluster 42:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Digital Monitoring of Agitation for Short-Term Suicide Risk Prediction | MASSACHUSETTS GENERAL HOSPITAL | K23 | 2020 | 0.11 |
| Multimodal Assessment of Near-term Risk Processes for Suicide Ideation and Behavior | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2020 | 0.11 |
| Decision Processes of Late-Life Suicide | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2018 | 0.11 |
| Predicting Self-Harm, Suicide Attempt, and Suicidal Death using Longitudinal EHR, Claims and Mortality Data | WEILL MEDICAL COLL OF CORNELL UNIV | R01 | 2020 | 0.1 |
| Using multimodal imaging and the RDoC framework to predict risk factors for suicide attempt | YALE UNIVERSITY | R03 | 2020 | 0.098 |

**Cluster 43:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| The New Tics Study: A Novel Approach to Pathophysiology and Cause of Tic Disorders | WASHINGTON UNIVERSITY | R01 | 2020 | 0.14 |
| PREDICTING OUTCOME IN CHILDREN WITH NEW-ONSET TICS USING NEUROIMAGING DATA | WASHINGTON UNIVERSITY | R21 | 2016 | 0.14 |
| Innovative Research Methods to Study Children with Multiple Chronic Conditions | BOSTON CHILDREN'S HOSPITAL | R21 | 2014 | 0.14 |
| Multi-Site Validation Study of the HLHS Arrest Predictor | BAYLOR COLLEGE OF MEDICINE | R01 | 2020 | 0.14 |
| Effect of complex mixtures on oxidative stress and cognition in children | STATE UNIVERSITY OF NEW YORK AT BUFFALO | R01 | 2020 | 0.13 |

**Cluster 44:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Prediction of Major Adverse Kidney Events and Recovery (Pred-MAKER) in COVID-19 Patients | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | R01 | 2020 | 0.25 |
| Promoting Utilization of Kidneys by Improving Patient Level Decision Making | NORTHWESTERN UNIVERSITY | R21 | 2017 | 0.24 |
| Development and Validation of Computational Algorithms to Assess Kidney Health in Electronic Health Records | UNIVERSITY OF FLORIDA | K01 | 2020 | 0.23 |
| 2019 STONE LAB SCIENTIFIC SYMPOSIUM: THINKING OUTSIDE THE BOX FOR KIDNEY STONE DISEASE | AMERICAN UROLOGICAL ASSOCIATION | U13 | 2019 | 0.22 |
| High content in vivo screening for acute kidney injury ameliorating drugs | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2019 | 0.21 |

**Cluster 45:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Self Correcting Nanoflow LC-MS for Clinical Proteomics | UNIVERSITY OF WASHINGTON | R01 | 2016 | 0.19 |
| Optimization and joint modeling for peptide detection by tandem mass spectrometry | UNIVERSITY OF WASHINGTON | R01 | 2020 | 0.18 |
| A New Model of Peptide Fragmentation for Improved Protein Identification and Targ | UNIVERSITY OF COLORADO | R01 | 2015 | 0.16 |
| Computational approaches to protein identification and quantification using MS/MS | INDIANA UNIVERSITY BLOOMINGTON | R01 | 2015 | 0.14 |
| Machine learning analysis of tandem mass spectra | UNIVERSITY OF WASHINGTON | R01 | 2014 | 0.14 |

**Cluster 46:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Estimating Population Effects in Mental Health Research Using Meta-Analysis | DUKE UNIVERSITY | R00 | 2020 | 0.26 |
| Discovery of Mental Health and Inflammation (MHAIN) Interactome | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2015 | 0.23 |
| Impact of Telemedicine on Medicare Beneficiaries with Mental Illness | HARVARD MEDICAL SCHOOL | R01 | 2019 | 0.22 |
| Ethical, Legal and Social Implications in the Use of Digital Technology for Mental Health Applications | STANFORD UNIVERSITY | K01 | 2020 | 0.19 |
| CBTpro: Scaling up CBT for psychosis using simulated patients and spoken language technologies | LYSSN.IO, INC. | R42 | 2020 | 0.19 |

**Cluster 47:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Predicting brain tumor progression via multiparametric image analysis and modelin | UNIVERSITY OF PENNSYLVANIA | R01 | 2018 | 0.24 |
| Molecular Characterization of Parotid Gland Tumors | UNIVERSITY OF CALIFORNIA LOS ANGELES | R56 | 2012 | 0.21 |
| Engineering personalized micro-tumor ecosystems | BRIGHAM AND WOMEN'S HOSPITAL | U01 | 2020 | 0.21 |
| Exploring the Role of Mitochondrial Fission in Pancreatic Tumorigenesis | UNIVERSITY OF VIRGINIA | R01 | 2017 | 0.2 |
| Quantitative Multimodal Image Guidance for Improved Liver Cancer Treatment | YALE UNIVERSITY | R01 | 2020 | 0.19 |

**Cluster 48:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Structural Development of Human Fetal Brain | CHILDREN'S HOSP OF PHILADELPHIA | R01 | 2020 | 0.17 |
| The origin and significance of appearance-based stereotypes. | UNIVERSITY OF TEXAS, AUSTIN | R01 | 2014 | 0.15 |
| Automated Assessment of Neurodevelopment in Infants at Risk for Motor Disability | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.15 |
| Cerebral Palsy Risk Identification System | NEUROCOMP SYSTEMS, INC. | R43 | 2019 | 0.12 |
| The microbiome as a potential mediator of socio-economic disparities in preterm infant neurodevelopmental trajectories from NICU discharge to school age | UNIVERSITY OF CHICAGO | UG3 | 2017 | 0.11 |

**Cluster 49:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Metal binding sites in macromolecular structures | UNIVERSITY OF VIRGINIA | R01 | 2019 | 0.19 |
| Binding-Site Modeling with Multiple-Instance Machine-Learning | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | R01 | 2020 | 0.16 |
| Computational models for the signaling of tumor necrosis factor receptor on cell surfaces | ALBERT EINSTEIN COLLEGE OF MEDICINE | R01 | 2020 | 0.16 |
| Algorithmic identification of binding specificity mechanisms in proteins | LEHIGH UNIVERSITY | R01 | 2020 | 0.16 |
| Data-Driven Approaches for Molecular Docking | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | R01 | 2013 | 0.15 |