**Cluster 0**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| A Multisite Neurobehavioral Assessment of Fetal Alcohol Spectrum Disorders | SAN DIEGO STATE UNIVERSITY | U01 | 2020 | 0.28 |
| Spectrum of and Nutritional Risk Factors for FASD in Russia and Ukraine | UNIVERSITY OF CALIFORNIA, SAN DIEGO | U01 | 2011 | 0.27 |
| Mouse Model Neuro-Facial Dysmorphology: Tanslational and Treatment Studies | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | U01 | 2011 | 0.27 |
| Administrative Core of the CIFASD | SAN DIEGO STATE UNIVERSITY | U24 | 2020 | 0.23 |
| 3D Facial Imaging in FASD (U01) | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | U01 | 2008 | 0.21 |

**Cluster 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Computerized Adaptive Suicidal Risk Stratification and Prediction | ADAPTIVE TESTING TECHNOLOGIES | R44 | 2020 | 0.081 |
| Digital Monitoring of Agitation for Short-Term Suicide Risk Prediction | MASSACHUSETTS GENERAL HOSPITAL | K23 | 2020 | 0.079 |
| Risk Profiles for Suicidal Behavior in the General Population | BOSTON UNIVERSITY MEDICAL CAMPUS | R01 | 2019 | 0.069 |
| Suicide Death Among Older Adults Receiving Residential Long-term Care | UNIVERSITY OF ROCHESTER | RF1 | 2018 | 0.067 |
| Treatment Utilization Before Suicide (TUBS) | HENRY FORD HEALTH SYSTEM | R01 | 2018 | 0.066 |

**Cluster 2**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Mid-frontal delta/theta rhythms and cognitive control in PD | UNIVERSITY OF IOWA | R01 | 2020 | 0.026 |
| Noninvasive imaging-based electrophysiology using microelectronic devices | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | R01 | 2015 | 0.022 |
| Quantitative Tools for Investigating Sensory Systems | UNIVERSITY OF CALIFORNIA BERKELEY | R01 | 2010 | 0.018 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson's Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2017 | 0.017 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson???s Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2014 | 0.017 |

**Cluster 3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| DNA Methylation and gene expression variations influence pituitary adenoma hormonal function and invasive growth | UNIVERSITY OF SOUTHERN CALIFORNIA | R01 | 2020 | 0.094 |
| Revealing the transcriptomic basis of neuronal identity through functional meta-analysis | COLD SPRING HARBOR LABORATORY | R01 | 2020 | 0.077 |
| The adaptive potential of translational regulation | NEW YORK UNIVERSITY | F32 | 2020 | 0.075 |
| Learning the rules of enhancer activity to understand non-coding genetic variation in autoimmune disease | BROAD INSTITUTE, INC. | K99 | 2019 | 0.065 |
| Point Impact and Sparsity in Functional Data Analysis. | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2014 | 0.064 |

**Cluster 4**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Gene-Gene Interactions and Their Functional Roles in Prostate Cancer Aggressiveness | LSU HEALTH SCIENCES CENTER | R21 | 2017 | 0.33 |
| Genetic & epigenetic analysis of angiogenesis genes in recurrent prostate cancer | H. LEE MOFFITT CANCER CTR & RES INST | R01 | 2012 | 0.33 |
| CLINICAL AND EPIDEMIOLOGICAL CENTER--PROSTATE CANCER | JOHNS HOPKINS UNIVERSITY | U01 | 2004 | 0.32 |
| Modifiable Risk Factors for Fatal Prostate Cancer: A Prospective Study In Asia | VANDERBILT UNIVERSITY | R03 | 2013 | 0.31 |
| MRI Imaging and Biomarkers for Early Detection of Aggressive Prostate Cancer | UNIVERSITY OF MIAMI SCHOOL OF MEDICINE | U01 | 2020 | 0.3 |

**Cluster 5**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Data-Mining Clinical Decision Support from Electronic Health Records | STANFORD UNIVERSITY | K01 | 2019 | 0.13 |
| Objective decision support environment for clinical trials | MAYO CLINIC ROCHESTER | U01 | 2016 | 0.093 |
| PHORA: A Clinical Decision Support Tool for Patients with Pulmonary Arterial Hypertension | OHIO STATE UNIVERSITY | R01 | 2020 | 0.083 |
| DECISION SUPPORT SOFTWARE TO TRIAGE FOR SKIN CANCER | WEST PORTAL SOFTWARE CORPORATION | R44 | 2000 | 0.077 |
| Machine Learning Clinical Order Recommendations for Specialty Consultation Care | STANFORD UNIVERSITY | R56 | 2020 | 0.072 |

**Cluster 6**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Assessing ASL CBF as a biomarker for early Alzheimer's disease detection and disease progression | UNIVERSITY OF MARYLAND BALTIMORE | R01 | 2020 | 0.29 |
| Disparities in the Diagnosis of Alzheimer's Disease Among African American and European American Veterans | SEATTLE INST FOR BIOMEDICAL/CLINICAL RES | R56 | 2018 | 0.28 |
| Computational Prediction and Functional Validation of Novel Epigenetic Risk Loci in Alzheimer's Disease | EMORY UNIVERSITY | R56 | 2018 | 0.27 |
| Temporal Trends, Novel Imaging and Molecular Characterization of Preclinical and Clinical Alzheimer's Disease in the Framingham Cohorts | UNIVERSITY OF TEXAS HLTH SCIENCE CENTER | R01 | 2020 | 0.26 |
| Using connectomics to characterize risk for Alzheimer's Disease | MEDICAL UNIVERSITY OF SOUTH CAROLINA | R01 | 2020 | 0.25 |

**Cluster 7**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Data-Driven Approaches for Molecular Docking | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | R01 | 2013 | 0.11 |
| Advanced approaches to protein structure prediction | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R35 | 2020 | 0.11 |
| Very large datasets and new models to predict and design protein interactions | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | R01 | 2014 | 0.1 |
| Computational modulator design and machine learning to target protein-protein interactions | NEW YORK UNIVERSITY | R35 | 2020 | 0.1 |
| Structural bioinformatics software for epitope selection and antibody engineering | DNASTAR, INC. | R44 | 2015 | 0.099 |

**Cluster 8**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| PEDIATRIC ASTHMA DISPARITIES: PERCEPTIONS AND MANAGEMENT | RHODE ISLAND HOSPITAL | U01 | 2008 | 0.52 |
| Asthma ascertainment and characterization through electronic health records | MAYO CLINIC ROCHESTER | R01 | 2017 | 0.47 |
| Nasal biomarkers of asthma | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | R01 | 2019 | 0.46 |
| DISPARITIES IN ASTHMA AMONG ELDERLY IN WEST TEXAS | TEXAS TECH UNIVERSITY HEALTH SCIS CENTER | R03 | 2003 | 0.45 |
| Secondary use of EMR for residency training in asthma care and documentation | MAYO CLINIC ROCHESTER | R21 | 2020 | 0.44 |

**Cluster 9**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| A New Model of Peptide Fragmentation for Improved Protein Identification and Targ | UNIVERSITY OF COLORADO | R01 | 2015 | 0.3 |
| Vitamin D, Epstein-Barr virus infection, and cigarette smoking and risk of multip | HARVARD SCHOOL OF PUBLIC HEALTH | R01 | 2015 | 0.29 |
| Improving Diagnosis of Multiple Sclerosis Through the Integration of Novel Imaging and Laboratory Biomarkers | UNIVERSITY OF VERMONT & ST AGRIC COLLEGE | K02 | 2020 | 0.29 |
| Sequential Ion/Ion Reactions for Large Peptide and Whole Protein Characterization | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2015 | 0.25 |
| Novel Strategies to Identify GxE Contributions to MS Pathogenesis | UNIVERSITY OF CALIFORNIA BERKELEY | R01 | 2015 | 0.25 |

**Cluster 10**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Speech Prosody and Articulatory Dynamics in Spoken Language | UNIVERSITY OF SOUTHERN CALIFORNIA | R01 | 2016 | 0.31 |
| Functional Architecture of Speech Motor Cortex | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | U01 | 2018 | 0.29 |
| SPEECH MOVEMENT CLASSIFICATION FOR ASSESSING AND TREATING ALS | MGH INSTITUTE OF HEALTH PROFESSIONS | R01 | 2018 | 0.28 |
| Speech Movement Classification for Assessing and Treating ALS | MGH INSTITUTE OF HEALTH PROFESSIONS | R01 | 2017 | 0.28 |
| INTELLIGIBILITY ASSESSMENT IN DYSARTHRIA | UNIVERSITY OF WISCONSIN MADISON | R01 | 2005 | 0.27 |

**Cluster 11**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| fMRI-based Biomarkers for Multiple Components of Pain | UNIVERSITY OF COLORADO | R01 | 2017 | 0.39 |
| Mechanistic Characterization of Pain in Temporomandibular Disorders: Does Pain Centralization Influence Responsiveness to Peripherally Targeted Treatments? | EMORY UNIVERSITY | R00 | 2020 | 0.38 |
| Neuroimaging-based biomarkers for two components of pain | COLUMBIA UNIV NEW YORK MORNINGSIDE | RC1 | 2010 | 0.38 |
| Development of a deep neural network to measure spontaneous pain from mouse facial expressions | UNIV OF NORTH CAROLINA CHAPEL HILL | R01 | 2020 | 0.37 |
| A Multimodal Approach for Monitoring Prolonged Acute Pain in Neonates | UNIVERSITY OF SOUTH FLORIDA | R21 | 2020 | 0.37 |

**Cluster 12**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Migraine, Migraine Medication Use, and Risk of Breast Cancer | FRED HUTCHINSON CANCER RESEARCH CENTER | R03 | 2010 | 0.15 |
| Discovery and Clinical Validation of Cancer Biomarkers Using Printed Glycan Array | NEW YORK UNIVERSITY SCHOOL OF MEDICINE | U01 | 2011 | 0.14 |
| Mitochondrial Haplogroups and Breast Cancer Risk | BRIGHAM AND WOMEN'S HOSPITAL | R03 | 2008 | 0.14 |
| Predicting risk of cardiotoxicity among young and emerging adult breast cancer patients from treatment to survivorship | NORTHWESTERN UNIVERSITY AT CHICAGO | K01 | 2020 | 0.14 |
| Quantitative Parenchyma Descriptor as an Imaging Biomarker of Breast Cancer Risk | UNIVERSITY OF MICHIGAN AT ANN ARBOR | U01 | 2019 | 0.13 |

**Cluster 13**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| NorthStar Node of the Clinical Trials Network | HENNEPIN HEALTHCARE RESEARCH INSTITUTE | UG1 | 2020 | 0.021 |
| Implementation of Practice Standards for ECG Monitoring | YALE UNIVERSITY | R01 | 2012 | 0.017 |
| Suicide Prediction and Prevention for People at Risk for Opioid Use Disorder | HENNEPIN HEALTHCARE RESEARCH INSTITUTE | UG1 | 2020 | 0.016 |
| Analyzing Online Reviews to Evaluate Quality of Care at Substance Use Disorder Treatment Facilities | UNIVERSITY OF PENNSYLVANIA | R21 | 2020 | 0.014 |
| Great Lakes Node of the Drug Abuse Clinical Trials Network | RUSH UNIVERSITY MEDICAL CENTER | UG1 | 2020 | 0.014 |

**Cluster 14**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 | 0.39 |
| Big Data Analysis of HIV Risk and Epidemiology in Sub-Saharan Africa | STANFORD UNIVERSITY | R01 | 2020 | 0.36 |
| Addressing Major HIV Prevention and Health Outcomes Questions in an Era of Universal ART: Mentoring in a Community-Randomized Trial | BRIGHAM AND WOMEN'S HOSPITAL | K24 | 2020 | 0.36 |
| HIV Testing, Linkage and Retention in Care: Contextual Factors and Disparities | UNIVERSITY OF CALIFORNIA LOS ANGELES | R01 | 2017 | 0.35 |
| Developing an artificial intelligence-based mHealth intervention to increase HIV testing in Malaysia | YALE UNIVERSITY | R21 | 2020 | 0.35 |

**Cluster 15**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Enhancing an EMR-Based Real-Time Sepsis Alert System Performance through Machine Learning | WAYNE STATE UNIVERSITY | R21 | 2017 | 0.4 |
| Using Big Data to Understand Sepsis in an Immunocompromised Population | UNIVERSITY OF WASHINGTON | F31 | 2020 | 0.39 |
| Sepsis Early Prediction and Subphenotype Illumination Study (SEPSIS) | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2020 | 0.36 |
| Sepsis Early Prediction and Subphenotype Illumination Study (SEPSIS) | UNIVERSITY OF CHICAGO | R01 | 2019 | 0.36 |
| Using clinical treatment data in a machine learning approach for sepsis detection | DASCENA, INC. | R43 | 2018 | 0.36 |

**Cluster 16**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Novel video-based approaches for detection of autism risk in the first year of life | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.17 |
| Evaluating Plasma and Urine Porphyrins as Biomarkers of ASD | BATTELLE CENTERS/PUB HLTH RES & EVALUATN | R21 | 2015 | 0.16 |
| Investigating quantitative signatures of autism in toddlers | COLUMBIA UNIVERSITY TEACHERS COLLEGE | R01 | 2020 | 0.16 |
| Autoscreen: An innovative e-health solution for early identification of autism spectrum disorder | ADAPTIVE TECHNOLOGY CONSULTING, LLC | R43 | 2018 | 0.15 |
| Novel computer vision-based assessment of infant-caregiver synchrony as an early level II screening tool for autism | CHILDREN'S HOSP OF PHILADELPHIA | R21 | 2020 | 0.15 |

**Cluster 17**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Transformative Computational Infrastructures for Cell-Based Biomarker Diagnostics | J. CRAIG VENTER INSTITUTE, INC. | U01 | 2020 | 0.042 |
| Cell line identification with DNA replication timing fingerprints | INSILICOM, LLC | R43 | 2019 | 0.032 |
| Turning a sequence barcode into a spectral barcode for single-cell analysis. | UNIVERSITY OF TEXAS, AUSTIN | R21 | 2020 | 0.029 |
| iFACS: Imaging Florescence Activated Cell Sorter to sort cells based on images | NANOCELLECT BIOMEDICAL, INC. | R44 | 2018 | 0.028 |
| SPOTs: Optical Technologies for Instantly Quantifying Multicellular Response Profiles | UNIVERSITY OF CALIFORNIA LOS ANGELES | R01 | 2020 | 0.027 |

**Cluster 18**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Reducing disparities in colorectal cancer screening in Vietnamese Americans | CANCER PREVENTION INSTIT OF CALIFORNIA | R01 | 2012 | 0.3 |
| Identifying Receipt of Colorectal Cancer Screening | VANDERBILT UNIVERSITY | R21 | 2008 | 0.3 |
| Mammography Visits to Improve Colon Cancer Screening | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K07 | 2009 | 0.29 |
| Increasing CRC Screening in Primary Care Settings | UNIVERSITY OF ILLINOIS | R01 | 2007 | 0.28 |
| Promoting Colon Cancer Screening Among African Amercians | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | R01 | 2010 | 0.28 |

**Cluster 19**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| MDCT Quantification of hepatic tumor viability for assessment of cancer therapy | IQ MEDICAL IMAGING, LLC | R42 | 2019 | 0.12 |
| Systems Microscopy Analysis of Tumor Cell Motility in Microenvironment Context | TEMPLE UNIV OF THE COMMONWEALTH | R00 | 2017 | 0.12 |
| Systems microscopy analysis of tumor cell motility in microenvironment context | ALBERT EINSTEIN COLLEGE OF MEDICINE | K99 | 2014 | 0.12 |
| Quantitative Multimodal Image Guidance for Improved Liver Cancer Treatment | YALE UNIVERSITY | R01 | 2020 | 0.1 |
| Genotype and phenotype predictors in therapy response in renal cell carcinoma | UNIVERSITY OF PENNSYLVANIA | R01 | 2013 | 0.092 |

**Cluster 20**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Clinically Relevant Genome Variation Database | STANFORD UNIVERSITY | U01 | 2016 | 0.11 |
| EMR Phenotype and Community Engaged Genomic Associations | MAYO CLINIC ROCHESTER | U01 | 2014 | 0.11 |
| Statistical Tests for Mapping Genetic Determinants of Complex Traits | EMORY UNIVERSITY | R01 | 2019 | 0.096 |
| Optimizing Genetic Testing for Deafness for Clinical Diagnostics | UNIVERSITY OF IOWA | R01 | 2020 | 0.086 |
| Discovery and analysis of structural variation in whole genome sequences | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2016 | 0.086 |

**Cluster 21**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Histopathology correlated quantitative analysis of lung nodules with LDCT for early detection of lung cancer | UNIVERSITY OF MICHIGAN AT ANN ARBOR | U01 | 2020 | 0.22 |
| Computer Aided Diagnosis of Lung Cancer | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2006 | 0.21 |
| Macro-vasculature: A Novel Image Biomarker of Lung Cance | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2020 | 0.2 |
| A diagnostic model for malignant pulmonary nodules | UNIVERSITY OF MARYLAND BALTIMORE | R21 | 2020 | 0.19 |
| A Computer Tool for Aiding in Accurate Assessment of Indeterminate Lung Nodules | INTERNATIONAL INTELLIGENT INFOR/SOLU/LAB | R44 | 2019 | 0.18 |

**Cluster 22**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Detection of Glaucoma Progression with Macular OCT Imaging | UNIVERSITY OF CALIFORNIA LOS ANGELES | K23 | 2016 | 0.39 |
| Functional and Structural Optical Coherence Tomography for Glaucoma | OREGON HEALTH & SCIENCE UNIVERSITY | R01 | 2020 | 0.37 |
| Medical Advice from Glaucoma Informatics (MAGI) | UNIVERSITY OF CALIFORNIA SAN DIEGO | R33 | 2005 | 0.36 |
| Diagnostic Innovations in Glaucoma: Clinical Electrophysiology | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R21 | 2008 | 0.34 |
| A hybrid artificial intelligence framework for glaucoma monitoring | UNIVERSITY OF TENNESSEE HEALTH SCI CTR | R21 | 2020 | 0.34 |

**Cluster 23**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Multimodal image registration by proxy image synthesis | JOHNS HOPKINS UNIVERSITY | R01 | 2015 | 0.054 |
| Development and Dissemination of MuscleMiner: An Imaging Informatics System for Muscle | UNIVERSITY OF FLORIDA | R01 | 2016 | 0.051 |
| Development and Dissemination of MuscleMiner: An Imaging Informatics Tool for Mus | UNIVERSITY OF FLORIDA | R01 | 2018 | 0.051 |
| Probing Dose Limits in Cardiac SPECT with Reconstruction and Personalized Imaging | ILLINOIS INSTITUTE OF TECHNOLOGY | R01 | 2018 | 0.05 |
| Digital Mammography: Advanced Computer-Aided Breast Can\* | UNIVERSITY OF MICHIGAN | R01 | 2007 | 0.048 |

**Cluster 24**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Effectiveness of Treating Prenatal Depression to Reduce Postpartum Depression | KAISER FOUNDATION RESEARCH INSTITUTE | R01 | 2016 | 0.12 |
| Human Microbiome and Perinatal Depression | UNIVERSITY OF ILLINOIS AT CHICAGO | R03 | 2019 | 0.12 |
| Bacterial Vaginosis and Spontaneous Abortion | TEMPLE UNIVERSITY | R01 | 2004 | 0.1 |
| Epidemiology of Stress and GDM among Latina Women | UNIVERSITY OF MASSACHUSETTS AMHERST | R01 | 2009 | 0.088 |
| Predictive modeling of peripartum depression | MASSACHUSETTS GENERAL HOSPITAL | R03 | 2020 | 0.071 |

**Cluster 25**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Neurophysiological mechanisms of cognitive and emotional control in ADHD | OREGON HEALTH & SCIENCE UNIVERSITY | K23 | 2019 | 0.091 |
| Dynamic Brain Mechanisms of Proactive and Reactive Control in Childhood ADHD | STANFORD UNIVERSITY | K01 | 2018 | 0.087 |
| Longitudinal Mapping of Network Development Underlying Executive Dysfunction in Adolescence | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.086 |
| Neuroanatomical markers of persistence versus remission of ADHD | NEW JERSEY INSTITUTE OF TECHNOLOGY | R03 | 2017 | 0.085 |
| Parsing Neurobiological Bases of Heterogeneity in ADHD | CINCINNATI CHILDRENS HOSP MED CTR | R01 | 2020 | 0.077 |

**Cluster 26**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Biomarker panel to differentiate stroke from stroke mimic | PREDICTION SCIENCES, LLC | R43 | 2008 | 0.41 |
| Sleep apnea after stroke: Implications for screening and treatment | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2019 | 0.41 |
| Fast and Easy Assessment of Stroke | ALVA HEALTH, INC. | R43 | 2019 | 0.39 |
| Whole Transcriptome Studies of Patients with Transient Ischemic Attacks (TIAs) | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.39 |
| MEDIC ONE STROKE SCALE | UNIVERSITY OF WASHINGTON | K23 | 2003 | 0.37 |

**Cluster 27**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| A Shared Database for the Study of Phonological Development | CARNEGIE-MELLON UNIVERSITY | R01 | 2016 | 0.14 |
| Extending PhonBank for Clinical Phonology and Speech Analysis | CARNEGIE-MELLON UNIVERSITY | R01 | 2019 | 0.12 |
| Automated measurement of language outcomes for neurodevelopmental disorders | OREGON HEALTH & SCIENCE UNIVERSITY | R01 | 2020 | 0.11 |
| Behavioral and Neurobiological Underpinnings of Spoken Word Recognition in Late Language Emergence | UNIVERSITY OF CONNECTICUT STORRS | F31 | 2020 | 0.1 |
| Natural language processing for characterizing psychopathology | MASSACHUSETTS GENERAL HOSPITAL | R01 | 2018 | 0.09 |

**Cluster 28**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Early Diagnosis of Heart Failure: A Perioperative Data-Driven Approach | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K01 | 2020 | 0.069 |
| Advanced Image Analysis Tools for Diabetic Retinopathy Telemedicine Application | EYENUK, INC. | R44 | 2017 | 0.057 |
| Developing and validating prognostic metabolomic signatures of diabetic kidney disease | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R01 | 2020 | 0.056 |
| Diabetic Retinopathy: genetics and neurodegeneration | BAYLOR COLLEGE OF MEDICINE | K23 | 2020 | 0.053 |
| Transition from Risk Factors to Early HF: Prevalence, Pathogenesis, and Phenomics | WAKE FOREST UNIVERSITY HEALTH SCIENCES | R01 | 2018 | 0.052 |

**Cluster 29**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Biomarker discovery for mitochondrial toxicants using metabolic footprinting | FRED HUTCHINSON CANCER RESEARCH CENTER | R01 | 2015 | 0.16 |
| Biomarkers and Genes Associated with Placental Development and Function in Response to Environmental Pollution | UNIVERSITY OF CALIFORNIA LOS ANGELES | R01 | 2020 | 0.15 |
| White Matter Damage in Subconcussive Blast Exposure | DUKE UNIVERSITY | R01 | 2018 | 0.14 |
| A DATA SCIENCE APPROACH TO AIR TOXICS AND CHILDREN'S ENVIRONMENTAL HEALTH | COLUMBIA UNIVERSITY HEALTH SCIENCES | R00 | 2020 | 0.11 |
| A Data Science Approach to Air Toxics and Children's Environmental Health | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | K99 | 2018 | 0.11 |