**Cluster 0**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| A systems analysis of drug tolerance in Mycobacterium tuberculosis | INSTITUTE FOR SYSTEMS BIOLOGY | R01 | 2020 | 0.13 |
| NOVEL PARADIGMS FOR DRUG DISCOVERY: COMPUTATIONAL MULTITARGET SCREENING | UNIVERSITY OF WASHINGTON | DP1 | 2014 | 0.13 |
| Novel Paradigms For Drug Discovery: Computational Multitarget Screening | STATE UNIVERSITY OF NEW YORK AT BUFFALO | DP1 | 2014 | 0.13 |
| Omics data integration and analysis for structure-based multi-target drug design | HUNTER COLLEGE | R01 | 2020 | 0.13 |
| MegaTrans – human transporter machine learning models | COLLABORATIONS PHARMACEUTICALS, INC. | R41 | 2019 | 0.12 |

**Cluster 1**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| iFACS: Imaging Florescence Activated Cell Sorter to sort cells based on images | NANOCELLECT BIOMEDICAL, INC. | R44 | 2018 | 0.079 |
| High throughput cell screening for toxic metal exposure | DUKE UNIVERSITY | R21 | 2019 | 0.066 |
| Turning a sequence barcode into a spectral barcode for single-cell analysis. | UNIVERSITY OF TEXAS, AUSTIN | R21 | 2020 | 0.063 |
| Efficient patient-specific cell generation by image-guidance | DRVISION TECHNOLOGIES, LLC | R44 | 2014 | 0.063 |
| Targeting Senescence for Biomarkers and Therapeutics | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | R01 | 2019 | 0.063 |

**Cluster 2**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| UCSC-Buck Inst. Genome Data Analysis Center for TCGA Research Network (GDAC) | UNIVERSITY OF CALIFORNIA SANTA CRUZ | U24 | 2016 | 0.077 |
| Integrated Discovery Pipeline for Tumor Neoantigens | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.063 |
| Periodontal Disease and the Incidence of Oral Cancer | ROSWELL PARK CANCER INSTITUTE CORP | R03 | 2007 | 0.063 |
| MICRORNA BIOMARKERS FOR OROPHARYNGEAL CANCER | UNIVERSITY OF ILLINOIS AT CHICAGO | R01 | 2020 | 0.06 |
| MICRORNA BIOMARKERS FOR CERVICAL CANCER | WASHINGTON UNIVERSITY | R21 | 2015 | 0.06 |

**Cluster 3**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Computer Studies of Protein Structure and Function | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2016 | 0.041 |
| Computerized Radiographic Analysis of Bone Structure | UNIVERSITY OF CHICAGO | R01 | 2005 | 0.038 |
| Very large datasets and new models to predict and design protein interactions | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | R01 | 2014 | 0.036 |
| Building motif lexicons | UNIVERSITY OF NEVADA LAS VEGAS | R01 | 2010 | 0.033 |
| Data-driven analysis of protein structure, function, and regulation | UNIVERSITY OF WISCONSIN-MADISON | R35 | 2019 | 0.032 |

**Cluster 4**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| A Multisite Neurobehavioral Assessment of Fetal Alcohol Spectrum Disorders | SAN DIEGO STATE UNIVERSITY | U01 | 2020 | 0.3 |
| Spectrum of and Nutritional Risk Factors for FASD in Russia and Ukraine | UNIVERSITY OF CALIFORNIA, SAN DIEGO | U01 | 2011 | 0.28 |
| 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 | 0.24 |
| Maternal circulating miRNA function in Fetal Alcohol Spectrum Disorders | TEXAS A&M UNIVERSITY HEALTH SCIENCE CTR | F31 | 2019 | 0.22 |

**Cluster 5**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Developing, Validating, and Implementing a CKD Predictive Model (DELVECKD) | VANDERBILT UNIVERSITY | K23 | 2015 | 0.051 |
| Communicating narrative Concerns entered by RNs (CONCERN) | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2020 | 0.049 |
| Data-Mining Clinical Decision Support from Electronic Health Records | STANFORD UNIVERSITY | K01 | 2019 | 0.045 |
| Automated Detection of Medical Errors | COLUMBIA UNIVERSITY HEALTH SCIENCES | K22 | 2007 | 0.043 |
| Adaptation and pilot implementation of a validated, electronic real time clinical decision support tool for care of Pneumonia patients in 12 Utah Urgent Care Centers | IHC HEALTH SERVICES, INC. | R18 | 2020 | 0.042 |

**Cluster 6**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Learning an Optimized Variational Network for Medical Image Reconstruction | NEW YORK UNIVERSITY SCHOOL OF MEDICINE | R01 | 2020 | 0.051 |
| Probing Dose Limits in Cardiac SPECT with Reconstruction and Personalized Imaging | ILLINOIS INSTITUTE OF TECHNOLOGY | R01 | 2018 | 0.049 |
| IEEE Medical Imaging Conference | MASSACHUSETTS GENERAL HOSPITAL | R13 | 2020 | 0.045 |
| Adaptive Large-Scale Framework for Automatic Biomedical Image Segmentation | UNIVERSITY OF PENNSYLVANIA | R01 | 2018 | 0.044 |
| Development and Dissemination of MuscleMiner: An Imaging Informatics Tool for Mus | UNIVERSITY OF FLORIDA | R01 | 2018 | 0.042 |

**Cluster 7**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| NESTED CASE CONTROL STUDY OF MAMMOGRAPHIC DENSITY | UNIVERSITY OF HAWAII AT MANOA | R01 | 2002 | 0.24 |
| Quantitative Parenchyma Descriptor as an Imaging Biomarker of Breast Cancer Risk | UNIVERSITY OF MICHIGAN AT ANN ARBOR | U01 | 2019 | 0.24 |
| Migraine, Migraine Medication Use, and Risk of Breast Cancer | FRED HUTCHINSON CANCER RESEARCH CENTER | R03 | 2010 | 0.23 |
| Informatics Techniques to Optimize Mammography for Aging Populations | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2016 | 0.23 |
| EPIDEMIOLOGY OF MOLECULAR RISK FACTORS FOR BREAST CANCER | VANDERBILT UNIVERSITY | R01 | 2004 | 0.22 |

**Cluster 8**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Robust Predictors of Mania and Psychosis | MCLEAN HOSPITAL | U01 | 2020 | 0.09 |
| Real-Time Mobile Cognitive Behavioral Intervention for Serious Mental Illness | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R01 | 2016 | 0.087 |
| Assisted Identification and Navigation of Early Mental Health Symptoms in Youth | KAISER FOUNDATION RESEARCH INSTITUTE | R56 | 2018 | 0.079 |
| Leveraging Social Media Data and Machine Learning to Optimize Treatment Paradigms for Youth with Schizophrenia | GEORGIA INSTITUTE OF TECHNOLOGY | R01 | 2020 | 0.074 |
| A Common Framework for "Big Data" Mental Health Research on Twitter | UNIVERSITY OF OREGON | R21 | 2016 | 0.074 |

**Cluster 9**

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| --- | --- | --- | --- | --- |
| 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 | 0.48 |
| 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 10**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Biomarker panel to differentiate stroke from stroke mimic | PREDICTION SCIENCES, LLC | R43 | 2008 | 0.4 |
| Sleep apnea after stroke: Implications for screening and treatment | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2019 | 0.4 |
| 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 | 0.36 |

**Cluster 11**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Detection of Glaucoma Progression with Macular OCT Imaging | UNIVERSITY OF CALIFORNIA LOS ANGELES | K23 | 2016 | 0.43 |
| Functional and Structural Optical Coherence Tomography for Glaucoma | OREGON HEALTH & SCIENCE UNIVERSITY | R01 | 2020 | 0.41 |
| Medical Advice from Glaucoma Informatics (MAGI) | UNIVERSITY OF CALIFORNIA SAN DIEGO | R33 | 2005 | 0.4 |
| A hybrid artificial intelligence framework for glaucoma monitoring | UNIVERSITY OF TENNESSEE HEALTH SCI CTR | R21 | 2020 | 0.37 |
| Diagnostic Innovations in Glaucoma: Clinical Electrophysiology | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R21 | 2008 | 0.37 |

**Cluster 12**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Clinically Relevant Genome Variation Database | STANFORD UNIVERSITY | U01 | 2016 | 0.1 |
| EMR Phenotype and Community Engaged Genomic Associations | MAYO CLINIC ROCHESTER | U01 | 2014 | 0.092 |
| Genetic Factors in Keratoconus | CEDARS-SINAI MEDICAL CENTER | R01 | 2019 | 0.087 |
| International Cohort Collection for Bipolar Disorder | MASSACHUSETTS GENERAL HOSPITAL | R01 | 2012 | 0.086 |
| Statistical Tests for Mapping Genetic Determinants of Complex Traits | EMORY UNIVERSITY | R01 | 2019 | 0.085 |

**Cluster 13**

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| --- | --- | --- | --- | --- |
| 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 | 0.078 |
| Revealing the transcriptomic basis of neuronal identity through functional meta-analysis | COLD SPRING HARBOR LABORATORY | R01 | 2020 | 0.074 |
| Massively parallel dissection of psychiatric regulatory networks | J. DAVID GLADSTONE INSTITUTES | R01 | 2020 | 0.07 |
| Learning the rules of enhancer activity to understand non-coding genetic variation in autoimmune disease | BROAD INSTITUTE, INC. | K99 | 2019 | 0.069 |
| The adaptive potential of translational regulation | NEW YORK UNIVERSITY | F32 | 2020 | 0.067 |

**Cluster 14**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| The Role of the Microbiome in the Acute Respiratory Distress Syndrome | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K23 | 2020 | 0.015 |
| Optical Body Composition and Health Assessment | UNIVERSITY OF HAWAII AT MANOA | R01 | 2020 | 0.011 |
| Photoplethysmography Analysis to Assess Cardio-Cerebrovascular Impact of Sleep | UNIVERSITY OF WASHINGTON | R21 | 2020 | 0.0093 |
| Circadian Lipidomics in Constant Routine, Forced Desynchrony, and Non-lab Setting | BRIGHAM AND WOMEN'S HOSPITAL | R01 | 2019 | 0.0092 |
| The CRIT-ICU Biomarker Panel for Stratification of Mortality Risk in ARDS Patients | AQUALUNG THERAPEUTICS CORP. | R41 | 2019 | 0.0091 |

**Cluster 15**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Mammography Visits to Improve Colon Cancer Screening | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K07 | 2009 | 0.28 |
| Reducing disparities in colorectal cancer screening in Vietnamese Americans | CANCER PREVENTION INSTIT OF CALIFORNIA | R01 | 2012 | 0.27 |
| Increasing CRC Screening in Primary Care Settings | UNIVERSITY OF ILLINOIS | R01 | 2007 | 0.26 |
| Promoting Colon Cancer Screening Among African Amercians | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | R01 | 2010 | 0.26 |
| Promoting Colon Cancer Screening Among African Americans | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | R01 | 2009 | 0.26 |

**Cluster 16**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Computerized Adaptive Suicidal Risk Stratification and Prediction | ADAPTIVE TESTING TECHNOLOGIES | R44 | 2020 | 0.43 |
| Digital Monitoring of Agitation for Short-Term Suicide Risk Prediction | MASSACHUSETTS GENERAL HOSPITAL | K23 | 2020 | 0.43 |
| Seasonality of Suicide and Airborne Allergens | UNIVERSITY OF MARYLAND BALTIMORE | R01 | 2009 | 0.43 |
| SEASONALITY OF SUICIDE AND AIRBORNE ALLERGENS | UNIVERSITY OF MARYLAND BALTIMORE | R01 | 2008 | 0.43 |
| Treatment Utilization Before Suicide (TUBS) | HENRY FORD HEALTH SYSTEM | R01 | 2018 | 0.41 |

**Cluster 17**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Speech Prosody and Articulatory Dynamics in Spoken Language | UNIVERSITY OF SOUTHERN CALIFORNIA | R01 | 2016 | 0.35 |
| Multimodal Speech Translation for Assistive Communication | NORTHEASTERN UNIVERSITY | R21 | 2015 | 0.33 |
| Functional Architecture of Speech Motor Cortex | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | U01 | 2018 | 0.33 |
| SPEECH MOVEMENT CLASSIFICATION FOR ASSESSING AND TREATING ALS | MGH INSTITUTE OF HEALTH PROFESSIONS | R01 | 2018 | 0.31 |
| Speech Movement Classification for Assessing and Treating ALS | MGH INSTITUTE OF HEALTH PROFESSIONS | R01 | 2017 | 0.31 |

**Cluster 18**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Cross-frequency coupling: its role in brain function and dysfunction | GEORGETOWN UNIVERSITY | RF1 | 2020 | 0.072 |
| Bayesian Methods for Localizing Dynamic Brain Activity and Epileptogenic Zones | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | F32 | 2011 | 0.071 |
| Neural mechanisms of attentional priority for visual features and objects | MICHIGAN STATE UNIVERSITY | R01 | 2016 | 0.069 |
| Analysis of Nonstationary Point Process Data | CARNEGIE-MELLON UNIVERSITY | R01 | 2020 | 0.066 |
| Massively Parallel Brain Imaging | STANFORD UNIVERSITY | DP1 | 2009 | 0.062 |

**Cluster 19**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Effectiveness of Treating Prenatal Depression to Reduce Postpartum Depression | KAISER FOUNDATION RESEARCH INSTITUTE | R01 | 2016 | 0.19 |
| Common and specific risk factors for emotional disorders | NORTHWESTERN UNIVERSITY | R01 | 2006 | 0.14 |
| Common and Specific Risk Factors for Emotional Disorders | UNIVERSITY OF CALIFORNIA LOS ANGELES | R01 | 2006 | 0.14 |
| An Expert System to Reduce Depression in Primary Care | PRO-CHANGE BEHAVIOR SYSTEMS, INC. | R44 | 2004 | 0.14 |
| Predicting Internet-Based Treatment Response for Major Depressive Disorder | MCLEAN HOSPITAL | R56 | 2017 | 0.13 |

**Cluster 20**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Co-occurring ADHD in young children with ASD: Precursors, detection, neural signatures, and early treatment | DUKE UNIVERSITY | P50 | 2020 | 0.16 |
| Investigating quantitative signatures of autism in toddlers | COLUMBIA UNIVERSITY TEACHERS COLLEGE | R01 | 2020 | 0.15 |
| Novel video-based approaches for detection of autism risk in the first year of life | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.14 |
| Neurophenotypic Trajectories and Behavioral Outcomes in Autism Spectrum Disorder | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2019 | 0.13 |
| Evaluating Plasma and Urine Porphyrins as Biomarkers of ASD | BATTELLE CENTERS/PUB HLTH RES & EVALUATN | R21 | 2015 | 0.13 |

**Cluster 21**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Computer Aided Diagnosis of Lung Cancer | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2006 | 0.16 |
| COMPUTER AIDED DIAGNOSIS IN CHEST RADIOGRAPHY | UNIVERSITY OF CHICAGO | R01 | 2004 | 0.16 |
| Computer-Aided Detection of Urinary Tract Cancer on MDCT Urography | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2014 | 0.15 |
| COMPUTERIZED DETECTION OF PULMONARY NODULES | UNIVERSITY OF CHICAGO | R01 | 2002 | 0.15 |
| Digital Mammography: Advanced Computer-Aided Breast Can\* | UNIVERSITY OF MICHIGAN | R01 | 2007 | 0.15 |

**Cluster 22**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson's Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2017 | 0.12 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson???s Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2014 | 0.12 |
| Mid-frontal delta/theta rhythms and cognitive control in PD | UNIVERSITY OF IOWA | R01 | 2020 | 0.11 |
| The Gut Microbiome in Parkinson Disease | UNIVERSITY OF MASSACHUSETTS LOWELL | R01 | 2019 | 0.085 |
| Metabolomics and risk of Parkinson's Disease | HARVARD SCHOOL OF PUBLIC HEALTH | R01 | 2019 | 0.082 |

**Cluster 23**

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| --- | --- | --- | --- | --- |
| 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 | 0.38 |
| 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 | 0.35 |
| 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 | 0.34 |

**Cluster 24**

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| --- | --- | --- | --- | --- |
| 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 | 0.26 |
| 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 |
| Computational methods for regional hippocampal morphometry in AD | UNIVERSITY OF PENNSYLVANIA | K25 | 2011 | 0.26 |

**Cluster 25**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Mentoring in Immunometabolic Dysregulation in TB and TB/HIV | JOHNS HOPKINS UNIVERSITY | K24 | 2020 | 0.44 |
| Discovering hidden groups across tuberculosis patient and pathogen genotype data | RENSSELAER POLYTECHNIC INSTITUTE | R01 | 2010 | 0.43 |
| Identifying individuals at risk of progression to active tuberculosis | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R01 | 2020 | 0.43 |
| Precision immunoprofiling to reveal diagnostic biomarkers of latent TB infection | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2020 | 0.41 |
| Signature of profiling and staging the progression of TB from infection to disease. | BOSTON UNIVERSITY MEDICAL CAMPUS | R21 | 2020 | 0.41 |

**Cluster 26**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| fMRI-based Biomarkers for Multiple Components of Pain | UNIVERSITY OF COLORADO | R01 | 2017 | 0.4 |
| Mechanistic Characterization of Pain in Temporomandibular Disorders: Does Pain Centralization Influence Responsiveness to Peripherally Targeted Treatments? | EMORY UNIVERSITY | R00 | 2020 | 0.39 |
| 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 | 0.38 |
| A Multimodal Approach for Monitoring Prolonged Acute Pain in Neonates | UNIVERSITY OF SOUTH FLORIDA | R21 | 2020 | 0.37 |

**Cluster 27**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Transition from Risk Factors to Early HF: Prevalence, Pathogenesis, and Phenomics | WAKE FOREST UNIVERSITY HEALTH SCIENCES | R01 | 2018 | 0.47 |
| Genomic and Phenomic Architecture of Heart Failure | VANDERBILT UNIVERSITY MEDICAL CENTER | R01 | 2020 | 0.44 |
| Early Detection of Heart Failure via the Electronic Health Record in Primary Care | CALIFORNIA PACIFIC MED CTR RES INSTITUTE | R01 | 2015 | 0.43 |
| Early Diagnosis of Heart Failure: A Perioperative Data-Driven Approach | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K01 | 2020 | 0.41 |
| A multifaceted adaptive mobile application to promote self-management and improve outcomes in heart failure | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2020 | 0.38 |

**Cluster 28**

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| --- | --- | --- | --- | --- |
| 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 | 0.31 |
| Vitamin D, Epstein-Barr virus infection, and cigarette smoking and risk of multip | HARVARD SCHOOL OF PUBLIC HEALTH | R01 | 2015 | 0.3 |
| 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 | 0.26 |
| Novel Strategies to Identify GxE Contributions to MS Pathogenesis | UNIVERSITY OF CALIFORNIA BERKELEY | R01 | 2015 | 0.26 |

**Cluster 29**

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| --- | --- | --- | --- | --- |
| 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 | 0.34 |
| Gene-Gene Interactions and Their Functional Roles in Prostate Cancer Aggressiveness | LSU HEALTH SCIENCES CENTER | R21 | 2017 | 0.34 |
| Modifiable Risk Factors for Fatal Prostate Cancer: A Prospective Study In Asia | VANDERBILT UNIVERSITY | R03 | 2013 | 0.33 |
| CLINICAL AND EPIDEMIOLOGICAL CENTER--PROSTATE CANCER | JOHNS HOPKINS UNIVERSITY | U01 | 2004 | 0.33 |
| MRI Imaging and Biomarkers for Early Detection of Aggressive Prostate Cancer | UNIVERSITY OF MIAMI SCHOOL OF MEDICINE | U01 | 2020 | 0.31 |