**Cluster 0**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Noninvasive imaging-based electrophysiology using microelectronic devices | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | R01 | 2015 | 0.14 |
| Machine learning for fast motion compensated quantitative abdominal DCE-MRI | BOSTON CHILDREN'S HOSPITAL | R21 | 2020 | 0.14 |
| MRI-Based Radiation Therapy Treatment Planning | STANFORD UNIVERSITY | R01 | 2020 | 0.12 |
| Enabling Kinematic Joint Profiling Using MRI | MEDICAL COLLEGE OF WISCONSIN | R21 | 2020 | 0.12 |
| Development and Dissemination of Clinical CEST MRI Acquisition and Analysis Methods for Cancer Imaging Applications | UNIVERSITY OF TX MD ANDERSON CAN CTR | R01 | 2020 | 0.12 |

**Cluster 1**

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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 | 0.028 |
| Epigenetic biomarkers of response to Azacytidine in Myelodysplastic Syndromes | UNIVERSITY OF MIAMI SCHOOL OF MEDICINE | R01 | 2018 | 0.025 |
| Signature of profiling and staging the progression of TB from infection to disease. | BOSTON UNIVERSITY MEDICAL CAMPUS | R21 | 2020 | 0.022 |
| A Gene Expression Based Blood Test for Rheumatic Disease Diagnosis | CRESCENDO BIOSCIENCE, INC. | R43 | 2008 | 0.022 |
| Separating Wheat from Chaff in Major Depression Blood Biomarker Studies | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | R03 | 2017 | 0.019 |

**Cluster 2**

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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 | 0.39 |
| Big Data Analysis of HIV Risk and Epidemiology in Sub-Saharan Africa | STANFORD UNIVERSITY | R01 | 2020 | 0.37 |
| 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 3**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Disparities in the Diagnosis of Alzheimer's Disease Among African American and European American Veterans | SEATTLE INST FOR BIOMEDICAL/CLINICAL RES | R56 | 2018 | 0.27 |
| Computational Prediction and Functional Validation of Novel Epigenetic Risk Loci in Alzheimer's Disease | EMORY UNIVERSITY | R56 | 2018 | 0.26 |
| Assessing ASL CBF as a biomarker for early Alzheimer's disease detection and disease progression | UNIVERSITY OF MARYLAND BALTIMORE | R01 | 2020 | 0.25 |
| 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 | 0.25 |
| Blood Base Bioenergetic Profiling: A Novel Approach for Identifying Alzheimer's Disease Risk and Pathology | WAKE FOREST UNIVERSITY HEALTH SCIENCES | R01 | 2020 | 0.24 |

**Cluster 4**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| New Tools for the interpretation of Pathogen Genomic Data with a focus on Mycobacterium tuberculosis | HARVARD MEDICAL SCHOOL | K01 | 2019 | 0.088 |
| The initial care of younger adults with newly diagnosed type 2 diabetes | KAISER FOUNDATION RESEARCH INSTITUTE | K23 | 2020 | 0.082 |
| Improving Prediction of Medical Responsiveness and Clinical Outcomes in Crohn's Disease | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K23 | 2019 | 0.078 |
| Multimodal Biomarkers in Frontotemporal Lobar Degeneration | UNIVERSITY OF PENNSYLVANIA | K01 | 2017 | 0.072 |
| Studying pseudogout using naturallanguage processing and novelimaging approaches | BRIGHAM AND WOMEN'S HOSPITAL | K23 | 2020 | 0.071 |

**Cluster 5**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| AUTOMATED TELE COUNSELING FOR SCREENING MAMMOGRAPHY | BOSTON MEDICAL CENTER | R01 | 2003 | 0.22 |
| COMMUNITY INTERVENTION TO INCREASE MAMMOGRAPHY SCREENING | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | R01 | 2003 | 0.2 |
| Promoting Breast Cancer Screening Via Computer V Phone | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | R01 | 2008 | 0.19 |
| Bacterial Vaginosis and Spontaneous Abortion | TEMPLE UNIVERSITY | R01 | 2004 | 0.18 |
| Mammography Screening Decisions in the Elderly | BETH ISRAEL DEACONESS MEDICAL CENTER | F32 | 2005 | 0.15 |

**Cluster 6**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Cerebellar connectivity and error-based learning in infants at risk for autism | WASHINGTON UNIVERSITY | F31 | 2020 | 0.26 |
| Investigating quantitative signatures of autism in toddlers | COLUMBIA UNIVERSITY TEACHERS COLLEGE | R01 | 2020 | 0.24 |
| Novel video-based approaches for detection of autism risk in the first year of life | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.23 |
| Clinical algorithm for identifying adult autism | UNIVERSITY OF PENNSYLVANIA | R34 | 2015 | 0.22 |
| 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 | 0.22 |

**Cluster 7**

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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 | 0.2 |
| CorBand: A novel wearable wrist sensor for heart failure remote monitoring | RETHINK MEDICAL, INC. | R44 | 2017 | 0.16 |
| Genomic and Phenomic Architecture of Heart Failure | VANDERBILT UNIVERSITY MEDICAL CENTER | R01 | 2020 | 0.16 |
| Advanced Heart Failure: Epidemiology and Outcomes | MAYO CLINIC ROCHESTER | R01 | 2020 | 0.15 |
| Early Detection of Heart Failure via the Electronic Health Record in Primary Care | CALIFORNIA PACIFIC MED CTR RES INSTITUTE | R01 | 2015 | 0.15 |

**Cluster 8**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Identifying Receipt of Colorectal Cancer Screening | VANDERBILT UNIVERSITY | R21 | 2008 | 0.22 |
| Reducing disparities in colorectal cancer screening in Vietnamese Americans | CANCER PREVENTION INSTIT OF CALIFORNIA | R01 | 2012 | 0.2 |
| Reducing Colorectal Cancer Disparities: Racial Differences in Colorectal Polyp Profile | UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA | R21 | 2017 | 0.2 |
| Measurement of Inappropriate Screening Tests (MIST) | UNIVERSITY OF MINNESOTA | R03 | 2013 | 0.2 |
| Comparative Modeling of Effective Policies for Colorectal Cancer Control | SLOAN-KETTERING INST CAN RESEARCH | U01 | 2020 | 0.19 |

**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 | 0.45 |
| 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 |
| A systems analysis of drug tolerance in Mycobacterium tuberculosis | INSTITUTE FOR SYSTEMS BIOLOGY | R01 | 2020 | 0.058 |
| An integrative multi-phenotype pipeline for drug evaluation, pharmacogenomics, and attribute prediction | PHENVOGEN, LLC | R41 | 2017 | 0.05 |
| Peripheral Nerve-on-a-chip for Predictive Preclinical Pharmaceutical Testing | AXOSIM, INC. | R42 | 2018 | 0.046 |
| Highthroughput analysis of behavior for CNS applications | PSYCHOGENICS, INC. | R44 | 2004 | 0.043 |
| Predictive Smoking Cessation Preclinical Battery | PSYCHOGENICS, INC. | R44 | 2015 | 0.042 |

**Cluster 11**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Multi-Site Validation Study of the HLHS Arrest Predictor | BAYLOR COLLEGE OF MEDICINE | R01 | 2020 | 0.084 |
| A Computational Biomechanical Airway Model for Obese Children at Risk for OSAS | ALBERT EINSTEIN COLLEGE OF MEDICINE | R01 | 2020 | 0.082 |
| Development of clinical decision tools for management of diarrhea of children in high and low resource settings | UNIVERSITY OF UTAH | R01 | 2020 | 0.071 |
| A Shared Database for the Study of Phonological Development | CARNEGIE-MELLON UNIVERSITY | R01 | 2016 | 0.071 |
| Real-Time Prediction of Acute Arrest in Infants with Single Ventricle Physiology | BAYLOR COLLEGE OF MEDICINE | R56 | 2016 | 0.069 |

**Cluster 12**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Interpretable Deep Learning Algorithms for Pathology Image Analysis | BRIGHAM AND WOMEN'S HOSPITAL | R35 | 2020 | 0.023 |
| Development and Evaluation of a Machine Learning Approach to Interpret Optical Coherence Tomography Images of the Middle Ear to Improve Antibiotic Management | PHOTONICARE, INC. | R43 | 2019 | 0.021 |
| Slicer+PLUS: Collaborative, open-source software for ultrasound analysis | KITWARE, INC. | R01 | 2019 | 0.02 |
| Clinical Development and Evaluation of a Deep Learning Approach to Improve Diagnostic Accuracy | PHOTONICARE, INC. | R44 | 2020 | 0.019 |
| A Study to Validate and Improve an Automated Image Analysis Algorithm to Detect Tuberculosis in Sputum Smear Slides | DIASCOPIC, LLC | R43 | 2019 | 0.016 |

**Cluster 13**

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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 | 0.38 |
| Enhancing Stroke Prehospital and Emergency Evaluation and Delivery (E-SPEED) | UNIVERSITY OF CHICAGO | R18 | 2020 | 0.36 |

**Cluster 14**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Quantitative Parenchyma Descriptor as an Imaging Biomarker of Breast Cancer Risk | UNIVERSITY OF MICHIGAN AT ANN ARBOR | U01 | 2019 | 0.26 |
| Mitochondrial Haplogroups and Breast Cancer Risk | BRIGHAM AND WOMEN'S HOSPITAL | R03 | 2008 | 0.25 |
| Migraine, Migraine Medication Use, and Risk of Breast Cancer | FRED HUTCHINSON CANCER RESEARCH CENTER | R03 | 2010 | 0.24 |
| Convergent AI for Precise Breast Cancer Risk Assessment | METHODIST HOSPITAL RESEARCH INSTITUTE | R01 | 2020 | 0.23 |
| EPIDEMIOLOGY OF MOLECULAR RISK FACTORS FOR BREAST CANCER | VANDERBILT UNIVERSITY | R01 | 2004 | 0.22 |

**Cluster 15**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Automated Detection of Medical Errors | COLUMBIA UNIVERSITY HEALTH SCIENCES | K22 | 2007 | 0.054 |
| Algorithms to Identify Systemic Lupus from Electronic Health Record Data | NORTHWESTERN UNIVERSITY AT CHICAGO | R21 | 2018 | 0.054 |
| Biases introduced by filtering electronic health records for patients with "complete data" | HARVARD MEDICAL SCHOOL | R01 | 2020 | 0.053 |
| Secondary use of EMRs for surgical complication surveillance | MAYO CLINIC ROCHESTER | R01 | 2018 | 0.051 |
| Communicating narrative Concerns entered by RNs (CONCERN) | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2020 | 0.049 |

**Cluster 16**

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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 | 0.29 |
| Improving Diagnosis of Multiple Sclerosis Through the Integration of Novel Imaging and Laboratory Biomarkers | UNIVERSITY OF VERMONT & ST AGRIC COLLEGE | K02 | 2020 | 0.29 |
| Vitamin D, Epstein-Barr virus infection, and cigarette smoking and risk of multip | HARVARD SCHOOL OF PUBLIC HEALTH | R01 | 2015 | 0.29 |
| Novel Strategies to Identify GxE Contributions to MS Pathogenesis | UNIVERSITY OF CALIFORNIA BERKELEY | R01 | 2015 | 0.26 |
| Sequential Ion/Ion Reactions for Large Peptide and Whole Protein Characterization | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2015 | 0.24 |

**Cluster 17**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Digital Mammography: Advanced Computer-Aided Breast Can\* | UNIVERSITY OF MICHIGAN | R01 | 2007 | 0.29 |
| Improving Breast Cancer Detection and Diagnosis with CAD | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2011 | 0.28 |
| Digital Tomosynthesis Mammography: Computer-Aided Analysis of Masses | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R33 | 2009 | 0.26 |
| Toward Diagnostics and Therapies of Molecular Subcategories of CAD | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | R01 | 2018 | 0.25 |
| Computer-Aided Detection of Urinary Tract Cancer on MDCT Urography | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2014 | 0.24 |

**Cluster 18**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Mid-frontal delta/theta rhythms and cognitive control in PD | UNIVERSITY OF IOWA | R01 | 2020 | 0.45 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson's Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2017 | 0.43 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson???s Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2014 | 0.43 |
| Metabolomics and risk of Parkinson's Disease | HARVARD SCHOOL OF PUBLIC HEALTH | R01 | 2019 | 0.38 |
| Multi-tissue high-throughput proteomic and genomic study in Parkinson's Disease | WASHINGTON UNIVERSITY | R01 | 2020 | 0.37 |

**Cluster 19**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Statistical Tests for Mapping Genetic Determinants of Complex Traits | EMORY UNIVERSITY | R01 | 2019 | 0.096 |
| Approaches to Genetic Heterogeneity of Obstructive Sleep Apnea | UNIVERSITY OF PENNSYLVANIA | R01 | 2019 | 0.092 |
| Creating a Myelomeningocele Exome Variant Map | UNIVERSITY OF TEXAS HLTH SCI CTR HOUSTON | R01 | 2018 | 0.092 |
| International Cohort Collection for Bipolar Disorder | MASSACHUSETTS GENERAL HOSPITAL | R01 | 2012 | 0.087 |
| Genetic Factors in Keratoconus | CEDARS-SINAI MEDICAL CENTER | R01 | 2019 | 0.087 |

**Cluster 20**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| 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 |
| Digital Monitoring of Agitation for Short-Term Suicide Risk Prediction | MASSACHUSETTS GENERAL HOSPITAL | K23 | 2020 | 0.43 |
| Computerized Adaptive Suicidal Risk Stratification and Prediction | ADAPTIVE TESTING TECHNOLOGIES | R44 | 2020 | 0.43 |
| Treatment Utilization Before Suicide (TUBS) | HENRY FORD HEALTH SYSTEM | R01 | 2018 | 0.41 |

**Cluster 21**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Genotype and phenotype predictors in therapy response in renal cell carcinoma | UNIVERSITY OF PENNSYLVANIA | R01 | 2013 | 0.11 |
| Systems Microscopy Analysis of Tumor Cell Motility in Microenvironment Context | TEMPLE UNIV OF THE COMMONWEALTH | R00 | 2017 | 0.1 |
| Systems microscopy analysis of tumor cell motility in microenvironment context | ALBERT EINSTEIN COLLEGE OF MEDICINE | K99 | 2014 | 0.1 |
| Quantitative Multimodal Image Guidance for Improved Liver Cancer Treatment | YALE UNIVERSITY | R01 | 2020 | 0.1 |
| Integrated Discovery Pipeline for Tumor Neoantigens | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.096 |

**Cluster 22**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Very large datasets and new models to predict and design protein interactions | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | R01 | 2014 | 0.18 |
| Advanced approaches to protein structure prediction | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R35 | 2020 | 0.17 |
| Computer Studies of Protein Structure and Function | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2016 | 0.16 |
| Understanding molecular rules governing protein allostery by deep mutational scanning | UNIVERSITY OF WISCONSIN-MADISON | DP2 | 2018 | 0.15 |
| Proteomics of ciliopathy protein complexes | UNIVERSITY OF TEXAS, AUSTIN | F31 | 2019 | 0.14 |

**Cluster 23**

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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 | 0.2 |
| Multimodal Speech Translation for Assistive Communication | NORTHEASTERN UNIVERSITY | R21 | 2015 | 0.19 |
| Functional Architecture of Speech Motor Cortex | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | U01 | 2018 | 0.19 |
| Real-Time Articulation-to-Speech Mapping for Enhancing Impaired Oral Communication | UNIVERSITY OF TEXAS DALLAS | R03 | 2017 | 0.18 |
| SPEECH MOVEMENT CLASSIFICATION FOR ASSESSING AND TREATING ALS | MGH INSTITUTE OF HEALTH PROFESSIONS | R01 | 2018 | 0.17 |

**Cluster 24**

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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 | 0.38 |
| 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 | 0.38 |
| A Multimodal Approach for Monitoring Prolonged Acute Pain in Neonates | UNIVERSITY OF SOUTH FLORIDA | R21 | 2020 | 0.37 |

**Cluster 25**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| EARLY DETECTION OF LUNG CANCER USING METABOLOMIC LIPID PROFILING | RUSH UNIVERSITY MEDICAL CENTER | R21 | 2014 | 0.22 |
| Lung cancer in East Africa and the relationship to HIV-1 infection: epidemiology, molecular characterization and imaging | CASE WESTERN RESERVE UNIVERSITY | U54 | 2020 | 0.22 |
| High Density Association Analysis of Lung Cancer | UNIVERSITY OF TX MD ANDERSON CAN CTR | R01 | 2010 | 0.21 |
| Lung Screening: Efficacy versus Effectiveness | BROWN UNIVERSITY | R01 | 2020 | 0.21 |
| A diagnostic model for malignant pulmonary nodules | UNIVERSITY OF MARYLAND BALTIMORE | R21 | 2020 | 0.2 |

**Cluster 26**

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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 | 0.32 |
| Medical Advice from Glaucoma Informatics (MAGI) | UNIVERSITY OF CALIFORNIA SAN DIEGO | R33 | 2005 | 0.3 |
| Functional and Structural Optical Coherence Tomography for Glaucoma | OREGON HEALTH & SCIENCE UNIVERSITY | R01 | 2020 | 0.3 |
| Diagnostic Innovations in Glaucoma: Clinical Electrophysiology | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R21 | 2008 | 0.28 |
| A hybrid artificial intelligence framework for glaucoma monitoring | UNIVERSITY OF TENNESSEE HEALTH SCI CTR | R21 | 2020 | 0.27 |

**Cluster 27**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Real-Time Mobile Cognitive Behavioral Intervention for Serious Mental Illness | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R01 | 2016 | 0.051 |
| Testing Scalable, Single-Session Interventions for Adolescent Depression in the context of COVID-19 | STATE UNIVERSITY NEW YORK STONY BROOK | DP5 | 2020 | 0.043 |
| Leveraging Artificial Intelligence for the assessment of severity of depressive symptoms | MASSACHUSETTS GENERAL HOSPITAL | R01 | 2020 | 0.042 |
| An Expert System to Reduce Depression in Primary Care | PRO-CHANGE BEHAVIOR SYSTEMS, INC. | R44 | 2004 | 0.035 |
| AUTOMATED METHODS TO SUPPORT THE DETECTION OF DEPRESSION IN DEMENTIA | CARNEGIE-MELLON UNIVERSITY | RC1 | 2010 | 0.035 |

**Cluster 28**

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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 | 0.066 |
| Analysis of Nonstationary Point Process Data | CARNEGIE-MELLON UNIVERSITY | R01 | 2020 | 0.063 |
| CRCNS: Machine Learning for Analysis of fMRI | STATE UNIVERSITY NEW YORK STONY BROOK | R01 | 2005 | 0.06 |
| CRCNS: Computational and neural mechanisms of memory-guided decisions | PRINCETON UNIVERSITY | R01 | 2018 | 0.059 |
| Machine Learning for Analysis of functional MRI of Underlying Inhibitory Control | STATE UNIVERSITY NEW YORK STONY BROOK | R01 | 2010 | 0.055 |

**Cluster 29**

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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 | 0.3 |
| A Real-Time Computational System for Detecting ARDS Using Ventilator Waveform Data | UNIVERSITY OF CALIFORNIA AT DAVIS | F31 | 2020 | 0.25 |
| Data-Driven Identification of the Acute Respiratory Distress Syndrome | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K01 | 2020 | 0.24 |
| Acute Respiratory Distress Syndrome after Isolated Traumatic Brain Injury: Platelet Biology, Endothelial Activation, and Mechanical Ventilation | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | K23 | 2020 | 0.23 |
| The CRIT-ICU Biomarker Panel for Stratification of Mortality Risk in ARDS Patients | AQUALUNG THERAPEUTICS CORP. | R41 | 2019 | 0.22 |

**Cluster 30**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 | 0.27 |
| 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 | 0.24 |
| Maternal circulating miRNA function in Fetal Alcohol Spectrum Disorders | TEXAS A&M UNIVERSITY HEALTH SCIENCE CTR | F31 | 2019 | 0.22 |

**Cluster 31**

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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 | 0.35 |
| Gene-Gene Interactions and Their Functional Roles in Prostate Cancer Aggressiveness | LSU HEALTH SCIENCES CENTER | R21 | 2017 | 0.35 |
| 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 | 0.32 |
| MRI Imaging and Biomarkers for Early Detection of Aggressive Prostate Cancer | UNIVERSITY OF MIAMI SCHOOL OF MEDICINE | U01 | 2020 | 0.31 |