**Cluster 0**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Systems Microscopy Analysis of Tumor Cell Motility in Microenvironment Context | TEMPLE UNIV OF THE COMMONWEALTH | R00 | 2017 | 0.15 |
| Systems microscopy analysis of tumor cell motility in microenvironment context | ALBERT EINSTEIN COLLEGE OF MEDICINE | K99 | 2014 | 0.15 |
| Genotype and phenotype predictors in therapy response in renal cell carcinoma | UNIVERSITY OF PENNSYLVANIA | R01 | 2013 | 0.11 |
| Quantitative Multimodal Image Guidance for Improved Liver Cancer Treatment | YALE UNIVERSITY | R01 | 2020 | 0.11 |
| Quantifying Multiscale Competitive Landscapes of Clonal Diversity in Glioblastoma | MAYO CLINIC ARIZONA | U01 | 2020 | 0.11 |

**Cluster 1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Integrated Model of Palliative and Primary Care in Seriously Ill Older Adults | BRIGHAM AND WOMEN'S HOSPITAL | R56 | 2017 | 0.045 |
| Predictors of Negative Outcomes Following Acute Care Encounters in Older Medicare | UNIVERSITY OF CALIFORNIA LOS ANGELES | R03 | 2015 | 0.04 |
| Leveraging large-scale national data to understand, reduce, and prevent benzodiazepine-related harms among older adults | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2020 | 0.039 |
| Analytics-Based Platform for Diabetic Retinopathy Care Management | RETINAL CARE, INC. | R41 | 2019 | 0.037 |
| Etiology, Epidemiology, and Clinical Outcomes of Health Care Associated Pneumonia | IDAHO STATE UNIVERSITY | R03 | 2009 | 0.032 |

**Cluster 2**

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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 |
| Functional Architecture of Speech Motor Cortex | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | U01 | 2018 | 0.32 |
| Multimodal Speech Translation for Assistive Communication | NORTHEASTERN UNIVERSITY | R21 | 2015 | 0.32 |
| INTELLIGIBILITY ASSESSMENT IN DYSARTHRIA | UNIVERSITY OF WISCONSIN MADISON | R01 | 2005 | 0.32 |
| SPEECH MOVEMENT CLASSIFICATION FOR ASSESSING AND TREATING ALS | MGH INSTITUTE OF HEALTH PROFESSIONS | R01 | 2018 | 0.32 |

**Cluster 3**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Data-Mining Clinical Decision Support from Electronic Health Records | STANFORD UNIVERSITY | K01 | 2019 | 0.07 |
| A Framework to Enhance Decision Support by Invoking NLP: Methods and Applications | MASSACHUSETTS GENERAL HOSPITAL | R00 | 2018 | 0.061 |
| A Hybrid General Natural Language Processing Architecture | LOGICAL SEMANTICS, INC. | R43 | 2010 | 0.058 |
| Novel Informatics Approaches for Ascertainment of PAD Status and Adverse Outcomes | MAYO CLINIC ROCHESTER | K01 | 2019 | 0.054 |
| From enrichment to insights | STANFORD UNIVERSITY | R01 | 2020 | 0.051 |

**Cluster 4**

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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 | 0.067 |
| Analysis of Nonstationary Point Process Data | CARNEGIE-MELLON UNIVERSITY | R01 | 2020 | 0.064 |
| Bayesian Methods for Localizing Dynamic Brain Activity and Epileptogenic Zones | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | F32 | 2011 | 0.062 |
| CRCNS: Machine Learning for Analysis of fMRI | STATE UNIVERSITY NEW YORK STONY BROOK | R01 | 2005 | 0.06 |
| Massively Parallel Brain Imaging | STANFORD UNIVERSITY | DP1 | 2009 | 0.06 |

**Cluster 5**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Periodontal Disease and the Incidence of Oral Cancer | ROSWELL PARK CANCER INSTITUTE CORP | R03 | 2007 | 0.096 |
| MICRORNA BIOMARKERS FOR CERVICAL CANCER | WASHINGTON UNIVERSITY | R21 | 2015 | 0.083 |
| MICRORNA BIOMARKERS FOR OROPHARYNGEAL CANCER | UNIVERSITY OF ILLINOIS AT CHICAGO | R01 | 2020 | 0.082 |
| Stephenson Cancer Center - Cancer Center Support Grant | UNIVERSITY OF OKLAHOMA HLTH SCIENCES CTR | P30 | 2020 | 0.076 |
| Obesity in ovarian cancer prognosis | UNIV OF MED/DENT NJ-R W JOHNSON MED SCH | K22 | 2012 | 0.076 |

**Cluster 6**

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| --- | --- | --- | --- | --- |
| 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 | 0.21 |
| Computer Aided Diagnosis of Lung Cancer | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2006 | 0.2 |
| Macro-vasculature: A Novel Image Biomarker of Lung Cance | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2020 | 0.19 |
| A diagnostic model for malignant pulmonary nodules | UNIVERSITY OF MARYLAND BALTIMORE | R21 | 2020 | 0.18 |
| Lung Screening: Efficacy versus Effectiveness | BROWN UNIVERSITY | R01 | 2020 | 0.17 |

**Cluster 7**

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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 | 0.36 |
| 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 |
| Developing an artificial intelligence-based mHealth intervention to increase HIV testing in Malaysia | YALE UNIVERSITY | R21 | 2020 | 0.34 |
| HIV Testing, Linkage and Retention in Care: Contextual Factors and Disparities | UNIVERSITY OF CALIFORNIA LOS ANGELES | R01 | 2017 | 0.34 |

**Cluster 8**

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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 | 0.11 |
| Revealing the transcriptomic basis of neuronal identity through functional meta-analysis | COLD SPRING HARBOR LABORATORY | R01 | 2020 | 0.1 |
| Massively parallel dissection of psychiatric regulatory networks | J. DAVID GLADSTONE INSTITUTES | R01 | 2020 | 0.075 |
| Point Impact and Sparsity in Functional Data Analysis. | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2014 | 0.071 |
| Engineering DNA Delivery Polymers using Combinatorial and Cheminformatics Methods | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R01 | 2015 | 0.07 |

**Cluster 9**

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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 |
| Predicting Drug Cardiotoxicity Targets Using iPSC-Derived Cardiomyocytes and Machine Learning | CORNELL UNIVERSITY | F31 | 2020 | 0.11 |
| Mapping the Drugome: predictive network approaches to drug safety surveillance | BOSTON CHILDREN'S HOSPITAL | R00 | 2014 | 0.1 |
| Peripheral Nerve-on-a-chip for Predictive Preclinical Pharmaceutical Testing | AXOSIM, INC. | R42 | 2018 | 0.1 |
| HIGH THROUGHPUT IN VIVO DRUG DISCOVERY-PHASE 1 | PSYCHOGENICS, INC. | R43 | 2005 | 0.095 |

**Cluster 10**

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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 | 0.21 |
| Computer Studies of Protein Structure and Function | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2016 | 0.18 |
| Advanced approaches to protein structure prediction | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R35 | 2020 | 0.18 |
| Proteomics of ciliopathy protein complexes | UNIVERSITY OF TEXAS, AUSTIN | F31 | 2019 | 0.17 |
| Understanding molecular rules governing protein allostery by deep mutational scanning | UNIVERSITY OF WISCONSIN-MADISON | DP2 | 2018 | 0.16 |

**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 |
| Cerebellar connectivity and error-based learning in infants at risk for autism | WASHINGTON UNIVERSITY | F31 | 2020 | 0.25 |
| Investigating quantitative signatures of autism in toddlers | COLUMBIA UNIVERSITY TEACHERS COLLEGE | R01 | 2020 | 0.23 |
| Novel video-based approaches for detection of autism risk in the first year of life | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.23 |
| 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 |
| Clinical algorithm for identifying adult autism | UNIVERSITY OF PENNSYLVANIA | R34 | 2015 | 0.21 |

**Cluster 13**

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

**Cluster 14**

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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 | 0.23 |
| Quantitative Parenchyma Descriptor as an Imaging Biomarker of Breast Cancer Risk | UNIVERSITY OF MICHIGAN AT ANN ARBOR | U01 | 2019 | 0.23 |
| Migraine, Migraine Medication Use, and Risk of Breast Cancer | FRED HUTCHINSON CANCER RESEARCH CENTER | R03 | 2010 | 0.22 |
| EPIDEMIOLOGY OF MOLECULAR RISK FACTORS FOR BREAST CANCER | VANDERBILT UNIVERSITY | R01 | 2004 | 0.22 |
| Informatics Techniques to Optimize Mammography for Aging Populations | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2016 | 0.22 |

**Cluster 15**

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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 | 0.27 |
| 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 |
| Blood Base Bioenergetic Profiling: A Novel Approach for Identifying Alzheimer's Disease Risk and Pathology | WAKE FOREST UNIVERSITY HEALTH SCIENCES | R01 | 2020 | 0.26 |

**Cluster 16**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| PEDIATRIC ASTHMA DISPARITIES: PERCEPTIONS AND MANAGEMENT | RHODE ISLAND HOSPITAL | U01 | 2008 | 0.51 |
| 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 17**

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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 | 0.05 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson???s Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2014 | 0.05 |
| The Gut Microbiome in Parkinson Disease | UNIVERSITY OF MASSACHUSETTS LOWELL | R01 | 2019 | 0.048 |
| Mid-frontal delta/theta rhythms and cognitive control in PD | UNIVERSITY OF IOWA | R01 | 2020 | 0.045 |
| A Software Platform for Sensor-based Movement Disorder Recognition | ALTEC, INC. | R43 | 2014 | 0.043 |

**Cluster 18**

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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 |
| Mouse Model Neuro-Facial Dysmorphology: Tanslational and Treatment Studies | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | U01 | 2011 | 0.27 |
| Spectrum of and Nutritional Risk Factors for FASD in Russia and Ukraine | UNIVERSITY OF CALIFORNIA, SAN DIEGO | U01 | 2011 | 0.26 |
| Administrative Core of the CIFASD | SAN DIEGO STATE UNIVERSITY | U24 | 2020 | 0.24 |
| Image Analysis of Neurofacial Effects of Prenatal Alcohol Exposure | UNIVERSITY OF OXFORD | U01 | 2020 | 0.21 |

**Cluster 19**

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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 | 0.077 |
| Testing Scalable, Single-Session Interventions for Adolescent Depression in the context of COVID-19 | STATE UNIVERSITY NEW YORK STONY BROOK | DP5 | 2020 | 0.06 |
| Leveraging Artificial Intelligence for the assessment of severity of depressive symptoms | MASSACHUSETTS GENERAL HOSPITAL | R01 | 2020 | 0.059 |
| Bioinformatics for post-traumatic stress | UNIVERSITY OF MINNESOTA | R01 | 2020 | 0.052 |
| A Common Framework for "Big Data" Mental Health Research on Twitter | UNIVERSITY OF OREGON | R21 | 2016 | 0.052 |

**Cluster 20**

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| --- | --- | --- | --- | --- |
| 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 21**

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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 |
| 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 |
| Treatment Utilization Before Suicide (TUBS) | HENRY FORD HEALTH SYSTEM | R01 | 2018 | 0.41 |

**Cluster 22**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Clinically Relevant Genome Variation Database | STANFORD UNIVERSITY | U01 | 2016 | 0.093 |
| EMR Phenotype and Community Engaged Genomic Associations | MAYO CLINIC ROCHESTER | U01 | 2014 | 0.089 |
| Statistical Tests for Mapping Genetic Determinants of Complex Traits | EMORY UNIVERSITY | R01 | 2019 | 0.083 |
| International Cohort Collection for Bipolar Disorder | MASSACHUSETTS GENERAL HOSPITAL | R01 | 2012 | 0.076 |
| From GWAS to PheWAS: Scanning the EMR Phenome for Gene-disease Associations | VANDERBILT UNIVERSITY MEDICAL CENTER | R01 | 2017 | 0.075 |

**Cluster 23**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Multi-Site Validation Study of the HLHS Arrest Predictor | BAYLOR COLLEGE OF MEDICINE | R01 | 2020 | 0.1 |
| A Computational Biomechanical Airway Model for Obese Children at Risk for OSAS | ALBERT EINSTEIN COLLEGE OF MEDICINE | R01 | 2020 | 0.099 |
| Development of clinical decision tools for management of diarrhea of children in high and low resource settings | UNIVERSITY OF UTAH | R01 | 2020 | 0.09 |
| Real-Time Prediction of Acute Arrest in Infants with Single Ventricle Physiology | BAYLOR COLLEGE OF MEDICINE | R56 | 2016 | 0.086 |
| Family Intervention with Caregivers of Children with Dental Needs | CASE WESTERN RESERVE UNIVERSITY | U01 | 2016 | 0.08 |

**Cluster 24**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Does Screening for HCC in Cirrhotic Patients Reduce HCC-related Mortality? | SEATTLE INST FOR BIOMEDICAL/CLINICAL RES | R01 | 2018 | 0.44 |
| Novel Machine Learning Methods for Analysis of MALDI-TOF Mass Spectrometry Data | GEORGETOWN UNIVERSITY | R03 | 2008 | 0.43 |
| Surveillance for Hepatocellular Carcinoma among HCV-infected Veterans | BAYLOR COLLEGE OF MEDICINE | R01 | 2009 | 0.42 |
| Development of mosaic mouse models of HCC for genetic interspecies inference | RESEARCH INST OF FOX CHASE CAN CTR | R00 | 2019 | 0.41 |
| Guideline-based surveillance and treatment of hepatocellular carcinoma | BAYLOR COLLEGE OF MEDICINE | R01 | 2013 | 0.37 |

**Cluster 25**

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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 | 0.3 |
| 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 | 0.28 |
| Novel Strategies to Identify GxE Contributions to MS Pathogenesis | UNIVERSITY OF CALIFORNIA BERKELEY | R01 | 2015 | 0.27 |
| Sequential Ion/Ion Reactions for Large Peptide and Whole Protein Characterization | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2015 | 0.24 |

**Cluster 26**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Digital Mammography: Advanced Computer-Aided Breast Can\* | UNIVERSITY OF MICHIGAN | R01 | 2007 | 0.056 |
| Probing Dose Limits in Cardiac SPECT with Reconstruction and Personalized Imaging | ILLINOIS INSTITUTE OF TECHNOLOGY | R01 | 2018 | 0.053 |
| A suite of diagnostic aids based on image retrieval | ILLINOIS INSTITUTE OF TECHNOLOGY | R01 | 2012 | 0.049 |
| Development and Dissemination of MuscleMiner: An Imaging Informatics Tool for Mus | UNIVERSITY OF FLORIDA | R01 | 2018 | 0.048 |
| Development and Dissemination of MuscleMiner: An Imaging Informatics System for Muscle | UNIVERSITY OF FLORIDA | R01 | 2016 | 0.048 |

**Cluster 27**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Discovering hidden groups across tuberculosis patient and pathogen genotype data | RENSSELAER POLYTECHNIC INSTITUTE | R01 | 2010 | 0.015 |
| Precision immunoprofiling to reveal diagnostic biomarkers of latent TB infection | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2020 | 0.014 |
| Circadian Lipidomics in Constant Routine, Forced Desynchrony, and Non-lab Setting | BRIGHAM AND WOMEN'S HOSPITAL | R01 | 2019 | 0.011 |
| Optical Body Composition and Health Assessment | UNIVERSITY OF HAWAII AT MANOA | R01 | 2020 | 0.0097 |
| Computational Models of Infectious Disease Threats | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | U01 | 2008 | 0.0091 |

**Cluster 28**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Institutional Collaboration between LSTM and CDC and Prevention on Malaria(U01) | TMLIVERPOOL SCHOOL OF TROPICAL MEDICINE | U01 | 2015 | 0.22 |
| Vaccine Development for Falciparum Malaria in Pregnant Women and Their Offspring | RHODE ISLAND HOSPITAL | K08 | 2017 | 0.17 |
| Extracellular vesicles and their ncRNA cargo as markers of trophoblast injury | MAGEE-WOMEN'S RES INST AND FOUNDATION | R01 | 2019 | 0.16 |
| Towards noninvasive diagnosis of malaria | CHILDREN'S HOSP OF PHILADELPHIA | R21 | 2020 | 0.16 |
| Fetal-Maternal Histocompatibility and Autoimmune Disease | UNIVERSITY OF CALIFORNIA BERKELEY | F31 | 2016 | 0.096 |

**Cluster 29**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 | 0.38 |

**Cluster 30**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Epidemiology of Stress and GDM among Latina Women | UNIVERSITY OF MASSACHUSETTS AMHERST | R01 | 2009 | 0.12 |
| Bacterial Vaginosis and Spontaneous Abortion | TEMPLE UNIVERSITY | R01 | 2004 | 0.11 |
| AUTOMATED TELE COUNSELING FOR SCREENING MAMMOGRAPHY | BOSTON MEDICAL CENTER | R01 | 2003 | 0.11 |
| COMMUNITY INTERVENTION TO INCREASE MAMMOGRAPHY SCREENING | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | R01 | 2003 | 0.096 |
| DOMESTIC VIOLENCE--CHINESE WOMEN IN THE US AND IN CHINA | JOHNS HOPKINS UNIVERSITY | F31 | 2000 | 0.094 |

**Cluster 31**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Biomarker panel to differentiate stroke from stroke mimic | PREDICTION SCIENCES, LLC | R43 | 2008 | 0.26 |
| Sleep apnea after stroke: Implications for screening and treatment | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2019 | 0.25 |
| Fast and Easy Assessment of Stroke | ALVA HEALTH, INC. | R43 | 2019 | 0.25 |
| Whole Transcriptome Studies of Patients with Transient Ischemic Attacks (TIAs) | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.25 |
| MEDIC ONE STROKE SCALE | UNIVERSITY OF WASHINGTON | K23 | 2003 | 0.23 |