**Cluster 0:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Innovative Research Methods to Study Children with Multiple Chronic Conditions | BOSTON CHILDREN'S HOSPITAL | R21 | 2014 | 0.19 |
| Multi-Site Validation Study of the HLHS Arrest Predictor | BAYLOR COLLEGE OF MEDICINE | R01 | 2020 | 0.18 |
| PREDICTING OUTCOME IN CHILDREN WITH NEW-ONSET TICS USING NEUROIMAGING DATA | WASHINGTON UNIVERSITY | R21 | 2016 | 0.18 |
| The New Tics Study: A Novel Approach to Pathophysiology and Cause of Tic Disorders | WASHINGTON UNIVERSITY | R01 | 2020 | 0.18 |
| Real-Time Prediction of Acute Arrest in Infants with Single Ventricle Physiology | BAYLOR COLLEGE OF MEDICINE | R56 | 2016 | 0.17 |

**Cluster 1:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Background parenchymal uptake (BPU) on molecular breast imaging as a novel breast cancer risk factor | MAYO CLINIC ROCHESTER | R21 | 2016 | 0.38 |
| Informatics Techniques to Optimize Mammography for Aging Populations | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2016 | 0.38 |
| Quantitative Parenchyma Descriptor as an Imaging Biomarker of Breast Cancer Risk | UNIVERSITY OF MICHIGAN AT ANN ARBOR | U01 | 2019 | 0.34 |
| A computer model to improve breast cancer diagnosis | UNIVERSITY OF WISCONSIN-MADISON | K07 | 2010 | 0.33 |
| Collagen structural changes as an early biomarker for breast carcinoma | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2019 | 0.32 |

**Cluster 2:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Multivariate Representations of Emotion | DUKE UNIVERSITY | R21 | 2014 | 0.11 |
| Neurocomputational Approaches to Emotion Representation | DUKE UNIVERSITY | R01 | 2020 | 0.088 |
| Computational and brain predictors of emotion cue integration | STANFORD UNIVERSITY | R01 | 2020 | 0.085 |
| Unpacking Emotion Inflexibility and Prospective Prediction of Affective Disease | KENT STATE UNIVERSITY | R01 | 2020 | 0.074 |
| Mapping connectomes for disordered emotional states | STANFORD UNIVERSITY | U01 | 2020 | 0.073 |

**Cluster 3:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Micropublications for Automating Genome Sequence Variant Interpretation from Medical Literature | GENOMENON, INC. | R43 | 2019 | 0.16 |
| Clinically Relevant Genome Variation Database | STANFORD UNIVERSITY | U01 | 2016 | 0.15 |
| Comprehensive Characterization of Missense Mutants in Factor IX | BLOODWORKS | R01 | 2020 | 0.15 |
| Predicting causal non-coding variants in a founder population | STANFORD UNIVERSITY | R01 | 2017 | 0.14 |
| Deep learning methods to predict the function of genetic variants in orofacial clefts | UNIVERSITY OF TEXAS HLTH SCI CTR HOUSTON | R03 | 2019 | 0.14 |

**Cluster 4:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Predicting Self-Harm, Suicide Attempt, and Suicidal Death using Longitudinal EHR, Claims and Mortality Data | WEILL MEDICAL COLL OF CORNELL UNIV | R01 | 2020 | 0.46 |
| Decision Processes of Late-Life Suicide | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2018 | 0.45 |
| Digital Monitoring of Agitation for Short-Term Suicide Risk Prediction | MASSACHUSETTS GENERAL HOSPITAL | K23 | 2020 | 0.45 |
| Prediction of suicide death using EHR and polygenic risk scores | UNIVERSITY OF UTAH | R01 | 2020 | 0.43 |
| Predictive modeling: the role of opioid use in suicide risk | KAISER FOUNDATION RESEARCH INSTITUTE | R01 | 2020 | 0.43 |

**Cluster 5:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| CATcare: Cognitive Assistive Technology for Dementia Homecare | OKLAHOMA STATE UNIVERSITY STILLWATER | R15 | 2019 | 0.16 |
| Identifying Mechanisms of Dementia: Role for MRI in the Era of Molecular Imaging | MAYO CLINIC ROCHESTER | R01 | 2012 | 0.14 |
| Dementia Risk Prediction Pooling Project | NORTHWESTERN UNIVERSITY AT CHICAGO | R61 | 2020 | 0.14 |
| First Person Vision for Objective Evaluation of Caregiving Quality | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R21 | 2013 | 0.14 |
| Developing and Evaluating In-Home Supportive Technology for Dementia Caregivers | PEOPLE POWER COMPANY | R44 | 2020 | 0.13 |

**Cluster 6:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| ABCD-USA Consortium: Research Project | UNIVERSITY OF CALIFORNIA, SAN DIEGO | U01 | 2019 | 0.24 |
| ABCD-USA Consortium:Research Project | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | U01 | 2019 | 0.23 |
| Using Machine Learning Approaches to Examine Emotion-Related Brain Activity and Substance Use Among Adolescents | GEORGE MASON UNIVERSITY | F31 | 2020 | 0.19 |
| ABCD-USA Consortium: Data Analysis Center | UNIVERSITY OF CALIFORNIA, SAN DIEGO | U24 | 2019 | 0.18 |
| Predicting Substance Use and Related Antisocial Behavior with Psychiatric, Socioeconomic, and Brain Measures in Women Offenders | UNIVERSITY OF NEW MEXICO | F31 | 2020 | 0.15 |

**Cluster 7:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Machine Learning Tools for Discovery and Analysis of Active Metabolic Pathways | UNIVERSITY OF WASHINGTON | R01 | 2020 | 0.15 |
| A Machine-Learning Based Software Widget for Resolving Metabolite Identities | TUFTS UNIVERSITY MEDFORD | R03 | 2016 | 0.15 |
| DATA AND TOOLS FOR MODELING METABOLISM AND REACTIVITY | WASHINGTON UNIVERSITY | R01 | 2019 | 0.14 |
| Modeling Homeostasis of Human Blood Metabolites | UNIVERSITY OF WASHINGTON | R01 | 2020 | 0.12 |
| Tools for Leveraging High-Resolution MS Detection of Stable Isotope Enrichments to Upgrade the Information Content of Metabolomics Datasets | VANDERBILT UNIVERSITY | U01 | 2020 | 0.12 |

**Cluster 8:**

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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 | 0.35 |
| Developing an artificial intelligence-based mHealth intervention to increase HIV testing in Malaysia | YALE UNIVERSITY | R21 | 2020 | 0.32 |
| Big Data Analysis of HIV Risk and Epidemiology in Sub-Saharan Africa | STANFORD UNIVERSITY | R01 | 2020 | 0.31 |
| Developing an Artificial Intelligence Chatbot to Promote HIV Testing | YALE UNIVERSITY | R21 | 2020 | 0.31 |
| Gene Network Identification and Integration (GNetii) Approach to Understanding the Biology Underlying HIV and Drug Abuse. | RESEARCH TRIANGLE INSTITUTE | R01 | 2020 | 0.31 |

**Cluster 9:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Olfactory and facial markers of developmental risk for psychosis in 22q11 deletion syndrome | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.089 |
| Ultra-high field GluCEST MRI and MRS in youth at risk for psychosis | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.085 |
| 2/5 CAPER Computerized assessment of psychosis risk | NORTHWESTERN UNIVERSITY | R01 | 2020 | 0.082 |
| CAPER: Computerized Assessment of Psychosis Risk | TEMPLE UNIV OF THE COMMONWEALTH | R01 | 2020 | 0.082 |
| 4/5 CAPER: Computerized assessment of psychosis risk | UNIVERSITY OF GEORGIA | R01 | 2020 | 0.081 |

**Cluster 10:**

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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 | 0.19 |
| Self Correcting Nanoflow LC-MS for Clinical Proteomics | UNIVERSITY OF WASHINGTON | R01 | 2016 | 0.19 |
| Optimization and joint modeling for peptide detection by tandem mass spectrometry | UNIVERSITY OF WASHINGTON | R01 | 2020 | 0.18 |
| Analysis of LC-MS data to identify peptide and glycan biomarkers for hepatocellul | GEORGETOWN UNIVERSITY | R01 | 2014 | 0.16 |
| Computational approaches to protein identification and quantification using MS/MS | INDIANA UNIVERSITY BLOOMINGTON | R01 | 2015 | 0.16 |

**Cluster 11:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Scalable Assays for Morphological Analysis of Mammalian Neurons | HARVARD MEDICAL SCHOOL | R01 | 2014 | 0.11 |
| Uncovering Population-Level Cellular Relationships to Behavior via Mesoscale Networks | DUKE UNIVERSITY | R01 | 2019 | 0.11 |
| Emergence of Functional Network Dynamics from Single Cell Properties | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | R35 | 2020 | 0.1 |
| Neuron and Glial Cellular Signatures from Normal and Diseased iPS Cells | UNIVERSITY OF CALIFORNIA-IRVINE | U54 | 2020 | 0.1 |
| Neuron and Glial Cellular Signatures from Normal and Diseased iPS Cells-Supplement | UNIVERSITY OF CALIFORNIA-IRVINE | U54 | 2018 | 0.1 |

**Cluster 12:**

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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 | 0.27 |
| EARLY DETECTION OF LUNG CANCER USING METABOLOMIC LIPID PROFILING | RUSH UNIVERSITY MEDICAL CENTER | R21 | 2014 | 0.26 |
| A diagnostic model for malignant pulmonary nodules | UNIVERSITY OF MARYLAND BALTIMORE | R21 | 2020 | 0.26 |
| Lung cancer in East Africa and the relationship to HIV-1 infection: epidemiology, molecular characterization and imaging | CASE WESTERN RESERVE UNIVERSITY | U54 | 2020 | 0.26 |
| Macro-vasculature: A Novel Image Biomarker of Lung Cance | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | R01 | 2020 | 0.25 |

**Cluster 13:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Southern California Clinical Center of the Type 1 Diabetes in Acute Pancreatitis Consortium | CEDARS-SINAI MEDICAL CENTER | U01 | 2020 | 0.19 |
| Validation of Survey Questions to Distinguish Type 1 and Type 2 Diabetes Among Adults With Diabetes | WESTAT, INC. | U01 | 2017 | 0.17 |
| Clinical, Radiologic and Biochemical Factors Related to Diabetes Development after Acute Pancreatitis | JOHNS HOPKINS UNIVERSITY | U01 | 2020 | 0.17 |
| Indiana University clinical Center for acute pancreatitis and diabetes clinical research network | INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS | U01 | 2020 | 0.14 |
| Statistical methods for healthcare in complex patients with diabetes | FRED HUTCHINSON CANCER RESEARCH CENTER | R01 | 2019 | 0.14 |

**Cluster 14:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Tracing the evolution of the human mutation rate | STANFORD UNIVERSITY | F32 | 2017 | 0.28 |
| Massively parallel functional analyses of human PTEN variants | OREGON HEALTH & SCIENCE UNIVERSITY | F31 | 2019 | 0.25 |
| Computational evaluation of the causal role of somatic mutations in human aging | ALBERT EINSTEIN COLLEGE OF MEDICINE | K99 | 2019 | 0.24 |
| Functional Annotation of Natural and Disease Variants in Tryosine Kinases | UNIVERSITY OF GEORGIA | R01 | 2020 | 0.23 |
| Molecular impact of mutations in monogenic disease and cancer | UNIV OF MARYLAND, COLLEGE PARK | R01 | 2018 | 0.23 |

**Cluster 15:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Biomarkers and Genes Associated with Placental Development and Function in Response to Environmental Pollution | UNIVERSITY OF CALIFORNIA LOS ANGELES | R01 | 2020 | 0.13 |
| Spatiotemporal Risk Assessment Modeling of Chemical Mixtures | OREGON STATE UNIVERSITY | K99 | 2019 | 0.12 |
| Bringing Modern Data Science Tools to Bear on Environmental Mixtures: Administrative Supplement for U3 Populations | RICE UNIVERSITY | R01 | 2019 | 0.12 |
| Metal mixtures, children's cognition, and sensitive developmental windows | BOSTON UNIVERSITY MEDICAL CAMPUS | R00 | 2017 | 0.12 |
| Center of Excellence in Environmental Toxicology | UNIVERSITY OF PENNSYLVANIA | P30 | 2020 | 0.11 |

**Cluster 16:**

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

**Cluster 17:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Signals of Epigenetic Modification in Sjogrens Syndrome | UNIVERSITY OF CALIFORNIA BERKELEY | F31 | 2018 | 0.25 |
| Identification of epigenetic subclones in lymphomas and leukemias | WASHINGTON UNIVERSITY | F30 | 2019 | 0.25 |
| Genetic and epigenetic contributions to Sjogren's syndrome | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | R03 | 2016 | 0.25 |
| Defining Genomic Signatures for Aberrant DNA Methylation in Human Cancers | EMORY UNIVERSITY | R01 | 2013 | 0.21 |
| Mathematical Models of Vulnerability and Cell-Type Specific Analysis of DNA Modifications in Aging | UNIVERSITY OF OKLAHOMA HLTH SCIENCES CTR | F31 | 2020 | 0.2 |

**Cluster 18:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Phenotypic assay for drug discovery and personalized medicine based on real-time vibrational spectroscopy enhanced by plasmonic metasurfaces | CORNELL UNIVERSITY | R21 | 2020 | 0.078 |
| A Machine Learning Platform for Adaptive Chemical Screening | MORGRIDGE INSTITUTE FOR RESEARCH, INC. | R01 | 2020 | 0.077 |
| Rules for penetrating the Gram-negative bacterial envelope | UNIVERSITY OF KENTUCKY | R56 | 2018 | 0.076 |
| Mechanism-Driven Virtual Adverse Outcome Pathway Modeling for Hepatotoxicity | RUTGERS THE STATE UNIV OF NJ CAMDEN | R01 | 2020 | 0.068 |
| MegaTrans – human transporter machine learning models | COLLABORATIONS PHARMACEUTICALS, INC. | R41 | 2019 | 0.064 |

**Cluster 19:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Psoriasis Center of Research Translation | CASE WESTERN RESERVE UNIVERSITY | P50 | 2020 | 0.0089 |
| Pre-cancer atlases of cutaneous and hematologic origin (PATCH Center) | HARVARD MEDICAL SCHOOL | U2C | 2020 | 0.0046 |
| Mechanisms and functional consequences of receptor organization at membranes | UT SOUTHWESTERN MEDICAL CENTER | R35 | 2019 | 0.0021 |
| Position Sensitive P-Mer Frequency Clustering with Applications to Classification | SOUTHERN METHODIST UNIVERSITY | R21 | 2012 | 0.0016 |
| Identification of Microbiome Based Markers to Improve Colorectal Cancer Detection | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2020 | 0.0014 |

**Cluster 20:**

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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 | 0.44 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson???s Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2014 | 0.41 |
| Intrinsic Cortical Networks and Cognitive Dysfunction in Parkinson's Disease | UNIVERSITY OF COLORADO DENVER | K02 | 2017 | 0.41 |
| Multi-tissue high-throughput proteomic and genomic study in Parkinson's Disease | WASHINGTON UNIVERSITY | R01 | 2020 | 0.4 |
| Analytic Methods for Determining Multimodal Biomarkers for Parkinson's Disease | COLUMBIA UNIVERSITY HEALTH SCIENCES | U18 | 2014 | 0.38 |

**Cluster 21:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| The When to Worry about Language Study (W2W-L): Joint consideration of developmental patterning and neural substrates for enhancing earlyidentification of language impairment | NORTHWESTERN UNIVERSITY | R01 | 2020 | 0.18 |
| Structural and Semantic Cues for the Acquisition of Linguistic Regularties | UNIVERSITY OF WISCONSIN-MADISON | F31 | 2011 | 0.17 |
| Administrative Supplement to The When to Worry about Language Study (W2W-L) | NORTHWESTERN UNIVERSITY | R01 | 2020 | 0.16 |
| Neurocognitive determinants of adolescent second language literacy development | HASKINS LABORATORIES, INC. | R01 | 2015 | 0.16 |
| Statistical Learning in Language Acquisition | UNIVERSITY OF WISCONSIN-MADISON | R37 | 2019 | 0.15 |

**Cluster 22:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Towards cortical visual prosthetics | BOSTON CHILDREN'S HOSPITAL | R21 | 2010 | 0.25 |
| Representation of information across the human visual cortex | UNIVERSITY OF CALIFORNIA BERKELEY | R01 | 2018 | 0.24 |
| Neural and Behavioral Interactions Between Attention, Perception, and Learning | PRINCETON UNIVERSITY | R01 | 2015 | 0.23 |
| Visual Summary-Statistic Processing in Infancy | NORTH DAKOTA STATE UNIVERSITY | R15 | 2014 | 0.19 |
| Bioinformatics Approaches to Visual Disease Genetics | DARTMOUTH COLLEGE | R01 | 2014 | 0.18 |

**Cluster 23:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Nasal biomarkers of asthma | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | R01 | 2019 | 0.52 |
| Multi-Omics Analysis of the Association of Polyunsaturated Fatty Acids with Asthma and Allergy in Childhood | BRIGHAM AND WOMEN'S HOSPITAL | K08 | 2020 | 0.47 |
| SCH: kHealth: Semantic Multisensory Mobile Approach to Personalized Asthma Care | WRIGHT STATE UNIVERSITY | R01 | 2018 | 0.46 |
| INTEGRATIVE GENOMICS APPROACHES TO MODEL THE GENETIC ARCHITECTURE OF ASTHMA | BRIGHAM AND WOMEN'S HOSPITAL | R00 | 2014 | 0.46 |
| Integrative Genomics Approaches to Model the Genetic Architecture of Asthma | UNIVERSITY OF PENNSYLVANIA | R00 | 2015 | 0.46 |

**Cluster 24:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Estimating Population Effects in Mental Health Research Using Meta-Analysis | DUKE UNIVERSITY | R00 | 2020 | 0.1 |
| Real-Time Mobile Cognitive Behavioral Intervention for Serious Mental Illness | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R01 | 2016 | 0.1 |
| Monitoring and Stabilizing Behavioral Rhythms to Improve Mental Health | HEALTH RHYTHMS, INC. | R44 | 2018 | 0.093 |
| Scaling a smarter and more efficient intervention: Evaluating the feasibility of disseminating a novel mobile app platform to treat depression | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | R34 | 2018 | 0.09 |
| Impact of Telemedicine on Medicare Beneficiaries with Mental Illness | HARVARD MEDICAL SCHOOL | R01 | 2019 | 0.087 |

**Cluster 25:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Improved Techniques for Substitute CT Generation from MRI datasets | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2020 | 0.074 |
| Automatic Organ Segmentation Tool for Radiation Treatment Planning of Cancers | CARINA MEDICAL, LLC | R44 | 2020 | 0.061 |
| Robust AI to develop risk models in retinopathy of prematurity using deep learning | MASSACHUSETTS GENERAL HOSPITAL | R21 | 2020 | 0.048 |
| Synergistic integration of deep learning and regularized image reconstruction for positron emission tomography | UNIVERSITY OF CALIFORNIA AT DAVIS | R21 | 2019 | 0.045 |
| Deep learning techniques for time-of-flight PET detectors | UNIVERSITY OF CALIFORNIA AT DAVIS | R03 | 2019 | 0.041 |

**Cluster 26:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Continuous Non-Invasive Blood Pressure Monitor for Neonates | PYRAMES, INC. | R43 | 2020 | 0.12 |
| Development of epidermal, wireless sensor tattoos for non-invasive monitoring of biofluid composition | TUFTS UNIVERSITY MEDFORD | F32 | 2016 | 0.11 |
| Dense Life-log Health Analytics from Wearable Sensors using Functional Analysis and Riemannian Geometry | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R01 | 2020 | 0.1 |
| Evaluating and Improving Assistive Robotic Devices Continuously and in Real-time | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R03 | 2019 | 0.099 |
| Dense life-log health analytics from wearable senors using functional analysis and Riemannian geometry | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R01 | 2020 | 0.093 |

**Cluster 27:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Computational genome-wide RNA profiling using next-generation sequencing | UNIVERSITY OF PENNSYLVANIA | R01 | 2016 | 0.3 |
| Programmable RNA-targeting CRISPR-Cas tools to study RNA biology | UNIVERSITY OF ROCHESTER | R35 | 2020 | 0.29 |
| Defining the messenger RNP code in the brain | UNIVERSITY OF CALIFORNIA, SAN DIEGO | R01 | 2016 | 0.25 |
| An Automated RNA 3D Structure Determination System | NYMIRUM, INC. | R44 | 2016 | 0.25 |
| Revealing Principles of Subcellular RNA Localization by Proximity Labeling | STANFORD UNIVERSITY | K99 | 2020 | 0.24 |

**Cluster 28:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Using Big Data to Understand Sepsis in an Immunocompromised Population | UNIVERSITY OF WASHINGTON | F31 | 2020 | 0.15 |
| Enhancing an EMR-Based Real-Time Sepsis Alert System Performance through Machine Learning | WAYNE STATE UNIVERSITY | R21 | 2017 | 0.15 |
| Pediatric sepsis prediction: a machine learning solution for patient diversity | DASCENA, INC. | R43 | 2018 | 0.14 |
| Sepsis Early Prediction and Subphenotype Illumination Study (SEPSIS) | UNIVERSITY OF CHICAGO | R01 | 2019 | 0.14 |
| Using clinical treatment data in a machine learning approach for sepsis detection | DASCENA, INC. | R43 | 2018 | 0.14 |

**Cluster 29:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Center for Cell Circuits | BROAD INSTITUTE, INC. | P50 | 2015 | 0.22 |
| Neuromodulatory control of collective circuit dynamics in C. elegans | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | R01 | 2020 | 0.22 |
| High Resolution Connectomics of Mammalian Neural Circuits | HARVARD UNIVERSITY | R01 | 2015 | 0.21 |
| High throughput assaying of circuit activity and connectivity in brain organoids | HARVARD UNIVERSITY | RF1 | 2020 | 0.17 |
| Neural circuits in zebrafish: form, function and plasticity | HARVARD UNIVERSITY | U01 | 2016 | 0.16 |

**Cluster 30:**

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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 | 0.38 |
| Perception of dysarthric speech: An objective model of dysarthric speech evaluation with actionable outcomes | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R01 | 2020 | 0.37 |
| Dynamics of Vocal Tract Shaping | UNIVERSITY OF SOUTHERN CALIFORNIA | R01 | 2020 | 0.36 |
| Objectively Quantifying Speech Outcomes of Children with Cleft Palate | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R21 | 2019 | 0.34 |
| Functional Architecture of Speech Motor Cortex | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | U01 | 2018 | 0.33 |

**Cluster 31:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Sleep apnea after stroke: Implications for screening and treatment | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R01 | 2019 | 0.35 |
| Fast and Easy Assessment of Stroke | ALVA HEALTH, INC. | R43 | 2019 | 0.34 |
| Prediction Model for Incident Stroke for Early Screening of an Individual at Risk of Stroke | IHEALTHSCREEN, INC. | R43 | 2018 | 0.34 |
| Whole Genome RNA Sequencing (RNAseq) of Blood from Patients with Lacunar Stroke | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2019 | 0.33 |
| Whole Transcriptome Studies of Patients with Transient Ischemic Attacks (TIAs) | UNIVERSITY OF CALIFORNIA AT DAVIS | R01 | 2020 | 0.32 |

**Cluster 32:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Using connectomics to characterize risk for Alzheimer's Disease | MEDICAL UNIVERSITY OF SOUTH CAROLINA | R01 | 2020 | 0.29 |
| Assessing ASL CBF as a biomarker for early Alzheimer's disease detection and disease progression | UNIVERSITY OF MARYLAND BALTIMORE | R01 | 2020 | 0.29 |
| Drug repurposing for Alzheimer's disease using structural systems pharmacology. | HUNTER COLLEGE | R01 | 2019 | 0.28 |
| Circadian Organization and Disorder in Alzheimer's Disease | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.28 |
| Genetic Predictors, Transcriptomic Biomarkers, & Neurobiological Signatures of Resilience to Alzheimer's Disease | UPSTATE MEDICAL UNIVERSITY | R01 | 2020 | 0.28 |

**Cluster 33:**

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| --- | --- | --- | --- | --- |
| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Model Development for Prediction of Surgical Outcome in Temporal Lobe Epilepsy Patients: Incorporation of the Correlation between Post-Surgical Reorganization Phenotypes and Pre-Surgical Data | THOMAS JEFFERSON UNIVERSITY | R01 | 2020 | 0.015 |
| Assessment of Peripherally Circulating Plasma Proteins and Clinical Risks to Differentiate Epileptic Seizure from Psychogenic Nonepileptic Seizure | EVOGEN, INC. | R43 | 2019 | 0.013 |
| Automated Phenotyping in Epilepsy | STANFORD UNIVERSITY | R01 | 2020 | 0.013 |
| Secondary use of EMRs for surgical complication surveillance | MAYO CLINIC ROCHESTER | R01 | 2020 | 0.012 |
| Reliable Seizure Prediction Using Physiological Signals and Machine Learning | MAYO CLINIC ROCHESTER | R01 | 2019 | 0.011 |

**Cluster 34:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Coding of auditory space in the avian brain | ALBERT EINSTEIN COLLEGE OF MEDICINE | R01 | 2014 | 0.38 |
| Top-down control of auditory processing in the cortico-collicular network | OREGON HEALTH & SCIENCE UNIVERSITY | R01 | 2019 | 0.37 |
| Top-down control of auditory processing in the cortico-collicular network (Administrative Supplement) | OREGON HEALTH & SCIENCE UNIVERSITY | R01 | 2017 | 0.37 |
| Decoding parametric attributes of auditory working memories from human brain activity | MASSACHUSETTS GENERAL HOSPITAL | R01 | 2020 | 0.28 |
| CRCNS: The role of sound statistics for discrimination and coding of sounds | UNIVERSITY OF CONNECTICUT STORRS | R01 | 2019 | 0.26 |

**Cluster 35:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Transforming Analytical Learning in the Era of Big Data | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R25 | 2020 | 0.18 |
| Administrative Supplement Request for Transforming Analytical Learning in the Era of Big Data | UNIVERSITY OF MICHIGAN AT ANN ARBOR | R25 | 2016 | 0.17 |
| Fisk University/UIUC-Mayo KnowENG BD2K Center R25 Partnership | FISK UNIVERSITY | R25 | 2019 | 0.16 |
| Summer Institute for Statistics of Big Data | UNIVERSITY OF WASHINGTON | R25 | 2016 | 0.15 |
| The Big DIPA: Data Image Processing and Analysis | UNIVERSITY OF CALIFORNIA-IRVINE | R25 | 2017 | 0.13 |

**Cluster 36:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| PAGES: Physical Activity Genomics, Epigenomics/transcriptomics Site | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | U24 | 2020 | 0.41 |
| Immune Basis & Clinical implications of Threshold-Based Phenotypes of Peanut Allergy | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | U19 | 2020 | 0.35 |
| Machine Learning Algorithms to Measure Physical Activity in Children with Cerebral Palsy | DREXEL UNIVERSITY | R21 | 2017 | 0.34 |
| Novel Analytic Techniques to Assess Physical Activity | UNIVERSITY OF MASSACHUSETTS AMHERST | R01 | 2010 | 0.34 |
| Novel Models to Predict Energy Expenditure and Physical Activity in Preschoolers | BAYLOR COLLEGE OF MEDICINE | R01 | 2013 | 0.33 |

**Cluster 37:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Statistical methods for vitamin D targets for functional outcomes in older adults | UNIVERSITY OF MARYLAND BALTIMORE | R01 | 2019 | 0.22 |
| Voice2Connect: Informing the Design of Smart Speakers for Social Connectedness in Low-Income Older Adults | VIRGINIA COMMONWEALTH UNIVERSITY | R03 | 2020 | 0.22 |
| A Personalized Health Behavior System to Promote Well-Being in Older Adults | WEILL MEDICAL COLL OF CORNELL UNIV | R01 | 2020 | 0.22 |
| Uncovering and Surveilling Financial Deception Risk in Aging | UNIVERSITY OF FLORIDA | R01 | 2020 | 0.19 |
| Integrated Web-Based Customer Engagement, Physical Exercise, and Coaching Platform for Older Adults | VIGOROUS MIND, INC. | R43 | 2017 | 0.19 |

**Cluster 38:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Data-Driven Identification of the Acute Respiratory Distress Syndrome | UNIVERSITY OF MICHIGAN AT ANN ARBOR | K01 | 2020 | 0.14 |
| A Real-Time Computational System for Detecting ARDS Using Ventilator Waveform Data | UNIVERSITY OF CALIFORNIA AT DAVIS | F31 | 2020 | 0.14 |
| TREAT ECARDS: Translating Evidence into Action: Electronic Clinical Decision Support in ARDS | ALBERT EINSTEIN COLLEGE OF MEDICINE | R18 | 2020 | 0.13 |
| Acute Respiratory Distress Syndrome after Isolated Traumatic Brain Injury: Platelet Biology, Endothelial Activation, and Mechanical Ventilation | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | K23 | 2020 | 0.13 |
| Rule Based Semantics and Big Data Based Methods for Early Identification of Patients at Risk of Acute Respiratory Distress Syndrome (ARDS) | COMPUTER TECHNOLOGY ASSOCIATES, INC. | R43 | 2017 | 0.12 |

**Cluster 39:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Predicting brain tumor progression via multiparametric image analysis and modelin | UNIVERSITY OF PENNSYLVANIA | R01 | 2018 | 0.25 |
| Engineering personalized micro-tumor ecosystems | BRIGHAM AND WOMEN'S HOSPITAL | U01 | 2020 | 0.22 |
| Molecular Characterization of Parotid Gland Tumors | UNIVERSITY OF CALIFORNIA LOS ANGELES | R56 | 2012 | 0.22 |
| Quantitative Multimodal Image Guidance for Improved Liver Cancer Treatment | YALE UNIVERSITY | R01 | 2020 | 0.21 |
| Exploring the Role of Mitochondrial Fission in Pancreatic Tumorigenesis | UNIVERSITY OF VIRGINIA | R01 | 2017 | 0.21 |

**Cluster 40:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Computational methods for modeling lineage-specific gene regulation | STANFORD UNIVERSITY | R01 | 2016 | 0.19 |
| Computational Inference of Regulatory Network Dynamics on Cell Lineages | UNIVERSITY OF WISCONSIN-MADISON | R01 | 2020 | 0.18 |
| Methods for analysis of regulatory variation in cellular differentiation | JOHNS HOPKINS UNIVERSITY | R01 | 2019 | 0.18 |
| Learning Regulatory Drivers of Chromatin and Expression Dynamics during Nuclear Reprogramming | STANFORD UNIVERSITY | R01 | 2019 | 0.17 |
| Integrative analysis tools to dissect cell-type specific transcriptional programs | SLOAN-KETTERING INST CAN RESEARCH | R01 | 2014 | 0.16 |

**Cluster 41:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Leveraging National Sleep Research Resource Data for Personalized Sleep Profiling | BRIGHAM AND WOMEN'S HOSPITAL | R01 | 2020 | 0.42 |
| Sleep Health Profiles in Middle-aged Workers in Relation to Cardiovascular and Cognitive Health | UNIVERSITY OF SOUTH FLORIDA | R56 | 2020 | 0.42 |
| Administrative Supplement for Sleep and Cardiometabolic Health Disparities at the US/Mexico Border: The Nogales Cardiometabolic Health and Sleep (NoCHeS) Study | UNIVERSITY OF ARIZONA | R01 | 2019 | 0.41 |
| Sleep and Cardiometabolic Health Disparities at the US/Mexico Border: The Nogales Cardiometabolic Health and Sleep (NoCHeS) Study | UNIVERSITY OF ARIZONA | R01 | 2020 | 0.4 |
| Enhanced Measurement and Modeling of Sleep Electrophysiology to Better Understand Sleep Disparities | BRIGHAM AND WOMEN'S HOSPITAL | R21 | 2020 | 0.39 |

**Cluster 42:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Point-of-care antimicrobial susceptibility testing based on simultaneous tracking of multi-phenotypic features of single bacterial cells | ARIZONA STATE UNIVERSITY-TEMPE CAMPUS | R01 | 2020 | 0.087 |
| Systems Biology of Microbiome-mediated Resilience to Antibiotic-resistant Pathogens | SLOAN-KETTERING INST CAN RESEARCH | U01 | 2019 | 0.086 |
| Preventing antimicrobial resistance and infections in hospitalized neonates in low resource settings | JOHNS HOPKINS UNIVERSITY | K23 | 2020 | 0.086 |
| Integrated Microbial Screening and Antimicrobial Susceptibility Test on Microfluidic Digital Array for Diagnosis of Urinary Tract Infections | COMBINATI, INC. | R41 | 2019 | 0.085 |
| FAST platform for same-shift, complete antibiotic menu antibiotic susceptibility testing | SELUX DIAGNOSTICS, INC. | R43 | 2018 | 0.082 |

**Cluster 43:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Neurocomputational mechanisms of proactive social behavior deficits in autism spectrum disorder | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI | R01 | 2020 | 0.29 |
| Harmonization for multisite Connectomics: parsing heterogeneity and creating markers in ASD | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.26 |
| 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 | 0.26 |
| Temporal connectomics for infant brain: neurodevelopment modulated by pathology | UNIVERSITY OF PENNSYLVANIA | R01 | 2020 | 0.26 |
| Investigating quantitative signatures of autism in toddlers | COLUMBIA UNIVERSITY TEACHERS COLLEGE | R01 | 2020 | 0.26 |

**Cluster 44:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Machine Learning-Based Control of Functional Electrical Stimulation | UNIVERSITY OF ARIZONA | R56 | 2017 | 0.13 |
| Machine-learning based control of functional electrical stimulation | UNIVERSITY OF ARIZONA | R01 | 2020 | 0.13 |
| Enabling forelimb function with agonist drug and epidural stimulation in SCI | UNIVERSITY OF CALIFORNIA LOS ANGELES | U01 | 2017 | 0.12 |
| The neural workings of self-initiated and quasi-automatic movements | COLUMBIA UNIVERSITY HEALTH SCIENCES | F32 | 2016 | 0.12 |
| Electrocorticography signals for human hand prosthetics | UNIVERSITY OF WASHINGTON | R01 | 2014 | 0.11 |

**Cluster 45:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| How Cannabis Use Affects Alcohol Treatment Outcomes | PUBLIC HEALTH INSTITUTE | R21 | 2016 | 0.31 |
| Mediators and Moderators of a Neighborhood Experiment on Alcohol Use | UNIVERSITY OF MINNESOTA | R21 | 2017 | 0.31 |
| Alcohol Misuse: An Independent Risk Factor that Increases the Incidence and Severity of COVID-19 | RUSH UNIVERSITY MEDICAL CENTER | R24 | 2020 | 0.3 |
| Ambulatory assessment of alcohol use, mood dysregulation, and alcohol craving | UNIVERSITY OF MISSOURI-COLUMBIA | R21 | 2014 | 0.3 |
| Estimating BrAC/BAC from Transdermal Alcohol: Combining First-Principles Physiological Models with Machine-Learning to Create Software to Optimally Process and Quantitatively Interpret Biosensor Data | UNIVERSITY OF SOUTHERN CALIFORNIA | R01 | 2020 | 0.27 |

**Cluster 46:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Multi-omic Subtyping of Chronic Obstructive Pulmonary Disease | BRIGHAM AND WOMEN'S HOSPITAL | K08 | 2020 | 0.48 |
| Combined Cardiopulmonary Failure in COPD: SPIROMICS HF | COLUMBIA UNIVERSITY HEALTH SCIENCES | R01 | 2020 | 0.47 |
| Autoimmunity as a Mechanism for Atherosclerosis in COPD | UNIVERSITY OF PITTSBURGH AT PITTSBURGH | K23 | 2019 | 0.47 |
| Predictive Modeling with Clinical and Genomic Data in COPD | BRIGHAM AND WOMEN'S HOSPITAL | K08 | 2014 | 0.46 |
| Machine Learning Development for Subtyping COPD | BRIGHAM AND WOMEN'S HOSPITAL | K25 | 2020 | 0.44 |

**Cluster 47:**

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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 | 0.34 |
| Predicting the Presence of Clinically Significant Prostate Cancer using Multiparametric MRI and MR-US Fusion Biopsy | UNIVERSITY OF CALIFORNIA LOS ANGELES | R21 | 2019 | 0.34 |
| Genetic & epigenetic analysis of angiogenesis genes in recurrent prostate cancer | H. LEE MOFFITT CANCER CTR & RES INST | R01 | 2012 | 0.32 |
| Development of a Multimodal Deep Learning Model for the Generation of Cancer Probability Maps and Imaging Biomarkers for Prostate Cancer using Multiparametric MRI | UNIVERSITY OF CALIFORNIA LOS ANGELES | F30 | 2018 | 0.31 |
| Imaging of prostate cancer by combined quantitative ultrasound and acoustic-radiation-force-impulse imaging | RIVERSIDE RESEARCH INSTITUTE | R03 | 2019 | 0.28 |

**Cluster 48:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Automated quantitative CT imaging of epicardial adipose tissue and risk of cardiac events | CEDARS-SINAI MEDICAL CENTER | R01 | 2019 | 0.17 |
| Innovative MRI-based Characterization of Cardiac Dyssynchrony | RUTGERS, THE STATE UNIV OF N.J. | R01 | 2018 | 0.16 |
| Charting a New Course for Heart Failure: From Discovery to Data | KEYSTONE SYMPOSIA | R13 | 2020 | 0.16 |
| Dynamic prediction of heart failure using real-time functional status and EHR data in the ambulatory setting | UNIVERSITY OF CALIFORNIA, SAN FRANCISCO | K23 | 2020 | 0.15 |
| Advanced Heart Failure: Epidemiology and Outcomes | MAYO CLINIC ROCHESTER | R01 | 2020 | 0.14 |

**Cluster 49:**

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| Title | Awardee | Award Activity | Year | Sample Silhouette Score |
| Deep learning based antibody design using high-throughput affinity testing of synthetic sequences | MASSACHUSETTS INSTITUTE OF TECHNOLOGY | R01 | 2020 | 0.42 |
| Alicanto: Proteogenomic discovery of single chain antibodies in llama | DIGITAL PROTEOMICS LLC | R43 | 2018 | 0.42 |
| Structural bioinformatics software for epitope selection and antibody engineering | DNASTAR, INC. | R44 | 2015 | 0.41 |
| The Antibody Registry: A Community Authority for Antibody Research Resource Identifiers | SCICRUNCH, INC. | R41 | 2019 | 0.4 |
| Neutralization Fingerprinting Analysis of Polyclonal Antibody Responses against HIV-1 | VANDERBILT UNIVERSITY MEDICAL CENTER | R01 | 2020 | 0.39 |