



Research Classification Code Definitions & Guidance

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Standard Research Classification (SRC) Codes

Code Definitions and Guidance

Code	Definition
<p>Technology Development *No human or animal subjects</p>	<p>The generation and/or modification of technology (either physical or virtual) or instruments or tools. Does not include animal or human participant research. If the project does include testing in animal models or human participants, it should be coded as Pre-Clinical Translational Research or Clinical Research and Trials, respectively.</p>
<p>Discovery/Basic Research *No human subjects</p>	<p>Fundamental research for the generation of new ideas, knowledge, hypotheses, models, or preliminary data to support applied and more advanced research. Projects that are utilizing cell models/in vitro systems, regardless of cell origin, should be considered basic/discovery research.</p>
<p>Pre-Clinical Translational Research *Animal models, but no human subjects</p>	<p>Research utilizing basic research findings to develop material and knowledge products to prevent, diagnose, or treat diseases/conditions. This includes research that studies the transfer and evaluation of results from the laboratory to the clinic such as pre-IND/IDE work. Projects may include testing using animal models and animal validation. In vitro studies that utilize human data or specimens that cannot be linked to a living individual and meet the requirements for exemption under §46.104(d)(4) of the Common Rule should be coded within this category.</p>
<p>Clinical Research and Trials *Human subjects</p>	<p>A clinical trial is defined in the Code of Federal Regulations, Title 45, Part 46.102 (45 CFR 46.102) as a research study in which one or more human subjects are prospectively assigned to one or more interventions (which may include a placebo or another control) to evaluate the effects of the interventions on biomedical or behavioral health-related outcomes.</p> <p>Clinical research encompasses research with human data, human specimens, and/or interaction with human subjects. Clinical research is observational in nature and includes:</p> <p>(1) Research conducted with human subjects and/or material of human origin such as data, specimens, and cognitive phenomena for which an investigator (or co-investigator) does not seek to assess the safety, effectiveness, and/or efficacy outcomes of an intervention. Research meeting this definition may include but is not limited to: (a) mechanisms of human disease; (b) diagnostic or detection studies (e.g., biomarker or imaging); (c) health disparity studies; and (d) development of new technologies.</p> <p>(2) Epidemiologic and behavioral studies that do not seek to assess the safety, effectiveness, and/or efficacy outcomes of an intervention.</p> <p>(3) Outcomes research and health services research that do not fit under the</p>

definition of clinical trial.

Excluded from the definition of clinical research are in vitro studies that utilize human data or specimens that cannot be linked to a living individual and meet the requirements for exemption under [§46.104\(d\)\(4\) of the Common Rule](#), which should be coded as Pre-Clinical Translational Research.

Scientific Classification System (SCS) Codes

Code Definitions and Guidance

SCS Categories:

SCS Code	Category Name	Definition
0100	Cell Biology	Covers the study of the cell and its structure, including cellular organization, regulation, composition, and function on normal and transformed cells.
0200	Genetics and Molecular Biology	Covers studies on the molecular structures and events underlying biological processes, especially the relation between genes and the functional characteristics they determine.
0300	Endocrinology	Covers studies on the structure and function of endocrine glands, their products, and their control, to include hormones and their receptors.
0400	Pathobiology	Covers studies on the pathobiology of cells and tissues specifically related to the development of disease or injury.
0500	Immunology	Covers studies of the cell mediated and humoral aspects of immunity and immune responses excluding therapeutic manipulations of the immune system.
0600	Primary Prevention	Covers studies on the prevention of disease or injury.
0700	Detection and Diagnosis	Covers the study of improved detection, diagnostic and prognostic techniques. Includes studies investigating disease/injury presence and potential responses to prevention and treatment strategies.
0800	Clinical and Experimental Therapeutics	Covers studies on agents and devices to assess their use in treatment. Includes model systems ranging from cell cultures to animals and humans.
0900	Complementary and Alternative Medicine	Covers studies of treatments and practices that reflect nontraditional forms of intervention or supportive methods that complement or add to mainstream treatments.
1000	Health Care Delivery	Covers studies assessing the delivery of disease or injury prevention, detection, treatment and rehabilitation services.
1100	Biobehavioral Sciences	Covers studies describing knowledge, attitudes and behavior in defined populations and assessing the relationship(s) between behavioral and social functioning and disease or injury initiation, progression, detection, treatment, and rehabilitation.
1200	Epidemiology	Covers population-based observational research studies of the distribution of disease/injury as well as the behavioral and/or biological determinants of disease/injury risk, initiation/occurrence, progression, detection and/or prognosis.
1300	Research Resources	Covers support for the development and/or maintenance of institutional, regional, or national resources to sustain biomedical research.

Scientific Classification System (SCS)

SCS Code	Category Name	Definition
1400	Neuroscience	Covers studies pertaining to the chemistry and biology of the central and peripheral nervous systems.
1500	Computational Biology	Covers studies that utilize mathematical models and numerical solutions to analyze biological systems or expand the usefulness of scientific data.
1600	Devices	Covers studies of an instrument, apparatus, implement, machine, implant, or other similar or related article, including software, a component part, or accessory, which is intended for use in the diagnosis, assessment, cure, mitigation, treatment, or prevention of a disease, disorder, or injury.

Scientific Classification System (SCS)

0100: Cell Biology		
SCS Code	Category Name	Definition
0101	Cell Cycle	Covers studies on the sequence and regulation of cellular events between mitotic divisions.
0102	Cellular Structure	Covers studies on cell size, shape, and polarity, as well as subcellular structures such as the cell nucleus, mitochondria, peroxisomes, lipid droplets, autophagosomes, cytoskeleton, primary cilia, and membrane microdomains. Also includes studies on cell motility.
0103	Growth Factors/Cytokines	Covers studies on polypeptides and their receptors which control the ontogeny and maintenance of tissue form and function.
0104	Oncogenes	Covers studies on genes whose mutation or overexpression promotes tumor development/malignant phenotype.
0105	Tumor Suppressor Genes	Covers studies on genes whose mutation or inactivation leads to tumor development/malignant phenotype.
0106	Metabolism	Covers studies on the sum of all physical and chemical processes by which an organism is produced and maintained as well as the transformations by which energy is made available for use by the organism.
0107	Signal Transduction	Covers studies on the activation of intracellular response pathways.
0108	Structural Chemistry/ Structural Biology	Studies to determine the structure of biological compounds such as X-ray crystallography and nuclear magnetic resonance.
0109	Functional Study of Biological Molecules	Studies that determine the function of newly identified biological molecules or novel functions of previously studied molecules.
0110	Electrophysiology	Covers studies on the electrical properties of cells.
0111	Cellular Development	Covers studies on the development and differentiation of cells, including embryonic and adult stem cells but excluding cancer stem cells.
0112	Cell Adhesion	Covers the study of proteins and other macromolecules that are involved in mediating the recognition and adhesion of cells to their substrates and to other cells; including integrins, extracellular matrix, membrane bound proteins, and cytoskeletal components.
0199	Not Otherwise Specified	Covers studies in cell biology not otherwise specified in the other research areas.

Scientific Classification System (SCS)

0200: Genetics and Molecular Biology		
SCS Code	Category Name	Definition
0201	Chromosome Structure	Covers studies on the organization of the DNA into a chromosome, and the accompanying chromosomal elements and staining and sequencing techniques.
0202	DNA Damage and Repair	Covers studies on the mechanisms of DNA damage as well as the enzymatic correction of errors in DNA structure and sequence.
0203	Genomic Instability	Covers studies on genetic changes that result in new combinations of alleles and/or chromosomal modifications such as crossing over, deletions, translocations, and loss of heterozygosity.
0204	Familial and Hereditary Disorders	Covers studies of genes and their products which cause disease in familial or hereditary clusters.
[0205]	[Removed]	[Removed]
[0206]	[Removed]	[Removed]
0207	Genomics	Covers the study of a set or subset of genes expressed in organelles, cells, tissue, disease states or organisms. Also includes technology development in the field of genomics.
0208	Proteomics	Covers the study of a set or subset of proteins expressed in organelles, cells, tissue, disease states or organisms. Also includes technology development in the field of proteomics.
0209	Transcription	Covers studies on the process by which RNA is copied from a DNA template. This includes the study of the process and regulation of gene methylation, acetylation, and phosphorylation.
0210	Translation and Modification	Covers studies on the process whereby proteins are generated from an RNA template. Also includes studies of regulation and post-transcriptional gene silencing.
0299	Not Otherwise Specified	Covers studies in molecular biology and genetics not otherwise specified in the other research areas.

Scientific Classification System (SCS)

0300: Endocrinology		
SCS Code	Category Name	Definition
0301	Clinical Endocrinology	Covers studies of hormonal functions, ligand interactions, and metabolism as it relates to bedside and clinical applications.
0302	Endocrine Pathogenesis	Covers studies on the role of hormones in the initiation and progression of disease.
0303	Hormone Metabolism	Covers studies of the biosynthesis, degradation, and enzymatic interconversions of hormones and structural analogs.
0304	Hormone Receptors	Covers studies related to membrane-bound or intracellular molecules that bind with high affinity to, or respond to, hormones.
0305	Mechanism of Hormone Action	Covers studies of interactions between a ligand, its receptor, and co-activators, in targeted metabolic processes, and the downstream consequences of these interactions.
0399	Not Otherwise Specified	Covers studies in endocrinology not otherwise specified in the other research areas.

Scientific Classification System (SCS)

0400: Pathobiology		
SCS Code	Category Name	Definition
0401	Angiogenesis	Covers studies on neo-vascularization associated with wound healing and/or tumor growth.
0402	Apoptosis	Covers studies on the process of a particular form of a cell death, programmed cell death, characterized by specific morphologic and biochemical properties.
0403	Biomarkers	Covers studies of pre-clinical biomarkers or early development of biomarkers used as indicators for the predisposition, presence or progression of disease or injury. Includes the study of detection agents for uncharacterized biomarkers.
0404	Chemical/ Physical Pathogenesis	Covers studies on exposure to chemicals, environmental factors or toxins and their influence on the development and progression of a disease, injury, or disorder.
[0405]	[Removed]	[Removed]
0406	Stromal-Epithelial Interactions	Covers studies on the role of the interaction of the stromal and epithelial elements in the initiation of disease or injury.
0407	Cancer Stem Cells	Studies on identifying, isolating, or culturing the clonogenic, pluripotent, self-renewing progenitor cells believed to be responsible for malignancy.
0408	Progression	Covers studies on the multistep stages to disease. This includes the transformation of cells to tumor cells through the different pathobiological phases (i.e. hyperplasia, metaplasia, dysplasia, anaplasia, neoplasia). The studies may focus on the mutagenic causes, regulation, and/or the mechanism of carcinogenesis.
0409	Invasion	Covers studies to examine the ability of tumor cells to penetrate the microenvironment of the primary site. This includes studies to analyze the factors influencing infiltration (i.e. cell motility, matrix, chemotactic factors, anchorage independence, cell-cell interaction).
0410	Metastasis	Covers studies to examine the characteristics of cancerous lesions that are not the primary cancer site. These studies may include the differential analysis of metastatic lesions with respect to the primary tumor, the factors influencing tumor implantation at distant sites, or host-tumor interactions at the metastatic locale.
0411	Tumor Heterogeneity	Covers studies that seek to characterize and define subpopulations or clonal populations of cells within a tumor or an individual. Also includes studies that seek to understand heterogeneity among different individuals or primary tumors.
0412	Inflammation	Covers studies of inflammation as it relates to the pathogenesis of disease and wound healing.
[0413]	[Removed]	[Removed]
0414	Host Pathogen Interaction	Covers studies investigating the interactions taking place between a pathogen and its host on the molecular level, single-cell level, organismal level, or population level that may or may not lead to disease. This excludes studies of immune system reactions to pathogens.

Scientific Classification System (SCS)

SCS Code	Category Name	Definition
0415	Acute Injury	Covers studies that investigate the pathobiology of physical or psychological injuries and insults resulting from a discrete traumatic event with a short duration relative to the given condition.
0416	Fibrosis/ Remodeling	Covers studies on the formation of excess fibrous connective tissue or the reorganization or renovation of existing tissues.
0417	Chronic Injury	Covers studies on the pathobiology of physical or psychological injuries or diseases that develop slowly, are persistent and long-lasting, or recur over time.
0418	Degeneration	Covers studies on the deterioration and decline or loss of function or structure of tissues or organs.
0419	Secondary Conditions	Covers studies on the pathobiology of processes that arise after and as a consequence of the onset of an initial insult, disease, or trauma which triggers downstream effects, either in the same or a different body system.
0420	Comorbidities	Covers studies on the pathobiology of diseases, disorders, injuries, or other pathological conditions that co-occur.
0499	Not Otherwise Specified	Covers studies in pathobiology not otherwise specified in the other research areas.

Scientific Classification System (SCS)

0500: Immunology		
SCS Code	Category Name	Definition
0501	Molecular Immunology	Covers studies to identify immune markers and characterize antibody structures as well as genetic engineering and progressive cloning studies.
0502	Tumor Immunology	Covers studies of interactions between the immune system and tumor(s).
0503	Regulation of the Immune Response	Covers studies of mechanisms that up- or down-regulate the immune system, including psychoneuroimmunology.
0504	Immunodeficiency	Covers studies of inadequacies in the cell mediated or humoral aspects of immune response or its regulation.
0505	Autoimmunity and Autoimmune Disease	Covers studies of specific immunity to constituents of self.
0599	Not Otherwise Specified	Covers studies in immunology not otherwise specified in the other research areas.

Scientific Classification System (SCS)

0600: Primary Prevention		
SCS Code	Category Name	Definition
0601	Lifestyle	Covers studies of the contributions and consequences of lifestyle and behavioral factors on disease/injury risk, as well as studies to test educational and lifestyle interventions to reduce disease/injury risk.
0602	Chemoprevention	Covers studies on the effect(s) of drugs to prevent occurrence of disease/injury.
0603	Nutrition	Covers studies on the contributions and consequences of diet and/or nutrition on disease/injury risk, as well as to test educational and diet and/or nutritional interventions intended to prevent the occurrence of disease/injury.
0604	Genetic Risk	Covers studies among individuals with defined gene composition and genetic mutations to test interventions intended to prevent the occurrence of disease/injury.
0605	Surgical Prevention	Covers studies on the effects of prophylactic surgical interventions to prevent occurrence of disease/injury.
0606	Complementary and Alternative Methods	Covers studies in non-traditional/alternative methods of prevention. These include a) alternative medical methods such as homeopathy, naturopathy, chiropractic, osteopathy, or acupuncture; b) mind-body techniques such as support groups, writing, and art; c) bio-energy techniques such as gi gong, Reiki, therapeutic touch and other non-traditional uses of electromagnetic fields.
0607	Physical Prevention	Covers studies on or development of physical barriers to disease transmission or injury such as condoms, body armor, new formulations of surgical/medical instruments and wall/floor/surface coverings.
0608	Biological Prevention / Prophylactic Vaccines	Covers studies on the prevention of disease by (1) stimulating antibody production, (2) conferring passive immunity, and/or (3) controlling/eliminating the host vector through biological means such as natural toxins, predation, and/or genetic manipulation/modification.
0699	Not Otherwise Specified	Covers primary prevention studies not otherwise specified in the other research areas.

Scientific Classification System (SCS)

0700: Detection and Diagnosis		
SCS Code	Category Name	Definition
0701	Clinical Biomarkers	Covers the study of the use of indicators, detectable in blood, body fluids, tissues, or via imaging or physical or neuropsychological assessment, or other information that can be used for screening, diagnosis, treatment decisions, or prognosis in a clinical setting.
0702	Cell/Tissue/Body Fluid Sampling	Covers the study of methods for collecting biological samples and studies on the most effective testing of these specimens for the detection, diagnosis, or prognosis of disease/injury.
0703	Computer-aided Diagnosis	Covers the use of computer algorithms and/or artificial intelligence to aid in making diagnostic decisions.
0704	Digital Imaging	Covers the study of capturing, storing, viewing, and analyzing radiographic or other images in a digital format.
0705	Magnetic Resonance Imaging	Covers the study of visualization of structures in the body by use of oscillating magnetic fields and analysis of the resulting radio frequencies produced.
0706	Nuclear Medicine Imaging	Covers the study of image production or count acquisition after the administration of a radionuclide.
0707	Ultrasonography	Covers the study of visualization of structures in the body by recording the reflections of high frequency sound waves directed into the tissues.
0708	X-ray Imaging	Covers the study of visualization of structures in the body by externally applied ionizing radiation.
[0709]	[Removed]	[Removed]
0710	Agent Development	Covers the discovery, screening, synthesis, development, formulation, and pharmacology of detection and diagnostic agents or modification of existing agents to include accessory or auxiliary agents.
0711	Spectrometry	Covers the direct measurement of electromagnetic waves, changes in mass, or changes in charge whose detection and quantification can be used for screening, diagnosis, or prognosis. This excludes visualization of structures in the body through imaging techniques.
0712	Nanotechnology	Covers the use of nanotechnology methods, techniques, or agents for the detection, diagnosis or prognosis of disease. Nanotechnology includes creation of structures, devices and systems whose size is approximately ≤ 100 nm or less.
0713	Fluorescence Imaging	Covers studies investigating the use of fluorescence technology to detect the presence of biological molecules and structures in the body for the detection, diagnosis or prognosis of disease.
0714	Laser Technology	Covers the development and study of laser methodologies (including infrared) for the diagnosis and detection of diseased tissues. It does not include treatment.
0799	Not Otherwise Specified	Covers studies in detection, diagnostic or prognostic modalities not otherwise specified in the other research areas.

Scientific Classification System (SCS)

0800: Clinical and Experimental Therapeutics		
SCS Code	Category Name	Definition
0801	Drug Development	Covers the discovery, screening, synthesis, development and formulation of drugs and the modification of existing agents.
0802	Pharmacology	Covers studies of the pharmacokinetics, toxicity, routes of administration and mechanisms of action of treatment agents. This may include drugs that modify the effectiveness of other drugs.
0803	Chemotherapy/ Pharmacotherapy	Covers the study of using drugs or a combination of drugs to treat a disease, injury, or disorder. This may include drugs that modify the effectiveness of other drugs.
0804	Drug Resistance/Multi- Drug Resistance	Covers studies on the mechanism, treatment, and prevention of all forms of drug resistance.
0805	Targeted Therapies	Covers the development, testing, and study of individual agents that target cells or combined agents that contain a targeting component with a toxic or therapeutic component.
0806	Therapeutic Vaccines	Covers the study of treatment of disease with agents designed to elicit immune responses to specific antigens. Note: prophylactic vaccines NOT included.
0807	Immunotherapies	Covers the study of treatment of disease, injury, or disorder by the use of agents designed to modulate the immune system. This includes passive immunization, use of agents designed to induce, enhance, or suppress immune effector cells, and induction of immune tolerance. Excludes vaccines.
0808	Radiotherapy	Covers the study of using ionizing radiation to treat disease or kill cells.
0809	Hormonal Therapy	Covers the study of the treatment of disease by potentiating or blocking the effects of hormones.
0810	Gene Therapy (Includes Vector Development)	Covers the study of treatment that modifies or inserts genes into cells to improve the body's natural ability to fight disease or to make the tumor more sensitive to other therapies. Includes gene vector development and antisense technologies.
0811	Photodynamic Therapy	Covers the study of light activated substances in treating disease.
0812	Anti-angiogenics	Covers the study of using substances that inhibit blood vessel formation
0813	Surgery	Covers studies on manual or instrumental procedures for the removal, replacement, or repair of diseased or injured organs or tissue.
0814	Hypo/ Hyperthermia	Covers the study of localized or systemic temperature changes for either direct therapeutic effect or enhancing the effectiveness of other therapies.
0815	Rehabilitation	Covers the study of interventions to improve functional status and/or appearance related to disease, injury or treatment.

Scientific Classification System (SCS)

SCS Code	Category Name	Definition
0816	Symptom Management	Covers studies of the factors or interventions that influence disease or injury specific symptoms and/or reduce treatment side-effects. Symptom management may be medically or psychosocially based.
0817	Nanotechnology	Covers the use of nanotechnology methods, techniques, or agents for the treatment of disease or injury. Nanotechnology includes creation of structures, devices and systems whose size is approximately ≤ 100 nm or less.
0818	Laser Technology	Covers the development and study of laser methodologies (including infrared) for the treatment of tumors or other diseased/injured tissues. It does not include the diagnosis of tumors, tumor margins, or other diseased tissues with laser technologies.
0819	Personalized Therapy	Covers studies that develop clinical guidance for a course of therapy tailored to the specific needs of a patient.
0820	Behavioral / Cognitive / Psychological Therapies	Covers studies of treatments that help patients understand the thoughts and feelings that influence behaviors, treatments that help change potentially self-destructing behaviors, treatments that help patients recognize and overcome real-world challenges, and/or treatments that involve talking with a mental health provider.
0821	Stem Cell Therapy	Covers the study of using stem cells to treat disease or injury.
0822	Biologics	Covers the development or modification of biological medical projects such as blood components, allergenics, somatic cells, tissues, and recombinant therapeutic proteins, including biomaterials (e.g., scaffolds, grafts, hydrogels).
[0823]	[Removed]	[Removed]
0824	Tissue Preservation	Covers studies that develop improved ex vivo tissue preservation methods, products, technologies, or platforms that extend the time between procurement and viable medical use. This includes thermal technologies, preservation media/perfusates, freezing/thawing methods, transportation platforms, etc., that better preserve tissues for use in medical procedures (e.g., transplantation, replantation).
0825	Tissue Stimulation	Covers studies of functional stimulation of tissue for the purpose of treating a disease, injury, or disorder. Examples include, but are not limited to, transcranial electrical or magnetic stimulation, electrical stimulation of muscle (including cardiac tissue), and electrical stimulation of the spinal cord or other nervous tissues.
0899	Not Otherwise Specified	Covers studies in clinical and experimental therapeutics not otherwise specified in the other research areas.

Scientific Classification System (SCS)

0900: Complementary and Alternative Medicine		
SCS Code	Category Name	Definition
0901	Nutraceuticals	Covers the study of nutritional, vitamin and/or dietary supplements and herbal remedies as forms of non-traditional interventions and/or complementary treatment to traditional interventions.
[0902]	[Removed]	[Removed]
0903	Alternative Medical Methods	Covers studies using non-conventional methods for treatment. These would include homeopathic medicine, naturopathic medicine, chiropractic medicine, osteopathic methods, acupuncture, or therapeutic massage.
0904	Mind-Body Interventions	Covers the study of techniques to manage mind and body interactions and functions. These would include patient support groups, meditation, prayer, mental healing, writing, art, and performance art.
0905	Bio-energy Therapies	Covers the study of energy therapies and the manipulation of bio-energy fields such as gi gong, Reiki, and therapeutic touch. Also includes the study of non-traditional uses of electromagnetic fields such as pulsed fields, magnetic fields, and AC/DC fields.
0906	Service/Therapy Animals	Covers studies of animals that are trained to do work or perform tasks for a person with a disability, or studies that involve animals as a form of treatment or medical alert.
0999	Not Otherwise Specified	Covers studies in complementary and alternative medicine not otherwise specified in the other research areas.

Scientific Classification System (SCS)

1000: Health Care Delivery		
SCS Code	Category Name	Definition
1001	Health Care Settings	Covers studies describing and/or assessing interventions or policies to enhance the delivery of disease/injury prevention, detection, treatment and rehabilitation services in medical systems and medical care settings, including, for example, patterns of care assessments and cost effectiveness studies in a medical care setting.
1002	Communities	Covers studies describing and/or assessing interventions and/or policies for reaching and/or influencing populations in community and other non-medical settings in order to improve the delivery of disease/injury prevention, detection, treatment and rehabilitation services. Studies include, for example, community outreach interventions.
1003	Telemedicine	Covers studies involving the transmission of medical information via telephone, the Internet, videoconferencing, or other networks/modalities for the purpose of consulting, or to conduct remote medical services.
1004	Clinical Practice Guidelines	Covers studies involving the development, assessment, validation, or implementation of clinical practice guidelines.
1099	Not Otherwise Specified	Covers health care delivery studies not otherwise specified in the other research areas.

Scientific Classification System (SCS)

1100: Biobehavioral Sciences		
SCS Code	Category Name	Definition
1101	Basic Behavioral	Covers descriptive studies of knowledge, attitudes and behavior in defined populations or studies of the basic relationships between biology and behavioral factors and disease/injury.
1102	Quality of Life	Covers studies with specific aims or objectives to understand the factors that contribute to quality of life (QOL), interventions designed to enhance QOL, and/or the QOL consequences that result from actions by patients, caregivers, and/or providers among individuals with or at risk for disease/injury.
1103	Decision Making	Covers studies of factors that contribute to patient, caregiver, or provider decision-making regarding diagnosis, treatment and/or rehabilitation, such as participation in clinical trials, risk assessment, genetic counseling and adherence to treatment.
1104	Communication and Education	Exploration of health communications theories and their application to disease/injury and disease/injury control issues, studies to fill gaps in understanding how patients, care givers, health care providers and the general population use health information, and development and testing of educational interventions.
1105	Lifestyle	Covers studies of interventions that reduce disease/injury risk, enhance treatment efficacy, improve prognosis and/or overall health, such as physical activity, stress reduction, supportive care, etc.
1199	Not Otherwise Specified	Covers biobehavioral sciences studies not otherwise specified in the other research areas.

Scientific Classification System (SCS)

1200: Epidemiology		
SCS Code	Category Name	Definition
1201	Descriptive Epidemiology/ Surveillance	Covers population-based observational research studies of the distribution (incidence, prevalence) and characteristics of disease/injury.
1202	Behavioral Epidemiology	Covers population-based observational studies assessing the nature of associations between lifestyle and host factors and disease/injury risk, initiation, progression, detection, prognosis and/or treatment.
1203	Gene and/or Environmental Epidemiology	Covers population-based observational studies assessing the nature of associations and effect modification between genetic susceptibility, polymorphic genes and environmental or host factors and disease/injury risk, initiation, progression, and/or intermediate disease/injury endpoints.
1204	Nutritional Epidemiology	Covers population-based observational studies assessing the nature of associations and effect modification between nutritional factors and disease/injury risk, initiation/occurrence, progression, detection, and prognosis.
1205	Biological Epidemiology	Covers population-based observational studies assessing the nature of interactions between basic biology and biological mechanisms with disease/injury risk, initiation/occurrence, progression, and/or intermediate disease endpoints.
1299	Not Otherwise Specified	Covers epidemiological studies not otherwise specified in the other research areas.

Scientific Classification System (SCS)

1300: Research Resources		
SCS Code	Category Name	Definition
1301	Training Programs	Covers projects that provide support for extramural programs to train multiple investigators, such as institutional training programs.
1302	Research Resources and Registries	Covers support for development, maintenance, and/or utilization of registries or repositories (e.g., central agencies for the collection of pathologic material and related clinical, laboratory, x-ray, and other data in a specified field, organized so that the data can be properly processed and made available for study).
1303	Animal Models	Covers support for development of vertebrate and invertebrate animal models of human diseases/injury.
1304	Computer Models	Covers support for the development and maintenance of computer modeling and information management systems and novel uses of information technology.
1305	Centers, Clinical Centers, or Consortia	Covers support for the development of core-supported, multi-project research programs integrated around a common theme.
1306	Statistical Models	Covers support for the development of models for data analysis.
1307	Cell Lines	Covers the development or modification of cell lines.
1308	Survey/Instrument Development and Validation	Covers support for the design and/or validation of survey instruments that have the potential for use across research studies.
1309	Vector Development	Covers the development or modification of cloning vectors, gene expression vectors or expression constructs.
1399	Not Otherwise Specified	Covers studies in research resources not otherwise specified in the other research areas.

Scientific Classification System (SCS)

1400: Neuroscience		
SCS Code	Category Name	Definition
1401	Neural Circuits	Covers investigations and/or modulation of neural circuits/pathways, including those that regulate physiological functions (e.g., autonomic function) as well as those that contribute to mental or neurological disorders or subtypes of disorders.
1402	Neural Plasticity / Repair	Covers studies of the behavioral aspects of neural plasticity to cellular aspects, such as neuronal and glial production, axonal sprouting, synapse formation, and cell transplantation.
1403	Cognitive Performance	Covers studies of cognitive performance, including the use of neuropsychological batteries of attention, memory, and executive functioning.
1404	Resiliency	Covers studies on the ability to recover from stress or adjust to change.
1405	Neurodegeneration	Covers studies that investigate the progressive loss of structure and function of neurons. May also include studies examining the role of non-neuronal cells in neurodegeneration.
1406	Pain	Covers the investigations of acute or chronic pain relating to the sensory nerves or central nervous system.
1407	Neuroprotection	Covers studies of the mechanisms and strategies used to preserve neuronal structure and/or function, or to prevent or reduce the rate of neuronal loss over time.
1408	Alcohol and Substance Use Disorders	Covers studies that examine characteristics and/or treatment of alcohol and/or substance use disorders.
1499	Not Otherwise Specified	Covers studies in neuroscience not otherwise specified in the other research areas.

Scientific Classification System (SCS)

1500: Computational Biology		
SCS Code	Category Name	Definition
1501	Bioinformatics	Covers studies that apply algorithms and statistical techniques to data mine, interpret, and analyze biological and/or clinical data.
1502	Biomodeling/ Mathematical Biology	Covers the mathematical representation, treatment and modeling of biological processes.
1503	Molecular and Structural Modeling	Covers studies that use computational methods to model or mimic the behavior of molecules as well as studies on the interactions of multiple molecules. Includes studies on 3D structure prediction.
1504	Systems Biology	Covers the systematic study of complex interactions in biological systems by modeling large-scale biological networks.
1505	Therapeutic Modeling	Covers studies using computer modeling to examine therapeutic interventions and how they relate to initiation, progression, detection, and prognosis.
1506	Environmental Modeling	Covers studies that apply mathematical or statistical techniques to simulate environmental exposures and their effect on physiology and/or disease.
1599	Not Otherwise Specified	Covers studies in computational biology not otherwise specified in the other research areas

Scientific Classification System (SCS)

1600: Devices		
SCS Code	Category Name	Definition
1601	Device Development	Covers the development or repurposing of medical devices including implantable devices, mobility aides, medical equipment, and prostheses.
1602	Device Validation	Covers the validation and/or optimization of medical devices.
1603	Device Surveillance	Covers the studies involving the post-market monitoring for the safety and performance of a medical device.
1604	Software Development	Development of computer software used to support a medical device for diagnosis, disease monitoring, or treatment. Does not include mobile device applications or self-contained programs.
1605	Medical App	Development, validation, or use of a self-contained program or piece of software designed to fulfill a particular purpose. Examples include mobile apps for diagnosis, disease monitoring, self-management of health and wellness, etc.
1699	Not Otherwise Specified	Covers studies in devices not otherwise specified in the other research areas