

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Abatacept**

A fusion protein immunoconjugate of the extracellular domain of CTLA4 and the Fc domain of human IgG1. It functions as a T-cell co-stimulation blocker that inhibits TNF-ALPHA and prevents the activation of T-LYMPHOCYTES. It is used in the treatment of RHEUMATOID ARTHRITIS.

#### **Tree locations:**

Immunoconjugates D12.776.124.486.485.114.580.225  
D12.776.124.790.651.114.580.225  
D12.776.377.715.548.114.580.225

### **Abiraterone Acetate**

An androstene derivative that inhibits STEROID 17-ALPHA-HYDROXYLASE and is used as an ANTINEOPLASTIC AGENT in the treatment of metastatic castration-resistant PROSTATE CANCER.

#### **Tree locations:**

Androstenes D04.808.054.079.065

### **Abnormal Involuntary Movement Scale**

A rating scale that measures INVOLUNTARY MOVEMENTS known as TARDIVE DYSKINESIA.

#### **Tree locations:**

Neurologic Examination E01.370.600.550.162

### **Acne Conglobata**

Severe and chronic form of acne characterized by large, burrowing abscesses associated with disfigurement.

PI: Acne Vulgaris (1964-2015)

#### **Tree locations:**

Acne Vulgaris C17.800.030.150.500  
C17.800.794.111.500

### **Action Spectrum**

A technique used to measure the rate of physiological activity plotted against wavelength of light. An action spectrum depicts the most effective wavelength of light (also known as spectral sensitivity) that is required for each specific process.

#### **Tree locations:**

Spectrophotometry E05.196.867.826.150

### **Adalimumab**

A humanized monoclonal antibody that binds specifically to TNF-ALPHA and blocks its interaction with endogenous TNF RECEPTORS to modulate INFLAMMATION. It is used in the treatment of RHEUMATOID ARTHRITIS; PSORIATIC ARTHRITIS; CROHN'S DISEASE and ULCERATIVE COLITIS.

#### **Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.250  
D12.776.124.790.651.114.224.060.250  
D12.776.377.715.548.114.224.200.250

### **Adapalene**

A naphthalene derivative that has specificity for RETINOIC ACID RECEPTORS. It is used as a DERMATOLOGIC AGENT for the treatment of ACNE.

#### **Tree locations:**

Naphthalenes D02.455.426.559.847.638.090  
D04.615.638.090

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### **Adapalene, Benzoyl Peroxide Drug Combination**

A pharmaceutical preparation of adapalene and benzoyl peroxide that is used as a DERMATOLOGIC AGENT for the topical treatment of ACNE.

PI: Naphthalenes (2007-2015)

PI: Benzoyl Peroxide (2007-2015)

#### **Tree locations:**

Adapalene D02.455.426.559.847.638.090.500  
D04.615.638.090.500  
Benzoyl Peroxide D02.241.223.100.133.500  
D02.455.426.559.389.127.133.500  
Drug Combinations D26.310.032

### **Adenylyl Cyclase Inhibitors**

Compounds that bind to and inhibit the action of ADENYLYL CYCLASES.

PI: Adenylyl Cyclase/antagonists & inhibitors (1968-2015)

#### **Tree locations:**

Enzyme Inhibitors D27.505.519.389.108

### **Administrative Claims, Healthcare**

Information relating to itemized coding of procedures and costs associated with healthcare delivery, used as a means for tracking healthcare utilization, patterns of care, and treatment outcomes.

#### **Tree locations:**

Medical Records N04.452.859.564.137

### **Adolescent Health**

The concept covering the physical and mental conditions of ADOLESCENTS.

FX: Adolescent Medicine

FX: Adolescent Health Services

#### **Tree locations:**

Health N01.400.075

### **Adult Day Care Centers**

Non-residential facilities that are designed to provide care and companionship for seniors who need assistance or supervision during the day.

PI: Day Care, Medical (1981-2015)

FX: Senior Centers

#### **Tree locations:**

Community Health Services N02.421.143.065

### **Adult Survivors of Child Adverse Events**

Persons who experienced traumatic events during childhood.

#### **Tree locations:**

Survivors M01.860.300

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### Advanced Glycosylation End Product-Specific Receptor

A single-pass transmembrane CELL SURFACE RECEPTOR that binds ADVANCED GLYCOSYLATION END PRODUCTS to mediate cellular responses to both acute and chronic vascular inflammation in conditions such as ATHEROSCLEROSIS and DIABETES MELLITUS, TYPE 2 . It also binds AMYLOID BETA PEPTIDES and the alarmins S100A12 and S100 CALCIUM BINDING PROTEIN BETA SUBUNIT.

PI: Receptors, Immunologic (1993-2015)

#### **Tree locations:**

Receptors, Cell Surface D12.776.543.750.006

### African Union

A geopolitical organization of African nations with a mission to integrate vital interests, promote international relations, political stability, and economic development among member states.

AN: Cataloger: Use NAF entry

#### **Tree locations:**

International Cooperation I01.615.500.125

Organizations N03.540.089

### Alarmins

A structurally diverse group of endogenous molecules that includes the HMGB1 PROTEIN; S100 PROTEINS; HSP60, Hsp70, Cathelicidin, IL-33, and DEFENSINS. They are constitutively available, released upon tissue damage, and activate the immune system. Uncontrolled and excessive release of alarmins may contribute to INFLAMMATION; CARCINOGENESIS, and NEOPLASM METASTASIS. Alarmins are also critical for heart and nerve tissue homeostasis.

PI: HMGB1 Protein (2004-2015)

#### **Tree locations:**

Intercellular Signaling Peptides and Proteins D12.644.276.087

D12.776.467.087

D23.529.087

### Albumin-Bound Paclitaxel

An injectable formulation of albumin-bound paclitaxel NANOPARTICLES.

#### **Tree locations:**

Albumins D12.776.034.073

Paclitaxel D02.455.426.392.368.242.888.777.500

D02.455.849.291.850.777.500

### Albuterol, Ipratropium Drug Combination

A combined pharmaceutical preparation of Ipratropium Bromide and Albuterol Sulfate that is used to treat the symptoms of ASTHMA and CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

#### **Tree locations:**

Albuterol D02.033.100.291.057.125

D02.092.063.291.057.125

D02.092.471.683.061.125

Drug Combinations D26.310.344

Ipratropium D02.145.074.722.229.400.500

D03.132.760.180.572.400.500

D03.132.889.180.648.400.500

D03.605.869.229.400.500

D04.075.080.875.099.722.229.400.500

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### **Alcohol Drinking in College**

Alcohol consumption among college students.

PI: Alcohol Drinking (1963-2015)

FX: Underage Drinking

**Tree locations:**

Alcohol Drinking F01.145.317.269.625

### **Amlodipine Besylate, Olmesartan Medoxomil Drug Combination**

A pharmaceutical preparation of amlodipine besylate and olmesartan medoxomil that combines ANGIOTENSIN II TYPE I RECEPTOR ANTAGONIST and CALCIUM CHANNEL BLOCKER activities. It is used in the management of HYPERTENSION.

PI: Amlodipine (2010-2015)

PI: Antihypertensive Agents (2012-2015)

**Tree locations:**

Amlodipine D03.383.725.203.065.500

Drug Combinations D26.310.063

Olmesartan Medoxomil D03.383.129.308.674.500

D03.383.129.617.584.500

### **Amlodipine, Valsartan Drug Combination**

A pharmaceutical preparation of amlodipine and valsartan that is used for the treatment of HYPERTENSION.

**Tree locations:**

Amlodipine D03.383.725.203.065.750

Drug Combinations D26.310.094

Valsartan D03.383.129.617.850.500

D12.125.070.950.550.500

D12.125.142.930.500.500

### **Anger Management Therapy**

System of psychological and/or therapeutic techniques used to control and or reduce the triggers, degrees, and effects of ANGER.

**Tree locations:**

Behavior Therapy F04.754.137.087

### **Animals, Exotic**

Animals native to a foreign country or of foreign origin or character, that are not native to the United States.

AN: use only when specified by author; coordinate with ANIMALS, WILD or ANIMALS, ZOO as needed

**Tree locations:**

Animal Population Groups B01.050.050.126

### **Aripiprazole**

An antipsychotic agent that is structurally related to piperazines and quinolones. It is a partial agonist of SEROTONIN RECEPTOR, 5-HT1A and DOPAMINE D2 RECEPTORS, where it also functions as a post-synaptic antagonist, and an antagonist of SEROTONIN RECEPTOR, 5-HT2A.

**Tree locations:**

Piperazines D03.383.606.170

Quinolones D03.438.810.835.122

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### Armed Conflicts

Any differences arising between two nations or groups and leading to the intervention of armed forces.

#### Tree locations:

Warfare and Armed Conflicts I01.880.735.950.250

### Arterial Switch Operation

Surgical procedure for anatomical correction of transposed great arteries (e.g., DOUBLE OUTLET RIGHT VENTRICLE).

PI: Transposition of Great Vessels (1971-2015)

PI: Cardiac Surgical Procedures (1990-2015)

FX: Transposition of Great Vessels

#### Tree locations:

Cardiac Surgical Procedures E04.100.376.031  
E04.928.220.055

### Arthrocentesis

Puncture and aspiration of fluid (e.g., SYNOVIAL FLUID) from a joint cavity. It is used sometimes to irrigate or administer drugs into a joint cavity.

PI: Paracentesis (1996-2015)

#### Tree locations:

Paracentesis E01.370.225.998.329.465  
E02.800.550.310  
E04.665.600.465  
E05.200.998.329.465

### Aspirin, Dipyridamole Drug Combination

A drug combination of aspirin and dipyridamole that functions as a PLATELET AGGREGATION INHIBITOR, used to prevent THROMBOSIS and STROKE in TRANSIENT ISCHEMIC ATTACK patients.

#### Tree locations:

Aspirin D02.455.426.559.389.657.410.595.176.500  
Dipyridamole D03.383.742.175.500  
Drug Combinations D26.310.125

### Ataxin-1

A chromatin-binding factor that represses Notch signaling and associates with RNA. Expansion of the polyglutamine tract by expanded CAG repeats in the ATXN1 gene coding region is associated with SPINOCEREBELLAR ATAXIA 1.

PI: Nerve Tissue Proteins (1995-2015)

PI: Nuclear Proteins (1995-2015)

FX: Spinocerebellar Ataxias

#### Tree locations:

Ataxins D12.776.641.069.500  
D12.776.660.075.500

### Ataxin-10

An ataxin that is associated with the survival of cerebellar neurons. Expansion of the ATTCT pentanucleotide in the ATXN10 coding region is associated with SPINOCEREBELLAR ATAXIA 10.

PI: Nerve Tissue Proteins (2006-2015)

#### Tree locations:

Ataxins D12.776.641.069.950

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### Ataxin-2

A Poly(A) RNA-binding protein that negatively regulates EGFR ENDOCYTOSIS. An increased risk for developing AMYOTROPHIC LATERAL SCLEROSIS 13 is observed in patients who have more than 23 CAG repeats in the ATXN2 gene coding sequence. Larger CAG expansions in the ATXN2 gene occur in SPINOCEREBELLAR ATAXIA 2 patients.

PI: Nerve Tissue Proteins (2005-2015)

FX: Spinocerebellar Ataxias

#### **Tree locations:**

Ataxins	D12.776.641.069.750
	D12.776.660.075.750
Poly(A)-Binding Proteins	D12.776.157.725.452.125
	D12.776.664.962.452.125

### Ataxin-3

A DEUBIQUITINASE involved in protein homeostasis, transcription, cytoskeleton regulation, and myogenesis. It also acts as a histone-binding protein that represses transcription. CAG repeat expansions in the ATXN3 gene coding region are associated with SPINOCEREBELLAR ATAXIA 3 (SCA3).

PI: Nuclear Proteins (1998-2015)

PI: Nerve Tissue Proteins (1998-2015)

FX: Spinocerebellar Ataxias

#### **Tree locations:**

Ataxins	D12.776.641.069.875
	D12.776.660.075.875
Ubiquitin-Specific Proteases	D08.811.277.656.300.887.500

### Ataxin-7

A component of the STAGA transcription coactivator-HAT complex that functions in Cone Rod Homeobox Protein (CRX)-dependent gene activation. It also stabilizes MICROTUBULES. CAG repeat expansion in the ATXN-7 coding region is associated with the development of SPINOCEREBELLAR ATAXIA 7.

PI: Nerve Tissue Proteins (1997-2015)

FX: Spinocerebellar Ataxias

#### **Tree locations:**

Ataxins	D12.776.641.069.901
	D12.776.660.075.900

### Ataxins

A family of predominantly nuclear proteins that regulate gene transcription and protein degradation. The expansion of CAG trinucleotide repeats in genes that encode Ataxins is associated with SPINOCEREBELLAR ATAXIAS (SCA). In SCA patients, the number of CAG repeats correlates with the severity of disease and inversely correlates with the age of disease onset.

PI: Nerve Tissue Proteins (1995-2015)

PI: Nuclear Proteins (1995-2015)

FX: Spinocerebellar Ataxias

#### **Tree locations:**

Nerve Tissue Proteins	D12.776.641.069
Nuclear Proteins	D12.776.660.075

### Atazanavir Sulfate

An azapeptide and HIV-PROTEASE INHIBITOR that is used in the treatment of HIV INFECTIONS and AIDS in combination with other ANTI-HIV AGENTS.

#### **Tree locations:**

Oligopeptides	D12.644.456.157
Pyridines	D03.383.725.068

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### Atomoxetine Hydrochloride

A propylamine derivative and selective ADRENERGIC UPTAKE INHIBITOR that is used in the treatment of ATTENTION DEFICIT HYPERACTIVITY DISORDER.

**Tree locations:**

Propylamines D02.092.831.085

### Atorvastatin Calcium

A pyrrole and heptanoic acid derivative, HYDROXYMETHYLGLUTARYL-COA REDUCTASE INHIBITOR (statin), and ANTICHOLESTEREMIC AGENT that is used to reduce serum levels of LDL-CHOLESTEROL; APOLIPOPROTEIN B; AND TRIGLYCERIDES and to increase serum levels of HDL-CHOLESTEROL in the treatment of HYPERLIPIDEMIAS and prevention of CARDIOVASCULAR DISEASES in patients with multiple risk factors.

**Tree locations:**

Heptanoic Acids D10.251.450.200

Pyrroles D03.383.129.578.075

### Autism Spectrum Disorder

Wide continuum of associated cognitive and neurobehavioral disorders, including, but not limited to, three core-defining features: impairments in socialization, impairments in verbal and nonverbal communication, and restricted and repetitive patterns of behaviors. (from DSM-V)

PI: Child Development Disorders, Pervasive (2010-2015)

**Tree locations:**

Child Development Disorders, Pervasive F03.625.164.113

### Autoimmune Hypophysitis

Immune-mediated inflammation of the PITUITARY GLAND often associated with other autoimmune diseases (e.g., HASHIMOTO DISEASE; GRAVES DISEASE; and ADDISON DISEASE).

PI: Pituitary Diseases (1967-2015)

**Tree locations:**

Autoimmune Diseases C20.111.273

Pituitary Diseases C10.228.140.617.738.100

C19.700.080

### Banking, Personal

A financial account set up between a financial institution (such as a commercial bank) and a customer (individual, group, or business), whereby the latter may deposit and withdraw money, and where applicable, be paid interest.

FX: Medical Savings Accounts

**Tree locations:**

Accounting N03.219.463.030.100

### Behavior Observation Techniques

A wide range of formal and informal techniques used to document behavior.

**Tree locations:**

Psychological Techniques E05.796.112

F04.669.112

### Behavior Rating Scale

Instrument designed to assess human or animal behavior, using a standardized format.

**Tree locations:**

Psychological Tests F04.711.271

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### Beijing

Capital of CHINA.

PI: China (1966-2015)

#### **Tree locations:**

China Z01.252.474.164.225

Cities Z01.433.114

### Bendamustine Hydrochloride

A nitrogen mustard compound that functions as an ALKYLATING ANTINEOPLASTIC AGENT and is used in the treatment of CHRONIC LYMPHOCYTIC LEUKEMIA and NON-HODGKIN'S LYMPHOMA.

#### **Tree locations:**

Benzimidazoles D03.438.103.123

Butyrates D02.241.081.114.625

Nitrogen Mustard Compounds D02.455.526.728.650.103

### Bevacizumab

An anti-VEGF recombinant monoclonal antibody consisting of humanized murine antibody. It inhibits VEGF receptors and prevents the proliferation of blood vessels.

#### **Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.375

### Bimatoprost

A cloprostenol-derived amide that is used as an ANTIHYPERTENSIVE AGENT in the treatment of OPEN-ANGLE GLAUCOMA and OCULAR HYPERTENSION.

#### **Tree locations:**

Amides D02.065.141

Cloprostenol D10.251.355.255.550.775.500.175.250

D23.469.050.175.725.775.500.175.250

D23.469.700.670.175.250

### Biobehavioral Sciences

An interdisciplinary scientific approach to the study of complex interactions among biological, social, behavioral, environmental factors, and their effects on health outcomes.

FX: Interdisciplinary Studies

#### **Tree locations:**

Behavioral Research H01.770.644.108.687

### Biological Mimicry

Resemblance in appearance, structure, function, sound, scent or behavior between related or unrelated species, occurring in the same geographic location.

FX: Biomimetics

#### **Tree locations:**

Adaptation, Biological G16.100.057.750



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### **Bioresonance Therapy**

A form of holistic medicine in which ELECTROMAGNETIC WAVES are used to diagnose and treat human and animal illness via manipulation of endogenous electromagnetic oscillations corresponding to the patient's current physiological condition.

FX: Magnetic Field Therapy

**Tree locations:**

Holistic Health E02.190.321.500

### **Bipolar and Related Disorders**

These disorders are related to both SCHIZOPHRENIA SPECTRUM AND RELATED DISORDERS and DEPRESSIVE DISORDERS in terms of symptomatology, family history, and genetics. (DSM-V) .

**Tree locations:**

Mental Disorders F03.084

### **Blogs (Pub Type)**

A website that contains conversational personal reflections, comments and sometimes links to other sites; typically run by an individual or small group.

AN: This heading is used as a Publication Type. INDEXER: Do not use

PI: Blogging (2010-2015)

**Tree locations:**

Biography V01.175.125

V02.170.250

V02.530.150.250

### **Blood Alcohol Content**

Mass of alcohol per unit of BLOOD volume.

FX: Alcoholism

FX: Driving Under the Influence

**Tree locations:**

Ethanol D02.033.375.135

### **Body Weight Maintenance**

Sustaining BODY WEIGHT after BODY WEIGHT CHANGES have been achieved.

**Tree locations:**

Body Weight G07.700.320.249.314.120.250

### **Body, Physical Appearance**

The superficial physical looks, characteristics, or qualities of an individual as distinguished from the underlying unseen nature or attributes.

FX: Body Image

**Tree locations:**

Body Constitution E01.370.600.115.450

G07.100.175

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### **Bone-Implant Interface**

Region of interaction between the bone and PROSTHESES AND IMPLANTS which becomes bonded through cellular and extracellular interactions similar to OSSEOINTEGRATION.

PI: Osseointegration (1989-2015)

FX: Osseointegration

#### **Tree locations:**

Bone and Bones A02.835.232.022

A10.165.265.183

Prostheses and Implants E07.695.125

### **Bortezomib**

A pyrazine and boronic acid derivative that functions as a reversible PROTEASOME INHIBITOR. It is used as an ANTINEOPLASTIC AGENT in the treatment of MULTIPLE MYELOMA and MANTLE CELL LYMPHOMA.

#### **Tree locations:**

Boronic Acids D01.029.260.110.500

D01.132.285.500

D02.203.200.500

Pyrazines D03.383.679.450

### **Brimonidine Tartrate**

A quinoxaline derivative and ADRENERGIC ALPHA-2 RECEPTOR AGONIST that is used to manage INTRAOCULAR PRESSURE associated with OPEN-ANGLE GLAUCOMA and OCULAR HYPERTENSION.

#### **Tree locations:**

Quinoxalines D03.438.857.070

### **Brimonidine Tartrate, Timolol Maleate Drug Combination**

A pharmaceutical preparation of brimonidine tartrate and timolol maleate. The combined ADRENERGIC ALPHA2 RECEPTOR AGONIST and ADRENERGIC BETA-ANTAGONIST activity of these drugs reduce INTRAOCULAR PRESSURE in GLAUCOMA patients.

#### **Tree locations:**

Brimonidine Tartrate D03.438.857.070.500

Drug Combinations D26.310.312

Timolol D02.033.100.624.915.500

D02.033.755.624.915.500

D02.092.063.624.915.500

D02.886.675.867.768.500

D03.383.129.708.867.768.500

### **Budesonide, Formoterol Fumarate Drug Combination**

A pharmaceutical preparation of budesonide and formoterol fumarate that is used as an ANTI-ASTHMATIC AGENT and for the treatment of CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

#### **Tree locations:**

Budesonide D04.808.745.745.654.105.500

Drug Combinations D26.310.348

Formoterol Fumarate D02.033.100.291.425.250

D02.092.063.291.425.250

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### **Buprenorphine, Naloxone Drug Combination**

A pharmaceutical preparation that combines buprenorphine, an OPIOID ANALGESIC with naloxone, a NARCOTIC ANTAGONIST to reduce the potential for NARCOTIC DEPENDENCE in the treatment of pain. It may also be used for OPIATE SUBSTITUTION THERAPY.

#### **Tree locations:**

Buprenorphine	D03.132.577.249.150.500
	D03.549.686.150.500
	D03.605.497.150.500
	D04.615.723.795.150.500
Drug Combinations	D26.310.352
Naloxone	D03.132.577.249.706.275
	D03.549.686.750.275
	D03.605.497.750.275
	D04.615.723.795.706.275

### **Calceolariaceae**

A family in the order Lamiales with several species that are used in TRADITIONAL MEDICINE.

#### **Tree locations:**

Lamiales	B01.650.940.800.575.100.583.190
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### **Canagliflozin**

A glucoside-derived SODIUM-GLUCOSE TRANSPORTER 2 inhibitor that stimulates urinary excretion of glucose by suppressing renal glucose reabsorption. It is used to manage BLOOD GLUCOSE levels in patients with TYPE 2 DIABETES.

#### **Tree locations:**

Glucosides	D09.408.348.113
Thiophenes	D02.886.778.075
	D03.383.903.075

### **Canaliculitis**

Inflammation and infection of the lacrimal canaliculus area in the LACRIMAL APPARATUS.

PI: Dacryocystitis (1977-2015)

PI: Lacrimal Apparatus Diseases (1973-2015)

FX: Corneal Ulcer

#### **Tree locations:**

Dacryocystitis	C11.496.221.500
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### **Capecitabine**

A deoxycytidine derivative and fluorouracil PRODRUG that is used as an ANTINEOPLASTIC ANTIMETABOLITE in the treatment of COLON CANCER; BREAST CANCER and GASTRIC CANCER.

#### **Tree locations:**

Deoxycytidine	D03.383.742.680.245.500.425
	D13.570.230.329.313
	D13.570.685.245.500.425
Fluorouracil	D03.383.742.698.875.404.425

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### **Celecoxib**

A pyrazole derivative and selective CYCLOOXYGENASE 2 INHIBITOR that is used to treat symptoms associated with RHEUMATOID ARTHRITIS; OSTEOARTHRITIS and JUVENILE ARTHRITIS, as well as the management of ACUTE PAIN.

#### **Tree locations:**

Pyrazoles D03.383.129.539.160  
Sulfonamides D02.065.884.247  
D02.886.590.700.247

### **CELF Proteins**

A family of RRM proteins which contain two N-terminal RNA RECOGNITION MOTIF (RRM) domains, one C-terminal RRM domain, and a divergent segment of 160-230 amino acids between the second and third RRM domains. They regulate pre-mRNA ALTERNATIVE SPLICING and also function in RNA EDITING and PROTEIN BIOSYNTHESIS.

PI: RNA-Binding Proteins (2005-2015)

#### **Tree locations:**

RNA Recognition Motif (RRM) Proteins D12.776.157.725.813.250  
D12.776.664.962.813.250

### **CELF1 Protein**

A member of the CELF PROTEINS family which binds GU rich elements (GREs) and CUG-triplet repeats in the 3'UTR of mammalian mRNA transcripts that undergo rapid turnover. It also binds AU-rich elements (AREs or EDEN-like) in the 3'UTR of JUN and FOS mRNAs. Mutations in the human CELF1 gene are associated with MYOTONIC DYSTROPHY type 1.

PI: RNA-Binding Proteins (2005-2015)

#### **Tree locations:**

CELF Proteins D12.776.157.725.813.250.500  
D12.776.664.962.813.250.500

### **Cell Plasticity**

The ability of a cell to change its PHENOTYPE in response to changes in the environment.

PI: Cell Differentiation (1966-2015)

FX: Neuronal Plasticity

#### **Tree locations:**

Cell Transdifferentiation G04.299.335.250

### **Cell Self Renewal**

The ability of certain cell types, such as progenitor cells or tumor cells, to go through numerous cycles of CELL DIVISION while still maintaining an undifferentiated or partially differentiated state.

PI: Cell Differentiation (1966-2015)

FX: Stem Cells

#### **Tree locations:**

Cell Division G04.299.134.220.235  
G04.299.233.750.500.375  
G05.355.105.415  
G07.700.320.249.410.750.500.625

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### Cellular Reprogramming Techniques

Procedures used for the induction of CELLULAR REPROGRAMMING to change the terminal phenotype of a cell, such as the generation of INDUCED PLURIPOTENT STEM CELLS from differentiated adult cells by the forced expression of specific genes.

PI: Cellular Reprogramming (2015)

PI: Cell Dedifferentiation (2008-2015)

FX: Cellular Reprogramming

#### **Tree locations:**

Cytological Techniques E05.200.500.380

E05.242.378

Genetic Techniques E05.393.085

### Censorship, Research

The act or practice of scrutinizing the practice of scientific research for the purpose of preventing or suppressing the unethical applications as well knowledge derived from it.

FX: Dual Use Research

FX: Ethics

#### **Tree locations:**

Ethics, Research K01.752.566.479.173.200

N05.350.670.250

Social Control, Formal I01.880.604.238

### Certolizumab Pegol

A polyethylene-glycolated Fab' fragment of TUMOR NECROSIS FACTOR antibody that binds specifically to TNF-ALPHA and neutralises it in a dose-dependent manner. It also inhibits the production of lipopolysaccharide-induced TNF-ALPHA and IL-1 BETA and is used to treat RHEUMATOID ARTHRITIS and PSORIATIC ARTHRITIS.

#### **Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.500

D12.776.124.790.651.114.224.060.500

D12.776.377.715.548.114.224.200.500

Immunoglobulin Fab Fragments D12.644.541.500.650.250

D12.776.124.486.485.680.650.250

D12.776.124.790.651.680.650.250

D12.776.377.715.548.680.650.250

Polyethylene Glycols D05.750.741.125

D25.720.741.125

J01.637.051.720.741.125

### Cetuximab

A chimeric monoclonal antibody that functions as an ANTINEOPLASTIC AGENT through its binding to the EPIDERMAL GROWTH FACTOR RECEPTOR, where it prevents the binding and signaling action of cell growth and survival factors.

#### **Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.750

D12.776.124.790.651.114.224.060.750

D12.776.377.715.548.114.224.200.750

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Child Health

The concept covering the physical and mental conditions of CHILDREN.

PI: Child Welfare (1978-2015)

PI: Child Health Services (1978-2015)

FX: Child Welfare

FX: Child Health Services

**Tree locations:**

Health N01.400.225

### Child Protective Services

Local governmental offices which investigate reports of abuse and neglect of children, and act to assure a safe environment for minors.

FX: Social Work

**Tree locations:**

Government Agencies I01.409.418.500

N03.540.400.500

### Childhood-Onset Fluency Disorder

Disturbances in the normal fluency and time patterning of speech that are inappropriate for the individual's age and language skills. (DSM-V)

PI: Communication Disorders (1990-2015)

**Tree locations:**

Communication Disorders F03.625.374.125

### Children's Health Insurance Program

Federal program, enacted in 1997, for the funding of children's health insurance coverage at the state level for low-income families, affording them effective protection against erosions in employer sponsored coverage.

AN: CATALOGER: Use NAF entry

**Tree locations:**

Insurance, Health N03.219.521.576.343.071

State Health Plans N03.349.650.480.500

### Chronopharmacokinetics

Absorption, metabolism and elimination of drugs in relation to time of day at which they are administered, and the mechanisms responsible for time-dependent variations.

FX: Drug Chronotherapy

**Tree locations:**

Pharmacokinetics G07.690.725.249

### Cinacalcet Hydrochloride

A naphthalene derivative and CALCIMIMETIC AGENT that increases the sensitivity of PARATHYROID GLAND calcium-sensing receptors to serum calcium. This action reduces parathyroid hormone secretion and decreases serum calcium in the treatment of PARATHYROID DISEASES.

**Tree locations:**

Naphthalenes D02.455.426.559.847.638.183

D04.615.638.183

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Clinical Decision-Making**

Process of formulating a diagnosis based on medical history and physical or mental examinations, and/or choosing an appropriate intervention.

AN: use DECISION MAKING for decision making by the patient

PI: Decision Making (1972-2015)

FX: Decision Support Techniques

FX: Decision Support Systems, Clinical

#### **Tree locations:**

Diagnosis E01.055

### **Clinical Studies as Topic**

Works about research studies that evaluate interventions or exposures on biomedical or health-related outcomes. The two main types of clinical studies are interventional studies (clinical trials) and observational studies.

AN: for general design, methodology, economics, etc. of clinical studies; a different heading CLINICAL STUDY is used for reports of a specific clinical study

#### **Tree locations:**

Epidemiologic Study Characteristics as Topic E05.318.760.250  
N05.715.360.775.088  
N06.850.520.450.250

### **Clinical Study (Pub Type)**

A work that reports on the results of a research study to evaluate interventions or exposures on biomedical or health-related outcomes. The two main types of clinical studies are interventional studies (clinical trials) and observational studies. While most clinical studies concern humans, this publication type may be used for clinical veterinary articles meeting the requisites for humans.

AN: This heading is used as a Publication Type for original report of the conduct or results of a specific clinical study. A different heading CLINICAL STUDIES AS TOPIC is used for general design, methodology, economics, etc. of clinical studies. Prefer the specifics: CLINICAL TRIAL or OBSERVATIONAL STUDY.

#### **Tree locations:**

Study Characteristics V03.175

### **Clostridiales**

An order of anaerobic bacteria that are predominantly GRAM POSITIVE within the phylum Firmicutes. It includes the Clostridium and Eubacterium genera.

PI: Bacteria (2001-2015)

#### **Tree locations:**

Firmicutes B03.353.625

### **Cloud Computing**

Storing and processing data on multiple servers that can be accessed through the Internet.

FX: Technology

#### **Tree locations:**

Computing Methodologies L01.224.097

### **Coal Industry**

Enterprise associated with the mining, processing, marketing and distribution of COAL.

FX: Fossil Fuels

#### **Tree locations:**

Extraction and Processing Industry J01.576.655.875.200

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Cobicistat**

A carbamate and thiazole derivative that functions as a CYTOCHROME P450 CYP3A INHIBITOR to enhance the concentration of ANTI-HIV AGENTS, with which it is used in combination, for the treatment of HIV INFECTIONS.

#### **Tree locations:**

Carbamates D02.241.081.251.203  
Thiazoles D02.886.675.182  
D03.383.129.708.189

### **Cognitive Aging**

Phenomenon that occurs when learning and memory abilities decrease naturally due to age.

PI: Aging (1984-2015)

FX: Cognition Disorders

#### **Tree locations:**

Aging G07.700.320.124.260

### **Cognitive Neuroscience**

Field of study concerning MENTAL PROCESSES, LEARNING, and the brain regions associated with them.

AN: use for the discipline only (education, history, etc)

#### **Tree locations:**

Cognitive Science F04.096.628.255.500  
Neurosciences H01.158.610.030

### **Cold Injury**

A physical injury caused by exposure of the body to extremely low ambient temperatures that may lead to loss of body parts, or in extreme cases, death. Examples of cold injury are FROSTBITE and CHILBLAINS.

#### **Tree locations:**

Wounds and Injuries C26.212

### **Colesevelam Hydrochloride**

An allylamine derivative that binds BILE ACIDS in the intestine and is used as an ANTICHOLESTEREMIC AGENT in the treatment of HYPERCHOLESTEROLEMIA and HYPERLIPIDEMIAS.

#### **Tree locations:**

Allylamine D02.092.050.500  
D02.455.326.271.122.100.500

### **Compassion Fatigue**

Stress response that occurs in individuals working in care giving professions.

FX: Burnout, Professional

FX: Stress Disorders, Post-Traumatic

#### **Tree locations:**

Mental Fatigue C23.888.369.500.500  
F01.145.126.937.500  
Stress, Psychological F01.145.126.990.469  
F02.830.900.333



## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Computer Heuristics

Trial-and-error methods of problem-solving used when an algorithmic approach is impractical

FX: Heuristics

**Tree locations:**

Artificial Intelligence L01.224.050.375.095

### Concierge Medicine

An arrangement in which a patient pays an annual fee to a physician in exchange for services over and beyond normal insurance-reimbursed services.

PI: Health Services Accessibility (2000-2015)

**Tree locations:**

Practice Management, Medical N04.452.758.708.450.500

### Contraceptive Prevalence Surveys

Surveys that measure the usage rate of CONTRACEPTIVE DEVICES or CONTRACEPTIVE AGENTS.

**Tree locations:**

Surveys and Questionnaires E05.318.308.980.313  
L01.280.960.233  
N05.715.360.300.800.313  
N06.850.520.308.980.313

### Cosmeceuticals

COSMETICS that are associated with therapeutic effects.

PI: Cosmetics (2000-2015)

**Tree locations:**

Cosmetics D27.720.269.285  
Pharmaceutical Preparations D26.074

### Crew Resource Management, Healthcare

A range of healthcare related training designed to reduce MEDICAL ERRORS and improve PATIENT SAFETY by emphasizing TEAMWORK and human factors (see HUMAN ENGINEERING).

PI: Patient Care Team (2000-2015)

**Tree locations:**

Patient Care Management N04.590.254

### Criminal Behavior

Conduct leading to commission of unlawful acts.

PI: Criminal Psychology (1963-2015)

FX: Crime

FX: Criminal Psychology

FX: Criminals

**Tree locations:**

Behavior F01.145.250

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Critical Care Outcomes

A measure of the mortality and morbidity rates among patients who receive CRITICAL CARE and INTENSIVE CARE as determined from the date of hospital discharge or release.

**Tree locations:**

Outcome Assessment (Health Care) N05.715.360.575.575.200

Patient Outcome Assessment N04.761.559.590.399.250

### Crop Production

The science and practice of cultivating PLANTS that have economic value to man. It includes plant breeding, seed production, weeding, use of fertilizers, harvesting, storage, transportation, and marketing.

PI: Agriculture (1978-2015)

**Tree locations:**

Agriculture J01.040.227

### Crop Protection

The science and practice of preventing, minimizing, or eliminating damage to AGRICULTURAL CROPS by pest organisms, weeds, and disease-causing agents.

**Tree locations:**

Agriculture J01.040.237

### Culturally Appropriate Technology

A SCIENCE or TECHNOLOGY that promotes self-sufficiency and is suitable to the cultural, environmental, economic and social conditions of the geographic area in which it is applied.

FX: Diffusion of Innovation

**Tree locations:**

Technology J01.897.052

### Dabigatran

A THROMBIN inhibitor which acts by binding and blocking thrombogenic activity and the prevention of thrombus formation. It is used to reduce the risk of stroke and systemic EMBOLISM in patients with nonvalvular atrial fibrillation.

**Tree locations:**

Benzimidazoles D03.438.103.280

Pyridines D03.383.725.192

### Darbepoetin alfa

A recombinant protein which stimulates ERYTHROPOIESIS used to treat ANEMIA.

**Tree locations:**

Erythropoietin D12.776.395.240.150.500

### Darunavir

An HIV PROTEASE INHIBITOR that is used in the treatment of AIDS and HIV INFECTIONS. Due to the emergence of ANTIVIRAL DRUG RESISTANCE when used alone, it is administered in combination with other ANTI-HIV AGENTS.

**Tree locations:**

Carbamates D02.241.081.251.222

Furans D03.383.312.303

Sulfonamides D02.065.884.438

D02.886.590.700.400

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Dasatinib

A pyrimidine and thiazole derived ANTINEOPLASTIC AGENT and PROTEIN KINASE INHIBITOR of BCR-ABL KINASE. It is used in the treatment of patients with CHRONIC MYELOID LEUKEMIA who are resistant or intolerant to IMATINIB.

#### Tree locations:

Pyrimidines D03.383.742.148  
Thiazoles D02.886.675.184  
D03.383.129.708.198

### Data Accuracy

A measure of scientific precision, exactness, or correctness of quantitative or qualitative values, relative to the actual or true measurements.

#### Tree locations:

Data Collection E05.318.308.028  
L01.280.202  
N05.715.360.300.202  
Reproducibility of Results E05.318.780.725.250  
N05.715.360.780.685.250

### Data Anonymization

Making information permanently non-identifiable that is associated with the identity of specific entities via encryption or other methods.

FX: Personally Identifiable Information

#### Tree locations:

Computer Security L01.209.500  
N04.452.910.200.500  
Confidentiality N03.706.437.650.124.160  
Research H01.770.644.205

### Defamation

Public false statements that are illegal and damaging to the reputation of a person, group, business, organization, or institution.

FX: Jurisprudence

#### Tree locations:

Crime I01.198.240.240  
I01.880.735.191.051

### Denosumab

A humanized monoclonal antibody and an inhibitor of the RANK LIGAND, which regulates OSTEOCLAST differentiation and bone remodeling. It is used as a BONE DENSITY CONSERVATION AGENT in the treatment of OSTEOPOROSIS.

#### Tree locations:

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.782  
D12.776.124.790.651.114.224.060.782  
D12.776.377.715.548.114.224.200.782

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Deprescriptions

Directions written to discontinue use of PRESCRIPTION DRUGS in order to reduce unnecessary and/or excessive medications (see POLYPHARMACY), DRUG SIDE EFFECTS and ADVERSE DRUG REACTION.

PI: Drug Prescriptions (2007-2015)

FX: Potentially Inappropriate Medication List

FX: Inappropriate Prescribing

**Tree locations:**

Polypharmacy E02.319.698.500

### Dermal Fillers

Materials such as COLLAGEN or HYALURONIC ACID that are injected or deposited into the DERMIS for the purpose of skin augmentation.

FX: Injections, Subcutaneous

FX: Administration, Cutaneous

FX: Cosmetic Techniques

**Tree locations:**

Biomedical and Dental Materials D27.720.102.461

### Desvenlafaxine Succinate

A cyclohexanol and phenol derivative and metabolite of venlafaxine that functions as a SEROTONIN AND NORADRENALINE REUPTAKE INHIBITOR (SNRI) and is used as an ANTIDEPRESSIVE AGENT.

**Tree locations:**

Cyclohexanols D02.033.415.510.500.303

D02.455.426.392.368.367.318.500

D10.289.510.500.303

Phenols D02.455.426.559.389.657.265

### Diet, Food, and Nutrition

Concepts involved with nutritional physiology, including categories of substances eaten for sustenance, nutritional phenomena and processes, eating patterns and habits, and measurable nutritional parameters.

AN: used for searching; INDEXER: Do not use; CATALOGER: Do not use

**Tree locations:**

Physiological Phenomena G07.203

### Diet, Vegan

Dietary practice of avoiding animal products in any form.

PI: Diet, Vegetarian (1967-2015)

FX: Vegans

**Tree locations:**

Diet, Vegetarian E02.642.249.300.750

G07.203.650.240.300.750

### Digital Divide

Gap between individuals, households, businesses and geographic areas at different socioeconomic levels with regard to both their opportunities to access electronic information and communication technologies (ICTs). Their use of the Internet for a wide variety of activities, reflects various differences among and within countries.

**Tree locations:**

Communication Barriers L01.143.230.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Dimethyl Fumarate**

A fumarate derivative that is used as a DERMATOLOGIC AGENT in the treatment of PSORIASIS and SKIN DISEASES. It also may be used as an IMMUNOSUPPRESSIVE AGENT in the treatment of MULTIPLE SCLEROSIS.

**Tree locations:**

Fumarates D02.241.081.337.302.500

### **Diplomacy**

The art and practice of conducting negotiations between people, nations or other parties such as organizations.

**Tree locations:**

Group Processes F01.829.316.171

Negotiating F02.463.785.373.520.500

Politics I01.738.305

### **Direct-to-Consumer Advertising**

Advertising that directly targets consumers of certain products such as pharmaceuticals.

**Tree locations:**

Advertising as Topic J01.219.687.274.500

### **Direct-To-Consumer Screening and Testing**

Laboratory testing and diagnostic imaging services offered to consumers outside of the patient-physician relationship.

FX: Diagnostic Self Evaluation

**Tree locations:**

Diagnostic Services N02.421.726.233.166

Diagnostic Techniques and Procedures E01.370.398

### **Distance Counseling**

Counseling conducted via electronic or other non-face-to-face interactions.

PI: Counseling (2005-2015)

**Tree locations:**

Counseling F02.784.176.350

F04.408.413.437

N02.421.143.303.175

N02.421.461.363.437

Remote Consultation N04.452.758.849.550.500

### **Dose Hypofractionation**

A treatment schedule in which the total dose of radiation is divided into large doses.

FX: Radiation

**Tree locations:**

Dose Fractionation E02.815.639.200.500

Radiotherapy Dosage E02.815.639.600

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Driving Under the Influence**

Operating a motor vehicle while impaired by alcohol or other drugs including those prescribed by physicians.

PI: Automobile Driving (1967-2015)

#### **Tree locations:**

Automobile Driving I03.125.649  
Criminal Behavior F01.145.250.250  
Dangerous Behavior F01.145.263.500  
I01.880.735.223.250

### **Drosophila simulans**

A species of fruit fly.

PI: Drosophila (1963-2015)

#### **Tree locations:**

Drosophila B01.050.500.131.617.289.310.250.750

### **Drug Resistant Epilepsy**

Epileptic condition in which adequate trials of two tolerated and appropriately chosen and used ANTIEPILEPTIC DRUGS schedules to achieve sustained seizure freedom failed.

PI: Epilepsy (1968-2015)

#### **Tree locations:**

Epilepsy C10.228.140.490.125

### **Dual Use Research**

Concept relating to technologies and/or information emanating from research that holds the potential for both benevolent and malevolent applications to humanity and the environment.

FX: Censorship, Research

#### **Tree locations:**

Research H01.770.644.217

### **Duloxetine Hydrochloride**

A thiophene derivative and selective NEUROTRANSMITTER UPTAKE INHIBITOR for SEROTONIN and NORADRENALINE (SNRI). It is an ANTIDEPRESSIVE AGENT and ANXIOLYTIC, and is also used for the treatment of pain in patients with DIABETES MELLITUS and FIBROMYALGIA.

#### **Tree locations:**

Thiophenes D02.886.778.260  
D03.383.903.260

### **Dutasteride**

A 5-ALPHA-REDUCTASE INHIBITOR that is reported to inhibit both type-1 and type2 isoforms of the enzyme and is used to treat BENIGN PROSTATIC HYPERPLASIA.

#### **Tree locations:**

Azasteroids D04.808.925.100.125

### **Dynamic Light Scattering**

An analytical technique for measuring particle size of molecules that are less than a micron in diameter dispersed or dissolved in a liquid.

PI: Scattering, Radiation (1974-2015)

#### **Tree locations:**

Scattering, Radiation E05.196.822.325

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Ectopic Gene Expression**

The expression of a gene in an abnormal place, or at an abnormal time in an organism. Ectopic Gene Expression is often induced artificially by genetic techniques.

PI: Gene Expression Regulation (1981-2015)

#### **Tree locations:**

Gene Expression Regulation G05.355.315.202

### **Efavirenz, Emtricitabine, Tenofovir Disoproxil Fumarate Drug Combination**

Inhibitor or Reverse Transcriptases or of RNA-directed DNA polymerase.

FX: Antiretroviral Therapy, Highly Active

#### **Tree locations:**

Drug Combinations D26.310.375  
Emtricitabine D03.383.742.680.245.500.600.125  
Oxazines D03.383.533.375  
Tenofovir D02.705.429.906.125  
D03.438.759.138.881.125

### **ELAV-Like Protein 1**

An RRM protein that binds to the 3'-UTR region of mRNAs and increases their stability. In EMBRYONIC STEM CELLS, it binds to poly-U elements and AU-rich elements (AREs) in the 3'-UTR of target mRNAs and preferentially binds mRNAs that are not methylated by N6-methyladenosine (m6A), to stabilize them and promote differentiation.

PI: ELAV Proteins (2005-2015)

PI: RNA-Binding Proteins (2000-2015)

#### **Tree locations:**

ELAV Proteins D12.776.157.725.813.500.250  
D12.776.664.962.813.500.250

### **ELAV-Like Protein 2**

A neural-specific RRM protein that binds to several 3'UTRs, including its own as well as that of PROTO-ONCOGENE PROTEINS C-FOS and ID DNA BINDING PROTEIN INHIBITOR. It binds through the recognition of a GAAA motif in the RNAs.

PI: ELAV Proteins (2005-2015)

#### **Tree locations:**

ELAV Proteins D12.776.157.725.813.500.500  
D12.776.641.520.500  
D12.776.664.962.813.500.500

### **ELAV-Like Protein 3**

A neural-specific RRM protein which contains three RNP-type RNA recognition motifs (RRMs). Human ELAVL3 is recognized by the anti-Hu serum antibody from patients with paraneoplastic encephalomyelitis and sensory neuronopathy (PEM/PSN). It also functions in neurogenesis.

PI: ELAV Proteins (2005-2015)

#### **Tree locations:**

ELAV Proteins D12.776.157.725.813.500.750  
D12.776.641.520.750  
D12.776.664.962.813.500.750

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **ELAV-Like Protein 4**

An RRM protein which binds AU-rich sequences in the 3' UNTRANSLATED REGIONS of mRNAs for PROTO-ONCOGENE PROTEINS C-FOS; CYCLIN-DEPENDENT KINASE INHIBITOR P21; and GAP-43 PROTEIN. It functions in neuron-specific RNA processing.

PI: ELAV Proteins (2005-2015)

#### **Tree locations:**

ELAV Proteins D12.776.157.725.813.500.875  
D12.776.641.520.875  
D12.776.664.962.813.500.875

### **Electrocorticography**

Recording of brain electrical activities in which the electrodes are placed directly on the CEREBRAL CORTEX.

PI: Electroencephalography (1965-2015)

#### **Tree locations:**

Electroencephalography E01.370.376.300.294  
E01.370.405.245.431

### **Elvitegravir, Cobicistat, Emtricitabine, Tenofovir Disoproxil Fumarate Drug Combination**

A pharmaceutical preparation of the ANTI-HIV AGENTS elvitegravir, cobicistat, emtricitabine, and tenofovir disoproxil fumarate that is used in the treatment of HIV INFECTIONS.

#### **Tree locations:**

Cobicistat D02.241.081.251.203.500  
D02.886.675.182.500  
D03.383.129.708.189.500  
Drug Combinations D26.310.391  
Emtricitabine D03.383.742.680.245.500.600.250  
D13.570.230.329.525.250  
D13.570.685.245.500.600.250  
Tenofovir D02.705.429.906.250  
D03.438.759.138.881.250

### **Embryonic Germ Cells**

PLURIPOTENT STEM CELLS that are derived from early GERM CELLS.

PI: Germ Cells (1974-2015)

#### **Tree locations:**

Embryonic Stem Cells A11.872.700.250.625  
Germ Cells A11.497.124

### **Emotional Adjustment**

Psychological process that occurs when an individual adapts to a significant emotional event or stimulus.

FX: Adjustment Disorders

FX: Social Adjustment

#### **Tree locations:**

Adaptation, Psychological F01.058.144  
Emotional Intelligence F01.752.543.500.250



## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Emtricitabine**

A deoxycytidine analog and REVERSE TRANSCRIPTASE INHIBITOR with antiviral activity against HIV-1 and HEPATITIS B viruses. It is used to treat HIV INFECTIONS.

#### **Tree locations:**

Deoxycytidine D03.383.742.680.245.500.600  
D13.570.230.329.525  
D13.570.685.245.500.600

### **Emtricitabine, Rilpivirine, Tenofovir Drug Combination**

A pharmaceutical preparation that contains emtricitabine, rilpivirine and tenofovir disoproxil fumarate. It is used to treat HIV INFECTIONS.

#### **Tree locations:**

Drug Combinations D26.310.407  
Emtricitabine D03.383.742.680.245.500.600.500  
Rilpivirine D02.626.809.500  
D03.383.742.755.500  
Tenofovir D02.705.429.906.500  
D03.438.759.138.881.500

### **Emtricitabine, Tenofovir Disoproxil Fumarate Drug Combination**

A pharmaceutical preparation of emtricitabine and tenofovir that is used as an ANTI-HIV AGENT in the treatment and prevention of HIV INFECTIONS.

#### **Tree locations:**

Drug Combinations D26.310.423  
Emtricitabine D03.383.742.680.245.500.600.750  
D13.570.230.329.525.500  
D13.570.685.245.500.600.500  
Tenofovir D02.705.429.906.750  
D03.438.759.138.881.750

### **Environmental Psychology**

The field that studies interactions between individuals and the built and natural environment. It includes investigating behaviors that inhibit or foster sustainable, climate-healthy, and nature-enhancing choices.

AN: use for the discipline (education, history, etc) only

FX: Environmental Medicine

FX: Ecology

#### **Tree locations:**

Psychology F04.096.628.033

### **Epoetin Alfa**

A recombinant glycosylated form of erythropoietin which stimulates the differentiation and proliferation of erythroid precursors. It is used for the treatment of ANEMIA associated with CHRONIC RENAL FAILURE in dialysis and predialysis patients.

#### **Tree locations:**

Erythropoietin D12.644.276.374.410.240.150.500  
D12.776.395.240.150.750  
D12.776.467.374.410.240.150.500  
D23.529.374.410.240.150.750

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Erlotinib Hydrochloride**

A quinazoline derivative and ANTINEOPLASTIC AGENT that functions as a PROTEIN KINASE INHIBITOR for EGFR associated tyrosine kinase. It is used in the treatment of NON-SMALL CELL LUNG CANCER.

**Tree locations:**

Quinazolines D03.438.786.375

### **Eszopiclone**

A pyridine, pyrazine, and piperazine derivative that is used as a HYPNOTIC AND SEDATIVE in the treatment of INSOMNIA.

**Tree locations:**

Piperazines D03.383.606.398

Pyrazines D03.383.679.600

Pyridines D03.383.725.322

### **Etanercept**

A recombinant version of soluble human TNF receptor that binds specifically to TUMOR NECROSIS FACTOR and inhibits its binding with endogenous TNF receptors. It prevents the inflammatory effect of TNF and is used to treat RHEUMATOID ARTHRITIS; PSORIATIC ARTHRITIS and ANKYLOSING SPONDYLITIS.

**Tree locations:**

Immunoglobulin G D12.776.124.486.485.114.619.393.261

D12.776.124.790.651.114.619.393.261

D12.776.377.715.548.114.619.393.261

Receptors, Tumor Necrosis Factor D12.776.543.750.705.852.760.232

### **Eugenia**

A genus in the family Myrtaceae sometimes known as "stoppers" in FOLK MEDICINE. Many species of the genus SYZYGIUM have synonymous names that begin with the Eugenia genus name.

PI: Syzygium (2002-2015)

**Tree locations:**

Myrtaceae B01.650.940.800.575.100.773.374

### **Everolimus**

A derivative of sirolimus and an inhibitor of TOR SERINE-THREONINE KINASES. It is used to prevent GRAFT REJECTION in heart and kidney transplant patients by blocking cell proliferation signals. It is also an ANTINEOPLASTIC AGENT.

**Tree locations:**

Sirolimus D02.540.505.760.500

### **Evidence-Based Facility Design**

An approach, process, or methodology which emphasizes credible evidence and the best available scientific knowledge, judiciously integrated to achieve the best possible outcomes in structural design. For example, the design of a new OUTPATIENT CLINIC might incorporate a review of published research on outpatient clinic design, decisions on similar past projects, along with interviews with staff and consumers.

**Tree locations:**

Facility Design and Construction N02.278.200.252

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Exoskeleton Device

Device designed to wear externally to support muscular skeletal system in various movements such as RANGE OF MOTIONS; WEIGHT-BEARING; GAIT; and LOCOMOTION.

PI: Robotics (1999-2015)

PI: Orthotic Devices (2006-2015)

FX: Robotics

**Tree locations:**

Equipment and Supplies E07.341

### Exposure to Violence

Experience of and exposure to VIOLENCE.

**Tree locations:**

Violence I01.880.735.900.869

### Extracellular Vesicles

Membrane limited structures derived from cell membranes and cytoplasmic material, and released into EXTRACELLULAR SPACE. They circulate through the EXTRACELLULAR FLUID and through the peripheral blood in the MICROVASCULATURE where cells, much larger, cannot, thereby affecting a variety of intercellular communication processes.

**Tree locations:**

Extracellular Space A11.284.295.588

### Ezetimibe

An azetidine derivative and ANTICHOLESTEREMIC AGENT that inhibits intestinal STEROL absorption. It is used to reduce total CHOLESTEROL; LDL CHOLESTEROL, and APOLIPOPROTEINS B in the treatment of HYPERLIPIDEMIAS.

**Tree locations:**

Azetidines D03.383.082.301.550

### Ezetimibe, Simvastatin Drug Combination

A pharmaceutical preparation of ezetimibe and simvastatin that is used in the treatment of HYPERCHOLESTEROLEMIA and HYPERLIPIDEMIAS.

**Tree locations:**

Drug Combinations D26.310.431

Ezetimibe D03.383.082.301.550.500

Simvastatin D02.455.426.559.847.638.400.900.500

D04.615.638.400.900.500

### Facial Recognition

Ability to identify an individual and interpret their feelings and emotions based on their facial expressions.

PI: Pattern Recognition, Visual (1977-2015)

**Tree locations:**

Pattern Recognition, Visual F02.463.593.524.500.500

F02.463.593.932.622.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Failure to Rescue, Health Care

Inability to prevent a clinical deterioration resulting from a complication of an underlying medical condition or a complication of medical care. It implies that common risk factors for such a complication were not recognized in a timely manner or treated appropriately.

PI: Resuscitation (1992-2015)

PI: Treatment Failure (2005-2015)

#### **Tree locations:**

Outcome Assessment (Health Care)	H01.770.644.145.431.500
	N04.761.559.590.200
	N05.715.360.575.575.300
Treatment Failure	E01.789.800.760.500
	N04.761.559.590.800.760.500
	N05.715.360.575.575.800.760.500

### Fallopia

Genus of flowering herbaceous perennial plants and vines in the family Polygonaceae.

#### **Tree locations:**

Polygonaceae B01.650.940.800.575.100.825.359

### Fallopia multiflora

A species of Fallopia in the buckwheat family (Polygonaceae). Its roots are used in TRADITIONAL CHINESE MEDICINE.

PI: Polygonaceae (2002-2015)

#### **Tree locations:**

Fallopia B01.650.940.800.575.100.825.359.590

### Farmers

Persons who cultivate land or crops, or raise LIVESTOCK.

PI: Agriculture (1963-2015)

#### **Tree locations:**

Occupational Groups M01.526.390

### Febuxostat

A thiazole derivative and inhibitor of XANTHINE OXIDASE that is used for the treatment of HYPERURICEMIA in patients with chronic GOUT.

#### **Tree locations:**

Thiazoles D02.886.675.274  
D03.383.129.708.274

### Fecal Microbiota Transplantation

Transfer of GASTROINTESTINAL MICROBIOTA from one individual to another by infusion of donor FECES to the upper or lower GASTROINTESTINAL TRACT of the recipient.

#### **Tree locations:**

Biological Therapy E02.095.231

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Filgrastim

A recombinant granulocyte colony-stimulating factor (G-CSF) that is used in the treatment and prevention of NEUTROPENIA, and to prepare blood progenitor cells for collection and use in PERIPHERAL BLOOD STEM CELL TRANSPLANTATION.

**Tree locations:**

Granulocyte Colony-Stimulating Factor D12.644.276.374.410.240.350.500  
D12.776.395.240.200.500  
D12.776.467.374.410.240.350.500  
D23.529.374.410.240.350.500

### Financial Statements

Formal and structured record of financial activities of a business, person, or other entity.

FX: Financial Management

**Tree locations:**

Accounting N03.219.463.030.140

### Fingolimod Hydrochloride

A sphingosine-derivative and IMMUNOSUPPRESSIVE AGENT that blocks the migration and homing of LYMPHOCYTES to the CENTRAL NERVOUS SYSTEM through its action on SPHINGOSINE 1-PHOSPHATE RECEPTORS. It is used in the treatment of MULTIPLE SCLEROSIS.

**Tree locations:**

Propylene Glycols D02.033.455.706.431  
Sphingosine D02.033.100.700.350  
D02.092.063.700.350

### Firmicutes

A phylum of predominantly GRAM-POSITIVE BACTERIA that includes the orders Bacillales and Clostridiales. Firmicutes and BACTEROIDETES are the two bacterial phyla that constitute the majority of the human gut MICROBIOTA.

PI: Gram-Positive Bacteria (2004-2015)

**Tree locations:**

Bacteria B03.353

### Fluticasone

A STEROID with GLUCOCORTICOID RECEPTOR activity that is used to manage the symptoms of ASTHMA; ALLERGIC RHINITIS, and ATOPIC DERMATITIS.

**Tree locations:**

Androstadienes D04.808.054.079.129.114

### Fluticasone Propionate, Salmeterol Xinafoate Drug Combination

A drug combination of fluticasone and salmeterol that is used as an inhaler formulation to manage the symptoms of ASTHMA and CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

**Tree locations:**

Drug Combinations D26.310.438  
Fluticasone D04.808.054.079.129.114.500  
Salmeterol Xinafoate D02.033.100.291.057.750.500  
D02.092.063.291.057.750.500  
D02.092.471.683.061.750.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Formative Feedback**

Information communicated to the learner that is intended to modify the learner's thinking or behavior for the purpose of improving learning.

PI: Learning (2010-2015)

#### **Tree locations:**

Feedback L01.143.283.425.156

Learning F02.784.629.529.223

### **Formoterol Fumarate**

An ADRENERGIC BETA-2 RECEPTOR AGONIST with a prolonged duration of action. It is used to manage ASTHMA and in the treatment of CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

FX: Albuterol

FX: Mometasone Furoate

#### **Tree locations:**

Ethanolamines D02.033.100.291.425

D02.092.063.291.425

### **Fractures, Multiple**

Injuries involving the breaking of either several bones or one bone in two or more places.

#### **Tree locations:**

Fractures, Bone C26.404.280

Multiple Trauma C26.640.500

### **Fruit and Vegetable Juices**

The liquids extracted from plants.

AN: coordinate with specific fruit or vegetable

PI: Beverages (1963-2015)

#### **Tree locations:**

Beverages G07.203.100.606

J02.200.606

### **Functional Behavior, Psychology**

Aberrant or socially inappropriate BEHAVIOR displayed by individuals with cognitive or communication disabilities crucial to the implementation of intervention programs.

#### **Tree locations:**

Behavior F01.145.437

### **Fungal Viruses**

Viruses infecting species of FUNGI.

AN: coordinate with specific fungus/ virology

PI: Fungi or specific/virology (1994-2015)

#### **Tree locations:**

Viruses B04.352

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Fused Kidney**

Congenital fusion of two kidneys.

PI: Kidney Diseases (1963-2015)

#### **Tree locations:**

Urogenital Abnormalities C12.706.445  
C13.351.875.420  
C16.131.939.445

### **Games, Recreational**

Activity typically involving several individuals for the purpose of leisure, amusement, entertainment or pleasure.

FX: Video Games

#### **Tree locations:**

Play and Playthings I03.450.642.693.465

### **Gastrointestinal Microbiome**

All of the microbial organisms that naturally exist within the GASTROINTESTINAL TRACT.

#### **Tree locations:**

Microbiota G06.755.375  
G16.500.275.157.049.100.500.375  
N06.230.124.049.100.500.250

### **Gender Dysphoria**

A marked difference between the individual's expressed/experienced gender and the gender others would assign him or her, and it must continue for at least six months. (from DSM-5)

#### **Tree locations:**

Sexual Dysfunctions, Psychological F03.835.550

### **Genetic Background**

The entire genetic composition of a strain or individual that interacts with a gene of interest.

PI: Genetics (1963-2015)

FX: Heredity

#### **Tree locations:**

Genetic Phenomena G05.346

### **Ghee**

The clarified portion of milk, cream, or butter obtained by the removal of the nonfat constituents. (from Dictionary of Food Ingredients, 4th ed., 2001)

PI: Dietary Fats (1969-2015)

#### **Tree locations:**

Butter D10.212.302.199.500  
G07.203.300.350.100.500  
G07.203.300.375.200.500  
J02.500.350.100.500  
J02.500.375.200.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Giraffes

Four-legged hoofed mammals with extremely long necks and legs belonging to the family Giraffidae.

PI: Artiodactyla (1963-2015)

**Tree locations:**

Ruminants B01.050.150.900.649.077.380.443

### Glatiramer Acetate

A random polymer of L-ALANINE, L-GLUTAMIC ACID, L-LYSINE, and L-TYROSINE that structurally resembles MYELIN BASIC PROTEIN. It is used in the treatment of RELAPSING-REMITTING MULTIPLE SCLEROSIS.

**Tree locations:**

Peptides D12.644.219

### Glucagon-Like Peptide Receptors

G-PROTEIN COUPLED CELL SURFACE RECEPTORS that bind GLUCAGON-LIKE PEPTIDES and are expressed by cells in pancreatic, intestinal, and neural tissues. These receptors regulate cellular responses to BLOOD GLUCOSE, INSULIN, and INFLAMMATION signals.

PI: Receptors, Glucagon (1995-2015)

**Tree locations:**

Receptors, G-Protein-Coupled D12.776.543.750.100.021

Receptors, Gastrointestinal Hormone D12.776.543.750.750.360.100

### Glucagon-Like Peptide-1 Receptor

A receptor for GLUCAGON-LIKE PEPTIDE 1 (GLP-1) expressed primarily on the surface of beta and ductal exocrine cells of the pancreas, as well as cells of other tissues. GLP-1 acts through GLP-1R to potentiate signaling in pancreatic cells in response to glucose-stimulated insulin secretion (GSIS).

PI: Receptors, Glucagon (1995-2015)

**Tree locations:**

Glucagon-Like Peptide Receptors D12.776.543.750.100.021.500

D12.776.543.750.750.360.100.500

### Glucagon-Like Peptide-2 Receptor

A receptor for GLUCAGON-LIKE PEPTIDE 2 (GLP-2) that is expressed on the surface of intestinal cells as well as neural cells. GLP-2 and other peptides act through GLP-2R to regulate cellular responses to BLOOD GLUCOSE, INFLAMMATION, and FOOD INTAKE.

PI: Receptors, Glucagon (2000-2015)

**Tree locations:**

Glucagon-Like Peptide Receptors D12.776.543.750.100.021.600

D12.776.543.750.750.360.100.600

### Glycemic Load

A quantitative value of a measured amount of a specific food that is equal to the GLYCEMIC INDEX of that food multiplied by the carbohydrate content of that food.

AN: GLYCEMIC INDEX is also available

PI: Glycemic Index (2003-2015)

**Tree locations:**

Nutritive Value G07.203.650.660.750

J01.576.423.850.730.750.750

N06.850.601.750.750



## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Grandparents

Member of a family who has children and grandchildren.

PI: Intergenerational Relations (1963-2015)

FX: Family

#### **Tree locations:**

Family F01.829.263.403  
I01.880.853.150.452  
Persons M01.264

### Graphic Novels (*Pub Type*)

Book-length narratives told using a combination of words and sequential art, often presented in comic book style. from (Fletcher-Spear et al., ALA Review, Winter 2005)

AN: This heading is used as a Publication Type. INDEXER: Do not use

PI: Cartoons (2014-2015)

#### **Tree locations:**

Pictorial Works V02.700.375  
Publication Formats V02.503

### Health Equity

Opportunity to attain full health potential and no one is disadvantaged from achieving this potential because of their social position or other socially determined circumstance.

#### **Tree locations:**

Health Services Accessibility N04.590.374.350.500  
N05.300.430.383

### Health Smart Cards

Hand-sized cards with built-in computer chips used for accessing, storing, and protecting patients' medical information.

#### **Tree locations:**

Medical Records Systems, Computerized E05.318.308.940.968.625.750  
L01.280.900.968.775.500  
L01.313.500.750.300.695.300  
N04.452.859.564.650.250  
N05.715.360.300.715.500.530.500  
N06.850.520.308.940.968.625.500  
Patient Identification Systems N04.452.653.250

### Healthcare Failure Mode and Effect Analysis

Prospective risk assessment tool aimed at identifying potential risks and their impact in healthcare settings.

PI: Risk Assessment (2002-2015)

#### **Tree locations:**

Risk Assessment E05.318.740.600.800.715.500  
N04.452.871.715.400  
N05.715.360.750.625.700.690.400  
N06.850.505.715.500  
N06.850.520.830.600.800.715.500

### Help-Seeking Behavior

Form of social behavior in which assistance is sought from others.

#### **Tree locations:**

Social Behavior F01.145.813.217

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Heptavalent Pneumococcal Conjugate Vaccine**

A pneumococcal vaccine which 7 pneumococcal serotypes (6B, 14, 19F, 23F, 18C, 4, 9V), each conjugated individually to the outer membrane protein complex of NEISSERIA MENINGITIDIS.

**Tree locations:**

Pneumococcal Vaccines D20.215.894.135.750.600.500

### **Heuristics**

Experience-based techniques for problem-solving, learning, and discovery that find a solution which is not guaranteed to be optimal, but sufficient for a given set of goals.

FX: Artificial Intelligence

FX: Computer Heuristics

**Tree locations:**

Problem Solving F02.463.425.725.500

F02.463.785.810.500

### **Hoarding Disorder**

Persistent difficulty discarding or parting with possessions due to a perceived need to save the items and distress associated with discarding them. (from DSM-V)

**Tree locations:**

Obsessive-Compulsive Disorder F03.080.600.250

### **Hoodia**

A genus in the dogbane family (Apocynaceae) used in TRADITIONAL MEDICINE for appetite-suppressant properties.

PI: Apocynaceae (2007-2015)

**Tree locations:**

Apocynaceae B01.650.940.800.575.100.081.389

### **Human Embryonic Stem Cells**

A type of PLURIPOTENT STEM CELLS derived from early stage human embryos, up to and including the BLASTOCYST stage.

PI: Embryonic Stem Cells (2006-2015)

**Tree locations:**

Embryonic Stem Cells A11.872.700.250.750

### **Human Papillomavirus Recombinant Vaccine Quadrivalent, Types 6, 11, 16, 18**

A vaccine containing L1 capsid proteins from four types of HPV (ALPHAPAPILLOMAVIRUS), types 6, 11, 16 and 18 that is used to prevent infections from HUMAN PAPILLOMAVIRUSES of these subtypes.

**Tree locations:**

Papillomavirus Vaccines D20.215.894.899.498.500

### **Humidifiers**

Machines that add moisture to the air.

FX: Respiration, Artificial

**Tree locations:**

Equipment and Supplies E07.451

Household Articles J01.494.650

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Hydraulic Fracking

A drilling technology in which NATURAL GAS is extracted from large deposits of impermeable rock formations known as shale, deep within the earth's crust. This drilling technique involves injecting large volumes of high-pressure fracturing fluid (a mixture of water, sand, and chemicals) several thousand feet underground, thereby creating cracks or fissures in the shale formation, and releasing trapped gas.

**Tree locations:**

Oil and Gas Industry J01.576.655.875.750.500

### Hyssopus Plant

A genus in the mint family (Lamiaceae). Members contain thujone and PHENOL. Distinguished from AGASTACHE (giant hyssop) and BACOPA (water hyssop). Also distinguished from the genus of WASPS with the same genus name Hyssopus.

PI: Lamiaceae (2002-2015)

**Tree locations:**

Lamiaceae B01.650.940.800.575.100.583.520.330

### Imatinib Mesylate

A tyrosine kinase inhibitor and ANTINEOPLASTIC AGENT that inhibits the BCR-ABL kinase created by chromosome rearrangements in CHRONIC MYELOID LEUKEMIA and ACUTE LYMPHOBLASTIC LEUKEMIA, as well as PDG-derived tyrosine kinases that are overexpressed in gastrointestinal stromal tumors.

**Tree locations:**

Benzamides D02.065.277.456  
D02.241.223.100.100.435  
D02.455.426.559.389.127.085.465  
Piperazines D03.383.606.405  
Pyrimidines D03.383.742.349

### Immunosenescence

The decline in the function of the IMMUNE SYSTEM during aging.

PI: Aging (2015)

**Tree locations:**

Aging G07.700.320.124.390  
Immunocompetence G12.460.500

### Incisional Hernia

Protrusion of tissue at or near the site of an incision from a previous surgery.

PI: Hernia (1966-2015)

**Tree locations:**

Hernia C23.300.707.945  
Postoperative Complications C23.550.767.500

### Industrial Development

Activity concerned with the planning and building of industries through manufacturing, provision of specialized services, and COMMERCE.

**Tree locations:**

Economic Development I01.261.262.500  
Industry J01.576.519

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Infant Health**

The concept covering the physical and mental conditions of INFANTS.

PI: Infant Welfare (1994-2015)

FX: Infant Welfare

#### **Tree locations:**

Health N01.400.388

### **Infectious Encephalitis**

Brain inflammation caused by an infectious agent..

AN: coordinate IM with specific organism /infection term (IM); note ENCEPHALITIS, VIRAL is available

PI: Encephalitis (1964-2015)

#### **Tree locations:**

Central Nervous System Infections C10.228.228.399

Encephalitis C10.228.140.430.520

### **Infliximab**

A chimeric monoclonal antibody to TNF ALPHA that is used in the treatment of RHEUMATOID ARTHRITIS; ANKYLOSING SPONDYLITIS; PSORIATIC ARTHRITIS and CROHN'S DISEASE.

#### **Tree locations:**

Antibodies, Monoclonal D12.776.124.486.485.114.224.608

D12.776.124.790.651.114.224.537

D12.776.377.715.548.114.224.642

### **Injection, Intratympanic**

The administration of liquid substances into the TYMPANIC CAVITY with a hypodermic syringe.

PI: Injections (1968-2015)

#### **Tree locations:**

Injections E02.319.267.530.655

### **Insulin Detemir**

A recombinant long-acting insulin and HYPOGLYCEMIC AGENT in which a MYRISTIC ACID is conjugated to a LYSINE at position B29. It is used to manage BLOOD GLUCOSE levels in patients with DIABETES MELLITUS.

#### **Tree locations:**

Insulin, Long-Acting D06.472.699.587.200.300.050

D12.644.548.586.200.300.050

### **Insulin Glargine**

A recombinant LONG ACTING INSULIN and HYPOGLYCEMIC AGENT that is used to manage BLOOD GLUCOSE in patients with DIABETES MELLITUS.

#### **Tree locations:**

Insulin, Long-Acting D06.472.699.587.200.300.100

D12.644.548.586.200.300.100

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Interferon beta-1a

An interferon beta-1 subtype that has a methionine at position 1, a cysteine at position 17, and is glycosylated at position 80. It functions as an ANTI-VIRAL AGENT and IMMUNOMODULATOR and is used to manage the symptoms of RELAPSING-REMITTING MULTIPLE SCLEROSIS.

**Tree locations:**

Interferon-beta D12.644.276.374.440.890.275.500  
D12.776.467.374.440.890.275.500  
D23.529.374.440.890.275.500

### Interferon beta-1b

A non-glycosylated form of interferon beta-1 that has a serine at position 17. It is used in the treatment of both RELAPSING-REMITTING MULTIPLE SCLEROSIS and CHRONIC PROGRESSIVE MULTIPLE SCLEROSIS.

**Tree locations:**

Interferon-beta D12.644.276.374.440.890.275.750  
D12.776.467.374.440.890.275.750  
D23.529.374.440.890.275.750

### Interleukin-33

A member of the INTERLEUKIN-1 protein family involved in the maturation of TH2 CELLS and the activation of MAST CELLS; BASOPHILS; EOSINOPHILS and NK CELLS. It is also produced by ENDOTHELIAL CELLS; EPITHELIAL CELLS and FIBROBLASTS; where it can function as an alarmin to modulate immune and inflammatory responses to tissue damage.

PI: Interleukins (2005-2015)

**Tree locations:**

Alarmins D12.644.276.087.597  
D12.776.467.087.813  
D23.529.087.780  
Interleukins D12.644.276.374.465.850  
D12.776.467.374.465.850  
D23.529.374.465.850

### Internal Ribosome Entry Sites

Sequences within MESSENGER RNA that enable PROTEIN TRANSLATION INITIATION independent of 5' CAPPED RNA.

**Tree locations:**

Regulatory Sequences, Ribonucleic Acid D13.444.735.790.878.942.250  
G02.111.570.080.689.687.093  
G05.360.080.689.687.093

### International Law

The body of law that governs the legal relations between or among sovereign states or nations.

FX: Internationality

**Tree locations:**

Jurisprudence I01.880.604.583.466  
N03.706.535.533

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Intimate Partner Violence**

A pattern of assaultive and coercive behavior by an individual against their partner or spouse that may include physical injury, psychological abuse, sexual assault, progressive isolation, stalking, deprivation, intimidation, and reproductive coercion.

PI: Spouse Abuse (1997-2015)

FX: Sex Offenses

#### **Tree locations:**

Violence I01.198.240.856.575

I01.880.735.900.688

### **Intravital Microscopy**

Microscopic observation of live tissue in situ to study the behavior of individual cells with respect to their in vivo interactions, adhesion, motility, and location.

PI: Microscopy (1963-2015)

#### **Tree locations:**

Microscopy E01.370.350.515.277

E05.595.185

### **Iridescence**

The changing of the color of an object due to variations in the angle of illumination or observation.

#### **Tree locations:**

Optical Phenomena G01.590.310

### **Isolated Heart Preparation**

Method of isolation and maintenance of a working heart for various cardiac measurements. The model allows for the separation of cardiac and systemic variables in the denervated heart.

PI: Heart (1963-2015)

PI: Perfusion (1963-2015)

FX: Myocardial Reperfusion Injury

#### **Tree locations:**

Investigative Techniques E05.519

Models, Animal E05.598.750

### **Isophane Insulin, Human**

Human isophane insulin that is used to manage BLOOD GLUCOSE levels in patients with DIABETES.

#### **Tree locations:**

Insulin, Isophane D06.472.699.587.200.300.200.500

D12.644.548.586.200.300.200.500

Insulin, Regular, Human D06.472.699.587.200.500.625.500.500

D12.644.548.586.200.500.625.500.500

### **Kombucha Tea**

A beverage made by FERMENTATION of black tea and/or green tea.

PI: Tea (1995-2015)

#### **Tree locations:**

Tea D20.215.784.844.500

G07.203.100.831.500

J02.200.831.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Lamiales

An order of the Lamiidae clade. Lamiales is one of the largest orders of flowering plants and includes pot-herbs in the mint family (MINT; SAGE; OREGANO; BASIL); SESAME, foxgloves; SNAPDRAGONS; and the olive family.

PI: Angiosperms (2004-2015)

**Tree locations:**

Angiosperms B01.650.940.800.575.100.583

### Late Onset Disorders

Pathological conditions (Disorder, SYNDROME, or DISEASE) whose SIGNS AND SYMPTOMS manifest late in the life of an individual.

PI: Age of Onset (1984-2015)

**Tree locations:**

Disease Attributes C23.550.291.883

### Legal Services

Services provided by ATTORNEYS and paralegal staff.

**Tree locations:**

Jurisprudence I01.880.604.583.482

### Legendary Creatures

An unverified animal or humanoid, sometimes supernatural, often believed to be real and described in MYTHOLOGY, FOLKLORE, or legends. Some legendary creatures, such as the unicorn, were documented in scholarly antiquarian accounts of natural history.

**Tree locations:**

Folklore I01.076.201.450.515.500

### Libraries, Special

Collections covering specialized subjects, containing materials in a special format, or serving a specialized clientele.

**Tree locations:**

Libraries L01.346.596.831

### Linagliptin

A purine and quinazoline derivative that functions as an INCRETIN and DIPEPTIDYL-PEPTIDASE IV INHIBITOR. It is used as a HYPOGLYCEMIC AGENT in the treatment of TYPE II DIABETES MELLITUS.

FX: Sitagliptin Phosphate

**Tree locations:**

Purines D03.438.759.562

Quinazolines D03.438.786.563

### Linezolid

An oxazolidinone and acetamide derived ANTI-BACTERIAL AGENT and PROTEIN SYNTHESIS INHIBITOR that is used in the treatment of GRAM-POSITIVE BACTERIAL INFECTIONS of the skin and respiratory tract.

**Tree locations:**

Acetamides D02.065.064.463

D02.241.081.018.110.525

Oxazolidinones D03.383.129.462.600.550

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Liraglutide**

An analog of GLUCAGON-LIKE PEPTIDE 1 and agonist of the GLUCAGON-LIKE PEPTIDE 1 RECEPTOR that is used as a HYPOGLYCEMIC AGENT and supplemental therapy in the treatment of DIABETES MELLITUS by patients who do not respond to METFORMIN.

**Tree locations:**

Glucagon-Like Peptide 1 D06.472.317.469.500.500.500

### **Lisdexamfetamine Dimesylate**

A dextroamphetamine drug precursor that also functions as a CENTRAL NERVOUS SYSTEM STIMULANT and DOPAMINE UPTAKE INHIBITOR and is used in the treatment of ATTENTION DEFICIT HYPERACTIVITY DISORDER.

**Tree locations:**

Dextroamphetamine D02.092.471.683.152.110.200.500

### **Literacy**

Ability to read and write.

FX: Writing

FX: Reading

FX: Handwriting

FX: Health Literacy

**Tree locations:**

Communication F01.145.209.429

L01.143.563

Educational Status N01.824.196.500

### **Long Term Adverse Effects**

Persistent detrimental effects from treatment for a condition. Included are effects from surgery such as POSTOPERATIVE COMPLICATIONS, and from DRUG THERAPY, such as CHEMICALLY INDUCED DISORDERS, or other THERAPEUTICS. Failure to attain a desired outcome from treatment for the condition is not considered an adverse effect.

**Tree locations:**

Pathologic Processes C23.550.543

### **Loteprednol Etabonate**

An androstadiene derivative corticosteroid that is used as an ANTI-ALLERGIC AGENT for the treatment of inflammatory and allergic eye conditions.

**Tree locations:**

Androstadienes D04.808.054.079.129.284

### **Lubiprostone**

Member of a bicyclic fatty acid class of compounds derived from PROSTAGLANDIN E1 involved in chloride channel gating.

**Tree locations:**

Alprostadiol D10.251.355.325.050.500



## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Lurasidone Hydrochloride**

A thiazole derivative and atypical ANTIPSYCHOTIC AGENT that functions as a DOPAMINE D2 RECEPTOR ANTAGONIST; SEROTONIN 5-HT<sub>2</sub> RECEPTOR ANTAGONIST, serotonin 5-HT<sub>7</sub> receptor antagonist, and antagonist of the adrenergic  $\alpha$ <sub>2A</sub> and  $\alpha$ <sub>2C</sub> receptors, as well as a partial SEROTONIN 5-HT<sub>1A</sub> RECEPTOR AGONIST. It is used in the treatment of SCHIZOPHRENIA and BIPOLAR DISORDER.

#### **Tree locations:**

Isoindoles D03.438.513.437  
Thiazoles D02.886.675.414  
D03.383.129.708.414

### **Machine Learning**

A type of ARTIFICIAL INTELLIGENCE that enable COMPUTERS to independently initiate and execute LEARNING when exposed to new data.

#### **Tree locations:**

Artificial Intelligence G17.035.250.500  
L01.224.050.375.530

### **Mammary Analogue Secretory Carcinoma**

A malignant neoplasm of epithelial cells of the SALIVARY GLANDS, with microcystic architecture, low-grade nuclei, and granular vacuolated cytoplasm.

PI: Carcinoma (2010-2015)

#### **Tree locations:**

Carcinoma C04.557.470.200.588

### **Maternal Health**

The health of women during PREGNANCY; childbirth and the POSTPARTUM PERIOD.

PI: Maternal Welfare (1974-2015)

FX: Maternal Health Services

FX: Maternal Welfare

#### **Tree locations:**

Women's Health N01.400.900.500

### **Maternal-Child Health Services**

Programs organized for the purpose of providing medical and social services for mothers and children.

PI: Maternal-Child Health Centers (1978-2015)

#### **Tree locations:**

Child Health Services N02.421.143.130.660  
Maternal Health Services N02.421.143.620.275

### **Medical Overuse**

Excessive or unnecessary utilization of health services by patients or physicians.

PI: Unnecessary Procedures (2014-2015)

FX: Polypharmacy

FX: Drug Overdose

FX: Diagnostic Errors

FX: Inappropriate Prescribing

#### **Tree locations:**

Health Services Misuse N02.421.380.450  
N05.300.150.395.450

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Medical-Surgical Nursing

The area of nursing concerned with the needs and care of adult medical and surgical patients.

FX: Operating Room Nursing

**Tree locations:**

Nursing Care N02.421.533.475

Specialties, Nursing H02.478.676.403

### Memory Consolidation

Neurological process involving the conversion of learned information into long-term memory.

FX: Learning

**Tree locations:**

Memory, Long-Term F02.463.425.540.305.500

### Metacognition

Awareness and understanding of one's own thought processes.

PI: Self-Concept (1985-2015)

PI: Cognition (1982-2015)

FX: Self-Assessment

**Tree locations:**

Cognition F02.463.188.756

### Millet

An agronomic group especially of small-seeded grasses, mainly grown for human and animal consumption.

AN: general or unspecified; note several specific millet terms are available

PI: Panicum (1981-2015)

**Tree locations:**

Poaceae B01.650.940.800.575.100.822.587

### Miners

Persons who work in a mine to extract ore or MINERALS from the earth.

PI: Mining (1963-2015)

**Tree locations:**

Occupational Groups M01.526.693

### Mitochondrial Replacement Therapy

In vitro fertilization technique that uses mitochondrial DNA from a healthy donor in order to prevent the transmission of MITOCHONDRIAL DISEASE.

PI: Cellular Reprogramming (2014-2015)

**Tree locations:**

Cellular Reprogramming Techniques E05.200.500.380.250  
E05.393.085.250

Fertilization in Vitro E02.875.800.750.350  
E05.820.800.750.350

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Mitochondrial Ribosomes**

Multicomponent ribonucleoprotein structures contained in MITOCHONDRIA that specialize in the PROTEIN BIOSYNTHESIS of a small number of proteins involved in energy production for the cell.

PI: Ribosomes (1964-2015)

#### **Tree locations:**

Mitochondria A11.284.430.214.190.875.564.755

Ribosomes A11.284.430.214.190.875.811.370

### **Mometasone Furoate**

A pregnadienediol derivative ANTI-ALLERGIC AGENT and ANTI-INFLAMMATORY AGENT that is used in the management of ASTHMA and ALLERGIC RHINITIS. It is also used as a topical treatment for skin disorders.

FX: Formoterol Fumarate

#### **Tree locations:**

Pregnadienediols D04.808.745.432.719.526

### **Mometasone Furoate, Formoterol Fumarate Drug Combination**

A pharmaceutical preparation of mometasone furoate and formoterol fumarate that is used as an inhaled dosage form for the treatment of ASTHMA.

#### **Tree locations:**

Drug Combinations D26.310.469

Formoterol Fumarate D02.033.100.291.425.500

D02.092.063.291.425.500

Mometasone Furoate D04.808.745.432.719.526.500

### **Morcellation**

Use of a non-cautery-dependent mechanical device that simultaneously cuts and aspirates polyp and/or myoma tissue.

PI: Minimally Invasive Surgical Procedures (2000-2015)

#### **Tree locations:**

Minimally Invasive Surgical Procedures E04.502.648

### **Motor Disorders**

Motor skills deficits that significantly and persistently interfere with ACTIVITIES OF DAILY LIVING appropriate to chronological age. (from DSM-V)

PI: Motor Skills Disorders (1998-2015)

#### **Tree locations:**

Mental Disorders F03.608

### **Mouse Embryonic Stem Cells**

PLURIPOTENT STEM CELLS derived from the BLASTOCYST INNER CELL MASS of day 3.5 mouse embryos.

PI: Embryonic Stem Cells (2006-2015)

#### **Tree locations:**

Embryonic Stem Cells A11.872.700.250.875

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Mutation Accumulation**

Concept which describes the incremental effects of MUTATION in living organisms.

PI: Mutation (1977-2015)

FX: Aging

FX: Mutagenesis

**Tree locations:**

Mutation G05.365.590.594

### **Natalizumab**

A humanized monoclonal immunoglobulin G4 antibody to human INTEGRIN ALPHA4 that binds to the alpha4 subunit of INTEGRIN ALPHA4BETA1 and integrin alpha4beta7. It is used as an IMMUNOLOGIC FACTOR in the treatment of RELAPSING-REMITTING MULTIPLE SCLEROSIS and CROHN'S DISEASE.

FX: Integrin alpha4

**Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.813

D12.776.124.790.651.114.224.060.813

D12.776.377.715.548.114.224.200.813

### **Natural Resources**

Materials or substances such as land, timber, fresh water, fossil fuels, or mineral deposits that occur in a natural state and have economic value or usefulness to humans.

AN: coordinate with specific natural resource if pertinent

FX: Conservation of Natural Resources

**Tree locations:**

Environment G16.500.275.553

N06.230.350

Technology, Industry, and Agriculture J01.728

### **Near Miss, Healthcare**

Event that presented a risk but did not result in a patient harm.

**Tree locations:**

Medical Errors N02.421.450.550

Medication Errors E02.319.529.750

N02.421.450.500.750

Quality Assurance, Health Care N04.761.700.594

N05.700.513

### **Nebivolol**

A cardioselective ADRENERGIC BETA-1 RECEPTOR ANTAGONIST (beta-blocker) that functions as a VASODILATOR through the endothelial L-arginine/ NITRIC OXIDE system. It is used to manage HYPERTENSION and chronic HEART FAILURE in elderly patients.

**Tree locations:**

Benzopyrans D03.383.663.283.755

D03.438.150.755

Ethanolamines D02.033.100.291.491

D02.092.063.291.503

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Nerve Agents**

A class of compounds that adversely affect the transmission of impulses through the NERVOUS SYSTEM.

PI: Organophosphorus Compounds (1982-2015)

**Tree locations:**

Chemical Warfare Agents D27.720.777.300.500

Specialty Uses of Chemicals D27.720.599

### **Neurodevelopmental Disorders**

These are a group of conditions with onset in the developmental period. The disorders typically manifest early in development, often before the child enters grade school, and are characterized by developmental deficits that produce impairments of personal, social, academic, or occupational functioning. (From DSM-V).

**Tree locations:**

Mental Disorders F03.625

### **Neurological Rehabilitation**

Physician-supervised programs designed to rehabilitate people with diseases, trauma, or disorders of the NERVOUS SYSTEM.

PI: Rehabilitation (1963-2015)

**Tree locations:**

Rehabilitation E02.831.477

H02.403.680.600.750

N02.421.784.511

### **Neuropathology**

The branch of medicine and biomedical science concerned with diseases of the nervous system.

AN: use for the discipline only (education, history, etc.) only

PI: Nervous System Diseases (1965-2015)

**Tree locations:**

Neurology H02.403.600.250

Neurosciences H01.158.610.184

Pathology H02.403.650.375

### **Neuroprotection**

The physiological processes and techniques used by the body to prevent neuronal injury and degeneration in the central nervous system following acute disorders or as a result of chronic neurodegenerative diseases.

**Tree locations:**

Nervous System Physiological Processes G11.561.600.638

### **Neurosurgeons**

Qualified medical professionals who specialize in surgical treatment of diseases of the BRAIN and other parts of the NERVOUS SYSTEM.

**Tree locations:**

Surgeons M01.526.485.810.910.750

N02.360.810.910.750

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Neurovascular Coupling

Mechanism by which changes in neural activity are tightly associated with regional cortical HEMODYNAMICS and metabolism changes. The association is often inferred from NEUROIMAGING signals (e.g., fMRI; or NIR SPECTROSCOPY).

PI: Cerebrovascular Circulation (1997-2015)

FX: Hemodynamics

**Tree locations:**

Cerebrovascular Circulation G09.330.190.163.159.500

### No-Show Patients

PATIENTS who do not turn up for scheduled healthcare appointments. Do not confuse with PATIENT DROPOUTS.

FX: Patient Dropouts

**Tree locations:**

Office Visits N04.452.758.635.500

Patient Compliance F01.145.488.500.750  
N05.300.150.600.600.750

### Obesity, Metabolically Benign

A sub-PHENOTYPE of obese individuals who have a risk for CARDIOVASCULAR DISEASES between that of healthy individuals with normal weight and unhealthy individuals with obesity.

PI: Obesity (2005-2015)

**Tree locations:**

Obesity C18.654.726.500.698  
C23.888.144.699.500.250  
E01.370.600.115.100.160.120.699.500.375  
G07.100.100.160.120.699.500.375

### Oil and Gas Industry

INDUSTRY concerned with the extraction, processing, distribution, marketing and storage of PETROLEUM and NATURAL GAS.

FX: Petroleum

FX: Natural Gas

FX: Fossil Fuels

**Tree locations:**

Extraction and Processing Industry J01.576.655.875.750

### Olive Oil

Oil extracted from fruit of the OLIVE TREE (genus Olea).

PI: Plant Oils (1986-2015)

**Tree locations:**

Dietary Fats, Unsaturated D10.212.302.380.580  
G07.203.300.375.400.500  
J02.500.375.400.500  
Fats, Unsaturated D10.212.507.650  
Plant Oils D10.627.700.728

### Olmesartan Medoxomil

An ANGIOTENSIN II TYPE 1 RECEPTOR BLOCKER that is used to manage HYPERTENSION.

**Tree locations:**

Imidazoles D03.383.129.308.674  
Tetrazoles D03.383.129.617.584

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Olopatadine Hydrochloride**

An antihistamine with mast-cell stabilizing properties used as eye drops in the treatment of ALLERGIC CONJUNCTIVITIS.

**Tree locations:**

Dibenzoxepins D03.494.382.696

### **Omalizumab**

An anti-IgE, recombinant, humanized monoclonal antibody which specifically binds to the C epsilon3 domain of IMMUNOGLOBULIN E, the site of high-affinity IgE receptor binding. It inhibits the binding of IgE to MAST CELLS and BASOPHILS to reduce the severity of the allergic response and is used in the management of persistent allergic ASTHMA.

**Tree locations:**

Antibodies, Anti-Idiotypic D12.776.124.486.485.114.071.500

D12.776.124.790.651.114.071.500

D12.776.377.715.548.114.071.500

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.844

D12.776.124.790.651.114.224.060.844

D12.776.377.715.548.114.224.200.844

### **Ononis**

A genus of the pea family (Fabaceae), native from Europe to Central Asia and used in TRADITIONAL MEDICINE.

**Tree locations:**

Fabaceae B01.650.940.800.575.100.401.604

### **Open Access Publishing**

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**Tree locations:**

Publishing L01.737.569

### **Optimism**

Mental attitude that interprets life events as generally being positive.

**Tree locations:**

Attitude F01.100.787

### **Oral and Maxillofacial Surgeons**

Dentists who specialize in the surgical treatment of injuries, diseases, and abnormalities of the oral and maxillofacial regions.

**Tree locations:**

Dentists M01.526.485.330.483

N02.360.330.483

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Orexin Receptor Antagonists

Substances that bind to and inhibit the action of OREXIN RECEPTORS. Drugs in this class have been used as SLEEP AIDS.

PI: Orexin Receptors (2014-2015)

**Tree locations:**

Neurotransmitter Agents D27.505.519.625.663  
D27.505.696.577.663  
Sleep Aids, Pharmaceutical D27.505.954.842.500

### Orexins

Neuropeptide hormones that play a role in regulating a variety of behavioral and physiological processes in response to motivational stimuli.

FX: Orexin Receptors

**Tree locations:**

Neuropeptides D12.644.400.360  
D12.776.641.650.363

### Origin of Life

The process by which life began.

PI: Organelle Biogenesis (1978-2015)

**Tree locations:**

Biological Phenomena G16.595  
Paleontology I01.076.368.584.542

### Orthodontists

Dentists who specialize in the treatment of misaligned TEETH and MALOCCLUSION.

**Tree locations:**

Dentists M01.526.485.330.655  
N02.360.330.655

### Paliperidone Palmitate

A benzisoxazole derivative and active metabolite of RISPERIDONE that functions as a DOPAMINE D2 RECEPTOR ANTAGONIST and SEROTONIN 5-HT2 RECEPTOR ANTAGONIST. It is an ANTIPSYCHOTIC AGENT used in the treatment of SCHIZOPHRENIA.

**Tree locations:**

Isoxazoles D03.383.129.385.650  
Pyrimidines D03.383.742.592

### Palivizumab

A humanized monoclonal antibody and ANTIVIRAL AGENT that is used to prevent RESPIRATORY SYNCYTIAL VIRUS INFECTIONS in high risk pediatric patients.

**Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.860  
D12.776.124.790.651.114.224.060.860  
D12.776.377.715.548.114.224.200.860



## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Parasite Encystment

Process by which certain parasites such as GIARDIA and ENTAMOEBA convert from the TROPHOZOITE to SCHIZONT when exposed to stress.

FX: Trophozoites

**Tree locations:**

Metamorphosis, Biological G07.700.320.500.550.875

### Parks, Recreational

An area of land open to the public for enjoyment.

PI: Recreation (1989-2015)

**Tree locations:**

Public Facilities N06.850.860.410.375

### Parmeliaceae

The largest family of lichen-forming fungi.

PI: Ascomycota (2004-2015)

**Tree locations:**

Ascomycota B01.300.107.685

Lichens B01.300.340.458

### Pathogen-Associated Molecular Pattern Molecules

Pathogens' molecules with specific sequence patterns that are recognized by PATTERN RECOGNITION RECEPTORS. They include microbial DNA, double-stranded RNA, surface glycoproteins, lipopolysaccharides, peptidoglycans, and lipoteichoic acid.

**Tree locations:**

Biological Factors D23.585

### Pedestrians

Persons traveling on foot.

**Tree locations:**

Persons M01.665

### Peer Influence

The effect or sway that a PEER GROUP exerts on the beliefs, value systems and behavior of each member of a group. The social expectations for individuals to conform to peer group influence is known as peer pressure.

PI: Peer Group (1968-2015)

**Tree locations:**

Peer Group F01.829.316.483.750

### Pemetrexed

A guanine-derived ANTINEOPLASTIC AGENT that functions as a NUCLEIC ACID SYNTHESIS INHIBITOR through its binding to, and inhibition of, THYMIDYLATE SYNTHASE.

**Tree locations:**

Glutamates D12.125.067.625.525

D12.125.119.409.525

Guanine D03.438.759.758.399.454.650

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Pericardial Fluid**

Watery fluid produced in the serous and visceral pericardium surrounding the surface of the HEART.

PI: Pericardium (1964-2015)

PI: Pericardial Effusion (1967-2015)

#### **Tree locations:**

Extracellular Fluid A12.207.270.651

Pericardium A07.541.795.500

A10.615.789.470.500

### **Personal Protective Equipment**

Specialized clothing or equipment worn for protection against health hazards. Personal Protective Equipment (PPE) may include MASKS, RESPIRATORY PROTECTIVE DEVICES, HEAD PROTECTIVE DEVICES, EYE PROTECTIVE DEVICES, PROTECTIVE CLOTHING and protective footwear.

#### **Tree locations:**

Equipment and Supplies E07.662

### **Personally Identifiable Information**

Information that can be used to distinguish or trace an individual's identity, either alone or when combined with other personal or identifying information that is linked or linkable to a specific individual.

FX: Data Anonymization

#### **Tree locations:**

Confidentiality I01.880.604.583.080.660

### **Pessimism**

Mental attitude that interprets life events as generally being negative.

#### **Tree locations:**

Attitude F01.100.893

### **Phakopsora pachyrhizi**

Fungal pathogen which causes Soybean Rust disease in Soybeans (Glycine max).

PI: Basidiomycota (1980-2015)

#### **Tree locations:**

Basidiomycota B01.300.179.110

### **Pharmacological Phenomena**

Interactions that occur between a living organism and chemicals that affect normal or abnormal biochemical function.

AN: general or unspecified; prefer specifics

#### **Tree locations:**

Pharmacological and Toxicological Phenomena and Processes G07.690.773

### **Physical Abuse**

Violence inflicted on an individual through physical contact.

#### **Tree locations:**

Violence I01.198.240.856.688

I01.880.735.900.744

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Plant Breeding

The purposeful manipulation of plant species with the goal of creating desired genotypes and phenotypes, using techniques such as controlled pollination and or genetic engineering, followed by artificial selection of progeny.

**Tree locations:**

Crop Production J01.040.227.500

### Plantaginaceae

A plant family of order Lamiales. The Plantago genus is best known. Lesser known members include Hippuris, Littorella and Callitriche.

**Tree locations:**

Lamiales B01.650.940.800.575.100.583.700

### Plantar Plate

Fibrocartilaginous ligament at the metatarsophalangeal and the interphalangeal joint of the toe.

PI: Metatarsophalangeal Joint (1979-2015)

**Tree locations:**

Fibrocartilage A02.165.308.650

A10.165.382.350.400

Ligaments, Articular A02.513.514.538

A02.835.583.512.538

Metatarsophalangeal Joint A02.835.583.378.531.500

Toe Joint A02.835.583.378.900.500

### Plasmablastic Lymphoma

Malignant lymphoma composed of large B lymphoid cells which have the immunophenotype of plasma cells and a predilection for the ORAL CAVITY.

PI: Lymphoma, Large B-Cell, Diffuse (1998-2015)

**Tree locations:**

Lymphoma, Large B-Cell, Diffuse C04.557.386.480.150.585.500

C15.604.515.569.480.150.585.500

C20.683.515.761.480.150.585.500

### Podosomes

Actin-rich adhesive structures found at the ventral surface of metazoan ENDOTHELIAL CELLS. When found in cultured cancer cells they are referred to as invadopodia. These are matrix-degrading structures composed of an ACTIN CYTOSKELETON core and an INTEGRINS-containing ring complex.

PI: Extracellular Matrix (1996-2015)

PI: Cell Surface Extensions (2006-2015)

FX: Mechanotransduction, Cellular

**Tree locations:**

Cell Surface Extensions A11.284.180.695

Endothelial Cells A11.436.275.841

### Point-of-Care Testing

Allows patient diagnoses in the physician's office, in other ambulatory setting or at bedside. The results of care are timely, and allow rapid treatment to the patient. (from NIH Fact Sheet Point-of-Care Diagnostic Testing, 2010.)

**Tree locations:**

Point-of-Care Systems N04.590.874.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Poly(ADP-ribose) Polymerase Inhibitors**

Chemicals and drugs that inhibit the action of POLY(ADP-RIBOSE)POLYMERASES.

**Tree locations:**

Antineoplastic Agents D27.505.954.248.692  
Enzyme Inhibitors D27.505.519.389.739

### **Population Forecast**

Estimates of projected population.

PI: Forecasting (1977-2015)

FX: Population Growth

**Tree locations:**

Demography N01.224.667  
Forecasting I01.320.500

### **Potentially Inappropriate Medication List**

A list, criteria, or screening tool designed to improve PATIENT SAFETY by determining an individual's exposure to potentially inappropriate drugs. They are designed to prevent MEDICATION ERRORS by INAPPROPRIATE PRESCRIBING. Analysis for a list includes factors such as DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG-RELATED SIDE EFFECTS AND ADVERSE REACTIONS; AGE FACTORS; GENDER; and existing medical conditions.

PI: Medication Errors (2003-2015)

PI: Inappropriate Prescribing (2010-2015)

FX: Deprescriptions

FX: Inappropriate Prescribing

**Tree locations:**

Quality Assurance, Health Care N04.761.700.615  
N05.700.594

### **Prasugrel Hydrochloride**

A piperazine derivative and PLATELET AGGREGATION INHIBITOR that is used to prevent THROMBOSIS in patients with ACUTE CORONARY SYNDROME; UNSTABLE ANGINA and MYOCARDIAL INFARCTION, as well as in those undergoing PERCUTANEOUS CORONARY INTERVENTIONS.

**Tree locations:**

Piperazines D03.383.606.420  
Thiophenes D02.886.778.315  
D03.383.903.315

### **Pregabalin**

A gamma-aminobutyric acid (GABA) derivative that functions as a CALCIUM CHANNEL BLOCKER and is used as an ANTICONVULSANT as well as an ANTI-ANXIETY AGENT. It is also used as an ANALGESIC in the treatment of NEUROPATHIC PAIN and FIBROMYALGIA.

**Tree locations:**

gamma-Aminobutyric Acid D02.241.081.114.500.350.500  
D12.125.190.350.450

### **Prescription Drug Overuse**

The use of a medication in an amount more than as prescribed.

**Tree locations:**

Prescription Drug Misuse E02.319.754.750

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Presenteeism**

Reporting for work despite feeling ill.

#### **Tree locations:**

Psychology, Industrial F02.784.692.586  
F04.096.628.779.450

### **Prisoner Dilemma**

A scenario in decision analysis in which two individuals motivated entirely by self-preservation at the expense of the other, end up in a worse state than if they had cooperated with each other in the decision-making process.

#### **Tree locations:**

Games, Experimental E05.385.500

### **Problem Behavior**

Troublesome or disruptive behavioral displays.

FX: Attention Deficit and Disruptive Behavior Disorders

#### **Tree locations:**

Behavioral Symptoms F01.145.126.972  
Child Behavior F01.145.179.750

### **Professionalism**

The level of skill, good judgment, and polite behavior expected from people trained to do their jobs well.

FX: Ethics, Medical

FX: Professional Competence

#### **Tree locations:**

Ethics, Professional K01.752.566.479.171.566  
N05.350.340.581

### **Protein Corona**

A layer of protein coating adsorbed by NANOPARTICLES upon entry into PLASMA or other protein-containing biological fluids, which affects how nanoparticles are internalized by cells and cleared from the body.

#### **Tree locations:**

Proteins D12.776.642

### **Protein Translocation Systems**

Multiprotein complexes that carry out PROTEIN TRANSPORT across CELL MEMBRANES.

FX: Membrane Transport Proteins

#### **Tree locations:**

Multiprotein Complexes D05.500.890

### **Prunus africana**

A plant species in the family ROSACEAE. The bark extract known as pygeum is an ingredient in FOLK REMEDIES.

#### **Tree locations:**

Prunus B01.650.940.800.575.100.842.500.625.250

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Prunus armeniaca**

A plant species in the family ROSACEAE. It is the source of apricot fruit.

PI: Prunus (2001-2015)

#### **Tree locations:**

Prunus B01.650.940.800.575.100.842.500.625.375

### **Prunus avium**

A plant species in the family ROSACEAE. It is the source of the sweet cherry fruit.

PI: Prunus (2001-2015)

#### **Tree locations:**

Prunus B01.650.940.800.575.100.842.500.625.400

### **Prunus domestica**

A plant species in the family ROSACEAE. It is a tree that produces fruits called plums.

PI: Prunus (2001-2015)

#### **Tree locations:**

Prunus B01.650.940.800.575.100.842.500.625.450

### **Prunus dulcis**

A plant species in the family ROSACEAE, genus Prunus which produces edible seeds called almonds.

PI: Prunus (2001-2015)

#### **Tree locations:**

Prunus B01.650.940.800.575.100.842.500.625.500

### **Prunus persica**

A plant species in the family ROSACEAE. It is a tree that produces peach fruit.

PI: Prunus (2001-2015)

#### **Tree locations:**

Prunus B01.650.940.800.575.100.842.500.625.750

### **Psychiatric Rehabilitation**

Specialty field that promotes recovery, community functioning, and increased well-being of individuals diagnosed with mental disorders that impair their ability to live meaningful lives.

#### **Tree locations:**

Rehabilitation H02.403.680.600.875  
N02.421.784.578

### **Psychiatry in Literature**

Written or other literary works whose subject matter is related to mental disorders or psychiatry from the lay or practitioner perspective. .

AN: coordinate IM with psychiatric aspect (IM) + specific literature heading (IM) + literary type if pertinent (as POETRY; DRAMA, etc.) (IM)

#### **Tree locations:**

Medicine in Literature K01.517.584.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Psychological Trauma**

Overwhelming emotional damage caused by a distressful event or series of events.

FX: Stress Disorders, Post-Traumatic

**Tree locations:**

Stress Disorders, Traumatic F03.950.750.375

### **Psychology, Sports**

Field of research that studies mental factors influencing the attainment of athletic skills and athletic performance.

PI: Sports (1970-2015)

FX: Sports Medicine

**Tree locations:**

Psychology F04.096.628.914

### **Public Service Announcements (*Pub Type*)**

Works consisting of announcements which promote programs, activities, or services of federal, state, or local governments or those of non-profit organizations and other announcements regarded as serving community interests.

AN: This heading is used as a Publication Type. Public Service Announcements as a subject are indexed under the heading Public Service Announcement as Topic; INDEXER: Do not use

**Tree locations:**

Publication Formats V02.736

### **Public Service Announcements as Topic**

Announcements for which no charge is made and which promote programs, activities, or services of federal, state, or local governments or those of non-profit organizations and other announcements regarded as serving community interests.

AN: do not confuse with the Publication Type PUBLIC SERVICE ANNOUNCEMENTS

**Tree locations:**

Communication L01.143.805

### **Pyroptosis**

Type of programmed cell death associated with infection by intracellular pathogens. It is characterized by INFLAMMASOME formation; activation of CASPASE 1; and CYTOKINES mediated inflammation.

PI: Apoptosis (2005-2015)

FX: Necrosis

**Tree locations:**

Apoptosis G04.299.139.160.530

### **Quetiapine Fumarate**

A dibenzothiazepine and ANTIPSYCHOTIC AGENT that targets the SEROTONIN 5-HT2 RECEPTOR; HISTAMINE H1 RECEPTOR, adrenergic alpha1 and alpha2 receptors, as well as the DOPAMINE D1 RECEPTOR and DOPAMINE D2 RECEPTOR. It is used in the treatment of SCHIZOPHRENIA; BIPOLAR DISORDER and DEPRESSIVE DISORDER.

**Tree locations:**

Dibenzothiazepines D02.886.680.702.500.500  
D03.494.276.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Radiation Exposure**

Phenomenon in which organisms are subjected to radiation.

FX: Environmental Pollutants

**Tree locations:**

Environmental Exposure N06.850.460.350.850

Radiation G01.750.748

### **Raltegravir Potassium**

A pyrrolidinone derivative and HIV INTEGRASE INHIBITOR that is used in combination with other ANTI-HIV AGENTS for the treatment of HIV INFECTION.

**Tree locations:**

Pyrrolidinones D03.383.773.812.752

### **Ranibizumab**

A recombinant humanized monoclonal antibody fragment that binds VEGF-A to prevent its binding to VEGFR-1 and VEGFR-2 receptors. This activity reduces vessel permeability and angiogenesis in the treatment of neovascular age-related MACULAR DEGENERATION.

**Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.868

D12.776.124.790.651.114.224.060.868

D12.776.377.715.548.114.224.200.868

### **Ranolazine**

An acetanilide and piperazine derivative that functions as a SODIUM CHANNEL BLOCKER and prevents the release of enzymes during MYOCARDIAL ISCHEMIA. It is used in the treatment of ANGINA PECTORIS.

**Tree locations:**

Acetanilides D02.065.199.092.850

Piperazines D03.383.606.841

### **RAW 264.7 Cells**

A transformed macrophage cell line isolated from ASCITES of mice infected with ABELSON MURINE LEUKEMIA VIRUS.

AN: almost always NIM with no subheadings; check ANIMALS and MICE

PI: Macrophages (1983-2015)

PI: Cell Line (1983-2015)

**Tree locations:**

Cell Line, Transformed A11.251.210.172.875

Macrophages A11.733.397.815

### **Re-Irradiation**

Treatment in which a repeat course of RADIOTHERAPY is administered.

PI: Radiotherapy (1965-2015)

**Tree locations:**

Radiotherapy E02.815.791

Retreatment E02.887.500



## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Red Meat

Meat such as beef, pork, or lamb which contains more MYOGLOBIN than POULTRY or SEAFOOD.

PI: Meat (1975-2015)

#### **Tree locations:**

Meat G07.203.300.600.813  
J02.500.600.813

### Refugium

Area in an environment in which a population of organisms can survive through a period of unfavorable conditions.

#### **Tree locations:**

Ecological and Environmental Phenomena G16.500.819  
Environment G16.500.275.683

### Rehabilitation Research

Studies and research concerning the psychological, educational, social, vocational, industrial, and economic aspects of REHABILITATION.

PI: Rehabilitation (2004-2015)

FX: Disabled Persons

#### **Tree locations:**

Biomedical Research H01.770.644.145.472

### Return to Sport

Resumption of sporting activity following a hiatus or period of absence due to injury or other reasons.

#### **Tree locations:**

Sports I03.450.642.845.605

### Rilpivirine

A diarylpyrimidine derivative and REVERSE TRANSCRIPTASE INHIBITOR with antiviral activity against HIV-1 that is used in the treatment of HIV INFECTIONS. It is also used in combination with other ANTI-HIV AGENTS, since ANTIVIRAL DRUG RESISTANCE emerges rapidly when it is used alone.

#### **Tree locations:**

Nitriles D02.626.809  
Pyrimidines D03.383.742.755

### Risedronate Sodium

An aminobisphosphonate derivative of etidronic acid and CALCIUM CHANNEL BLOCKER that inhibits BONE RESORPTION and is used for the treatment of OSTEOPOROSIS.

#### **Tree locations:**

Etidronic Acid D02.705.429.500.830.500

### Rituximab

A murine-derived monoclonal antibody and ANTINEOPLASTIC AGENT that binds specifically to the CD20 ANTIGEN and is used in the treatment of LEUKEMIA; LYMPHOMA and RHEUMATOID ARTHRITIS.

#### **Tree locations:**

Antibodies, Monoclonal, Murine-Derived D12.776.124.486.485.114.224.075.785  
D12.776.124.790.651.114.224.075.785  
D12.776.377.715.548.114.224.284.785

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Rivaroxaban**

A morpholine and thiophene derivative that functions as a FACTOR XA INHIBITOR and is used in the treatment and prevention of DEEP-VEIN THROMBOSIS and PULMONARY EMBOLISM. It is also used for the prevention of STROKE and systemic embolization in patients with non-valvular ATRIAL FIBRILLATION, and for the prevention of atherothrombotic events in patients after an ACUTE CORONARY SYNDROME.

#### **Tree locations:**

Morpholines D03.383.533.640.713  
Thiophenes D02.886.778.727  
D03.383.903.727

### **Rivastigmine**

A carbamate-derived reversible CHOLINESTERASE INHIBITOR that is selective for the CENTRAL NERVOUS SYSTEM and is used for the treatment of DEMENTIA in ALZHEIMER DISEASE and PARKINSON DISEASE.

#### **Tree locations:**

Phenylcarbamates D02.241.081.251.583.899

### **RNA Recognition Motif (RRM) Proteins**

A family of RNA-BINDING PROTEINS which contain a motif consisting of two ribonucleoprotein (RNP) domains that bind RNA, and other domains that allow for high affinity binding, sequence specificity, and protein interactions. Examples of RRM proteins include HETEROGENEOUS NUCLEAR RIBONUCLEARPROTEINS (hnRNP) and EMBRYONIC LETHAL ABNORMAL-VISION (ELAV) proteins.

PI: RNA-Binding Proteins (1993-2015)

#### **Tree locations:**

RNA-Binding Proteins D12.776.157.725.813  
D12.776.664.962.813

### **RNAi Therapeutics**

A form of disease treatment which involves the silencing of genes that are associated with a disease by the process of RNA INTERFERENCE.

PI: RNA Interference (2004-2015)

FX: Gene Expression Regulation

#### **Tree locations:**

Genetic Therapy E02.095.301.250

### **Romanticism**

The attitude or intellectual orientation that characterized many works of literature, painting, music, architecture, criticism, and historiography in Western civilization over a period from the late 18th to the mid-19th century.

#### **Tree locations:**

Humanities K01.883

### **Rosuvastatin Calcium**

A HYDROXYMETHYLGLUTARYL-COA-REDUCTASE INHIBITOR, or statin, that reduces the plasma concentrations of LDL-CHOLESTEROL; APOLIPOPROTEIN B, and TRIGLYCERIDES while increasing HDL-CHOLESTEROL levels in patients with HYPERCHOLESTEROLEMIA and those at risk for CARDIOVASCULAR DISEASES.

FX: Simvastatin

#### **Tree locations:**

Fluorobenzenes D02.455.526.510.432.500  
Pyrimidines D03.383.742.775  
Sulfonamides D02.065.884.650  
D02.886.590.700.650

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Round Ligament of Femur

Ligament that connects the fovea of the FEMUR HEAD and the ACETABULUM notch in the HIP JOINT.

PI: Ligaments (1963-2015)

PI: Femur (1963-2015)

#### **Tree locations:**

Hip Joint A02.835.583.411.500  
Ligaments, Articular A02.513.514.800  
A02.835.583.512.950  
Round Ligaments A02.513.901.500

### Round Ligament of Liver

A cord-like remnant structure formed from the closed left fetal UMBILICAL VEIN. It is located along the lower edge of the falciform ligament.

PI: Ligaments (1963-2015)

#### **Tree locations:**

Liver A03.620.575  
Round Ligaments A02.513.901.750

### Round Ligaments

Cord-like fibrous tissue structure that connects two articular extremities of bones, ligaments and /or cartilages.

PI: Ligaments (1966-2015)

#### **Tree locations:**

Ligaments A02.513.901

### S100A12 Protein

A member of the S100 PROTEIN FAMILY that regulates INFLAMMATION and the immune response. It recruits LEUKOCYTES, promotes cytokine and chemokine production, and regulates leukocyte adhesion and migration. S100A12 can also function via binding to ADVANCED GLYCOSYLATION END PRODUCT-SPECIFIC RECEPTORS, to stimulate innate immune cells.

PI: S100 Proteins (2003-2015)

#### **Tree locations:**

Alarmins D12.644.276.087.901  
D12.776.467.087.937  
D23.529.087.943  
S100 Proteins D12.776.157.125.750.875

### Saline Waters

Water from natural sources which contain significant concentrations of dissolved salts such as sodium chloride.

FX: Hypertonic Solutions

#### **Tree locations:**

Environment G16.500.275.725

### Salmeterol Xinafoate

A selective ADRENERGIC BETA-2 RECEPTOR agonist that functions as a BRONCHODILATOR when administered by inhalation. It is used to manage the symptoms of ASTHMA and CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

#### **Tree locations:**

Albuterol D02.033.100.291.057.750  
D02.092.063.291.057.750  
D02.092.471.683.061.750

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Seed Bank**

A repository of seeds maintained under optimal conditions that ensure long term storage, intended for use as a source of replenishment of seed stock or plant genetic material.

PI: Seeds (2000-2015)

#### **Tree locations:**

Biological Specimen Banks N02.278.065.650

### **Selective Breeding**

A process in which offspring possessing desired genetic traits are produced.

FX: Reproductive Techniques

FX: Eugenics

#### **Tree locations:**

Breeding E05.820.150.760

G05.355.090.701

### **Self Expandable Metallic Stents**

Cylindrical metallic tubes that are inserted to hold open a structure in order to treat vascular, bile duct, esophageal and other tubular organ constrictions.

PI: Stents (2014-2015)

#### **Tree locations:**

Stents E07.695.750.750

### **Self-Control**

An individual's ability to manage and monitor their emotions, behaviors, and desires in the face of external demands in order to function in society.

FX: Temperance

#### **Tree locations:**

Social Behavior F01.145.813.595

### **Serine-Arginine Splicing Factors**

A family of splicing regulatory factors essential for constitutive and alternative splicing in RNA metabolism.

#### **Tree locations:**

RNA-Binding Proteins D12.776.157.725.844

D12.776.664.962.844

### **Seroconversion**

The appearance of antibodies against causative agents in the blood of individuals during the course of an infection or following immunization.

FX: Immune System Phenomena

#### **Tree locations:**

Immune System Processes G12.425.900

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Serotonin and Noradrenaline Reuptake Inhibitors

Drugs that selectively block or suppress the plasma membrane transport of SEROTONIN and NORADRENALINE into axon terminals and are used as ANTIDEPRESSIVE AGENTS.

PI: Adrenergic Uptake Inhibitors (1999-2015)

PI: Serotonin Uptake Inhibitors (1999-2015)

#### **Tree locations:**

Neurotransmitter Uptake Inhibitors D27.505.519.562.437.693  
D27.505.519.625.600.693  
D27.505.696.577.600.693

### Sevelamer

A polymeric amine that binds phosphate and is used to treat HYPERPHOSPHATEMIA in patients with kidney disease.

PI: Epoxy Compounds (2000-2015)

PI: Polyethylene (2000-2015)

#### **Tree locations:**

Polyamines D02.092.782.634

### Severe Acute Malnutrition

Acute form of MALNUTRITION which usually affects children, characterized by a very low weight for height (below -3z scores of the median World Health Organization standards), visible severe wasting, or occurrence of nutritional EDEMA. It can be a direct or indirect cause of fatality in children suffering from DIARRHEA and PNEUMONIA. Do not confuse with starvation, a condition in which the body is not getting enough food, usually for extended periods of time.

#### **Tree locations:**

Malnutrition C18.654.521.719

### Shellfish Hypersensitivity

Allergic reaction to SHELLFISH or shellfish products.

PI: Food Hypersensitivity (1964-2015)

PI: Shellfish (1964-2015)

FX: Shellfish Poisoning

#### **Tree locations:**

Food Hypersensitivity C20.543.480.370.763

### Sildenafil Citrate

A PHOSPHODIESTERASE TYPE-5 INHIBITOR; VASODILATOR AGENT and UROLOGICAL AGENT that is used in the treatment of ERECTILE DYSFUNCTION and PRIMARY PULMONARY HYPERTENSION.

FX: Tadalafil

#### **Tree locations:**

Piperazines D03.383.606.854  
Purines D03.438.759.824  
Sulfonamides D02.065.884.675  
D02.886.590.700.675

### Silent Mutation

A change to a DNA SEQUENCE that doesn't change the AMINO ACID SEQUENCE of the protein made.

PI: Mutation (1982-2015)

#### **Tree locations:**

Mutation G05.365.590.803

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Simeprevir**

Oral HCV-PROTEASE INHIBITOR effective against hepatitis C virus (HCV) serine protease NS3/4A. It is used in the treatment of chronic hepatitis C (Antivirals) genotype 1 infection in adults with compensated liver disease, including CIRRHOSIS.

#### **Tree locations:**

Heterocyclic Compounds, 3-Ring D03.494.819  
Sulfonamides D02.886.590.700.700

### **Simulation Training**

A highly customized interactive medium or program that allows individuals to learn and practice real world activities in an accurate, realistic, safe and secure environment.

#### **Tree locations:**

Teaching I02.903.847

### **Sitagliptin Phosphate**

A pyrazine-derived DIPEPTIDYL-PEPTIDASE IV INHIBITOR and HYPOGLYCEMIC AGENT that increases the levels of the INCRETIN hormones GLUCAGON-LIKE PEPTIDE-1 (GLP-1) and glucose-dependent insulinotropic polypeptide (GIP). It is used in the treatment of TYPE 2 DIABETES.

FX: Linagliptin

#### **Tree locations:**

Pyrazines D03.383.679.875  
Triazoles D03.383.129.799.725

### **Sitagliptin Phosphate, Metformin Hydrochloride Drug Combination**

A pharmaceutical preparation of sitagliptin phosphate and metformin hydrochloride that is used in the treatment of TYPE 2 DIABETES.

#### **Tree locations:**

Drug Combinations D26.310.750  
Metformin D02.078.370.141.450.500  
Sitagliptin Phosphate D03.383.129.799.725.500  
D03.383.679.875.500

### **Sleep Aids, Pharmaceutical**

Drugs used to induce SLEEP, prevent SLEEPLESSNESS, or treat SLEEP INITIATION AND MAINTENANCE DISORDERS.

PI: Sleep Wake Disorders (1999-2015)

#### **Tree locations:**

Therapeutic Uses D27.505.954.842

### **Smartphone**

A cellular phone with advanced computing and connectivity capability built on an operating system.

FX: Computers, Handheld

#### **Tree locations:**

Cell Phones L01.178.847.698.300.250  
Computers, Handheld L01.224.230.260.550.500.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Social Communication Disorder**

Persistent difficulties in the social uses of verbal and nonverbal communications. (DSM-V)

**Tree locations:**

Communication Disorders F03.625.374.250

### **Social Learning**

The concept of new knowledge acquisition through observation and interaction with others.

PI: Learning (1963-2015)

FX: Socialization

**Tree locations:**

Learning F02.784.629.529.663

### **Social Workers**

Professionals who work with persons affected by social disadvantages such as POVERTY; mental and physical illness or disability, and social injustice. Their focus is on both the individual and his or her environment, including violations of their civil liberties and human rights.

PI: Social Work (2010-2015)

**Tree locations:**

Occupational Groups M01.526.919

### **Sofosbuvir**

A uridine monophosphate analog inhibitor of HEPATITIS C VIRUS (HCV) polymerase NS5B that is used as an ANTIVIRAL AGENT in the treatment of CHRONIC HEPATITIS C.

**Tree locations:**

Uridine Monophosphate D03.383.742.686.850.877.500  
D13.695.740.850.877.500  
D13.695.827.919.877.500

### **Solifenacin Succinate**

A quinuclidine and tetrahydroisoquinoline derivative and selective M3 MUSCARINIC ANTAGONIST. It is used as a UROLOGIC AGENT in the treatment of URINARY INCONTINENCE.

**Tree locations:**

Quinuclidines D03.605.687.900  
Tetrahydroisoquinolines D03.438.531.820.594

### **South Sudan**

A nation located in East-Central Africa; south of Sudan, north of Uganda and Kenya, west of Ethiopia. Independence from SUDAN was attained on 9 July 2011. The capital is Juba. (from CIA. World Factbook, 2014.)

PI: Susan (1988-2015)

**Tree locations:**

Africa, Eastern Z01.058.290.120.745

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Spatial Regression**

Methods used to take into account and incorporate spatial autocorrelation and regional variation into regression analysis models of data that has spatial dependency, and also to provide information on the spatial relationships among the variables.

PI: Regression Analysis (1996-2015)

#### **Tree locations:**

Regression Analysis	E05.318.740.750.862
	N05.715.360.750.695.825
	N06.850.520.830.750.862
Spatial Analysis	E05.318.740.933.375
	N05.715.360.750.746.375
	N06.850.520.830.933.375

### **Specific Learning Disorder**

Diagnosed when there are specific deficits in an individual's ability to perceive or process information efficiently and accurately. This disorder first manifests during the years of formal schooling and is characterized by persistent and impairing difficulties with learning foundational academic skills in reading, writing, and/or math. The individual's performance of the affected academic skills is well below average for age, or acceptable performance levels are achieved only with extraordinary effort. Specific learning disorder may occur in individuals identified as intellectually gifted and manifest only when the learning demands or assessment procedures (e.g., timed tests) pose barriers that cannot be overcome by their innate intelligence and compensatory strategies. For all individuals, specific learning disorder can produce lifelong impairments in activities dependent on the skills, including occupational performance. (from DSM-V)

#### **Tree locations:**

Learning Disorders F03.625.562.700

### **Speech Sound Disorder**

Persistent difficulty with speech sound production such that it interferes with verbal communication.

#### **Tree locations:**

Communication Disorders F03.625.374.500

### **Spirit Possession**

The idea that abnormal behavior or a medical condition is evidence that a person is under the control of a supernatural power or spirit. This belief was most commonly held in religion and medicine of the medieval period and is also held in many tribal cultures today.

FX: Superstitions

FX: Parapsychology

#### **Tree locations:**

Religion and Medicine K01.844.619.500

### **Superficial Musculoaponeurotic System**

Layer between the superficial fat compartment and superficial facial muscles in the head and the neck.

PI: Neck (1976-2015)

PI: Face (1976-2015)

FX: Rhytidoplasty

#### **Tree locations:**

Face A01.456.505.875

Neck A01.598.500



## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Supervised Machine Learning**

A MACHINE LEARNING paradigm used to make predictions about future instances based on a given set of labeled paired input-output training (sample) data.

FX: Unsupervised Machine Learning

**Tree locations:**

Machine Learning G17.035.250.500.500  
L01.224.050.375.530.500

### **Surgical Clearance**

Process of evaluating the health of a patient and determining if they are healthy enough for surgery.

FX: Physical Examination

**Tree locations:**

Diagnostic Techniques and Procedures E01.370.505

### **Symptom Flare Up**

A transient exacerbation of symptoms of an existing disease or condition.

PI: Recurrence (1972-2015)

PI: Incidence (1990-2015)

**Tree locations:**

Recurrence C23.550.291.937.500

### **Tadalafil**

A carboline derivative and PHOSPHODIESTERASE 5 INHIBITOR that is used primarily to treat ERECTILE DYSFUNCTION; BENIGN PROSTATIC HYPERPLASIA and PRIMARY PULMONARY HYPERTENSION.

FX: Sildenafil Citrate

**Tree locations:**

Carbolines D03.383.725.150.500  
D03.438.473.155.500  
D03.494.154.672

### **Teas, Herbal**

Beverages prepared from an infusion of plant tissues.

**Tree locations:**

Beverages G07.203.100.950  
J02.200.950  
Plant Preparations D20.215.784.937

### **Teas, Medicinal**

Beverages used in TRADITIONAL MEDICINE that are prepared from the infusion of plant tissue (HERBAL TEA), and/or animal tissue or other organisms such as FUNGI.

**Tree locations:**

Beverages G07.203.100.975  
J02.200.975

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Telerehabilitation**

Delivery of therapeutic rehabilitation at a distance or offsite using telecommunication technologies.

PI: Telemedicine (1996-2015)

#### **Tree locations:**

Rehabilitation E02.831.891  
H02.403.680.600.937  
N02.421.784.840  
Telemedicine H02.403.840.850  
L01.178.847.652.850  
N04.590.374.800.850

### **Telocytes**

A type of interstitial cells that have very long and thin CELL SURFACE EXTENSIONS called TELOPODES.

FX: Interstitial Cells of Cajal

#### **Tree locations:**

Stromal Cells A11.329.830.750

### **Telopodes**

The very long and thin extensions of telocytes' cell surface, that have alternating thick and thin sections called podoms and podomers.

#### **Tree locations:**

Cell Surface Extensions A11.284.180.900  
Telocytes A11.329.830.750.500

### **Tenofovir**

An adenine analog REVERSE TRANSCRIPTASE INHIBITOR with antiviral activity against HIV-1 and HEPATITIS B. It is used to treat HIV INFECTIONS and CHRONIC HEPATITIS B, in combination with other ANTIVIRAL AGENTS, due to the emergence of ANTIVIRAL DRUG RESISTANCE when it is used alone.

#### **Tree locations:**

Adenine D03.438.759.138.881  
Organophosphonates D02.705.429.906

### **Theranostic Nanomedicine**

An integrated nano-scale approach to MEDICINE which involves concurrent diagnosis, drug delivery, therapy, and monitoring of therapeutic response.

PI: Nanomedicine (2013-2015)

#### **Tree locations:**

Diagnosis E01.894  
Medicine H02.403.845  
Nanomedicine H01.603.600.500  
J01.897.520.600.600.500  
Therapeutics E02.921

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Thoracentesis

Aspiration of fluid or air from the THORACIC CAVITY. It is coupled sometimes with the administration of drugs into the PLEURAL CAVITY.

PI: Paracentesis (1966-2015)

FX: Pneumothorax

FX: Pleural Effusion

#### **Tree locations:**

Paracentesis E01.370.225.998.329.810

E02.800.550.810

E04.665.600.810

E05.200.998.329.810

### Time Out, Healthcare

A period of time away from normal workflow taken to ensure key procedural details have been reviewed for better PATIENT SAFETY and help prevent MEDICAL ERRORS.

#### **Tree locations:**

Quality Assurance, Health Care N04.761.700.635

N05.700.739

### Tiotropium Bromide

A scopolamine derivative and CHOLINERGIC ANTAGONIST that functions as a BRONCHODILATOR AGENT. It is used in the treatment of CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

#### **Tree locations:**

Scopolamine Derivatives D02.145.074.722.822.887

D03.132.889.601.887

D03.605.869.822.887

D04.075.080.875.099.722.822.887

### Tolterodine Tartrate

An ANTIMUSCARINIC AGENT selective for the MUSCARINIC RECEPTORS of the BLADDER that is used in the treatment of URINARY INCONTINENCE and URINARY URGE INCONTINENCE.

#### **Tree locations:**

Benzhydryl Compounds D02.455.426.559.389.115.900

Cresols D02.455.426.559.389.657.239.756

Phenylpropanolamine D02.033.100.624.706.750

D02.033.755.624.706.750

D02.092.063.624.706.800

### Toxicological Phenomena

The nature and effects of chemical, physical or biological poisons on living organisms.

AN: general or unspecified; prefer specifics

PI: Pharmacological Phenomena (1998-2015)

#### **Tree locations:**

Pharmacological and Toxicological Phenomena and Processes G07.690.936

### Trachelectomy

Surgical removal or resection of the CERVIX UTERI.

PI: Hysterectomy (1988-2015)

#### **Tree locations:**

Hysterectomy E04.950.300.399.690

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Transanal Endoscopic Microsurgery

A specialized form of transanal endoscopic surgery for microscopically controlled operations in the RECTUM.

PI: microsurgery (1985-2015)

#### Tree locations:

Microsurgery E04.494.787  
Transanal Endoscopic Surgery E01.370.388.250.630.500.500  
E04.210.240.250.680.500.500  
E04.502.250.250.250.680.500.500  
E04.502.250.630.500.500

### Transanal Endoscopic Surgery

Surgical procedures performed through the anus using a PROCTOSCOPE.

#### Tree locations:

Natural Orifice Endoscopic Surgery E01.370.388.250.630.500  
E04.502.250.630.500  
Proctoscopy E04.210.240.250.680.500  
E04.502.250.250.250.680.500

### Transitional Care

Health care provided during a transition to a different mode of care (e.g., TRANSITION TO ADULT CARE).

PI: Continuity of Patient Care (1987-2015)

#### Tree locations:

Continuity of Patient Care E02.204.812  
N02.421.192.812  
N04.590.233.727.210.812  
Patient Care E02.760.940  
N02.421.585.940

### Trastuzumab

A humanized monoclonal antibody against the ERBB-2 RECEPTOR (HER2). As an ANTINEOPLASTIC AGENT, it is used to treat BREAST CANCER where HER2 is overexpressed.

#### Tree locations:

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.875  
D12.776.124.790.651.114.224.060.875  
D12.776.377.715.548.114.224.200.875

### Trauma and Stressor Related Disorders

Disorders in which exposure to a traumatic or stressful event is explicitly a diagnostic criterion.

#### Tree locations:

Mental Disorders F03.950

### Travoprost

A cloprostenol derivative that is used as an ANTIHYPERTENSIVE AGENT in the treatment of OPEN-ANGLE GLAUCOMA and OCULAR HYPERTENSION.

#### Tree locations:

Cloprostenol D10.251.355.255.550.775.500.175.500  
D23.469.050.175.725.775.500.175.500  
D23.469.700.670.175.500

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Triticale**

A CEREAL GRAIN plant resulting from a cross between TRITICUM and SECALE CEREALE.

PI: Poaceae (1970-2015)

PI: Cereals (1970-2015)

#### **Tree locations:**

Poaceae B01.650.940.800.575.100.822.906

### **Twin-Arginine-Translocation System**

Protein translocase in BACTERIA or CHLOROPLASTS that exports or secretes folded proteins. In GRAM-NEGATIVE BACTERIA, twin-arginine translocase (TAT) is involved in the export of folded proteins to the PERIPLASM. In chloroplasts, TAT is involved in transporting folded proteins across the membranes of THYLAKOIDS.

#### **Tree locations:**

Protein Translocation Systems D05.500.890.750

### **Tympanocentesis**

Needle aspiration of fluid from the MIDDLE EAR through a puncture in the TYMPANIC MEMBRANE.

PI: Paracentesis (1997-2015)

PI: Drainage (1973-2015)

FX: Middle Ear Ventilation

FX: Otitis Media

#### **Tree locations:**

Paracentesis E01.370.225.998.329.905

E02.800.550.905

E04.665.600.905

E05.200.998.329.905

### **Type I Secretion Systems**

Gram-negative bacterial secretion systems which translocate effectors in a single step across the inner and outer membranes. The one-step secretion is carried out by a channel that passes from the CYTOPLASM, through the inner membrane, PERIPLASMIC SPACE, and outer membrane, to the EXTRACELLULAR SPACE. The specificity of type I secretions systems are determined by the specificity of the three subcomponents forming the channel - an ATP transporter (ATP-BINDING CASSETTE TRANSPORTERS); a membrane fusion protein (MEMBRANE FUSION PROTEINS); and an outer membrane protein (BACTERIAL OUTER MEMBRANE PROTEINS.)

PI: Bacterial Secretion Systems (2010-2015)

#### **Tree locations:**

Bacterial Secretion Systems D05.500.890.500.500

### **Type II Secretion Systems**

Gram-negative bacterial secretion systems which carry out the secretion of folded proteins. T2SSs secrete folded proteins from the PERIPLASMIC SPACE that have been exported there by SEC TRANSLOCASE or TAT SECRETION SYSTEMS, or they secrete folded proteins directly from the CYTOPLASM. The T2SSs have four substructures, an ATPase, an inner membrane platform, a pseudopilin, and secretin, an outer membrane complex which is a channel for secretion. (This bacterial secretin is not the same as the mammalian hormone also named SECRETIN.)

PI: Bacterial Secretion Systems (2010-2015)

#### **Tree locations:**

Bacterial Secretion Systems D05.500.890.500.750

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Type III Secretion Systems**

Multiprotein transmembrane complexes in GRAM-NEGATIVE BACTERIA involved in either the secretion of effector proteins from the bacterial cytoplasm into host cells, or the secretion and assembly of flagellar components. The major component of the T3SSs is called the injectosome or needle complex.

PI: Bacterial Secretion Systems (2010-2015)

#### **Tree locations:**

Bacterial Secretion Systems D05.500.890.500.875

### **Type IV Secretion Systems**

Multiprotein complexes that transport single proteins, multiprotein complexes, and nucleoprotein complexes from the CYTOPLASM into the EXTRACELLULAR SPACE or into recipient cells. T4SSs are found in GRAM-NEGATIVE BACTERIA, while homologous components to T4SSs are found in GRAM-POSITIVE BACTERIA.

PI: Bacterial Secretion Systems (2010-2015)

#### **Tree locations:**

Bacterial Secretion Systems D05.500.890.500.937

### **Type V Secretion Systems**

Secretion systems of GRAM-NEGATIVE BACTERIA (single membrane proteins or multiprotein complexes) that carry out secretion of proteins from the PERIPLASMIC SPACE to the EXTRACELLULAR SPACE via a beta-barrel transmembrane pore. There are several T5SS subtypes: T5aSS monomeric autotransporters, T5bSS two-partner secretions systems (TPSS), T5cSS trimeric autotransporters, T5dSS fused two-partner secretion systems, and T5eSS autotransporters with inverted domains.

PI: Bacterial Secretion Systems (2010-2015)

#### **Tree locations:**

Bacterial Secretion Systems D05.500.890.500.968

### **Type VI Secretion Systems**

Multiprotein complexes in GRAM NEGATIVE BACTERIA that deliver effector proteins into eukaryotic or prokaryotic cells by a mechanism similar to the contractile tail of bacteriophages. They are composed of a cell envelope-spanning tube which is surrounded by a contractile sheath and tipped by a cell puncturing complex; a base plate structure that anchors the assembly to the cell envelope; and an ATPase involved in the sheath contraction and disassembly of the complex.

PI: Bacterial Secretion Systems (2010-2015)

#### **Tree locations:**

Bacterial Secretion Systems D05.500.890.500.984

### **Type VII Secretion Systems**

Bacterial secretion systems found in bacteria that have a MYCOLIC ACID-containing outer membrane such as MYCOBACTERIACEAE; Corynebacteriaceae; and NOCARDIACEAE. These are also known as ESX secretion systems because the first to be discovered is involved in secreting major virulence factors EsxA and EsxB. There are several subtypes of T7SSs including ESX-1, ESX-2, ESX-3, ESX-4, and ESX-5 secretion systems. The subtypes share some core components including an inner membrane channel-forming ATPase complex, a membrane-anchored mycosin, and a second channel that spans the outer mycolic acid-containing membrane.

PI: Bacterial Secretion Systems (2010-2015)

#### **Tree locations:**

Bacterial Secretion Systems D05.500.890.500.992

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Ultrasonic Waves

Oscillating sound wave with a frequency higher than the upper limit of the human hearing range.

PI: Ultrasonics (1966-2015)

PI: Sound (1969-2015)

PI: Ultrasonography (1963-2015)

PI: Ultrasonic Therapy (1969-2015)

FX: Ultrasonics

#### **Tree locations:**

Sound G01.750.770.776.891

### Underage Drinking

Consumption of ALCOHOLIC BEVERAGES by persons under the legal drinking age.

FX: Alcohol Drinking in College

#### **Tree locations:**

Adolescent Behavior F01.145.022.750

Alcohol Drinking F01.145.317.269.875

Social Problems I01.880.735.878

### Undocumented Immigrants

Foreign nationals residing in a country without legal immigration status, or in violation of the immigration laws of that country.

PI: Emigration and Immigration (1981-2015)

PI: Transients and Migrants (1981-2015)

#### **Tree locations:**

Emigrants and Immigrants M01.189.500

### Unilateral Breast Neoplasms

Tumors or cancer found specifically in one human BREAST, but not in both.

AN: human only; coordinate IM with histological type of neoplasm (IM)

PI: Breast Neoplasms (1977-2015)

#### **Tree locations:**

Breast Neoplasms C04.588.180.682

C17.800.090.500.682

### Unsupervised Machine Learning

A MACHINE LEARNING paradigm used to make predictions about future instances based on a given set of unlabeled paired input-output training (sample) data.

FX: Supervised Machine Learning

#### **Tree locations:**

Machine Learning G17.035.250.500.750

L01.224.050.375.530.750

### Ustekinumab

A humanized monoclonal antibody that binds to IL-12 and IL-23 and is used as a DERMATOLOGIC AGENT in the treatment of patients with plaque PSORIASIS who have not responded to other therapies.

#### **Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.937

D12.776.124.790.651.114.224.060.937

D12.776.377.715.548.114.224.200.937

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Valsartan**

A tetrazole derivative and ANGIOTENSIN II TYPE 1 RECEPTOR BLOCKER that is used to treat HYPERTENSION.

FX: Losartan

#### **Tree locations:**

Tetrazoles D03.383.129.617.850  
Valine D12.125.070.950.550  
D12.125.142.930.500

### **Vardenafil Dihydrochloride**

A piperazine derivative, PHOSPHODIESTERASE 5 INHIBITOR and VASODILATOR AGENT that is used as a UROLOGICAL AGENT in the treatment of ERECTILE DYSFUNCTION.

#### **Tree locations:**

Imidazoles D03.383.129.308.980  
Piperazines D03.383.606.960

### **Varenicline**

A benzazepine derivative that functions as an ALPHA4/BETA2 NICOTINIC RECEPTOR partial agonist. It is used for SMOKING CESSATION.

FX: Tobacco Use Cessation Products

#### **Tree locations:**

Benzazepines D03.438.079.900  
Quinoxalines D03.438.857.942

### **Vegans**

Persons who avoid consuming animal products or animal-derived substances, such as MEAT; EGGS; or HONEY. Some vegans also refrain from using animals or animal products in any form or for any purpose, such as in CLOTHING or household goods.

PI: Diet, Vegetarian (1967-2015)

FX: Diet, Vegan

#### **Tree locations:**

Vegetarians M01.928.500

### **Vegetable Products**

Food that is manufactured from various parts of vegetables.

PI: Vegetables (1966-2015)

#### **Tree locations:**

Vegetables G07.203.300.850.450  
J02.500.850.800

### **Vegetarians**

Persons who do not eat MEAT.

PI: Diet, Vegetarian (1963-2015)

FX: Diet, Vegetarian

#### **Tree locations:**

Persons M01.928



## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### **Venlafaxine Hydrochloride**

A cyclohexanol and phenylethylamine derivative that functions as a SEROTONIN AND NORADRENALINE REUPTAKE INHIBITOR (SNRI) and is used as an ANTIDEPRESSIVE AGENT.

#### **Tree locations:**

Cyclohexanols D02.033.415.510.500.901  
D02.455.426.392.368.367.318.750  
D10.289.510.500.901  
Phenethylamines D02.092.471.683.948

### **Vilazodone Hydrochloride**

A benzofuran, indole, and piperazine derivative that functions as a SEROTONIN UPTAKE INHIBITOR and partial SEROTONIN 5-HT1 RECEPTOR AGONIST. It is used as an ANTIDEPRESSIVE AGENT.

#### **Tree locations:**

Benzofurans D03.438.127.818  
Indoles D03.438.473.957  
Piperazines D03.383.606.980

### **War Exposure**

The health and other ramifications of military and civilian exposure to WAR .

PI: Warfare (1996-2015)

FX: Veterans Health

#### **Tree locations:**

Occupational Exposure N06.850.460.350.600.903  
Warfare I01.880.735.950.500.951

### **War-Related Injuries**

WOUNDS and INJURIES and PSYCHOLOGICAL TRAUMA sustained during WAR.

FX: Stress Disorders, Post-Traumatic

#### **Tree locations:**

War Exposure I01.880.735.950.500.951.500  
N06.850.460.350.600.903.500  
Wounds and Injuries C26.946

### **Warfare and Armed Conflicts**

Engaging in any type of conflict including war or military conflict against another nation or organized group..

AN: used for searching; INDEXER: Do not use; CATALOGER: Do not use

#### **Tree locations:**

Social Problems I01.880.735.950

### **Waterborne Diseases**

Illnesses due to micro-organisms and chemicals in drinking water, those caused by organisms having part of their lifecycle in water or those with water-related vectors, and others spread by aerosols containing pathogens.

#### **Tree locations:**

Communicable Diseases C01.539.221.750

## New MeSH Headings for 2016

*Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations*

### Whey

The liquid components of milk that remain after the CASEIN, fat, and fat soluble components have been removed. It is also a byproduct of cheese production.

PI: Dairy Products (1964-2015)

#### **Tree locations:**

Milk G07.203.100.700.750  
G07.203.300.350.525.760  
J02.200.700.750  
J02.500.350.525.760

### Whey Proteins

The protein components of milk obtained from the whey.

#### **Tree locations:**

Milk Proteins D12.776.256.626.816  
G07.203.300.350.525.520.500  
G07.203.300.428.626.500  
J02.500.350.525.520.500  
J02.500.428.626.500  
Whey G07.203.300.350.525.760.500  
J02.500.350.525.760.500

### Whole Grains

Edible seeds which contain all components of the seed - germ, bran, and ENDOSPERM.

PI: Cereals (1973-2015)

#### **Tree locations:**

Edible Grain G07.203.300.300.550.500  
G07.203.300.775.500.500  
J02.500.300.550.500  
J02.500.775.500.500

### Work Performance

Measure of how well someone performs given tasks at their place of work.

PI: Employee Performance Appraisal (1963-2015)

FX: Workplace

#### **Tree locations:**

Work I03.946.675

### Working Poor

People who are in the labor force either working or looking for work for 27 weeks or more in a year, but whose income fall below a given poverty line.

PI: Poverty (1975-2015)

FX: Poverty

FX: Poverty Areas

#### **Tree locations:**

Persons M01.987

### Youth Sports

SPORTS activities designed and/or organized for CHILDREN or YOUTH.

#### **Tree locations:**

Sports I03.450.642.845.987