

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in *Artemisia annua*

Activity	Chemical Count
(-)-Chronotropic	3
(-)-Inotropic	3
11B-HSD-Inhibitor	3
5-Lipoxygenase-Inhibitor	2
Abortifacient	1
Acaricide	7
ACE-Inhibitor	6
AChE-Inhibitor	1
Aedifuge	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	20
Allelochemic	7
Allelopathic	5
Allergenic	14
Analgesic	15
Ancylostomicide	2
Androgenic	2
Anesthetic	8
Angiogenic	1
Ankylostomacide	1
Anorexic	1
Anthelmintic	6
Antiacetylcholine	1
Antiacetylcholinesterase	9
Antiacne	6
AntiADD	1
Antiadenomic	2

Activity	Chemical Count
Antiadrenergic	1
Antiaflatoxin	5
Antiaggregant	7
Antiaging	2
Antiallergic	9
Antialzheimeran	1
Antialzheimeran?	3
Antianaphylactic	2
Antiandrogenic	2
Antiangiogenic	3
Antiarrhythmic	3
Antiarthritic	3
Antiasthmatic	5
Antiatherogenic	2
Antiatherosclerotic	4
Antibacillary	1
Antibacillus	1
Antibacterial	31
Antibronchitic	4
Antibronchoconstrictor	1
Antibrucellosic	1
Antiburn	1
Anticancer	5
Anticancer (Breast)	1
Anticancer (Cervix)	2
Anticancer (Kidney)	1
Anticancer (Lung)	2

Activity	Chemical Count
Anticancer (Pancreas)	1
Anticancer (Prostate)	1
Anticarcinogenic	1
Anticarcinomic	3
Anticarcinomic (Breast)	1
Anticariogenic	8
Anticataract	2
Anticatarrh	1
Anticholinergic	2
Anticholinesterase	2
Anticholinesterase?	1
Anticolic	1
Anticolitic	1
Anticomplement	1
Anticomplementary	5
Anticonvulsant	3
AntiCrohn's	1
Anticystitic	1
Antidandruff	1
Antidepressant	1
Antidermatic	1
Antidermatitic	2
Antidiabetic	1
Antidiarrheic	1
Antidiuretic	2
Antidysenteric	1
Antiedemic	10

Activity	Chemical Count
Antielastase	2
Antiemetic	1
Antiencephalitic	1
Antiescherichic	3
Antiesherichic	1
Antiesophagitic	1
Antiestrogenic	4
Antifatigue	1
Antifeedant	12
Antifertility	3
Antifibrosarcomic	1
Antifibrositic	1
Antiflatulent	1
Antiflu	5
Antigastric	1
Antigingivitic	3
Antigliomic	1
Antiglutamaergic	1
Antigonadotrophic	1
Antigonadotropic	1
AntiGTF	1
Antihalitotic	3
Antihelicobacter	1
Antihepatotoxic	5
Antiherpetic	6
Antihistaminic	7
AntiHIV	5

Activity	Chemical Count
Antihydrophobic	1
Antihyperlipidemic	1
Antihyperlipoproteinaemic	1
Antihypertensive	1
Antihyperthyroid	1
Antiimplantation	2
Antiinflammatory	33
Antiischemic	2
Antilaryngitic	1
Antileishmanic	1
Antileptic	1
Antileukemic	8
Antileukotriene	3
Antileukotrienogenic	1
Antilipoperoxidant	1
Antilisteria	1
Antilithic	1
Antilithic?	1
Antilymphedemic	1
Antilymphocytic	1
Antilymphomic	4
Antimalarial	15
Antimange	1
Antimelanomic	7
Antimetastatic	3
Antimetastatic (Stomach)	1
Antimite	2

Activity	Chemical Count
Antimitotic	1
Antimononucleotic	1
Antimutagenic	12
Antimycoplasmotic	1
Antimyocarditic	1
Antinephritic	1
Antineuralgic	2
Antineuritic	1
Antinitrosaminic	3
Antinociceptive	9
Antiobesity	1
Antiodontalgic	1
Antiophidic	2
Antiotitic	1
Antioxidant	20
Antioxidant (LDL)	2
Antipancreatic	1
Antiparkinsonian	1
Antipeptic	1
Antiperiodontal	1
Antiperiodontic	4
Antiperistaltic	2
Antipermeability	1
Antiperoxidant	2
AntiPGE2	1
Antipharyngitic	2
Antiplaque	7

Activity	Chemical Count
Antiplasmodial	9
AntiPMS	1
Antipneumonic	1
Antipodriac	1
Antipolio	3
Antiprogestational	1
Antiproliferant	7
Antiproliferative	1
Antiprostaglandin	3
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	2
Antipruritic	2
Antipsittacotic	1
Antipsoriac	2
Antipyretic	4
Antiradicular	7
Antiretinopathic	1
Antirheumatalgic	1
Antirheumatic	3
Antirhinitic	1
Antirhinoviral	4
Antisalmonella	4
Antisarcomic	1
Antiseptic	20
Antiserotonin	1
Antishock	1

Activity	Chemical Count
Antisinusitic	2
Antispasmodic	25
Antistaphylococcic	7
Antistreptococcic	5
Antistress	1
Antitartar	1
AntiTGF-beta	1
Antithiamin	1
Antithrombic	1
Antithyroid	1
AntiTNF	1
Antitoxoplasmotic	1
Antitrichinosic	1
Antitrypanosomic	1
Antitubercular	1
Antituberculic	1
Antitumor	19
Antitumor (Bladder)	1
Antitumor (brain)	1
Antitumor (Breast)	5
Antitumor (Cervix)	2
Antitumor (Colon)	4
Antitumor (GI)	1
Antitumor (Kidney)	3
Antitumor (Lung)	5
Antitumor (Ovary)	2
Antitumor (Pancreas)	4

Activity	Chemical Count
Antitumor (Prostate)	2
Antitumor (Skin)	3
Antitumor (Stomach)	2
Antitumor (Thyroid)	1
Antitumor-Promoter	4
Antitussive	5
Antiulcer	9
Antivaginitic	1
Antiviral	23
Antivulvitic	1
Antiyeast	1
Anxiolytic	1
Aphidifuge	1
Apoptotic	8
Aromatase-Inhibitor	4
Artemicide	2
Ascaricide	1
Ataxigenic	1
ATPase-Inhibitor	1
Bacteriostatic	1
Bacteristat	3
Barbituate-Synergist	1
Beta-Blocker	1
Beta-Glucuronidase-Inhibitor	3
Bradycardiac	1
Bradycardic	1
Bronchomucolytic	1

Activity	Chemical Count
Bronchomucotropic	1
Bronchoprotectant	1
Bronchorelaxant	3
Bronchorrheic	1
Bruchiphobe	1
Calcium-Antagonist	4
Calcium-Antagonist?	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	2
Cancer-Preventive	23
Candidicide	11
Candidistat	4
Capillarigenic	1
Capillariprotective	1
Carcinogenic	5
Cardiac	1
Cardiodepressant	1
Cardioprotective	1
Cardiotonic	2
Carminative	7
Caspase-8-Inducer	1
Catabolic	1
Chemopreventive	4
Cholagogue	3
Choleretic	9
Cholesterolytic	1
Cicatrizant	2

Activity	Chemical Count
Ciliotoxic	1
CNS-Depressant	6
CNS-Stimulant	7
CNS-Toxic	1
Coleopterifuge	1
Coleoptophile	1
COMT-Inhibitor	1
Congestant	1
Convulsant	4
Copper-Chelator	2
Cosmetic	2
Counterirritant	4
COX-1-Inhibitor	2
COX-2-Inhibitor	5
Culicide	2
Cyclooxygenase-Inhibitor	6
Cytochrome-P450-1A1-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-Inducer	2
Cytotoxic	12
Decongestant	2
Decongestant?	1
Degranulant	1
Deiodinase-Inhibitor	3
Deliriant	1
Dentifrice	2
Deodorant	1

Activity	Chemical Count
Dermatitigenic	2
Detoxicant	1
Diaphoretic	2
Diaphoretic?	2
Differentiator	3
Diuretic	7
DME-Inhibitor	1
DNA-Protective	1
Dye	1
Ecbolic	1
Edemagenic	1
Elastase-Inhibitor	1
Embryotoxic	1
Emetic	4
Emmenagogue	1
Enterocontractant	1
Enterorelaxant	3
Enterotoxic	1
Epileptigenic	2
Estrogenic	7
Expectorant	12
Febrifuge	1
FLavor	20
Fungicide	19
Fungiphilic	1
Fungistat	3
GABA-nergic	1

Activity	Chemical Count
Gastroirritant	1
Gastroprotective	3
Gastrosedative	1
Glucosyl-Transferase-Inhibitor	1
Gonadotrophic	1
Gram(+)icide	2
Gram(-)icide	2
GST-Inducer	1
Hemorrhagic	1
Hemostat	1
Hepatomagenic	1
Hepatoprotective	12
Hepatotonic	1
Hepatotoxic	1
Herbicide	12
HIF-1alpha-Inhibitor	1
Histaminic	1
HIV-RT-Inhibitor	2
Hyaluronidase-Inhibitor	2
Hypnotic	2
Hypocholesterolemic	5
Hypocholesterolemic?	1
Hypoglycemic	4
Hypolipemic	1
Hypolipidemic	2
Hypotensive	8
Hypothermic	2

Activity	Chemical Count
ICAM-1-Inhibitor	3
IKK-Inhibitor	2
Immunomodulator	3
Immunostimulant	3
Immunosuppressant	1
Inflammatory	1
Inhalant	1
iNOS-Inhibitor	4
Inotropic	3
Insect-Repellent	2
Insecticide	10
Insectifuge	21
Insectiphile	4
Insulinogenic	1
Interleukin-6-Inhibitor	3
Iodothyronine-Deiodinase-Inhibitor	2
Irritant	15
JNK-Inhibitor	1
Juvabional	2
Larvicide	4
Larvostat	2
Laxative	1
Leucocytogenic	1
Lipolytic	1
Lipoxygenase-Inhibitor	4
Lymphocytogenic	1
Lymphokinetic	1

Activity	Chemical Count
MAO-A-Inhibitor	1
MAO-Inhibitor	4
MAPK-Inhibitor	2
Mast-Cell-Stabilizer	1
MDR-Inhibitor	1
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	2
MMP-9-Inhibitor	2
Molluscicide	1
Mosquitocide	1
Mosquitofuge	2
Motor-Depressant	4
Motor-Stimulant	1
Musculotropic	3
Mutagenic	4
Mycobactericide	1
Myorelaxant	11
NADH-Oxidase-Inhibitor	2
Narcotic	1
Natriuretic	1
Nematicide	13
NEP-Inhibitor	2
Neurodepressant	1
Neuropathogenic	1
Neuroprotective	2
Neurotoxic	3
NF-kB-Inhibitor	4

Activity	Chemical Count
NO-Genic	1
NO-Inhibitor	3
NO-Synthase-Inhibitor	2
Nociceptive	1
Nodulation-Signal	1
Occuloirritant	1
Ornithine-Decarboxylase-Inhibitor	3
Ovicide	1
Ovulant	1
Ozone-Scavenger	1
P21-Inducer	1
P450-2B1-Inhibitor	4
P450-Inducer	4
P450-Inhibitor	1
PAF-Inhibitor	1
Parasiticide	6
Pediculicide	1
Perfume	1
Perfumery	24
Peristaltic	1
Pesticide	58
PGE2-Inhibitor	1
Phagocytotic	2
Pheromone	1
Phospholipase-Inhibitor	1
Photosensitizer	1
Phytoalexin	1

Activity	Chemical Count
Phytohormonal	1
Piscicide	2
PKC-Inhibitor	1
Plasmodicide	9
Polyamine-Synthesis-Inhibitor	1
Progestational	1
Proliferant	2
Prooxidant	1
Prostaglandin-Inhibitor	1
Prostaglandin-Synthesis-Inhibitor	2
Prostaglandin-Synthetase-Inhibitor	1
Protein-Kinase-C-Inhibitor	3
Protisticide	5
PTK-Inhibitor	3
Quinone-Reductase-Inducer	5
Radioprotective	1
Refrigerant	1
Renoirritant	1
Respirainhibitor	1
Respirastimulant	1
Respirodepressant	1
Rodenticide	1
Rubefacient	3
Schizonticide	1
Secretagogue	1
Sedative	18
Spasmogenic	5

Activity	Chemical Count
Spermicide	2
Sprout-Inhibitor	1
Stimulant	2
Succinoxidase-Inhibitor	1
Sunscreen	1
Surfactant	1
Teratogenic	1
Teratologic	2
Termiticide	2
Termitifuge	1
Testosterone-Hydroxylase-Inducer	1
Testosterone-Inducer	1
TNF-alpha-Inhibitor	5
Topoisomerase-I-Inhibitor	4
Topoisomerase-II-Inhibitor	4
Toxic	1
Tracheorelaxant	2
Tranquilizer	3
Transdermal	8
Trichomonicide	7
Trichomonistat	1
Trypanocide	1
Trypsin-Enhancer	1
Tumor-Promoter	1
Tumorigenic	1
Tyrosinase-Inhibitor	3
Tyrosine-Kinase-Inhibitor	1

Activity	Chemical Count
Ubiquiot	1
Ulcerogenic	2
Urinary-Antiseptic	1
Uterosedative	1
Uterotonic	1
Uterotrophic	2
Varroacide	1
Vasodilator	6
Vasopressor	1
VEGF-Inhibitor	3
Vermicide	2
Vermifuge	2
Verrucolytic	1
Vibriocide	2
Vulnerary	3
Xanthine-Oxidase-Inhibitor	3