

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

Activity	Chemical Count
Pesticide	58
Antiinflammatory	33
Antibacterial	31
Antispasmodic	25
Perfumery	24
Antiviral	23
Cancer-Preventive	23
Insectifuge	21
Antiseptic	20
Antioxidant	20
FLavor	20
Aldose-Reductase-Inhibitor	20
Fungicide	19
Antitumor	19
Sedative	18
Irritant	15
Analgesic	15
Antimalarial	15
Allergenic	14
Nematicide	13
Hepatoprotective	12
Antimutagenic	12
Expectorant	12
Antifeedant	12
Cytotoxic	12
Herbicide	12
Myorelaxant	11

Activity	Chemical Count
Candidicide	11
Antiedemic	10
Insecticide	10
Antiplasmodial	9
Antiallergic	9
Antinociceptive	9
Antiacetylcholinesterase	9
Choleretic	9
Plasmodicide	9
Antiulcer	9
Anesthetic	8
Apoptotic	8
Hypotensive	8
Antileukemic	8
Transdermal	8
Anticariogenic	8
Antiaggregant	7
Trichomonicide	7
Allelochemic	7
Antistaphylococcic	7
Diuretic	7
CNS-Stimulant	7
Carminative	7
Antiplateque	7
Antimelanomic	7
Antiradicular	7
Antiproliferant	7

Activity	Chemical Count
Estrogenic	7
Antihistaminic	7
Acaricide	7
Vasodilator	6
Antiacne	6
Antiherpetic	6
Anthelmintic	6
Cyclooxygenase-Inhibitor	6
ACE-Inhibitor	6
Parasiticide	6
CNS-Depressant	6
Anticancer	5
Protisticide	5
TNF-alpha-Inhibitor	5
Allelopathic	5
Antistreptococcic	5
Antiasthmatic	5
Quinone-Reductase-Inducer	5
COX-2-Inhibitor	5
Anticomplementary	5
Antitussive	5
Spasmogenic	5
AntiHIV	5
Hypocholesterolemic	5
Antitumor (Lung)	5
Antiaflatoxin	5
Antitumor (Breast)	5

Activity	Chemical Count
Carcinogenic	5
Antihepatotoxic	5
Antiflu	5
Counterirritant	4
NF-kB-Inhibitor	4
Antiperiodontic	4
Antipyretic	4
Motor-Depressant	4
Topoisomerase-II-Inhibitor	4
P450-2B1-Inhibitor	4
Antiatherosclerotic	4
MAO-Inhibitor	4
Convulsant	4
Emetic	4
Antisalmonella	4
Calcium-Antagonist	4
Chemopreventive	4
Antiestrogenic	4
Antibronchitic	4
Topoisomerase-I-Inhibitor	4
Aromatase-Inhibitor	4
Hypoglycemic	4
Antitumor-Promoter	4
Antirhinoviral	4
Antitumor (Pancreas)	4
Antitumor (Colon)	4
Insectiphile	4

Activity	Chemical Count
iNOS-Inhibitor	4
Candidostat	4
Lipoxygenase-Inhibitor	4
Antilymphomic	4
Larvicide	4
P450-Inducer	4
Mutagenic	4
Tranquilizer	3
Cholagogue	3
Antiprostaglandin	3
Enterorelaxant	3
11B-HSD-Inhibitor	3
Antileukotriene	3
Gastroprotective	3
Deiodinase-Inhibitor	3
Bacteristat	3
Ornithine-Decarboxylase-Inhibitor	3
Vulnerary	3
NO-Inhibitor	3
Antimetastatic	3
VEGF-Inhibitor	3
Antiangiogenic	3
Antifertility	3
Inotropic	3
Musculotropic	3
Immunostimulant	3
Protein-Kinase-C-Inhibitor	3

Activity	Chemical Count
Fungistat	3
Antihalitotic	3
Antiarthritic	3
Neurotoxic	3
(-)-Inotropic	3
Antialzheimeran?	3
Antirheumatic	3
Bronchorelaxant	3
PTK-Inhibitor	3
ICAM-1-Inhibitor	3
Antipolio	3
Anticarcinomic	3
Tyrosinase-Inhibitor	3
Antiescherichic	3
Immunomodulator	3
Xanthine-Oxidase-Inhibitor	3
Anticonvulsant	3
Antiarrhythmic	3
(-)-Chronotropic	3
Antitumor (Skin)	3
Antigingivitic	3
Antitumor (Kidney)	3
Interleukin-6-Inhibitor	3
Differentiator	3
Rubefacient	3
Antinitrosaminic	3
Beta-Glucuronidase-Inhibitor	3

Activity	Chemical Count
Antiimplantation	2
Antielastase	2
Cardiotonic	2
Hypothermic	2
Teratologic	2
Antipharyngitic	2
Antianaphylactic	2
Stimulant	2
cAMP-Phosphodiesterase-Inhibitor	2
NEP-Inhibitor	2
Antitumor (Ovary)	2
Antioxidant (LDL)	2
Gram(-)-icide	2
Antitumor (Cervix)	2
Antiischemic	2
Anticancer (Cervix)	2
IKK-Inhibitor	2
Cytochrome-P450-Inducer	2
Antidiuretic	2
Prostaglandin-Synthesis-Inhibitor	2
Artemicide	2
Metalloproteinase-Inhibitor	2
Epileptigenic	2
Antisinusitic	2
Hyaluronidase-Inhibitor	2
Anticholinesterase	2
Antitumor (Prostate)	2

Activity	Chemical Count
Juvabional	2
Antiophidic	2
Diaphoretic?	2
Antiadenomic	2
Anticancer (Lung)	2
Dentifrice	2
Antipruritic	2
Tracheorelaxant	2
Decongestant	2
Androgenic	2
Antidermatitic	2
Proliferant	2
Antimite	2
Cosmetic	2
Vermifuge	2
Piscicide	2
Antitumor (Stomach)	2
Larvostat	2
Anticataract	2
Ulcerogenic	2
Iodothyronine-Deiodinase-Inhibitor	2
Gram(+)icide	2
Dermatitigenic	2
Antipsoriac	2
Mosquitofuge	2
Antiatherogenic	2
Termiticide	2

Activity	Chemical Count
COX-1-Inhibitor	2
Vibriocide	2
HIV-RT-Inhibitor	2
5-Lipoxygenase-Inhibitor	2
Antiperistaltic	2
Antiandrogenic	2
Anticholinergic	2
Antiaging	2
NADH-Oxidase-Inhibitor	2
Diaphoretic	2
Cicatrizant	2
Antineuralgic	2
Antiprostatic	2
Ancylostomicide	2
MMP-9-Inhibitor	2
Hypolipidemic	2
Culicide	2
MAPK-Inhibitor	2
NO-Synthase-Inhibitor	2
Hypnotic	2
Copper-Chelator	2
Vermicide	2
Antiperoxidant	2
Neuroprotective	2
Uterotrophic	2
Phagocytotic	2
Spermicide	2

Activity	Chemical Count
Insect-Repellent	2
GABA-nergic	1
Antitrypanosomic	1
Immunosuppressant	1
Decongestant?	1
ATPase-Inhibitor	1
Mosquitocide	1
Antithrombic	1
Ozone-Scavenger	1
Cytochrome-P450-1A1-Inhibitor	1
Antidiabetic	1
Prooxidant	1
Antipodriac	1
MDR-Inhibitor	1
Febrifuge	1
Antihydrophobic	1
Capillariprotective	1
Nodulation-Signal	1
Hypocholesterolemic?	1
Antimitotic	1
Anticystitic	1
Verrucolytic	1
AChE-Inhibitor	1
PKC-Inhibitor	1
Lymphokinetic	1
Antihelicobacter	1
Antiserotonin	1

Activity	Chemical Count
Histaminic	1
Antimange	1
Anticolitic	1
Phospholipase-Inhibitor	1
Antitumor (Thyroid)	1
Laxative	1
Elastase-Inhibitor	1
Antiglutamaergic	1
Antirhinitic	1
Antilithic?	1
Anticatarrh	1
Urinary-Antiseptic	1
Peristaltic	1
DME-Inhibitor	1
Antiflatulent	1
Secretagogue	1
Bronchorrhheic	1
Anticarcinogenic	1
Tumorigenic	1
CNS-Toxic	1
PAF-Inhibitor	1
Antiobesity	1
Detoxicant	1
Antifatigue	1
Respirastimulant	1
Bradycardic	1
Cholesterolytic	1

Activity	Chemical Count
Antitubercular	1
Antinephritic	1
Inhalant	1
Antiencephalitic	1
Ankylostomacide	1
Antiprostataadenomic	1
Antibronchoconstrictor	1
Caspase-8-Inducer	1
AntiTNF	1
Antiprogestational	1
Antihyperlipoproteinaemic	1
Termitifuge	1
Cardiac	1
Antitartar	1
Hypolipemic	1
Antidepressant	1
Aldehyde-Oxidase-Inhibitor	1
Polyamine-Synthesis-Inhibitor	1
Antiyeast	1
Abortifacient	1
Phytoalexin	1
Antipermeability	1
Lipolytic	1
Antigonadotropic	1
Sunscreen	1
Neuropathogenic	1
Hepatotoxic	1

Activity	Chemical Count
Antilymphocytic	1
Uterotonic	1
PGE2-Inhibitor	1
Antiparkinsonian	1
Dye	1
Antigastric	1
Narcotic	1
Hemorrhagic	1
Antilipoperoxidant	1
Anticarcinomic (Breast)	1
Tyrosine-Kinase-Inhibitor	1
Coleoptophile	1
Pediculicide	1
Antitumor (GI)	1
Insulinogenic	1
Rodenticide	1
Bronchomucotropic	1
Antiretinopathic	1
Glucosyl-Transferase-Inhibitor	1
Antileishmanic	1
Trypanocide	1
Ciliotoxic	1
Antitumor (Bladder)	1
Antineuritic	1
Antiescherichic	1
Refrigerant	1
Beta-Blocker	1

Activity	Chemical Count
Antihyperthyroid	1
Antiburn	1
Antitrichinosic	1
Ataxigenic	1
Antiproliferative	1
Molluscicide	1
Antibacillus	1
Testosterone-Inducer	1
Cardioprotective	1
Antithiamin	1
Ovulant	1
Aphidifuge	1
Antipneumonic	1
Mast-Cell-Stabilizer	1
Capillarigenic	1
Nociceptive	1
AntiCrohn's	1
Antivaginitic	1
AntiPGE2	1
Lymphocytogenic	1
Enterocontractant	1
Teratogenic	1
HIF-1alpha-Inhibitor	1
Anticolic	1
Varroacide	1
Pheromone	1
Antiperiodontal	1

Activity	Chemical Count
Edemagenic	1
Antigliomic	1
Sprout-Inhibitor	1
Calmodulin-Antagonist	1
Hepatomagenic	1
Antilithic	1
Congestant	1
Antifibrositic	1
Schizonticide	1
Anticancer (Prostate)	1
Tumor-Promoter	1
P450-Inhibitor	1
Respirainhibitor	1
Bradycardiac	1
Mycobactericide	1
Gastroirritant	1
Anticancer (Breast)	1
Antitubercular	1
Antimyocarditic	1
Inflammatory	1
Degranulant	1
Antiemetic	1
Angiogenic	1
Bacteriostatic	1
Antiprostanoid	1
Antithyroid	1
P21-Inducer	1

Activity	Chemical Count
Cytochrome-P450-1A2-Inhibitor	1
Antidiarrheic	1
Prostaglandin-Inhibitor	1
Metal-Chelator (Copper)	1
Antihyperlipidemic	1
Antistress	1
Occuloirritant	1
Antimononucleotic	1
Antidandruff	1
Aedifuge	1
Antivulvitic	1
MAO-A-Inhibitor	1
Enterotoxic	1
Antishock	1
NO-Genic	1
Anticomplement	1
Vasopressor	1
Photosensitizer	1
Leucocytogenic	1
Embryotoxic	1
Antigonadotrophic	1
Succinoxidase-Inhibitor	1
Neurodepressant	1
Hepatotonic	1
Antilymphedemic	1
Uterosedative	1
Antipancreatic	1

Activity	Chemical Count
JNK-Inhibitor	1
DNA-Protective	1
Bruchiphobe	1
GST-Inducer	1
Antileukotrienogenic	1
Coleopterifuge	1
Antiodontalgic	1
AntiADD	1
Respirodepressant	1
Bronchomucolytic	1
Gastroedative	1
Antilaryngitic	1
Anticancer (Kidney)	1
Trichomonistat	1
Deliriant	1
Anorexic	1
Radioprotective	1
Barbituate-Synergist	1
Motor-Stimulant	1
Antihypertensive	1
Antibrucellosic	1
Toxic	1
Catabolic	1
Antitoxoplasmotic	1
Antidysenteric	1
Prostaglandin-Synthetase-Inhibitor	1
Ascaricide	1

Activity	Chemical Count
Fungiphilic	1
Antibacillary	1
Testosterone-Hydroxylase-Inducer	1
Cardiodepressant	1
AntiTGF-beta	1
Ovicide	1
Antimycoplasmotic	1
Antidermatic	1
Progestational	1
Anxiolytic	1
AntiPMS	1
Antimetastatic (Stomach)	1
Phytohormonal	1
Emmenagogue	1
AntiGTF	1
Surfactant	1
Antisarcomic	1
Anticholinesterase?	1
Antipeptic	1
Ecbolic	1
Antialzheimeran	1
Calcium-Antagonist?	1
Natriuretic	1
Hemostat	1
Antilisteria	1
Ubiquit	1
COMT-Inhibitor	1

Activity	Chemical Count
Perfume	1
Antiotitic	1
Antifibrosarcomic	1
Antiadrenergic	1
Bronchoprotectant	1
Antirheumatalgic	1
Gonadotrophic	1
Antileptic	1
Anticancer (Pancreas)	1
Trypsin-Enhancer	1
Antitumor (brain)	1
Deodorant	1
Antiesophagitic	1
Antiacetylcholine	1
Renoirritant	1
Antipsittacotic	1