

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in *Fragaria* spp

Activity	Chemical Count
11B-HSD-Inhibitor	2
5-Alpha-Reductase-Inhibitor	6
5-Lipoxygenase-Inhibitor	2
Abortifacient	1
Acaricide	1
Acarifuge	1
ACE-Inhibitor	5
Acidulant	1
Acnegenic	1
Adjuvant	1
Aldehyde-Oxidase-Inhibitor	1
Aldose-Reductase-Inhibitor	11
Allelochemic	6
Allelopathic	3
Allergenic	13
Alpha-Amylase-Inhibitor	1
Alpha-Glucosidase-Inhibitor	1
Alpha-Reductase-Inhibitor	1
Amphiglycemic?	1
Analeptic	1
Analgesic	13
Anaphrodisiac	1
Androgenic	2
Androgenic?	1
Anemiagenic	2
Anesthetic	1
Angiogenic	1

Activity	Chemical Count
Angiotensin-Receptor-Blocker	3
Anorexic	3
Anthelmintic	2
Antiacetylcholinesterase	1
Antiacid	1
Antiacne	8
Antiacrodermatitic	1
Antiacrodynic	1
Antiadenomic	1
Antiadenoviral	1
Antiadenovirus	1
Antiadrenalinic	1
Antiaflatoxin	4
AntiAGE	2
Antiaggregant	10
Antiaging	5
Antiakathisic	1
Antialcoholic	6
Antialdosteronic	1
Antialkali?	1
Antialkalotic	1
Antiallergenic	2
Antiallergic	9
Antialopepic	5
Antialzheimeran	7
Antiamblyopic	1
Antianaphylactic	6

Activity	Chemical Count
Antiandrogenic	4
Antianemic	4
Antianginal	3
Antiangiogenic	4
Antianorectic	2
Antianorexic	1
Antianxiety	3
Antiaphthic	1
Antiarabiflavivotic	1
Antiarrhythmic	5
Antiarteriosclerotic	3
Antiartihritic	15
Antiasthmatic	8
Antiataxic	1
Antiatherogenic	1
Antiatheromic	1
Antiatherosclerotic	11
Antibackache	1
Antibacterial	25
Antiberiberi	1
AntiBPH	1
Antibronchitic	1
Anticalculic	1
Anticancer	9
Anticancer (Breast)	3
Anticancer (Cervix)	2
Anticancer (Colon)	2

Activity	Chemical Count
Anticancer (Esophagus)	1
Anticancer (Esophagus)?	1
Anticancer (Forestomach)	1
Anticancer (Liver)	1
Anticancer (Lung)	1
Anticancer (Mouth)	1
Anticancer (Skin)	1
Anticanker	3
Anticarcinogenic	2
Anticarcinomic	2
Anticarcinomic (Breast)	1
Anticardiospasmic	1
Anticariogenic	6
Anticarpal-Tunnel	1
Anticataract	11
Anticephalagic	4
Anticerebrotic	1
Anticervicaldysplasic	4
AntiCFS	3
Anticheilitic	3
Antichilblain	2
Antichoreic	1
Anticirrhotic	2
Anticirrhotic?	1
Anticlastogen	2
Anticlaudificant?	1
Anticlimacteric	4

Activity	Chemical Count
Anticoagulant	1
Anticoeliac	1
Anticold	2
Anticolic	1
Anticolitic	3
Anticomplementary	1
Anticonvulsant	6
Anticorneotic	1
Anticoronary	5
AntiCrohn's	4
AntiCTS	1
Anticystitic	1
Antidandruff	4
Antidecubitic	3
Antideliriant	1
Antidementia	7
Antidepressant	10
Antidermatitic	3
Antidermatotic	1
Antidiabetic	12
Antidiabetic?	1
Antidiarrheic	2
Antidiscotic	1
Antidote (Acetaminophen)	1
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Hypoglycin-A)	1

Activity	Chemical Count
Antidote (Lead)	3
Antidote (Mercury)	1
Antidote (Paracetamol)	1
Antidote (Paraquat)	1
Antidote (pesticides)	1
Antidysenteric	1
Antidysgeuzic	1
Antidyskinetic	3
Antidysmenorrhic	1
Antidyspeptic	1
Antidysphagic	1
AntiEBV	1
Antieczemic	7
Antiedemic	7
Antielastase	2
Antiencephalitic	2
Antiencephalopathic	6
Antiencephalopathic?	1
Antiendometriotic	2
Antiendotoxic	1
Antienteritic	1
Antienterotic	1
Antiepileptic	5
Antiescherichic	3
Antiestrogenic	2
Antifatigue	8
Antifeedant	6

Activity	Chemical Count
Antifertility	3
Antifibrinolytic	3
Antifibromyalgic	2
Antifibrosarcomic	1
Antifibrotic	3
Antiflu	5
Antifuruncular	1
Antigallstone	2
Antigastric	1
Antigastritic	4
Antigastrotic	1
Antigenotoxic	1
Antigingivitic	4
Antiglaucomic	2
Antiglossitic	2
Antiglutamaergic	1
Antiglycosuric	1
Antigoiter	1
Antigonadotrophic	1
Antigonadotropic	4
Antigout	1
Antigranular	1
Antigrey	1
AntiGTF	2
Antihangover	4
Antiheartburn	1
Antihelicobacter	1

Activity	Chemical Count
Antihemolytic	2
Antihemorrhagic	3
Antihepatitic	3
Antihepatoadenomic	1
Antihepatotic	1
Antihepatotoxic	12
Antiherpetic	12
Antiherpetic?	1
Antihistaminic	10
AntiHIV	10
Antihomocystinuric	1
Antihydrophobic	1
Antihyperactivity	1
Antihyperammonemic	1
Antihypercholesterolemic	3
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipidemic	1
Antihyperlipoproteinaemic	1
Antihypertensive	11
Antihyperthyroid	3
Antihypoglycemic	1
Antiichthyosic	1
Antiichthyotic	1
Antiielus?	1
Antiimplantation	1
Antiimpotence	2

Activity	Chemical Count
Antiinfarctal	1
Antiinfective	1
Antiinfertility	4
Antiinflammatory	28
Antiinsomniac	4
Antiinsomniac?	1
Antiinsomnic	2
Antiischemic	2
Antikeratitic	1
Antikeshan	1
AntiLegionella	3
Antileishmanic	4
Antileptic	2
Antilethargic	1
Antileukemic	10
Antileukodermic	1
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	4
Antileukotriene-D4	4
Antilipolytic	2
Antilipoperoxidant	3
Antilithic	5
Antilupus	1
AntiLyme	5
Antilymphocytic	1
Antilymphomic	3

Activity	Chemical Count
Antimaculitic	6
Antimalarial	2
Antimange	1
Antimanic	2
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanogenic	4
Antimelanomic	2
AntiMeniere's	1
Antimenopausal	5
Antimenorrhagic	3
Antimetastatic	5
Antimigraine	5
Antimite	1
Antimitotic	1
Antimitral-valve-prolapse	1
Antimorphinic	1
Antimorphinistic	1
AntiMRSA	1
AntiMS	3
Antimutagenic	19
Antimyalgic	1
Antimyelotoxic	1
Antimyocarditic	2
Antinephritic	2
Antinephrolytic	1

Activity	Chemical Count
Antineuralgic	3
Antineuramidase	1
Antineurasthenic	1
Antineuritic	1
Antineuropathic	4
Antineurotic	1
AntiNF-kB	1
Antinitrosaminic	5
Antinitrosic	1
Antinociceptive	3
Antinyctalopic	2
Antiobesity	6
Antioncychomycotic	1
Antionychyotic	1
Antiophidic	5
Antiorchitic	1
Antiosteoarthritic	4
Antiosteoporotic	9
Antiosteotic	1
Antiototic	1
Antioxidant	37
Antioxidant Synergist	3
Antioxidant?	2
Antiozenic	1
Antipancreatic	1
Antipapillomic	1
Antiparkinsonian	6

Activity	Chemical Count
Antiparotitic	1
Antipellagic	3
Antiperiodic	1
Antiperiodontal	2
Antiperiodontic	2
Antiperiodontitic	5
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	10
Antipharyngitic	1
Antiphenylketonuric	1
Antiphotophobic	2
Antipityriasic	1
Antiplatelet	7
Antiplasmodial	2
Antiplasmodial	2
Antiplasmodial	2
Antiplasmodial	2
Antiplasmodial	2
AntiPMS	5
Antipneumonic	1
Antipodagric	1
Antipodriac	2
Antipolio	3
Antipoliomyelitic	2
Antipolyneuritic	1
Antiporphyrin	1
Antiprogestational	1
Antiprolactin	1
Antiproliferant	6

Activity	Chemical Count
Antiprostaglandin	4
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatitic	7
Antiprostatotic	1
Antiproteolytic	1
Antipruritic	1
Antipsoriac	4
Antipsychotic	2
Antipurpuric	1
Antipyretic	5
Antiradicular	16
AntiRaynaud's	3
Antirenitic	1
Antiretardation	1
Antiretinitic Optometry	1
Antiretinopathic	1
Antiretinotic	2
Antirheumatalgic	1
Antirheumatic	9
Antirheumatitic?	1
Antirhinitic	1
Antisarcomic	1
Antischizophrenic	1
Antisclerodermic	2
Antiscoliotic	1
Antiscorbutic	1

Activity	Chemical Count
Antiscotomic	1
Antiseborrheic	5
Antiseptic	22
Antiserotonin	1
Antishingles	1
Antishock	2
Antisickling	5
Antisilicotic	1
Antispare-Tire	1
Antispasmodic	12
Antispasmophilic	1
AntiSpina-Bifida	1
Antisprue	1
Antistaphylococcic	4
Antistomatitic	3
Antistreptococcic	3
Antistress	5
Antistroke	3
Antisunburn	2
Antisyndrome-X	6
Antitartar	1
Antithiamin	3
Antithrombic	1
Antithrombogenic	1
Antithyreotropic	1
Antithyroid	3
Antithyrototoxic	2

Activity	Chemical Count
Antitic	1
Antitinnitic	2
AntiTourette's	1
Antitriglyceride	2
Antitrypanosomic	1
Antitubercular	2
Antitumor	21
Antitumor (Bladder)	2
Antitumor (brain)	1
Antitumor (Breast)	6
Antitumor (Cervix)	1
Antitumor (CNS)	1
Antitumor (Colon)	7
Antitumor (Esophagus)?	1
Antitumor (Forestomach)	1
Antitumor (Gastric)	1
Antitumor (Liver)	2
Antitumor (Lung)	6
Antitumor (Mouth)	1
Antitumor (Ovary)	1
Antitumor (Prostate)	4
Antitumor (Skin)	5
Antitumor (Stomach)	2
Antitumor-Promoter	9
Antitussive	3
Antitympanic	1
Antiulcer	16

Activity	Chemical Count
Antiulcerogenic	2
Antiuremic	1
Antiuricosuric	1
Antivaccinia	1
Antivaginitic	1
Antivertigo	1
Antiviral	19
Antiviral?	1
Antivittilic	1
Antixerophthalmic	1
Antiyeast	1
Anxiolytic	8
AP-1-Inhibitor	1
Aphrodisiac	1
Apoptotic	9
Aromatase-Inhibitor	1
Artemicide	3
Ascaricide	1
Asthma-preventive	1
Astringent	4
ATPase-Inhibitor	1
Autotoxic	1
Bacteristat	3
Barbituate-Synergist	2
Beta-Adrenergic Receptor Blocker	2
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	1

Activity	Chemical Count
Bradycardiac	1
Bronchodilator	1
Bronchorelaxant	2
Bruchiphobe	1
Bufocide	1
Calcium-Antagonist	5
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Phosphodiesterase-Inhibitor	2
Cancer-Preventive	37
Candida-SAP-Inhibitor	1
Candidicide	5
Candidistat	1
Capillariprotective	1
Carcinogenic	11
Cardiomyopathogenic	1
Cardioprotective	12
Cardiotonic	1
Cardiotoxic	2
Cardiovascular	1
Carminative	2
Caspase-3-Inducer	1
Caspase-8-Inducer	1
Catabolic	2
Chelator	1
Chemopreventive	7
Cholagogue	2

Activity	Chemical Count
Choleretic	10
Cholinergic	1
Cicatrizant	1
Circulotonic	2
Clastogenic	2
CNS-Active	2
CNS-Depressant	3
CNS-Inhibitor	1
CNS-Stimulant	1
Co-carcinogenic	2
Cold-preventive	1
Collagen-Sparing	2
Collagenic	2
Colorant	2
Comedogenic	1
Comedolytic	2
COMP-Inhibitor	1
COMT-Inhibitor	1
Contraceptive	1
Convulsant	1
Copper-Antagonist	1
Copper-Chelator	2
Cosmetic	1
Counterirritant	1
COX-1-Inhibitor	2
COX-2-Inhibitor	5
Culicide	1

Activity	Chemical Count
Cyclooxygenase-Activator	1
Cyclooxygenase-Inhibitor	6
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-Inhibitor	1
Cytoprotective	1
Cytotoxic	8
Deiodinase-Inhibitor	2
Demulcent	1
Dentifrice	1
Deodorant	1
Depressant	1
Dermatitigenic	5
Detoxicant	3
Detoxicant (Alcohol)	1
Diaphoretic?	3
Differentiator	1
Disinfectant	1
Diuretic	13
DME-Inhibitor	1
DNA-Active	1
DNA-Protective	1
Dye	1
Emetic	1
Encephalopathic	1
Energizer	1
Ergogenic	1
Erythrocytogenic	1

Activity	Chemical Count
Essential	8
Estrogenic	6
Expectorant	2
Febrifuge	1
Fibrinolytic	1
Fistula-Preventive	1
FLavor	12
Floral-Inhibitor	1
Fungicide	17
Fungistat	1
GABA-nergic	1
Gastroprotective	1
Glaucomagenic	1
Glucosyl-Transferase-Inhibitor	3
Glutathione-Depleting	1
Glutathionigenic	2
Goitrogenic	1
Gonadotrophic	1
Gram(+)icide	1
Gram(-)icide	1
Hematopoietic	1
Hemolytic	1
Hemopoietic	1
Hemostat	7
Hemostatic	1
Hepatocarcinogenic	1
Hepatomagenic	1

Activity	Chemical Count
Hepatoprotective	14
Hepatotonic	1
Hepatotoxic	3
Hepatotropic	1
Herbicide	2
Herpetifuge	1
Histamine-Inhibitor	2
HIV-RT-Inhibitor	3
Hypercholesterolemic	1
Hyperglycemic	1
Hypertensive	2
Hyperthyroid	1
Hypnotic	2
Hypoammonemic	1
Hypoarginanemic	1
Hypocholesterolemic	19
Hypoglycemic	13
Hypolipidemic	2
Hypotensive	13
Hypothermic	1
Hypouricemic	1
ICAM-1-Inhibitor	1
Immunomodulator	9
Immunostimulant	13
Immunosuppressant	5
iNOS-Inhibitor	2
Inotropic	2

Activity	Chemical Count
Insecticide	3
Insectifuge	9
Insectiphile	2
Insulin-Sparing	3
Insulinase-Inhibitor	2
Insulinogenic	4
Insulinotonic	2
Interferon-Synergist	1
Interferonogenic	3
Interleukin-6-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	1
Irritant	5
JNK-Inhibitor	1
Juvabional	3
Keratolytic	2
Larvicide	1
Larvostat	2
Laxative	5
Laxative?	2
Leptingenic	1
Leukotriene-Inhibitor	2
Lipolytic	2
Lipotropic	2
Lipoxygenase-Inhibitor	7
Lithogenic	2
Litholytic	2
Lubricant	2

Activity	Chemical Count
Lyase-Inhibitor	1
Lymphocytogenic	1
MAO-A-Inhibitor	2
MAO-Inhibitor	3
Mast-Cell-Stabilizer	1
Memorigenic	1
Metal-Chelator	2
Metal-Chelator (Copper)	2
Metalloproteinase-Inhibitor	1
Metastatic	1
MMP-9-Inhibitor	1
Molluscicide	1
Monoamine-Precursor	1
Mosquitofuge	2
Motor-Depressant	2
Mucogenic	2
Mucolytic	1
Mutagenic	2
Mycobactericide	2
Mycoplasmatat	1
Myorelaxant	3
NADH-Oxidase-Inhibitor	1
Natriuretic	1
Nematicide	5
NEP-Inhibitor	1
Nephrotoxic	4
Neuroexcitant	1

Activity	Chemical Count
Neuroinhibitor	2
Neuroprotective	3
Neurotoxic	2
Neurotransmitter	2
NF-kB-Inhibitor	4
NO-Genic	2
NO-Inhibitor	4
NO-Synthase-Inhibitor	1
Odontolytic	1
Ornithine-Decarboxylase-Inhibitor	5
Osteogenic	1
Oviposition-Stimulant	1
Ovulant	1
Oxidant	2
P450-2B1-Inhibitor	1
P450-Inducer	1
P450-Inhibitor	1
PAF-Inhibitor	1
Paralytic	1
Parasiticide	1
Percutaneostimulant	2
Perfumery	7
Peristaltic	1
Pesticide	37
PGE2-Inhibitor	1
Phagocytotic	2
Phospholipase-Inhibitor	1

Activity	Chemical Count
Phytoalexin	1
Pigment	1
Piscicide	1
Pituitary-Stimulant	1
Plasmodicide	1
Polyamine-Synthesis-Inhibitor	1
Proinflammatory	1
Prolactinogenic	1
Proliferant	1
Prooxidant	6
Propepic	6
Prostaglandigenic	4
Prostaglandin-Sparer	1
Prostaglandin-Synthesis-Inhibitor	3
Prostatitigenic	1
Protein-Kinase-C-Inhibitor	2
Protisticide	2
Psychotropic	1
PTK-Inhibitor	1
Quinone-Reductase-Inducer	5
Refrigerant	1
Retinoprotectant Optometry	1
Reverse-Transcriptase-Inhibitor	1
Roborant	1
Scabicide	1
Schizophrenigenic	1
Secretagogue	2

Activity	Chemical Count
Sedative	9
Serotoninerbic	2
Sialogogue	1
Soap	2
Spermicide	1
Spermigenic	2
Styptic	1
Sunscreen	3
Suppository	1
Sweetener	1
Teratogenic	1
Teratologic	2
Termiticide	1
Termitifuge	1
Testosteronigenic	1
Thermogenic	1
Thymoprotective	1
Thyrotropic	1
Tineacide	1
TNF-alpha-Inhibitor	2
Topoisomerase-I-Antagonist	1
Topoisomerase-I-Inhibitor	4
Topoisomerase-II-Inhibitor	3
Toxic	1
Tranquilizer	3
Transdermal	1
Trichomonicide	3

Activity	Chemical Count
Trypanocide	1
Tumor-Promoter	3
Tumorigenic	2
Tyrosinase-Inhibitor	6
Tyrosine-Kinase-Inhibitor	1
Ubiquit	6
Ulcerogenic	2
Uricosuric	4
Urinary-Acidulant	1
Urinary-Antiseptic	1
Urine-Acidifier	1
Urine-Deodorant	1
Uterorelaxant	1
Uterotrophic	1
Vasodilator	10
Vasopressor	1
VEGF-Inhibitor	2
Vulnerary	6
Xanthine-Oxidase-Inhibitor	8