

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in Citrus limon

Activity	Chemical Count
Pesticide	67
FLavor	44
Cancer-Preventive	41
Antibacterial	38
Perfumery	35
Antiinflammatory	34
Fungicide	33
Antioxidant	32
Antispasmodic	31
Insectifuge	24
Antiseptic	24
Sedative	23
Antimutagenic	21
Antiviral	21
Antitumor	19
Allergenic	19
Aldose-Reductase-Inhibitor	18
Irritant	18
Antiulcer	17
Calcium-Antagonist	17
Antihistaminic	17
Antifeedant	17
Analgesic	15
Hypocholesterolemic	15
Candidicide	14
Nematicide	14
Antiproliferant	14

Activity	Chemical Count
Antiallergic	14
Insecticide	14
Hepatoprotective	13
Antiaggregant	13
Herbicide	13
Apoptotic	13
Myorelaxant	12
Chemopreventive	12
Vasodilator	12
Antiradicular	12
Hypoglycemic	11
Expectorant	11
Antihepatotoxic	11
Antiacetylcholinesterase	11
Choleretic	11
Antiherpetic	11
Antitumor-Promoter	11
Diuretic	10
Antileukemic	10
Hypotensive	10
Antiedemic	10
Anticancer	10
Antistaphylococcic	10
Antitumor (Colon)	9
Trichomonicide	9
Estrogenic	9
Lipoxygenase-Inhibitor	8

Activity	Chemical Count
Antimelanomic	8
Antiflu	8
Antiasthmatic	8
Acaricide	8
Anticariogenic	8
Antitumor (Breast)	7
Antiatherosclerotic	7
Anticataract	7
Cytotoxic	7
Antidiabetic	7
Anxiolytic	7
Antihypertensive	7
Allelochemic	7
Anticonvulsant	7
Antinitrosaminic	7
ACE-Inhibitor	7
Antidermatitic	6
Antiacne	6
P450-2B1-Inhibitor	6
Antinociceptive	6
Antitumor (Skin)	6
Antiarrhythmic	6
Allelopathic	6
Antiobesity	6
Antimitotic	6
CNS-Stimulant	6
Lipolytic	6

Activity	Chemical Count
Antiestrogenic	6
Antiprostaglandin	6
Mutagenic	6
Antitumor (Lung)	6
Immunostimulant	6
Antialzheimeran	6
Spasmogenic	6
Colorant	5
Xanthine-Oxidase-Inhibitor	5
Antirheumatic	5
Antimalarial	5
Antidementia	5
Anticarcinogenic	5
Immunomodulator	5
Transdermal	5
Motor-Depressant	5
Anesthetic	5
Ubiquit	5
Antimetastatic	5
Prooxidant	5
Antitussive	5
DME-Inhibitor	5
Hypolipidemic	5
Laxative	5
Antistreptococcic	5
Antiperoxidant	5
Antiarthritic	5

Activity	Chemical Count
Antidepressant	5
CNS-Depressant	5
Carcinogenic	5
Insectiphile	5
Antiaflatoxin	5
Antileishmanic	4
Cardioprotective	4
Cholagogue	4
Anticancer (Breast)	4
Teratogenic	4
Oviposition-Stimulant	4
Sunscreen	4
Antifatigue	4
Catabolic	4
Fungistat	4
Antipyretic	4
Cytochrome-P450-Inhibitor	4
Antistress	4
Hemostat	4
Antisalmonella	4
Vulnerary	4
Molluscicide	4
Cyclooxygenase-Inhibitor	4
Neurotoxic	4
TNF-alpha-Inhibitor	4
Hypertensive	4
AntiLyme	4

Activity	Chemical Count
Ornithine-Decarboxylase-Inhibitor	4
Juvabional	4
Antiaging	4
Quinone-Reductase-Inducer	4
Topoisomerase-I-Inhibitor	4
Antilymphomic	4
cAMP-Phosphodiesterase-Inhibitor	4
Antilithic	4
NO-Inhibitor	4
AntiHIV	4
Antiatherogenic	4
Antileukotriene	4
Neuroprotective	4
Antihelicobacter	3
Antidecubitic	3
Gastroprotective	3
Antigonadotropic	3
Prostaglandigenic	3
Antipsoriac	3
Spermicide	3
COX-2-Inhibitor	3
Anticervicaldysplasic	3
Tyrosinase-Inhibitor	3
AntiPMS	3
Antimigraine	3
Anthelmintic	3
Antiangiogenic	3

Activity	Chemical Count
P450-Inhibitor	3
Anticomplementary	3
Antiosteoporotic	3
Capillariprotective	3
Vasopressor	3
Antiescherichic	3
Antiprostatic	3
Carminative	3
Radioprotective	3
Antiplatelet	3
Topoisomerase-II-Inhibitor	3
Angiotensin-Receptor-Blocker	3
Antimaculitic	3
Antiophidic	3
Larvicide	3
Antitumor (Prostate)	3
Antiplatelet	3
Anticapillary-Fragility	3
Artemicide	3
Tranquilizer	3
Antitubercular	3
Antirhinitic	3
P450-Inducer	3
Prostaglandin-Synthesis-Inhibitor	3
Candidostat	3
Anticlastogen	3
Antitumor (Stomach)	3

Activity	Chemical Count
NF-kB-Inhibitor	3
Anticarcinomic	3
Antihangover	3
Differentiator	3
Antianaphylactic	3
Antigastritic	3
Antivaccinia	3
Cytoprotective	3
Bronchorelaxant	3
Piscicide	3
Antitumor (Pancreas)	3
Antiproliferative	3
Embryotoxic	3
Antiperiodontitic	2
Antitumor (Gastric)	2
11B-HSD-Inhibitor	2
Antielastase	2
Antipolio	2
Phagocytotic	2
Antiparkinsonian	2
Anticanker	2
Dermatitigenic	2
Antitrypanosomic	2
Protisticide	2
Antiglaucomic	2
Deiodinase-Inhibitor	2
AntiCrohn's	2

Activity	Chemical Count
Metal-Chelator	2
Larvostat	2
Anticholinesterase	2
Vasoconstrictor	2
Antiallergenic	2
Antidote (Lead)	2
Antilipogenic	2
Acidulant	2
Antiepileptic	2
Beta-Glucuronidase-Inhibitor	2
Antistomatitic	2
Antitumor (Liver)	2
Gram(-)-icide	2
5-Lipoxygenase-Inhibitor	2
Antiencephalitic	2
Antiadenomic	2
Antishock	2
Antipellagic	2
Respirastimulant	2
Arteriodilator	2
Antihalitotic	2
Diaphoretic?	2
Peristaltic	2
AntiCVI	2
Litholytic	2
Pyrogenic	2
Antiphotophobic	2

Activity	Chemical Count
Antimenopausal	2
Aphidifuge	2
Antirhinoviral	2
Dentifrice	2
Metalloproteinase-Inhibitor	2
Termiticide	2
Antithiamin	2
Antifertility	2
Anticlimacteric	2
Antilipoperoxidant	2
Hepatotoxic	2
Anticheilitic	2
Antineuropathic	2
Uterosedative	2
Antitumor (Ovary)	2
Nephrotoxic	2
Barbituate-Synergist	2
Antihemorrhoidal	2
Glutathionigenic	2
Antipodriac	2
Immunosuppressant	2
Mucolytic	2
Aromatase-Inhibitor	2
Cardiac	2
Protein-Kinase-C-Inhibitor	2
Antialzheimeran?	2
MDR-Inhibitor	2

Activity	Chemical Count
Antifibrotic	2
AntiRaynaud's	2
Aldehyde-Oxidase-Inhibitor	2
Iodothyronine-Deiodinase-Inhibitor	2
Antisunburn	2
Hepatomagenic	2
Beta-Blocker	2
Uricosuric	2
Emetic	2
Antiperistaltic	2
Antileptic	2
Gram(+)icide	2
Antipoliomyelitic	2
COMT-Inhibitor	2
Antimyocarditic	2
iNOS-Inhibitor	2
Tumorigenic	2
Antitumor (Cervix)	2
Detoxicant	2
Cardiotonic	2
PTK-Inhibitor	2
Antipharyngitic	2
Clastogenic	2
Mosquitofuge	2
Demulcent	2
Antithyroid	2
Anticancer (Cervix)	2

Activity	Chemical Count
Antigallstone	2
Anticolitic	2
Vermicide	2
MAO-Inhibitor	2
Antibronchitic	2
Culicide	2
Antineuritic	2
Antileukodermic	2
NEP-Inhibitor	2
Anticataleptic	2
Antipneumonic	2
Mycobactericide	2
Cardiovascular	2
Antiinsomniac	2
Hypothermic	2
Deodorant	2
PAF-Inhibitor	2
MMP-9-Inhibitor	2
Termitifuge	2
Antithrombic	2
Proliferant	2
Anticoagulant	2
VEGF-Inhibitor	2
Hepatotropic	2
Interleukin-6-Inhibitor	2
Antidote (Aluminum)	2
Counterirritant	2

Activity	Chemical Count
Antineuralgic	2
Ulcerogenic	2
Antiappetant	1
Gonadotrophic	1
Secretagogue	1
Anticardiospasmic	1
Ataxigenic	1
Inflammatory	1
Tumor-Promoter	1
Antiserotonin	1
Caspase-3-Inducer	1
MAO-A-Inhibitor	1
Antiapertif	1
Antiischemic	1
Refrigerant	1
Antidyspeptic	1
Antiplasmodial	1
Co-carcinogenic	1
Musculotropic	1
Antimetastatic (Stomach)	1
Arrhythmigenic	1
ICAM-1-Inhibitor	1
Tracheorelaxant	1
Ankylostomacide	1
Antiscorbatic	1
Perfume	1
Antioxidant (LDL)	1

Activity	Chemical Count
Antianemic	1
Antiimplantation	1
Antiperoxyinitrite	1
Circulotonic	1
Mosquitocide	1
Anticancer (Liver)	1
Antiyeast	1
Thymoprotective	1
Androgenic	1
Antiamblyopic	1
Antihyperlipoproteinaemic	1
Antithromboxane	1
Antivaricose	1
Hyperglycemic	1
Alpha-Amylase-Inhibitor	1
Antiretardation	1
Cytotoxic (Breast)	1
Anticolic	1
Antiorchitic	1
Venotonic	1
Antibradykinic	1
Antilupus	1
Histamine-Inhibitor	1
Cytochrome-P450-1A2-Inhibitor	1
Odontolytic	1
Antihyperactivity	1
Antisyndrome-X	1

Activity	Chemical Count
Ergotamine-Enhancer	1
PPAR-Gamma-Antagonist	1
Antiprostanoid	1
Neurotropic	1
Antineurasthenic	1
Insulinogenic	1
Urinary-Acidulant	1
Emmenagogue	1
Phytoalexin	1
Antidiarrheic	1
Antipermeability	1
Antiporphyrin	1
Convulsant	1
Anticarpal-Tunnel	1
Antinarcotic	1
Bacteriostatic	1
Inotropic	1
Antihemolytic	1
DNA-Active	1
Phosphodiesterase-Inhibitor	1
Antiapneic	1
Antikeratitic	1
Antitumor (CNS)	1
Glucogonogenic	1
(+)-Inotropic	1
AntiEBV	1
Coleoptophile	1

Activity	Chemical Count
Mutagenic?	1
Antiseborrheic	1
Antiozenic	1
Cardiotoxic	1
CNS-Active	1
Anticancer (Pancreas)	1
Tonic	1
Antiglossitic	1
AntiAmyloid-Beta	1
Antihyperthyroid	1
Antitic	1
Fibrinolytic	1
Prostaglandin-Synthetase-Inhibitor	1
Cholesterolytic	1
Anticancer (Colon)	1
Antimastitic	1
Hypnotic	1
Antigastric	1
Antiretinopathic	1
Decarboxylase-Inhibitor	1
Oxytotic	1
Laxative?	1
Verrucolytic	1
ERK-2-Inhibitor	1
ProHDL	1
MAPK-Inhibitor	1
Antibronchoconstrictor	1

Activity	Chemical Count
Antilymphocytic	1
Antiuricosuric	1
HIV-RT-Inhibitor	1
Sympathomimetic	1
Osteoblastogenic	1
Calmodulin-Antagonist	1
Keratitigenic	1
Antialopeic	1
Antihypercholesterolemic	1
Antibackache	1
Antitumor (Thyroid)	1
Stimulant	1
Adenosine-Antagonist	1
Cyclin-B1-Inhibitor	1
NO-Genic	1
Bronchoprotectant	1
Interferonogenic	1
Antiakathisic	1
Enterocontractant	1
Pigment	1
AntiDNA	1
Antileukoplakic	1
Serotoninergic	1
Antiendometriotic	1
Coronary-Dilator	1
Antinephritic	1
Antiadrenergic	1

Activity	Chemical Count
Antisinusitic	1
Edemagenic	1
Photoactive	1
Antidermatic	1
Antiperiodontic	1
Antiapoptotic	1
AntiLegionella	1
Antitumor (Forestomach)	1
Rubefacient	1
(-)-Inotropic	1
Collagenic	1
Myoprotective	1
Anticarcinomic (Breast)	1
Asthma-preventive	1
Trypanocide	1
Antiheartburn	1
Antiserotonergic	1
Disinfectant	1
PGE2-Inhibitor	1
Anticytotoxic	1
Antipapillomic	1
Lypolytic	1
Antianxiety	1
Antiinsomnic	1
Antitumor (brain)	1
Gastroirritant	1
Antidysmenorrhic	1

Activity	Chemical Count
Anticancer (Skin)	1
Hypouricemic	1
Antigonadotrophic	1
Dermal	1
Pediculicide	1
Antiandrogenic	1
Antiichthyotic	1
Antitriglyceride	1
Antiperoxidative	1
Cicatrizant	1
Anticancer (Gastric)	1
Antimelanogenic	1
Antixerophthalmic	1
Hypocholesterolemic?	1
Testosterone-Hydroxylase-Inducer	1
Ancylostomicide	1
Antigingivitic	1
Antirheumatalgic	1
Degranulant	1
Ozone-Scavenger	1
Anticoronary	1
Antihyperkinetic	1
Antithrombogenic	1
Estrogenic?	1
Antivaginitic	1
Hydrocholerectic	1
Tachycardic	1

Activity	Chemical Count
Allergenic?	1
Osteolytic	1
Anticold	1
Venoprotective	1
Antiberiberi	1
Antilithic?	1
Succinoxidase-Inhibitor	1
Antiprotozoal	1
NO-Synthase-Inhibitor	1
Anticholinergic	1
Antinitrosic	1
Bufocide	1
Varroacide	1
Antialkali?	1
Antihydrophobic	1
Enterotoxic	1
Plasmodicide	1
Antidote (Cadmium)	1
Antiatheromic	1
Antileukotrienogenic	1
Spasmolytic	1
AChE-Inhibitor	1
Antienteritic	1
COX-1-Inhibitor	1
Anticephalagic	1
Antineuramidase	1
Insulinic	1

Activity	Chemical Count
AntiAGE	1
Antihepatoadenomic	1
Phototoxic	1
Antiarabiflavinotic	1
Antitumor (Kidney)	1
Secretomotor	1
5-HT-Inhibitor	1
Antiemetic	1
NADH-Oxidase-Inhibitor	1
ATPase-Inhibitor	1
Antiacrodynic	1
Antihematuric	1
Antishingles	1
Pheromone	1
Antideliriant	1
Antiparotitic	1
Caspase-8-Inducer	1
Antiaphthic	1
Antijet-lag	1
Glaucomagenic	1
Renoirritant	1
Antidysphagic	1
Cold-preventive	1
Antimetrorrhagic	1
IKK-Inhibitor	1
Anorexic	1
AntiGTF	1

Activity	Chemical Count
Antiscotomic	1
Antioxidant Synergist	1
Lithogenic	1
Antianginal	1
Antiinfertility	1
Fungiphilic	1
Anticancer (Lung)	1
AntiMeniere's	1
Androgenic?	1
Antigliomic	1
AntiCTS	1
Antiamnesic	1
Febrifuge	1
Metal-Chelator (Copper)	1
Antimange	1
Antivertigo	1
Teratologic	1
Analeptic	1
Antiretinitic Optometry	1
Cytotoxic (Colon)	1
Ovulant	1
Antiosteoarthritic	1
Preservative	1
Antiulcerogenic	1
Histaminic	1
Surfactant	1
Antipurpuric	1

Activity	Chemical Count
Cytochrome-P450-Inducer	1
Antinyctalopic	1
Calcium-Channel-Blocker	1
Antihyperammonemic	1
Antitachycardic	1
ERK-1-Inhibitor	1
Antibacillary	1
Antilipolytic	1
Hepatotonic	1
Sprout-Inhibitor	1
Adaptogenic	1
Antierhythmic	1
Antiprostataadenomic	1
AntiCFS	1
Bradycardiac	1
Interferon-Synergist	1
Urinary-Antiseptic	1
Energizer	1
Phytohormonal	1
Antidiuretic	1
GST-Inducer	1
Serotonin-Inhibitor	1
Abortifacient	1
Antiencephalopathic	1
Antiprogestational	1
Copper-Chelator	1
Antineoplastic	1

Activity	Chemical Count
Bacteristat	1
Tyrosine-Kinase-Inhibitor	1
Antiadenoviral	1
Antihemorrhagic	1
Antisindhis	1
DNA-Protective	1
Phospholipase-Inhibitor	1
Antiperiodontal	1
cGMP-Phosphodiesterase-Inhibitor	1
Antiapoplectic	1
Antilaryngitic	1
Glucosyl-Transferase-Inhibitor	1
Retinoprotectant Optometry	1
(-)-Chronotropic	1
Antieczemic	1
Collagen-Sparing	1
Antimite	1
Ascaricide	1
Anti-LDL	1
Anticystitic	1
Antipancreatic	1
Lyase-Inhibitor	1
Antianorectic	1
Antitumor (Bladder)	1
GABA-nergic	1
Antidote (Paraquat)	1
Antipityriasic	1

Activity	Chemical Count
Mucogenic	1
Anticancer (Prostate)	1
Antimenorrhagic	1
Angiogenic	1
Antiglutamaergic	1
AntiRNA	1
Vibriocide	1
Antihypotensive	1
Antitrichinosic	1
Fistula-Preventive	1
Prostatitogenic	1
Cholinergic	1
Anticancer (Forestomach)	1
Antimeasles	1
Antivitiliginic	1
Analgesic-Synergist	1
Antiretinotic	1
Decongestant	1
Oxytocic?	1
Antiotitic	1
Leukotriene-Inhibitor	1
Antihyperkeratotic	1
Mast-Cell-Stabilizer	1
Anticalculic	1
Hyaluronidase-Inhibitor	1
Systolic-Depressant	1
Antifibrosarcomic	1

Activity	Chemical Count
Osteogenic	1
Antionychotic	1
Lactagogue	1
Stomachic	1
Adrenergic	1
Antiesophagitic	1
Antiprostatotic	1
Cyclin-D1-Inhibitor	1
Antichilblain	1
Uterotrophic	1
Antialcoholic	1
Antistroke	1
Enterorelaxant	1
Hepatocarcinogenic	1
Antiendotoxic	1
Anticatarrh	1
Beta-Adrenergic Receptor Blocker	1
Antihepatitic	1
Photosensitizer	1