

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in *Zingiber officinale*

Activity	Chemical Count
Pesticide	87
FLavor	52
Antioxidant	47
Cancer-Preventive	47
Perfumery	43
Antibacterial	43
Fungicide	43
Antiinflammatory	38
Antiseptic	34
Antiulcer	32
Antispasmodic	32
Sedative	31
Insectifuge	30
Allergenic	28
Nematicide	27
Irritant	27
Antiviral	24
Antitumor	23
Analgesic	22
Hypocholesterolemic	19
Antimutagenic	19
Candidicide	18
Hypotensive	18
Hepatoprotective	17
Antihistaminic	15
Antiradicular	15
Antiallergic	15

Activity	Chemical Count
Antiaggregant	15
Vasodilator	14
Antiacne	14
Choleretic	14
Diuretic	14
Aldose-Reductase-Inhibitor	14
Antifeedant	14
Herbicide	14
Expectorant	13
Immunostimulant	12
Antiprostaglandin	12
Antiarthritic	12
Anticancer	11
Antileukemic	11
Trichomonicide	11
Antiherpetic	11
Apoptotic	11
Antidiabetic	11
Antihepatotoxic	10
Antidepressant	10
Hypoglycemic	10
Antihypertensive	10
Anticariogenic	10
Antinitrosaminic	10
Anticataract	10
Antiasthmatic	10
Antistaphylococcic	10

Activity	Chemical Count
Acaricide	10
Cardioprotective	10
Antiosteoporotic	10
Chemopreventive	9
Antifatigue	9
Antiatherosclerotic	9
Allelochemic	9
Insecticide	9
Cytotoxic	9
Mutagenic	9
Antitumor-Promoter	9
Cyclooxygenase-Inhibitor	9
Antipyretic	9
Carcinogenic	9
Prostaglandin-Synthesis-Inhibitor	9
Antiacetylcholinesterase	8
Anxiolytic	8
Antiproliferant	8
Estrogenic	8
Anticonvulsant	8
COX-2-Inhibitor	8
Immunomodulator	8
Cholagogue	8
Antitumor (Colon)	8
Essential	8
Allelopathic	8
Antiedemic	8

Activity	Chemical Count
Antirheumatic	7
Calcium-Antagonist	7
Vulnerary	7
5-Alpha-Reductase-Inhibitor	7
Antitumor (Lung)	7
Antiprostatic	7
Antieczemic	7
Cardiotonic	7
Antiparkinsonian	7
Antiencephalopathic	7
Myorelaxant	7
Ornithine-Decarboxylase-Inhibitor	7
Laxative	7
Antiplateau	7
Antimelanomic	7
Antialzheimeran	7
AntiHIV	7
Anesthetic	6
Antinociceptive	6
Antisyndrome-X	6
Antilithic	6
P450-2B1-Inhibitor	6
Lipoxygenase-Inhibitor	6
Transdermal	6
Motor-Depressant	6
Antiobesity	6
5-Lipoxygenase-Inhibitor	6

Activity	Chemical Count
Antidementia	6
Antisickling	6
CNS-Depressant	6
Antitumor (Skin)	6
Thermogenic	6
Tyrosinase-Inhibitor	6
Emetic	6
Antiperoxidant	6
Antistreptococcic	6
Antitumor (Breast)	5
AntiLyme	5
Propecic	5
Spasmogenic	5
Antimetastatic	5
Neurotoxic	5
Carminative	5
Antihangover	5
Antiinsomniac	5
Antilymphomic	5
CNS-Stimulant	5
Antimigraine	5
Antiplasmodial	5
ACE-Inhibitor	5
Juvabional	5
Antisalmonella	5
NF-kB-Inhibitor	5
Antistress	5

Activity	Chemical Count
Antimalarial	5
Antiaging	5
Prooxidant	5
Larvicide	5
NO-Inhibitor	5
Antialcoholic	5
Anticoronary	5
Antiarrhythmic	5
Tranquilizer	5
Antiepileptic	5
P450-Inducer	5
Antileukotriene	5
Antiflu	5
AntiPMS	5
Antimenopausal	5
Anticolitic	4
Anti-5-HT	4
Anticlimacteric	4
Insulinogenic	4
Metal-Chelator	4
Topoisomerase-II-Inhibitor	4
Antithromboxane	4
Gastrostimulant	4
Antianaphylactic	4
Antialopepic	4
Insectiphile	4
Antidermatitic	4

Activity	Chemical Count
Antineuralgic	4
AntiCrohn's	4
Antileishmanic	4
Antianemic	4
Hypercholesterolemic	4
Antiescherichic	4
Ulcerogenic	4
Antileukotriene-D4	4
Glutathionigenic	4
Topoisomerase-I-Inhibitor	4
Antiangiogenic	4
Antiestrogenic	4
Neuroprotective	4
Antitumor (Liver)	4
Termiticide	4
Antiemetic	4
Prostaglandigenic	4
Anticephalagic	4
Antiaflatoxin	4
AntiEBV	4
Antipolio	4
Hypolipidemic	4
Antirhinoviral	4
Anticarcinogenic	4
Antiandrogenic	4
Quinone-Reductase-Inducer	4
Ubiquiot	4

Activity	Chemical Count
Detoxicant	4
Antimaculitic	4
Immunosuppressant	4
Hypothermic	4
Antitussive	4
Molluscicide	3
NO-Genic	3
Antitumor (Prostate)	3
Anticancer (Skin)	3
COX-1-Inhibitor	3
Antiperiodontitic	3
AntiRaynaud's	3
Convulsant	3
Antipsoriac	3
Antiinfertility	3
Lubricant	3
Antilipoperoxidant	3
Antigingivitic	3
Larvostat	3
Bacteristat	3
Antidote (Lead)	3
Anticanker	3
Hypnotic	3
Termitifuge	3
Angiotensin-Receptor-Blocker	3
Dermatitigenic	3
Inotropic	3

Activity	Chemical Count
Antigonadotropic	3
Antidecubitic	3
Spermicide	3
Antigastritic	3
Antiartherosclerotic	3
Antidyskinetic	3
Antiosteoarthritic	3
Antifibrotic	3
Rubefacient	3
Antifertility	3
Fungistat	3
Anthelmintic	3
(-)-Inotropic	3
Antihelicobacter	3
Perfume	3
Antibronchitic	3
AntiCFS	3
Mucogenic	3
Secretagogue	3
Antimenorrhagic	3
Antiophidic	3
Cytochrome-P450-Inhibitor	3
Monoamine-Precursor	3
Gastroprotective	3
Hypertensive	3
Uricosuric	3
Antipellagic	3

Activity	Chemical Count
Diaphoretic?	3
Cardiodepressant	3
Sweetener	3
Protein-Kinase-C-Inhibitor	3
Candidostat	3
Antigonadotrophic	3
Antiyeast	3
VEGF-Inhibitor	3
Serotonergic	3
Cosmetic	3
(-)-Chronotropic	3
Anticancer (Colon)	3
Narcotic	3
Sunscreen	3
Anticervicaldysplasic	3
Deodorant	3
AntiMS	3
Antiadenomic	3
Antihypercholesterolemic	3
Antianxiety	3
Cytochrome-P450-Inducer	3
Antiketotic	2
Antifibrinolytic	2
Antithrombic	2
Antiphenylketonuric	2
Antianginal	2
Catabolic	2

Activity	Chemical Count
GABA-nergic	2
Phytoalexin	2
Hyperglycemic	2
Antistroke	2
Neuroinhibitor	2
11B-HSD-Inhibitor	2
Antihemolytic	2
Flatugenic	2
Teratologic	2
Antineuritic	2
Anticancer (Forestomach)	2
Ascaricide	2
Histamine-Inhibitor	2
PTK-Inhibitor	2
Antiallergenic	2
Antioxidant?	2
Anticheilitic	2
Stimulant	2
Antielastase	2
Tumorigenic	2
Antiotitic	2
CNS-Inhibitor	2
Antihyperkinetic	2
Trichomonistat	2
Mucolytic	2
AntiTNF	2
Embryotoxic	2

Activity	Chemical Count
Antipodriac	2
Antiarachidonate	2
Acidulant	2
Antiulcerogenic	2
Gonadotrophic	2
Antiophthalmic	2
Antimelanogenic	2
Antianorectic	2
Antitumor (Stomach)	2
Antirhinitic	2
Antihepatic	2
Copper-Chelator	2
HIV-RT-Inhibitor	2
Antistomatitic	2
Antipeptic	2
Anticancer (Cervix)	2
Androgenic	2
Tyrosine-Kinase-Inhibitor	2
Collagen-Sparing	2
Hepatotropic	2
AntiAGE	2
Decongestant	2
Antipoliomyelitic	2
Clastogenic	2
Antithyroid	2
TNF-alpha-Inhibitor	2
MMP-9-Inhibitor	2

Activity	Chemical Count
Antithiamin	2
Antipharyngitic	2
Antimastalgic	2
Antitumor (Pancreas)	2
Interleukin-6-Inhibitor	2
Antihepatotic	2
Antidote (Cadmium)	2
Anticancer (Pancreas)	2
Counterirritant	2
Antiperiodontic	2
Antitumor (Forestomach)	2
Teratogenic	2
Phagocytotic	2
Contraceptive	2
Anemiagenic	2
Antiinsomnic	2
Protisticide	2
Antipruritic	2
Aphrodisiac	2
Depressant	2
Antitriglyceride	2
P450-Inhibitor	2
Litholytic	2
Tumor-Promoter	2
Vibriocide	2
Antigenotoxic	2
Oxidant	2

Activity	Chemical Count
Antimitotic	2
Antivaginitic	2
Antitinnitic	2
Antipneumonic	2
Preservative	2
Antiphotophobic	2
Abortifacient	2
Pigment	2
Antisunburn	2
Antineuropathic	2
Anticancer (Liver)	2
Metal-Chelator (Copper)	2
Antiischemic	2
Antiendometriotic	2
Anticirrhotic	2
Antitumor (Cervix)	2
Antipsoriatic	2
Anticancer (Breast)	2
iNOS-Inhibitor	2
Antidandruff	2
Stomachic	2
Antimyocarditic	2
Xanthine-Oxidase-Inhibitor	2
Antiglaucomic	2
Lipotropic	2
Antiserotonin	2
Antigastric	2

Activity	Chemical Count
Barbituate-Synergist	2
Mosquitofuge	2
AntiLegionella	2
DNA-Protective	2
Plasmodicide	2
Anticold	2
Neurotransmitter	2
Antimanic	2
Interferonogenic	2
Antidote (Aluminum)	2
Anorexic	2
Fibrinolytic	2
PGE2-Inhibitor	2
Artemicide	2
Antipapillomic	2
Insect-Repellent	2
Percutaneostimulant	2
Collagenic	2
Antiimpotence	2
Antiencephalitic	2
cAMP-Phosphodiesterase-Inhibitor	2
Enteromotility-Enhancer	2
Spermigenic	2
Antihyperthyroid	2
Trypsin-Enhancer	2
Antishock	2
Bronchorelaxant	2

Activity	Chemical Count
Verrucolytic	2
Soap	2
Antimite	2
CNS-Active	2
Leukotriene-Inhibitor	2
Antidysmenorrhic	2
Beta-Blocker	2
Motor-Stimulant	2
Antileptic	2
Varroacide	2
Antionychotic	2
Respirasensitizer	1
Antimastitic	1
8-HETE-Inhibitor	1
Iodothyronine-Deiodinase-Inhibitor	1
Antidote (Hypoglycin-A)	1
Testosteronigenic	1
Antinitrosating	1
Autotoxic	1
Antiesophagitic	1
Uterorelaxant	1
Renoirritant	1
Antiamblyopic	1
Cardiotoxic	1
Antitumor (Gastric)	1
Antidiarrheic	1
Pheromonal	1

Activity	Chemical Count
Antiintegrase	1
Antiencephalopathic?	1
Uricogenic	1
Antisprue	1
Antiparotitic	1
Antichoreic	1
Diaphoretic	1
Cardiac	1
AntiGTF	1
Surfactant	1
Antinephrolytic	1
Colorant	1
Anaphrodisiac	1
Apifuge	1
MAO-Inhibitor	1
Protease-Inhibitor	1
Depressor	1
Antiakathisic	1
Antitrypanosomic	1
Inhalant	1
Antiglycosuric	1
Epileptigenic	1
Anticytotoxic	1
Antiprostanoid	1
PAF-Inhibitor	1
Antimyalgic	1
Cold-preventive	1

Activity	Chemical Count
Alpha-Reductase-Inhibitor	1
Antixerophthalmic	1
Antiichthyotic	1
Hepatotonic	1
Antisilicotic	1
Anticatarrh	1
Deliriant	1
Antiadrenalinic	1
Ileorelaxant	1
Endocrinactive	1
Anticorneotic	1
Antiprogestational	1
Oxidase-Inhibitor	1
Antimitral-valve-prolapse	1
Antiataxic	1
Aldehyde-Oxidase-Inhibitor	1
Antivaricose	1
Lipolytic	1
Hemostat	1
Antidysphagic	1
Antiseratogenic	1
AntiADD	1
Bradycardiac	1
Hypouricemic	1
Antigallstone	1
Osteogenic	1
Cicatrizant	1

Activity	Chemical Count
Antihydrophobic	1
Antidysenteric	1
Antiscoliotic	1
Pressor	1
Anticarcinomic (Lung)	1
Cytoprotective	1
Mosquitocide	1
Antilaryngitic	1
Antifibrosarcomic	1
DNA-Active	1
Respirotoxic	1
Antipityriasic	1
Anticolonospasmic	1
NO-Scavenger	1
Absorbent	1
Irritant?	1
Antiherpetic?	1
Thymoprotective	1
Pituitary-Stimulant	1
Culicide	1
Antikeratitic	1
Uterotrophic	1
Repellent	1
Antipermeability	1
Anticoeliac	1
Antimange	1
Interferon-Synergist	1

Activity	Chemical Count
Antidote (Acetaminophen)	1
Antiretinopathic	1
Phospholipase-Inhibitor	1
Antineurotic	1
Anticancer (Lung)	1
Astringent	1
Metalloproteinase-Inhibitor	1
Antienterotic	1
Urinary-Acidulant	1
Pyrogenic	1
Anticirrhotic?	1
Differentiator	1
NEP-Inhibitor	1
Cardiomyopathogenic	1
Antitumor (CNS)	1
Febrifuge	1
Sympathomimetic	1
Antipsychotic	1
COMP-Inhibitor	1
Aromatase-Inhibitor	1
MDR-Inhibitor	1
Antispasmodic	1
Protein-Kinase-Inhibitor	1
Antipneumonic	1
Anticholelithic	1
NADH-Oxidase-Inhibitor	1
Antialdosteronic	1

Activity	Chemical Count
Capillariprotective	1
Erythrocytogenic	1
Sucrase-Promoter	1
Pediculicide	1
Antinauseant	1
Antibiotic	1
Amphitensive	1
Lymphocytogenic	1
Antiimplantation	1
Antiemetic?	1
Prostaglandin-Sparer	1
Anticerebrotic	1
Dentifrice	1
Calmodulin-Antagonist	1
Antigliomic	1
Enterocontractant	1
Antimorphinistic	1
Hepatocarcinogenic	1
Trypanocide	1
Antishingles	1
Antiadenomacarcinogenic	1
Bronchoprotectant	1
Mutagenic?	1
Antileukoplakic	1
Vermifuge	1
IkappaB-alpha-Phosphorylation-Inhibitor	1
Emmenagogue	1

Activity	Chemical Count
Sialogogue	1
Oviposition-Stimulant	1
Adjuvant	1
Antiuricosuric	1
Leptogenic	1
Antihyperammonemic	1
Gram(-)-icide	1
Antiscotomic	1
Prolactinogenic	1
Beta-Adrenergic Receptor Blocker	1
Dye	1
Occuloirritant	1
AntiMeniere's	1
Antianoxic	1
Antitumor-Promoter?	1
Glucosyl-Transferase-Inhibitor	1
Antidote (Paracetamol)	1
Polyamine-Synthesis-Inhibitor	1
Anticarcinomic	1
Cytochrome-P450-1A2-Inhibitor	1
Antikeshan	1
Hypoarginanemic	1
Respirapalytic	1
Anticolic	1
Caspase-8-Inducer	1
Testosterone-Inducer	1
Antirheumatalgic	1

Activity	Chemical Count
Phototoxic	1
ATPase-Inhibitor	1
Urine-Deodorant	1
Radioprotective	1
Anticlaudificant?	1
Neurogenic	1
Antialzheimeran?	1
Insulinase-Inhibitor	1
Fistula-Preventive	1
Antidiabetic?	1
Antineurasthenic	1
Anticancer (Duodenum)	1
Arteriodilator	1
Memory-Enhancer	1
Antispasmophilic	1
Anticholinesterase	1
Detoxicant (Alcohol)	1
Natriuretic	1
Antialkalotic	1
Carcinogenic?	1
Antitumor (brain)	1
Antigranular	1
Suppository	1
Antinephritic	1
Collyrium	1
MAO-A-Inhibitor	1
Antiinfective	1

Activity	Chemical Count
Herbistat	1
Prostatitigenic	1
Antioxidant Synergist	1
Antilupus	1
Inflammatory	1
Antiglutamaergic	1
Enterorelaxant	1
Anticystitic	1
Sprout-Inhibitor	1
Antibackache	1
Co-carcinogenic	1
Antivertiliginic	1
Antihypoglycemic	1
Antieicosanoid	1
Deiodinase-Inhibitor	1
Antiadenoviral	1
Bruchifuge	1
IKK-Inhibitor	1
Encephalopathic	1
Sortase-A-Inhibitor	1
Antiporphyrin	1
Aggregant	1
Lipase-Inducer	1
Antihyperkeratotic	1
Hemolytic	1
Antidyspeptic	1
Antiosteosclerotic	1

Activity	Chemical Count
Antiacrodynic	1
Beta-Glucuronidase-Inhibitor	1
Antilethargic	1
Vasoconstrictor	1
Hypotriglyceridemic	1
Antifuruncular	1
Edemagenic	1
Antiarabiflavinotic	1
Cholinergic	1
AChE-Inhibitor	1
Antihomocystinuric	1
Antidrepanocytic	1
Antisclerodermic	1
Anticarcinomic (Colon)	1
Bacteriostatic	1
Antilactobacillic	1
Hypocholesterolemic?	1
Antifibromyalgic	1
Antithrombotic	1
Respirastimulant	1
Anticollagenic	1
Antimeasles	1
Chelator	1
Antidote (Iodine)	1
Antirheumatitic?	1
Antinitrosic	1
Anticancer (Stomach)	1

Activity	Chemical Count
Antiacetylcholine	1
Uterosedative	1
Renotoxic	1
Antiperistaltic	1
Anticoccidioid	1
Anti-amyloid-Beta	1
Cardiovascular	1
12-Lipoxygenase-Inhibitor	1
Insulinotonic	1
Antihemorrhagic	1
Antidiscotic	1
Antiretardation	1
Pheromone	1
Copper-Antagonist	1
Angiogenic	1
Asthma-preventive	1
Histaminic	1
Pulmonoprotective	1
Neoplastic	1
Insectifuge?	1
Antihalitotic	1
Fatal	1
Antidepressant?	1
Peristaltic	1
Antinesidioblastic	1
Comedolytic	1
Anaphylactic	1

Activity	Chemical Count
Mast-Cell-Stabilizer	1
Antiozenic	1
Antichilblain	1
Dermal	1
Antilymphocytic	1
Antitubercular	1
Ergogenic	1
Antiprostadenomic	1
Paralytic	1
Antiberiberi	1
Coleoptophile	1
Amphiglycemic?	1
Lyase-Inhibitor	1
Antielus?	1
Hepatotoxic	1
Antisinusitic	1
Antiototic	1
Demulcent	1
Calcium-Channel-Blocker	1
Antilisteria	1
Energizer	1
Spasmolytic	1
Antiprolactin	1
Ozone-Scavenger	1
Antimorphinic	1
Antiatherogenic	1
CNS-Paralytic	1

Activity	Chemical Count
Antivertigo	1
Antihyperlipoproteinaemic	1
Hemostatic	1
Triglycerigenic	1
AntiAddisonian	1
Bradycardic	1
Antileukonychic	1
ICAM-1-Inhibitor	1
Osteolytic	1
Antimetastatic (Stomach)	1
Circulotonic	1
Addictive	1
Antiuremic	1
Antihyperactivity	1
Gram(+)-icide	1
Antidysgeuzic	1
Antiscorbutic	1
Progesteronigenic	1
Antiorchitic	1
Anticardiospasmic	1
Antiacid	1
Antifibrositic	1
Antithyreotropic	1
Roborant	1
Anticomplementary	1
NO-Synthase-Inhibitor	1
Antianorexic	1

Activity	Chemical Count
JNK-Inhibitor	1
Antihiccup	1
Glaucomagenic	1
Antidote (Mercury)	1
Thyrotropic	1
Antinyctalopic	1
Metastatic	1
Antikeratotic	1
Hypoammonemic	1
Antitachycardic	1
Respirainhibitor	1
Caspase-3-Inducer	1
5-HETE-Inhibitor	1
Antitumor (Ovary)	1
Antihepatoadenomic	1
Fungiphilic	1
Testosterone-Hydroxylase-Inducer	1
Antiretinotic	1
Photosensitizer	1
AntiNF-kB	1
Anticancer (Mammary)	1
Atherogenic	1
Hydrocholerectic	1
Urine-Acidifier	1
Antiperiodontal	1
Anticlastogen	1
Digestive	1

Activity	Chemical Count
Neuroexcitant	1
Insulin-Sparing	1
Antiheartburn	1
Taenicide	1
Antineuramidase	1
COMT-Inhibitor	1
Androgenic?	1
Memorigenic	1
Antiinsomniac?	1
Proteolytic	1
Anticholeretic	1
Antialkali?	1
Antitumor (Bladder)	1
Antigout	1
Antideliriant	1
Antiprostatotic	1
Antineoplastic	1
AntiBPH	1
Analeptic	1
AP-1-Inhibitor	1
Maltase-Promoter	1
Antioxidant (LDL)	1
Antilithic?	1
AntiTourette's	1
Antiglossitic	1
AntiCTS	1
Antiproliferative	1

Activity	Chemical Count
Antibacillary	1
CNS-Toxic	1
Antiviral?	1
Lithogenic	1
Hepatogenic	1
Anticarpal-Tunnel	1
Degranulant	1
Mycobactericide	1
IKB-kinase-Inhibitor	1
Antigastrotic	1
Emollient	1
Antipolyneuritic	1
Ovulant	1
Adrenergic	1
Antivaccinia	1
GST-Inducer	1
Tremorigenic	1
Antiseborrheic	1
Proliferant	1
Antiacrodermatitic	1
Antitic	1
Ecbolic	1
Schizophrenigenic	1
Ophthalmic-Antialkali	1
Cholesterolytic	1
Acetylcholinergic	1
Keratitigenic	1

Activity	Chemical Count
Glutathionergic	1
Antidote (Paraquat)	1
TNF-Inhibitor	1
Antischistosomic	1
Poultice	1
Anticarcinomic (Breast)	1