

Dr. Duke's Phytochemical and Ethnobotanical Database**Biological Activities Found in Piper nigrum**

Activity	Chemical Count
(-)-Chronotropic	3
(-)-Inotropic	3
11B-HSD-Inhibitor	2
5-Alpha-Reductase-Inhibitor	5
5-HT-Inhibitor	1
5-Lipoxygenase-Inhibitor	2
Abortifacient	2
Absorbent	1
Acaricide	10
Acarifuge	1
ACE-Inhibitor	8
AChE-Inhibitor	1
Acidulant	2
Acnegenic	1
Adrenergic	1
AHH-Inhibitor	1
Aldehyde-Oxidase-Inhibitor	2
Aldose-Reductase-Inhibitor	19

Activity	Chemical Count
Allelochemic	6
Allelopathic	7
Allergenic	25
Allergenic?	1
Alpha-Reductase-Inhibitor	1
Amphetaminagenic	1
Amphiglycemic?	1
Analeptic	2
Analgesic	14
Androgenic	2
Androgenic?	1
Anemiagenic	1
Anesthetic	13
Angiogenic	1
Angiotensin-Receptor-Blocker	3
Anorexic	1
Anthelmintic	4
Antiacetylcholine	1
Antiacetylcholinesterase	13
Antiacne	12

Activity	Chemical Count
Antiacrodermatitic	1
Antiacrodynamic	1
Antiadenomic	2
Antiadenoviral	1
Antiadrenalinic	1
Antiaflatoxin	4
AntiAGE	2
Antiaggregant	11
Antiaging	6
Antiakathisic	1
Antialcoholic	4
Antiallergenic	1
Antiallergic	11
Antialopepic	4
Antialzheimeran	7
Antialzheimeran?	2
Antiamblyopic	2
Antianaphylactic	4
Antiandrogenic	4
Antianemic	3

Activity	Chemical Count
Antianginal	4
Antiangiogenic	2
Antianorectic	2
Antianorexic	1
Antianxiety	2
Antiapoplectic	1
Antiarabiflavinotic	1
Antiarachidonate	1
Antiarrhythmic	4
Antiarteriosclerotic	1
Antiarthritic	11
Antiasthmatic	10
Antiatherogenic	2
Antiatherosclerotic	8
Antibacillary	1
Antibackache	1
Antibacterial	44
Antiberiberi	1
AntiBPH	1
Antibronchitic	3

Activity	Chemical Count
Anticancer	13
Anticancer (Breast)	2
Anticancer (Cervix)	2
Anticancer (Gastric)	1
Anticancer (Lung)	1
Anticanker	3
Anticapillary-Fragility	2
Anticarcinogenic	1
Anticarcinomic	1
Anticarcinomic (Breast)	1
Anticardiospasmic	1
Anticariogenic	9
Anticarpal-Tunnel	1
Anticataract	9
Anticatarrh	2
Anticephalagic	3
Anticerebrotic	1
Anticervicaldysplasic	3
AntiCFS	3
Anticheilitic	2

Activity	Chemical Count
Antichilblain	1
Anticholinesterase	2
Anticholinesterase?	1
Antichoreic	2
Anticirrhotic	1
Anticirrhotic?	1
Anticlastogen	3
Anticlimacteric	3
Anticoeliac	1
Anticold	2
Anticolic	1
Anticolitic	3
Anticomplementary	1
Anticonvulsant	11
Anticorneotic	1
Anticoronary	4
AntiCrohn's	3
AntiCTS	1
AntiCVI	1
Anticystinuric	1

Activity	Chemical Count
Anticystitic	1
Antidandruff	2
Antidecubitic	3
Antideliriant	1
Antidementia	7
Antidepressant	7
Antidermatitic	5
Antidiabetic	12
Antidiarrheic	1
Antidiscotic	1
Antidiuretic	2
Antidote (Aluminum)	2
Antidote (Cadmium)	2
Antidote (Iodine)	1
Antidote (Lead)	3
Antidote (Paraquat)	1
Antidote (Strychnine)	1
Antidysenteric	1
Antidysgeuzic	1
Antidyskinetic	2

Activity	Chemical Count
Antidysmenorrhic	1
Antidyspeptic	1
Antidysphagic	1
Antieczemic	3
Antiedemic	10
Antielastase	4
Antiemetic	1
Antiencephalitic	2
Antiencephalopathic	2
Antiendometriotic	2
Antienterotic	1
Antienzymatic	1
Antiepileptic	4
Antierythemic	1
Antiescherichic	3
Antiesophagitic	1
Antiestrogenic	3
Antifatigue	8
Antifeedant	16
Antifertility	4

Activity	Chemical Count
Antifibrinolytic	2
Antifibromyalgic	1
Antifibrosarcomic	1
Antifibrositic	1
Antifibrotic	2
Antiflu	7
Antifuruncular	1
Antigallstone	1
Antigastric	1
Antigastritic	2
Antigastrotic	1
Antigenotoxic	1
Antigingivitic	3
Antiglaucomic	3
Antigliomic	1
Antiglossitic	1
Antiglucuronidase	1
Antiglutamaergic	1
Antiglycosuric	1
Antigoiter	1

Activity	Chemical Count
Antigonadotropic	1
Antigonadotropic	2
Antigranular	1
Antigrey	1
AntiGTF	1
Antihalitotic	2
Antihangover	4
Antiheartburn	1
Antihelicobacter	2
Antihematuric	1
Antihemolytic	1
Antihemorrhagic	2
Antihemorrhoidal	1
Antihepatitic	1
Antihepatoadenomic	1
Antihepatotoxic	8
Antiherpetic	10
Antiherpetic?	1
Antihistaminic	9
AntiHIV	3

Activity	Chemical Count
Antihomocysteine	1
Antihydrophobic	1
Antihyperactivity	1
Antihypercholesterolemic	1
Antihyperkeratotic	1
Antihyperkinetic	2
Antihyperlipoproteinaemic	1
Antihypertensive	9
Antihyperthyroid	1
Antihypoglycemic	1
Antiichthyotic	1
Antiileus	1
Antiimplantation	2
Antiimpotence	1
Antiinfarctal	1
Antiinfective	1
Antiinfertility	3
Antiinflammatory	35
Antiinsomniac	4
Antiinsomnic	1

Activity	Chemical Count
Antiischemic	3
Antikeratitic	1
Antikeratotic	1
Antilaryngitic	2
AntiLegionella	1
Antileishmanic	4
Antileptic	2
Antilethargic	1
Antileukemic	7
Antileukonychic	1
Antileukoplakic	1
Antileukotriene	2
Antileukotriene-D4	3
Antilipoperoxidant	2
Antilithic	3
Antilithic?	1
Antilupus	1
AntiLyme	5
Antilymphocytic	1
Antilymphomic	4

Activity	Chemical Count
Antimaculitic	4
Antimalarial	7
Antimange	1
Antimanic	1
Antimastalgic	1
Antimastitic	1
Antimeasles	1
Antimelanogenic	1
Antimelanomic	5
AntiMeniere's	1
Antimenopausal	3
Antimenorrhagic	3
Antimetastatic	4
Antimetastatic (Stomach)	1
Antimigraine	4
Antimite	1
Antimitotic	1
Antimitral-valve-prolapse	1
AntiMS	2
Antimutagenic	16

Activity	Chemical Count
Antimyocarditic	2
Antinarcotic	1
Antinephritic	1
Antinephrolytic	1
Antinesidioblastosic	1
Antineuralgic	3
Antineuramidase	1
Antineurasthenic	1
Antineuritic	1
Antineuropathic	3
Antineurotic	1
Antinitrosaminic	6
Antinitrosating	1
Antinitrosic	1
Antinociceptive	11
Antinyctalopic	1
Antiobesity	6
Antionychyotic	1
Antiophidic	3
Antiorchitic	1

Activity	Chemical Count
Antiosteoarthritic	3
Antiosteoporotic	9
Antiosteosclerotic	1
Antiotitic	2
Antiototic	1
Antioxidant	33
Antioxidant (LDL)	1
Antiozenic	1
Antipancreatic	1
Antipapillomic	1
Antiparkinsonian	3
Antiparotitic	1
Antipellagic	2
Antiperiodontal	1
Antiperiodontic	1
Antiperiodontitic	4
Antiperistaltic	1
Antipermeability	1
Antiperoxidant	4
Antipharyngitic	3

Activity	Chemical Count
Antiphotophobic	2
Antipityriasic	1
Antiplatelet	7
Antiplasmodial	7
Antiplatelet	1
AntiPMS	5
Antipneumonic	2
Antipodriac	2
Antipolio	1
Antipoliomyelitic	2
Antiporphyrin	1
Antiprogestational	1
Antiprolactin	1
Antiproliferant	7
Antiproliferative	2
Antiprostaglandin	4
Antiprostanoid	1
Antiprostataadenomic	1
Antiprostatic	5
Antiprostatotic	1

Activity	Chemical Count
Antiprotozoal	1
Antipruritic	1
Antipsoriac	2
Antipurpuric	2
Antipyretic	7
Antiradicular	14
AntiRaynaud's	3
Antiretinopathic	1
Antiretinotic	2
Antirheumatalgic	1
Antirheumatic	7
Antirhinitic	3
Antirhinoviral	2
Antisalmonella	3
Antiscorbutic	1
Antiscotomic	1
Antiseborrheic	1
Antiseptic	30
Antiserotonin	1
Antishingles	1

Activity	Chemical Count
Antishock	2
Antisinusitic	2
Antispare-Tire	1
Antispasmodic	29
Antispasmophilic	1
Antistaphylococcic	14
Antisteatotic	1
Antistomatitic	2
Antistreptococcic	7
Antistress	6
Antistroke	3
AntiSubstance-P	1
Antisunburn	2
Antisyndrome-X	5
Antitachycardic	1
Antithiamin	2
Antithrombic	1
Antithrombogenic	2
Antithromboxane	1
Antithyroid	2

Activity	Chemical Count
Antithyrototoxic	1
Antitic	1
Antitinnitic	2
AntiTNF	1
Antitriglyceride	2
Antitrypanosomic	2
Antitumor	18
Antitumor (Bladder)	2
Antitumor (Breast)	5
Antitumor (Cervix)	2
Antitumor (CNS)	1
Antitumor (Colon)	4
Antitumor (Gastric)	2
Antitumor (Liver)	1
Antitumor (Lung)	4
Antitumor (Ovary)	1
Antitumor (Pancreas)	1
Antitumor (Prostate)	3
Antitumor (Skin)	3
Antitumor (Stomach)	3

Activity	Chemical Count
Antitumor-Promoter	8
Antitussive	5
Antiulcer	19
Antiulcerogenic	1
Antiuricosuric	1
Antivaccinia	1
Antivaricose	1
Antivertigo	1
Antiviral	20
Antiviral?	1
Antiwrinkle	1
Antixerophthalmic	1
Antiyeast	2
Anxiolytic	6
Apifuge	1
Apoptotic	11
Aromatase-Inhibitor	1
Artemicide	2
Aryl-Hydrocarbon-Hydroxylase-Inhibitor	1
Asthma-preventive	1

Activity	Chemical Count
Astringent	1
ATPase-Inhibitor	1
ATPase-Stimulant	1
Bacteriostatic	1
Bacteristat	1
Barbituate-Synergist	2
Beta-Adrenergic Receptor Blocker	1
Beta-Blocker	2
Beta-Glucuronidase-Inhibitor	1
Bradycardiac	1
Bronchoprotectant	1
Bronchorelaxant	2
Bruchifuge	1
Calcium-Antagonist	9
Calcium-Channel-Blocker	1
Calmodulin-Antagonist	1
cAMP-Inhibitor	1
cAMP-Phosphodiesterase-Inhibitor	3
Cancer-Preventive	36
Candidicide	14

Activity	Chemical Count
Candidistat	3
Capillarifortificant	1
Capillarigenic	2
Capillariprotective	2
Carcinogenic	10
Carcinogenic?	1
Cardiodepressant	2
Cardiomyopathogenic	1
Cardioprotective	8
Cardiotonic	2
Cardiotoxic	1
Cardiovascular	1
Carminative	7
Caspase-3-Inducer	1
Caspase-8-Inducer	1
Catabolic	2
Catecholaminogenic	1
Cerebrostimulant	1
Cerebrotonic	1
Chemopreventive	8

Activity	Chemical Count
Cholagogue	1
Choleretic	11
Cholesterolytic	1
Cholinergic	1
Cicatrizant	1
Circulotonic	2
Clastogenic	1
CNS-Active	1
CNS-Depressant	7
CNS-Inhibitor	1
CNS-Paralytic	1
CNS-Stimulant	7
CNS-Toxic	1
Co-carcinogenic	1
Cold-preventive	1
Coleoptophile	1
Collagen-Sparing	1
Collagenic	2
Colorant	1
Comedogenic	1

Activity	Chemical Count
Comedolytic	1
COMT-Inhibitor	1
Contraceptive	1
Controlled	1
Convulsant	3
Copper-Antagonist	1
Copper-Chelator	2
Cosmetic	5
Counterirritant	3
COX-1-Inhibitor	5
COX-2-Inhibitor	6
Culicide	1
Cyclooxygenase-Activator	2
Cyclooxygenase-Inhibitor	5
Cytochrome-P450-1A2-Inhibitor	1
Cytochrome-P450-Inducer	4
Cytochrome-P450-Inhibitor	1
Cytochrome-P488-Inducer	1
Cytoprotective	2
Cytotoxic	7

Activity	Chemical Count
Decongestant	3
Degranulant	2
Deiodinase-Inhibitor	1
Deliriant	1
Dentifrice	2
Deodorant	2
Dermal	1
Dermatitigenic	5
Detoxicant	3
Detoxicant (Alcohol)	1
Diaphoretic	4
Diaphoretic?	3
Differentiator	2
Diuretic	14
DNA-Active	1
DNA-Binder	2
DNA-Protective	1
Dye	2
Ecbolic	1
Edemagenic	2

Activity	Chemical Count
Embryotoxic	1
Emetic	2
Emollient	1
Endorphinogenic	1
Energizer	1
Enterocontractant	1
Enterorelaxant	2
Epileptigenic	1
Epinephrinergic	1
Ergogenic	1
Erythrocytogenic	1
Estrogenic	6
Estrogenic?	1
Expectorant	12
Fatal	1
Febrifuge	1
Fibrinolytic	1
Fistula-Preventive	1
FLavor	46
Fungicide	31

Activity	Chemical Count
Fungiphilic	1
Fungistat	3
GABA-nergic	1
Gastroprotective	4
Glaucomagenic	1
Glucosyl-Transferase-Inhibitor	1
Glutathionigenic	1
Goitrogenic	1
Gonadotrophic	1
Gram(+)-icide	2
Gram(-)-icide	2
GST-Inducer	1
Hallucinogenic	1
Hemolytic	1
Hemostat	3
Hemostatic	1
Hepatocarcinogenic	2
Hepatomagenic	2
Hepatoprotective	13
Hepatoregenerative	2

Activity	Chemical Count
Hepatotonic	3
Hepatotoxic	3
Hepatotropic	2
Herbicide	15
Hirudicide	1
Histamine-Inhibitor	1
Histaminic	2
HIV-RT-Inhibitor	2
Hypercholesterolemic	3
Hyperglycemic	1
Hypertensive	2
Hyperthyroid	1
Hypnotic	3
Hypocholesterolemic	16
Hypocholesterolemic?	1
Hypoglycemic	8
Hypolipidemic	2
Hypotensive	21
Hypothermic	4
Hypouricemic	1

Activity	Chemical Count
ICAM-1-Inhibitor	1
Ileorelaxant	1
Immunomodulator	9
Immunostimulant	8
Immunosuppressant	1
Inflammatory	2
Inhalant	1
iNOS-Inhibitor	2
Inotropic	2
Insect-Repellent	2
Insecticide	14
Insecticide-Synergist	1
Insectifuge	31
Insectiphile	6
Insulin-Sparing	1
Insulinogenic	4
Interferon-Synergist	1
Interferonogenic	1
Interleukin-6-Inhibitor	2
Iodothyronine-Deiodinase-Inhibitor	1

Activity	Chemical Count
Irritant	24
JNK-Inhibitor	1
Juvabional	3
Keratolytic	1
Larvicide	4
Larvostat	2
Laxative	7
Leptingenic	1
Leukotriene-Inhibitor	1
Lipolytic	1
Lipotropic	1
Lipoxygenase-Inhibitor	6
Lithogenic	1
Litholytic	2
Lubricant	3
Lyase-Inhibitor	1
Lymphocytogenic	1
MAO-A-Inhibitor	2
MAO-Inhibitor	3
Mast-Cell-Stabilizer	1

Activity	Chemical Count
Memorigenic	2
Metal-Chelator	1
Metal-Chelator (Copper)	1
Metalloproteinase-Inhibitor	1
Metastatic	1
Miotic	1
MMP-9-Inhibitor	1
Mosquitocide	1
Mosquitofuge	2
Motor-Depressant	6
Mucogenic	2
Mucolytic	1
Mutagenic	7
Mutagenic?	1
Myocontractant	2
Myopic	1
Myoprotective	1
Myorelaxant	11
Myotonic	1
NADH-Oxidase-Inhibitor	1

Activity	Chemical Count
Narcotic	1
Natriuretic	1
Nematicide	23
Nematostat	1
NEP-Inhibitor	1
Nephrotoxic	1
Neuroinhibitor	1
Neuroprotective	3
Neurotoxic	6
Neurotransmitter	3
NF-kB-Inhibitor	3
NO-Genic	1
NO-Inhibitor	3
NO-Synthase-Inhibitor	1
Occuloirritant	1
Ornithine-Decarboxylase-Inhibitor	3
Osteogenic	1
Oviposition-Stimulant	1
Ovulant	1
Oxytocic	1

Activity	Chemical Count
Ozone-Scavenger	1
P450-2B1-Inhibitor	7
P450-Inducer	6
P450-Inhibitor	2
PAF-Inhibitor	2
Paralytic	2
Parasiticide	2
Parasympathomimetic	2
Pediculicide	4
Percutaneostimulant	1
Perfume	2
Perfumery	42
Peristaltic	3
Pesticide	62
PGE2-Inhibitor	1
Phagocytotic	2
Pheromone	1
Phospholipase-Inhibitor	1
Photosensitizer	1
Phytoalexin	1

Activity	Chemical Count
Plasmodicide	1
Poultice	1
Proliferant	1
Prooxidant	4
Propepic	5
Prostaglandigenic	2
Prostaglandin-Inhibitor	1
Prostaglandin-Synthesis-Inhibitor	4
Prostatitigenic	1
Protein-Kinase-C-Inhibitor	1
Protisticide	3
Psychoactive	2
PTK-Inhibitor	1
Quinone-Reductase-Inducer	3
Radioprotective	1
Renoirritant	1
Renotoxic	1
Respirainhibitor	1
Respirastimulant	1
Respirostimulant	1

Activity	Chemical Count
Rubefacient	3
Scabicide	1
Schizophrenigenic	1
Secretagogue	3
Sedative	23
Serotoninerpic	3
Sialogogue	1
Soap	1
Soporific	1
Spasmogenic	7
Spermicide	2
Spermigenic	2
Spinoconvulsant	1
Stimulant	2
Stomachic	1
Sunscreen	2
Suppository	1
Surfactant	2
Tachycardic	1
Teratogenic	2

Activity	Chemical Count
Teratologic	2
Termiticide	3
Termitifuge	2
Testosterone-Hydroxylase-Inducer	2
Testosterone-Inducer	1
Testosteronigenic	1
Thermogenic	1
Thymoprotective	1
Thyrostimulant	1
Thyrotropic	1
Tissue-Thromboplastin-Inhibitor	1
TNF-alpha-Inhibitor	3
Topoisomerase-I-Inhibitor	2
Topoisomerase-II-Inhibitor	4
Tracheorelaxant	1
Tranquilizer	5
Transdermal	7
Tremorigenic	1
Trichomonicide	10
Trichomonistat	1

Activity	Chemical Count
Trypanocide	1
Trypsin-Enhancer	1
Tumor-Promoter	1
Tumorigenic	2
Tyrosinase-Inhibitor	6
Tyrosine-Kinase-Inhibitor	1
Ubiquiot	2
Ulcerogenic	2
Urate-Solvent	1
Uricosuric	3
Urinary-Acidulant	1
Uterorelaxant	1
Uterotonic	1
Uterotrophic	1
Varroacide	2
Vasodilator	12
Vasopressor	2
VEGF-Inhibitor	2
Vermicide	1
Vermifuge	3

Activity	Chemical Count
Verrucolytic	1
Vibriocide	2
Vulnerary	6
Xanthine-Oxidase-Inhibitor	3