

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in *Magnolia officinalis*

| Activity | Chemical Count |
|------------------------------|----------------|
| (-)-Chronotropic | 1 |
| (-)-Inotropic | 1 |
| 11B-HSD-Inhibitor | 2 |
| 5-Lipoxygenase-Inhibitor | 2 |
| ACE-Inhibitor | 1 |
| Aldehyde-Oxidase-Inhibitor | 1 |
| Aldose-Reductase-Inhibitor | 3 |
| Allelochemic | 3 |
| Allelopathic | 1 |
| Allergenic | 4 |
| Analgesic | 4 |
| Angiotensin-Receptor-Blocker | 1 |
| Antiacetyltransferase | 1 |
| Antiacne | 2 |
| Antiacrodermatitic | 1 |
| Antiadenoviral | 1 |
| Antiaflatoxin | 2 |
| Antiaggregant | 5 |
| Antiaging | 2 |
| Antiakathisic | 1 |
| Antialcoholic | 3 |
| Antiallergic | 3 |
| Antialopepic | 1 |
| Antialzheimeran | 2 |
| Antianaphylactic | 1 |
| Antianemic | 3 |
| Antianginal | 1 |

| Activity | Chemical Count |
|-------------------------|----------------|
| Antiangiogenic | 2 |
| Antianorectic | 1 |
| Antianorexic | 1 |
| Antianoxic | 1 |
| Antianxiety | 2 |
| Antiarrhythmic | 3 |
| Antiarthritic | 6 |
| Antiasthmatic | 2 |
| Antiatherogenic | 1 |
| Antiatherosclerotic | 3 |
| Antibacterial | 11 |
| AntiBPH | 1 |
| Anticancer | 2 |
| Anticanker | 2 |
| Anticarcinogenic | 1 |
| Anticarcinomic (Breast) | 1 |
| Anticariogenic | 3 |
| Anticataract | 2 |
| Anticephalagic | 1 |
| AntiCFS | 1 |
| Anticheilitic | 1 |
| Anticlimacteric | 2 |
| Anticoeliac | 1 |
| Anticold | 1 |
| Anticolitic | 2 |
| Anticomplementary | 1 |
| Anticonvulsant | 3 |

| Activity | Chemical Count |
|---------------------|----------------|
| Anticoronary | 2 |
| AntiCrohn's | 2 |
| Anticystitic | 1 |
| Antidandruff | 1 |
| Antidementia | 1 |
| Antidepressant | 5 |
| Antidermatitic | 1 |
| Antidermatophytic | 1 |
| Antidiabetic | 5 |
| Antidiscotic | 1 |
| Antidote (Aluminum) | 1 |
| Antidote (Cadmium) | 1 |
| Antidote (Lead) | 1 |
| Antidysgeuzic | 1 |
| Antidyskinetic | 1 |
| Antidysmenorrheic | 1 |
| AntiEBV | 1 |
| Antieczemic | 1 |
| Antiedemic | 1 |
| Antielastase | 2 |
| Antiemetic | 1 |
| Antiencephalitic | 1 |
| Antiencephalopathic | 1 |
| Antiendometriotic | 1 |
| Antienterotic | 1 |
| Antiepileptic | 3 |
| Antiescherichic | 2 |

| Activity | Chemical Count |
|--------------------------|----------------|
| Antiestrogenic | 1 |
| Antifatigue | 3 |
| Antifeedant | 4 |
| Antifertility | 1 |
| Antifibromyalgic | 1 |
| Antifibrosarcomic | 1 |
| Antifibrotic | 1 |
| Antiflu | 3 |
| Antifuruncular | 1 |
| Antigastric | 1 |
| Antigastrotic | 1 |
| Antigingivitic | 1 |
| Antiglaucomic | 1 |
| Antigonadotropic | 2 |
| AntiGTF | 1 |
| Antihangover | 1 |
| Antihemolytic | 1 |
| Antihepatoadenomic | 1 |
| Antihepatotoxic | 2 |
| Antiherpetic | 3 |
| Antiherpetic? | 1 |
| Antihistaminic | 3 |
| AntiHIV | 3 |
| Antihydrophobic | 1 |
| Antihypercholesterolemic | 1 |
| Antihyperkinetic | 2 |
| Antihypertensive | 4 |

| Activity | Chemical Count |
|--------------------|----------------|
| Antihyperthyroid | 1 |
| Antihypoglycemic | 1 |
| Antiimplantation | 1 |
| Antiimpotence | 1 |
| Antiinfective | 1 |
| Antiinfertility | 1 |
| Antiinflammatory | 7 |
| Antiinsomniac | 3 |
| AntiLegionella | 1 |
| Antileishmanic | 1 |
| Antileptic | 1 |
| Antileukemic | 4 |
| Antileukonychic | 1 |
| Antileukotriene | 2 |
| Antilipoperoxidant | 1 |
| Antilithic | 1 |
| Antilithic? | 1 |
| AntiLyme | 1 |
| Antilymphocytic | 1 |
| Antilymphomic | 1 |
| Antimaculitic | 1 |
| Antimalarial | 1 |
| Antimastalgic | 1 |
| Antimelanogenic | 1 |
| Antimelanomic | 1 |
| Antimenopausal | 2 |
| Antimenorrhagic | 1 |

| Activity | Chemical Count |
|---------------------------|----------------|
| Antimetastatic | 2 |
| Antimigraine | 1 |
| Antimitral-valve-prolapse | 1 |
| AntiMS | 1 |
| Antimutagenic | 4 |
| Antimyocarditic | 1 |
| Antinephrolytic | 1 |
| Antineuromuscular | 1 |
| Antineuropathic | 1 |
| Antineurotic | 1 |
| Antinitrosaminic | 2 |
| Antinociceptive | 2 |
| Antinyctalopic | 1 |
| Antiobesity | 2 |
| Antiophidic | 1 |
| Antiosteoporotic | 5 |
| Antiototic | 1 |
| Antioxidant | 8 |
| Antipancreatic | 1 |
| Antipeptic | 1 |
| Antiperiodontal | 1 |
| Antiperiodontic | 1 |
| Antiperiodontitic | 2 |
| Antiperistaltic | 1 |
| Antipermeability | 1 |
| Antiperoxidant | 2 |
| Antipharyngitic | 1 |

| Activity | Chemical Count |
|--------------------|----------------|
| Antiplateque | 4 |
| Antiplasmodial | 1 |
| AntiPMS | 4 |
| Antipneumonic | 1 |
| Antipodriac | 1 |
| Antipolio | 1 |
| Antiprolactin | 1 |
| Antiproliferant | 2 |
| Antiprostaglandin | 1 |
| Antiprostanoid | 1 |
| Antiprostatic | 2 |
| Antipsoriac | 1 |
| Antiradicular | 4 |
| AntiRaynaud's | 1 |
| Antiretinopathic | 1 |
| Antirheumatic | 2 |
| Antisalmonella | 1 |
| Antiseptic | 7 |
| Antiserotonin | 1 |
| Antispare-Tire | 1 |
| Antispasmodic | 9 |
| Antispasmophilic | 1 |
| Antistaphylococcic | 3 |
| Antistomatitic | 2 |
| Antistreptococcic | 1 |
| Antistress | 2 |
| Antistroke | 2 |

| Activity | Chemical Count |
|---------------------|----------------|
| Antisunburn | 1 |
| Antisyndrome-X | 3 |
| Antithiamin | 2 |
| Antithrombic | 1 |
| Antithyroid | 1 |
| Antitic | 1 |
| Antitinnitic | 1 |
| Antitriglyceride | 1 |
| Antitrypanosomic | 1 |
| Antitumor | 4 |
| Antitumor (Bladder) | 1 |
| Antitumor (Breast) | 1 |
| Antitumor (Colon) | 1 |
| Antitumor (Lung) | 1 |
| Antitumor (Ovary) | 1 |
| Antitumor (Skin) | 2 |
| Antitumor-Promoter | 5 |
| Antitumor-Promoter? | 1 |
| Antiulcer | 4 |
| Antiulcerogenic | 1 |
| Antivaccinia | 1 |
| Antiviral | 5 |
| Antiviral? | 1 |
| Anxiolytic | 5 |
| Apoptotic | 2 |
| Aromatase-Inhibitor | 1 |
| Artemicide | 1 |

| Activity | Chemical Count |
|----------------------------------|----------------|
| Astringent | 1 |
| ATPase-Inhibitor | 1 |
| Attifuge | 1 |
| Bacteristat | 1 |
| Beta-Blocker | 1 |
| Bradycardiac | 1 |
| Calcium-Antagonist | 5 |
| Calcium-Channel-Blocker | 1 |
| Calmodulin-Antagonist | 1 |
| cAMP-Phosphodiesterase-Inhibitor | 2 |
| Cancer-Preventive | 4 |
| Candidicide | 4 |
| Capillariprotective | 1 |
| Carcinogenic | 3 |
| Cardioprotective | 3 |
| Cardiotoxic | 1 |
| Catabolic | 1 |
| Chemopreventive | 1 |
| Cholagogue | 1 |
| Choleretic | 2 |
| Clastogenic | 1 |
| CNS-Active | 1 |
| CNS-Depressant | 4 |
| CNS-Inhibitor | 1 |
| Co-carcinogenic | 1 |
| Coleoptophile | 1 |
| Collagen-Sparing | 1 |

| Activity | Chemical Count |
|--------------------------------------|----------------|
| Collagenic | 1 |
| COMT-Inhibitor | 1 |
| Contraceptive | 1 |
| Copper-Antagonist | 1 |
| Copper-Chelator | 2 |
| COX-2-Inhibitor | 3 |
| Curaroid | 1 |
| Cyclooxygenase-Inhibitor | 2 |
| Cytochrome-P450-1A2-Inhibitor | 1 |
| Cytoprotective | 1 |
| Cytotoxic | 5 |
| Deiodinase-Inhibitor | 1 |
| Deodorant | 1 |
| Detoxicant (Alcohol) | 1 |
| Diaphoretic? | 2 |
| Differentiator | 1 |
| Diuretic | 5 |
| DNA-Active | 1 |
| DNA-Protective | 1 |
| Dopamine-Adenylate-Cyclase-Inhibitor | 1 |
| Enterorelaxant | 1 |
| Ergogenic | 1 |
| Estrogenic | 2 |
| Expectorant | 3 |
| FLavor | 4 |
| Fungicide | 7 |
| Fungistat | 1 |

| Activity | Chemical Count |
|------------------------------------|----------------|
| Glucosyl-Transferase-Inhibitor | 1 |
| Hemostat | 1 |
| Hepatocarcinogenic | 1 |
| Hepatomagenic | 1 |
| Hepatoprotective | 4 |
| Hepatotropic | 1 |
| Herbicide | 2 |
| Histamine-Inhibitor | 1 |
| HIV-RT-Inhibitor | 2 |
| Hypertensive | 1 |
| Hypocholesterolemic | 3 |
| Hypocholesterolemic? | 1 |
| Hypoglycemic | 2 |
| Hypotensive | 7 |
| ICAM-1-Inhibitor | 1 |
| Immunomodulator | 3 |
| Immunostimulant | 2 |
| Immunosuppressant | 1 |
| iNOS-Inhibitor | 2 |
| Inotropic | 2 |
| Insecticide | 2 |
| Insectifuge | 6 |
| Insectiphile | 1 |
| Insulinogenic | 3 |
| Iodothyronine-Deiodinase-Inhibitor | 1 |
| Irritant | 2 |
| JNK-Inhibitor | 1 |

| Activity | Chemical Count |
|-----------------------------|----------------|
| Juvabional | 1 |
| Larvicide | 2 |
| Larvostat | 1 |
| Laxative | 2 |
| Leptogenic | 1 |
| Leukotriene-Inhibitor | 1 |
| Lipoxygenase-Inhibitor | 3 |
| Litholytic | 1 |
| Lyase-Inhibitor | 1 |
| MAO-A-Inhibitor | 1 |
| MAO-Inhibitor | 1 |
| Mast-Cell-Stabilizer | 1 |
| Metal-Chelator | 1 |
| Metal-Chelator (Copper) | 2 |
| Metalloproteinase-Inhibitor | 1 |
| MMP-9-Inhibitor | 1 |
| Mucogenic | 1 |
| Mutagenic | 2 |
| Mycoplasmicide | 1 |
| Myorelaxant | 5 |
| NADH-Oxidase-Inhibitor | 1 |
| Natriuretic | 1 |
| NEP-Inhibitor | 1 |
| Neurogenic | 1 |
| Neuroprotective | 2 |
| Neurotransmitter | 1 |
| NF-kB-Inhibitor | 2 |

| Activity | Chemical Count |
|-----------------------------------|----------------|
| NO-Inhibitor | 2 |
| NO-Synthase-Inhibitor | 1 |
| Ornithine-Decarboxylase-Inhibitor | 2 |
| P450-2B1-Inhibitor | 1 |
| P450-Inducer | 1 |
| P450-Inhibitor | 1 |
| PAF-Inhibitor | 2 |
| Paralytic | 1 |
| Perfumery | 2 |
| Pesticide | 17 |
| PGE2-Inhibitor | 1 |
| Phospholipase-Inhibitor | 1 |
| Pigment | 1 |
| Plasmodicide | 1 |
| Proliferant | 1 |
| Prooxidant | 3 |
| Prostaglandigenic | 1 |
| Prostaglandin-Synthesis-Inhibitor | 1 |
| Protein-Kinase-C-Inhibitor | 1 |
| Protisticide | 1 |
| PTK-Inhibitor | 1 |
| Quinone-Reductase-Inducer | 2 |
| Schizophrenigenic | 1 |
| Sedative | 6 |
| Spasmogenic | 3 |
| Spermigenic | 1 |
| Sunscreen | 1 |

| Activity | Chemical Count |
|----------------------------|----------------|
| Teratologic | 2 |
| Testosteronigenic | 1 |
| TNF-alpha-Inhibitor | 2 |
| Topoisomerase-I-Inhibitor | 2 |
| Topoisomerase-II-Inhibitor | 3 |
| Toxic | 1 |
| Tranquilizer | 3 |
| Transdermal | 2 |
| Trichomonicide | 1 |
| Tumorigenic | 2 |
| Tyrosinase-Inhibitor | 2 |
| Tyrosine-Kinase-Inhibitor | 1 |
| Uterorelaxant | 1 |
| Uterotrophic | 1 |
| Vasodilator | 7 |
| VEGF-Inhibitor | 1 |
| Vulnerary | 2 |
| Xanthine-Oxidase-Inhibitor | 2 |