

Dr. Duke's Phytochemical and Ethnobotanical Databases
Biological Activities found in *Monarda didyma*

| Activity | Chemical Count |
|----------------------------|-----------------------|
| Pesticide | 25 |
| FLavor | 22 |
| Antibacterial | 19 |
| Perfumery | 16 |
| Insectifuge | 16 |
| Antispasmodic | 13 |
| Antiinflammatory | 13 |
| Sedative | 12 |
| Antioxidant | 12 |
| Fungicide | 11 |
| Irritant | 11 |
| Candidicide | 10 |
| Antiseptic | 9 |
| Allergenic | 9 |
| Herbicide | 8 |
| Antiacetylcholinesterase | 8 |
| Cancer-Preventive | 8 |
| Antiviral | 8 |
| Expectorant | 8 |
| Antistaphylococcic | 7 |
| Aldose-Reductase-Inhibitor | 7 |
| Insecticide | 7 |
| Antifeedant | 7 |
| Nematicide | 7 |
| Myorelaxant | 6 |
| Antimutagenic | 6 |
| Analgesic | 5 |

| Activity | Chemical Count |
|------------------|----------------|
| Antiradicular | 5 |
| Spasmogenic | 5 |
| Transdermal | 5 |
| Acaricide | 5 |
| Anticariogenic | 5 |
| Trichomonicide | 5 |
| Antiplaque | 4 |
| Hepatoprotective | 4 |
| Anthelmintic | 4 |
| ACE-Inhibitor | 4 |
| Antitumor | 4 |
| Antialzheimeran? | 4 |
| Antiulcer | 4 |
| Allelochemic | 4 |
| Anticancer | 4 |
| Choleretic | 4 |
| Anesthetic | 4 |
| (-)-Inotropic | 3 |
| Antialzheimeran | 3 |
| Antiacne | 3 |
| Antiherpetic | 3 |
| Antitussive | 3 |
| CNS-Stimulant | 3 |
| Antibronchitic | 3 |
| Antiescherichic | 3 |
| Apoptotic | 3 |
| AntiHIV | 3 |

| Activity | Chemical Count |
|--------------------------|----------------|
| Allelopathic | 3 |
| Antinitrosaminic | 3 |
| Immunomodulator | 3 |
| Antiatherosclerotic | 3 |
| (-)-Chronotropic | 3 |
| Hypoglycemic | 3 |
| Antihepatotoxic | 3 |
| Antioxidant (LDL) | 3 |
| Insectiphile | 3 |
| Antisalmonella | 3 |
| P450-2B1-Inhibitor | 3 |
| Antilymphomic | 3 |
| Antipyretic | 3 |
| Antiedemic | 3 |
| Antileukemic | 3 |
| Antiprostaglandin | 3 |
| Anticholinesterase | 3 |
| Antitumor (Breast) | 3 |
| Antimelanomic | 3 |
| Antiaggregant | 3 |
| Cyclooxygenase-Inhibitor | 3 |
| Antiflu | 3 |
| Neuroprotective | 2 |
| Motor-Depressant | 2 |
| Interleukin-6-Inhibitor | 2 |
| Enterorelaxant | 2 |
| Chemopreventive | 2 |

| Activity | Chemical Count |
|------------------------|----------------|
| Tracheorelaxant | 2 |
| Antinephritic | 2 |
| Hypotensive | 2 |
| Antiarthritic | 2 |
| P450-Inducer | 2 |
| Deodorant | 2 |
| Hypocholesterolemic | 2 |
| Estrogenic | 2 |
| Antitumor (Cervix) | 2 |
| Carminative | 2 |
| Antiandrogenic | 2 |
| Antirheumatic | 2 |
| Antiallergic | 2 |
| Gram(-)-icide | 2 |
| Antiproliferant | 2 |
| Counterirritant | 2 |
| Antitumor-Promoter | 2 |
| Antitumor (Lung) | 2 |
| Dentifrice | 2 |
| Neurotoxic | 2 |
| Antiadenomic | 2 |
| Cytotoxic | 2 |
| Lipoxygenase-Inhibitor | 2 |
| COX-2-Inhibitor | 2 |
| Antihistaminic | 2 |
| Antistreptococcic | 2 |
| Antihalitotic | 2 |

| Activity | Chemical Count |
|-----------------------------------|----------------|
| Antitumor (Pancreas) | 2 |
| Embryotoxic | 2 |
| Tranquilizer | 2 |
| Dermatitigenic | 2 |
| Ornithine-Decarboxylase-Inhibitor | 2 |
| Gram(+)icide | 2 |
| Aromatase-Inhibitor | 2 |
| Fungistat | 2 |
| Antitumor (Stomach) | 2 |
| AChE-Inhibitor | 2 |
| Antitumor (Colon) | 2 |
| Antinociceptive | 2 |
| Antifatigue | 1 |
| Diuretic | 1 |
| Antitubercular | 1 |
| TOPO-2-Inhibitor | 1 |
| Antimetastatic (Stomach) | 1 |
| Hypolipemic | 1 |
| Antiandrogenic | 1 |
| Candidistat | 1 |
| Antirhinitic | 1 |
| Ozone-Scavenger | 1 |
| Antithromboxane | 1 |
| Surfactant | 1 |
| Antilithic? | 1 |
| Bronchoprotectant | 1 |
| Antipulmonotic | 1 |

| Activity | Chemical Count |
|---------------------------|----------------|
| AntiEBV | 1 |
| Deiodinase-Inhibitor | 1 |
| Serotonin-Inhibitor | 1 |
| Antileptic | 1 |
| GST-Inducer | 1 |
| Ascaricide | 1 |
| Antiproliferative | 1 |
| Anticomplementary | 1 |
| Cytochrome-P450-Inhibitor | 1 |
| Quinone-Reductase-Inducer | 1 |
| Antihyperthyroid | 1 |
| Gastroprotective | 1 |
| Ankylostomacide | 1 |
| Anxiolytic | 1 |
| Lipolytic | 1 |
| Anticholestatic | 1 |
| COX-1-Inhibitor | 1 |
| Protease-Inhibitor | 1 |
| Vasopressor | 1 |
| Antiperiodontic | 1 |
| Anticancer (Lung) | 1 |
| Photosensitizer | 1 |
| Antigonadotropic | 1 |
| Antitumor (Ovary) | 1 |
| Ubiquitot | 1 |
| Antiobesity? | 1 |
| Inhalant | 1 |

| Activity | Chemical Count |
|----------------------------------|----------------|
| Antifertility | 1 |
| Elastase-Inhibitor | 1 |
| ABeta-Inhibitor | 1 |
| Antitumor (brain) | 1 |
| Cardioprotective | 1 |
| Antithyroid | 1 |
| Termiticide | 1 |
| Antimalarial | 1 |
| Antiamnesic | 1 |
| cAMP-Phosphodiesterase-Inhibitor | 1 |
| NO-Genic | 1 |
| Antileukotriene | 1 |
| Antiaflatoxin | 1 |
| Avifuge | 1 |
| Antiprostataadenomic | 1 |
| Antidepressant | 1 |
| Decarboxylase-Inhibitor | 1 |
| Rubefacient | 1 |
| Antiintegrase | 1 |
| Gonadotrophic | 1 |
| Antipneumonic | 1 |
| MMP-9-Inhibitor | 1 |
| Anticholinesterase? | 1 |
| Culicide | 1 |
| Pulifuge | 1 |
| Fungiphilic | 1 |
| Androgenic | 1 |

| Activity | Chemical Count |
|-----------------------|----------------|
| Antiuremic | 1 |
| Vermifuge | 1 |
| Antiperoxidant | 1 |
| Larvicide | 1 |
| Anticarcinomic | 1 |
| Coleoptophile | 1 |
| Piscicide | 1 |
| AntiTGF-beta | 1 |
| Antihelicobacter | 1 |
| Antitumor (Prostate) | 1 |
| Urinary-Antiseptic | 1 |
| Antiotitic | 1 |
| Anticancer (Breast) | 1 |
| Cholesterolytic | 1 |
| Pediculicide | 1 |
| Antifibrotic | 1 |
| Emetic | 1 |
| Peristaltic | 1 |
| Antisindhis | 1 |
| Detoxicant | 1 |
| Antitrypanosomic | 1 |
| TNF-alpha-Inhibitor | 1 |
| Antimetastatic | 1 |
| Antianaphylactic | 1 |
| Oviposition-Stimulant | 1 |
| Sprout-Inhibitor | 1 |
| Antilithic | 1 |

| Activity | Chemical Count |
|------------------------------|----------------|
| Hepatotoxic | 1 |
| Beta-Glucuronidase-Inhibitor | 1 |
| Antiproteolytic | 1 |
| Nephrotoxic | 1 |
| Antidiuretic | 1 |
| Degranulant | 1 |
| Antileishmanic | 1 |
| Artemicide | 1 |
| Mosquitofuge | 1 |
| Anticomplement | 1 |
| Cytochrome-P450-Inducer | 1 |
| Purgative | 1 |
| Antihyperlipoproteinaemic | 1 |
| Gastroirritant | 1 |
| Angiogenic | 1 |
| Antiyeast | 1 |
| Antipharyngitic | 1 |
| Leucocytogenic | 1 |
| Anticatarrh | 1 |
| Prostaglandin-Inhibitor | 1 |
| Febrifuge | 1 |
| Allergenic? | 1 |
| Varroacide | 1 |
| Anticancer (Colon) | 1 |
| CNS-Depressant | 1 |
| Pheromone | 1 |
| Antigonadotrophic | 1 |

| Activity | Chemical Count |
|-----------------------------|----------------|
| Enterocontractant | 1 |
| Adenylate-Cyclase-Inhibitor | 1 |
| Trypanocide | 1 |
| Antiobesity | 1 |
| Inflammatory | 1 |
| Cerebrotoxic | 1 |
| Edemagenic | 1 |
| 11B-HSD-Inhibitor | 1 |
| Topoisomerase-I-Inhibitor | 1 |
| Hypolipidemic | 1 |
| Antiarrhythmic | 1 |
| Carcinogenic | 1 |
| Antithyrotropic | 1 |
| Teratogenic | 1 |
| Histaminic | 1 |
| Calcium-Antagonist | 1 |
| Sodium-Sparing | 1 |
| Hallucinogenic | 1 |
| Ataxigenic | 1 |
| Mycobactericide | 1 |
| Anticonvulsant | 1 |
| Radioprotective | 1 |
| Glutathionalytic | 1 |
| Anorexic | 1 |
| Aphidifuge | 1 |
| Antiplasmodial | 1 |
| Protisticide | 1 |

| Activity | Chemical Count |
|----------------------------------|----------------|
| Ancylostomicide | 1 |
| Vermicide | 1 |
| Antiperistaltic | 1 |
| Anticancer (Pancreas) | 1 |
| CNS-Toxic | 1 |
| Pigment | 1 |
| Enterotoxic | 1 |
| Ulcerogenic | 1 |
| Antiophidic | 1 |
| Insect-Repellent | 1 |
| Antifibrosarcomic | 1 |
| Antineuritic | 1 |
| Hypothermic | 1 |
| Antiasthmatic | 1 |
| Cardiotonic | 1 |
| Antishock | 1 |
| P450-Inhibitor | 1 |
| Antiesophagitic | 1 |
| Antitrichinotic | 1 |
| Testosterone-Hydroxylase-Inducer | 1 |
| Hypocholesterolemic? | 1 |
| Anti-amyloid-Beta | 1 |
| Antirheumatalgic | 1 |
| Spermicide | 1 |
| Antilipoperoxidant | 1 |
| Hepatotonic | 1 |
| Beta-Blocker | 1 |

| Activity | Chemical Count |
|---------------------|----------------|
| Antiprostatic | 1 |
| Antidiabetic | 1 |
| Decongestant | 1 |
| Secretagogue | 1 |
| Antilaryngitic | 1 |
| Antiacetylcholine | 1 |
| Antiprogestational | 1 |
| Molluscicide | 1 |
| Anticoagulant | 1 |
| Pulmonotoxic | 1 |
| Antihyperlipidemic | 1 |
| Vulnerary | 1 |
| Antiperoxidative | 1 |
| Laxative | 1 |
| Convulsant | 1 |
| Potassium-Sparing | 1 |
| Antihemolytic | 1 |
| Uterotrophic | 1 |
| Anticancer (Cervix) | 1 |
| Cicatrizant | 1 |
| Antisinusitic | 1 |
| Perfume | 1 |
| Encephalopathic | 1 |
| Immunostimulant | 1 |
| Antibacillary | 1 |
| Caspase-8-Inducer | 1 |