

**Dr. Duke's Phytochemical and Ethnobotanical Database****Biological Activities Found in *Agastache rugosa***

| <b>Activity</b>             | <b>Chemical Count</b> |
|-----------------------------|-----------------------|
| ABeta-Inhibitor             | 1                     |
| Abortifacient               | 1                     |
| Acaricide                   | 4                     |
| AChE-Inhibitor              | 1                     |
| Adenylate-Cyclase-Inhibitor | 1                     |
| Aldose-Reductase-Inhibitor  | 7                     |
| Allelochemic                | 2                     |
| Allergenic                  | 8                     |
| Analgesic                   | 3                     |
| Androgenic                  | 1                     |
| Anesthetic                  | 3                     |
| Angiogenic                  | 1                     |
| Anorexic                    | 1                     |
| Antiacetylcholinesterase    | 3                     |
| Antiacne                    | 3                     |
| Antiadenomic                | 2                     |
| Antiaflatoxin               | 1                     |
| Antiaggregant               | 4                     |

| <b>Activity</b>      | <b>Chemical Count</b> |
|----------------------|-----------------------|
| Antiallergic         | 4                     |
| Antialzheimeran      | 1                     |
| Antialzheimeran?     | 1                     |
| Antianaphylactic     | 2                     |
| Antiandrogenic       | 1                     |
| Antiarachidonate     | 1                     |
| Antiarrhythmic       | 1                     |
| Antiasthmatic        | 3                     |
| Antiatherosclerotic  | 2                     |
| Antibacterial        | 12                    |
| Anticancer           | 1                     |
| Anticancer (Breast)  | 2                     |
| Anticancer (Cervix)  | 2                     |
| Anticancer (Gastric) | 1                     |
| Anticancer (Lung)    | 1                     |
| Anticarcinomic       | 1                     |
| Anticariogenic       | 4                     |
| Anticoagulant        | 1                     |
| Anticolic            | 1                     |
| Anticomplement       | 1                     |

| <b>Activity</b>   | <b>Chemical Count</b> |
|-------------------|-----------------------|
| Anticomplementary | 1                     |
| Anticonvulsant    | 3                     |
| Antidepressant    | 1                     |
| Antidermatitic    | 1                     |
| Antiedemic        | 8                     |
| Antiesophagitic   | 1                     |
| Antiestrogenic    | 2                     |
| Antifeedant       | 6                     |
| Antifertility     | 2                     |
| Antiflu           | 2                     |
| Antigenotoxic     | 2                     |
| Antigingivitic    | 1                     |
| Antigliomic       | 1                     |
| Antiglutamaergic  | 1                     |
| Antigonadotrophic | 1                     |
| Antigonadotropic  | 1                     |
| Antihemolytic     | 1                     |
| Antihepatotic     | 1                     |
| Antihepatotoxic   | 2                     |
| Antiherpetic      | 2                     |

| <b>Activity</b>           | <b>Chemical Count</b> |
|---------------------------|-----------------------|
| Antihistaminic            | 3                     |
| AntiHIV                   | 3                     |
| Antihyperlipidemic        | 1                     |
| Antihyperlipoproteinaemic | 1                     |
| Antihyperthyroid          | 1                     |
| Antiinflammatory          | 12                    |
| Antiintegrase             | 1                     |
| Antiischemic              | 1                     |
| Antikeratotic             | 1                     |
| Antileishmanic            | 1                     |
| Antileukemic              | 4                     |
| Antileukotriene           | 2                     |
| Antilipoperoxidant        | 1                     |
| Antilithic                | 1                     |
| Antilymphomic             | 3                     |
| Antimalarial              | 3                     |
| Antimange                 | 1                     |
| Antimelanomic             | 1                     |
| Antimetastatic (Stomach)  | 1                     |
| Antimite                  | 2                     |

| <b>Activity</b>      | <b>Chemical Count</b> |
|----------------------|-----------------------|
| Antimitotic          | 1                     |
| Antimutagenic        | 8                     |
| Antinephritic        | 2                     |
| AntiNF-kB            | 1                     |
| Antinitrosating      | 1                     |
| Antiobesity          | 1                     |
| Antionychyotic       | 1                     |
| Antiophidic          | 1                     |
| Antioxidant          | 5                     |
| Antioxidant (LDL)    | 1                     |
| Antiperiodontic      | 1                     |
| Antiperoxidant       | 1                     |
| AntiPGE2             | 1                     |
| Antiplateau          | 2                     |
| Antiplasmodial       | 2                     |
| Antipneumonic        | 1                     |
| Antiprogestational   | 1                     |
| Antiproliferant      | 3                     |
| Antiprostaglandin    | 3                     |
| Antiprostataadenomic | 1                     |

| <b>Activity</b>    | <b>Chemical Count</b> |
|--------------------|-----------------------|
| Antiprostatic      | 1                     |
| Antiproteolytic    | 1                     |
| Antipulmonotic     | 1                     |
| Antipyretic        | 2                     |
| Antiradicular      | 3                     |
| Antisalmonella     | 2                     |
| Antisarcotic       | 1                     |
| Antiseptic         | 8                     |
| Antishock          | 2                     |
| Antispasmodic      | 8                     |
| Antistaphylococcic | 3                     |
| Antistreptococcic  | 2                     |
| AntiTGF-beta       | 1                     |
| Antithromboxane    | 1                     |
| Antithyrotropic    | 1                     |
| Antithyroid        | 1                     |
| AntiTNF            | 2                     |
| Antitumor          | 8                     |
| Antitumor (Breast) | 4                     |
| Antitumor (Cervix) | 2                     |

| <b>Activity</b>              | <b>Chemical Count</b> |
|------------------------------|-----------------------|
| Antitumor (Colon)            | 2                     |
| Antitumor (Gastric)          | 1                     |
| Antitumor (Kidney)           | 1                     |
| Antitumor (Lung)             | 2                     |
| Antitumor (Pancreas)         | 2                     |
| Antitumor (Prostate)         | 1                     |
| Antitumor (Stomach)          | 1                     |
| Antitumor-Promoter           | 1                     |
| Antiulcer                    | 3                     |
| Antiuremic                   | 1                     |
| Antiviral                    | 9                     |
| Antiyeast                    | 1                     |
| Anxiolytic                   | 1                     |
| Apifuge                      | 1                     |
| Apoptotic                    | 5                     |
| Aromatase-Inhibitor          | 2                     |
| Artemicide                   | 1                     |
| Barbituate-Synergist         | 1                     |
| Beta-Blocker                 | 1                     |
| Beta-Glucuronidase-Inhibitor | 1                     |

| <b>Activity</b>    | <b>Chemical Count</b> |
|--------------------|-----------------------|
| Bronchoprotectant  | 1                     |
| Bronchorelaxant    | 1                     |
| Calcium-Antagonist | 6                     |
| Cancer-Preventive  | 12                    |
| Candidicide        | 6                     |
| Candidistat        | 2                     |
| Carcinogenic       | 2                     |
| Carcinogenic?      | 1                     |
| Cardioprotective   | 1                     |
| Cardiotonic        | 1                     |
| Carminative        | 4                     |
| Caspase-8-Inducer  | 1                     |
| Chemopreventive    | 2                     |
| Choleretic         | 1                     |
| Cholesterolytic    | 1                     |
| CNS-Depressant     | 4                     |
| CNS-Stimulant      | 1                     |
| Coleoptophile      | 1                     |
| Controlled         | 1                     |
| Cosmetic           | 1                     |



| <b>Activity</b>           | <b>Chemical Count</b> |
|---------------------------|-----------------------|
| COX-1-Inhibitor           | 2                     |
| COX-2-Inhibitor           | 3                     |
| Culicide                  | 1                     |
| Cyclooxygenase-Inhibitor  | 1                     |
| Cytochrome-P450-Inducer   | 2                     |
| Cytochrome-P450-Inhibitor | 1                     |
| Cytochrome-P488-Inducer   | 1                     |
| Cytotoxic                 | 3                     |
| Deiodinase-Inhibitor      | 1                     |
| Dermatitigenic            | 2                     |
| Detoxicant                | 1                     |
| Differentiator            | 1                     |
| Digestive                 | 1                     |
| Diuretic                  | 1                     |
| DNA-Binder                | 3                     |
| Elastase-Inhibitor        | 1                     |
| Enterocontractant         | 1                     |
| Enterorelaxant            | 1                     |
| Estrogenic                | 2                     |
| Expectorant               | 4                     |

| <b>Activity</b>     | <b>Chemical Count</b> |
|---------------------|-----------------------|
| Febrifuge           | 1                     |
| FLavor              | 9                     |
| Fungicide           | 8                     |
| Fungiphilic         | 1                     |
| Fungistat           | 1                     |
| GABA-nergic         | 1                     |
| Gastroprotective    | 1                     |
| Gastrostimulant     | 1                     |
| Gonadotrophic       | 1                     |
| GST-Inducer         | 1                     |
| Hepatocarcinogenic  | 2                     |
| Hepatoprotective    | 4                     |
| Hepatoregenerative  | 1                     |
| Hepatotoxic         | 2                     |
| Herbicide           | 5                     |
| Histaminic          | 1                     |
| Hypnotic            | 1                     |
| Hypocholesterolemic | 3                     |
| Hypoglycemic        | 2                     |
| Hypolipemic         | 1                     |

| <b>Activity</b>                    | <b>Chemical Count</b> |
|------------------------------------|-----------------------|
| Hypolipidemic                      | 1                     |
| Hypotensive                        | 1                     |
| Hypothermic                        | 4                     |
| Immunomodulator                    | 3                     |
| Immunostimulant                    | 2                     |
| Insecticide                        | 10                    |
| Insectifuge                        | 8                     |
| Insectiphile                       | 1                     |
| Interleukin-6-Inhibitor            | 1                     |
| Iodothyronine-Deiodinase-Inhibitor | 1                     |
| Irritant                           | 9                     |
| Juvabional                         | 1                     |
| Lactagogue                         | 1                     |
| Larvicide                          | 3                     |
| Leucocytogenic                     | 2                     |
| Lipolytic                          | 1                     |
| Lipoxygenase-Inhibitor             | 1                     |
| Litholytic                         | 1                     |
| Mosquitocide                       | 1                     |
| Mosquitofuge                       | 1                     |

| <b>Activity</b>                   | <b>Chemical Count</b> |
|-----------------------------------|-----------------------|
| Motor-Depressant                  | 2                     |
| Mutagenic                         | 4                     |
| Myorelaxant                       | 2                     |
| Nematicide                        | 6                     |
| Nephroprotective                  | 1                     |
| Nephrotoxic                       | 1                     |
| Neuroprotective                   | 1                     |
| Neurotoxic                        | 2                     |
| NF-kB-Inhibitor                   | 1                     |
| NO-Genic                          | 1                     |
| Ornithine-Decarboxylase-Inhibitor | 1                     |
| Ozone-Scavenger                   | 1                     |
| P450-2B1-Inhibitor                | 2                     |
| P450-Inducer                      | 2                     |
| Pediculicide                      | 1                     |
| Perfumery                         | 9                     |
| Peristaltic                       | 1                     |
| Pesticide                         | 20                    |
| Phagocytotic                      | 1                     |
| Pheromone                         | 1                     |

| <b>Activity</b>                   | <b>Chemical Count</b> |
|-----------------------------------|-----------------------|
| Photosensitizer                   | 1                     |
| Piscicide                         | 2                     |
| Plasmodicide                      | 1                     |
| Prooxidant                        | 1                     |
| Prostaglandin-Synthesis-Inhibitor | 2                     |
| Protease-Inhibitor                | 1                     |
| Protisticide                      | 1                     |
| Psychoactive                      | 1                     |
| Radioprotective                   | 1                     |
| Secretagogue                      | 1                     |
| Secretolytic                      | 1                     |
| Sedative                          | 7                     |
| Spasmogenic                       | 2                     |
| Spermicide                        | 1                     |
| Sweetener                         | 1                     |
| Sympathomimetic                   | 1                     |
| Termiticide                       | 1                     |
| Termitifuge                       | 2                     |
| Testosterone-Inducer              | 1                     |
| Topoisomerase-I-Inhibitor         | 1                     |

| <b>Activity</b>      | <b>Chemical Count</b> |
|----------------------|-----------------------|
| Tranquilizer         | 1                     |
| Transdermal          | 3                     |
| Tremorigenic         | 1                     |
| Trichomonicide       | 2                     |
| Trichomonistat       | 1                     |
| Trypsin-Enhancer     | 1                     |
| Tumor-Promoter       | 1                     |
| Tyrosinase-Inhibitor | 1                     |
| Ubiquiot             | 1                     |
| Ulcerogenic          | 2                     |
| Uterotonic           | 1                     |
| Varroacide           | 1                     |
| Vasodilator          | 1                     |
| Vasopressor          | 1                     |
| Vermifuge            | 1                     |