

**Dr. Duke's Phytochemical and Ethnobotanical Database****Biological Activities Found in *Melia azedarach***

| <b>Activity</b>             | <b>Chemical Count</b> |
|-----------------------------|-----------------------|
| 11B-HSD-Inhibitor           | 2                     |
| 5-Alpha-Reductase-Inhibitor | 2                     |
| 5-HT-Inhibitor              | 1                     |
| 5-Lipoxygenase-Inhibitor    | 3                     |
| Abortifacient               | 1                     |
| Absorbent                   | 1                     |
| Acaricide                   | 2                     |
| ACE-Inhibitor               | 3                     |
| Acetylcholinergic           | 1                     |
| Acidulant                   | 1                     |
| Adjuvant                    | 1                     |
| Aldehyde-Oxidase-Inhibitor  | 2                     |
| Aldose-Reductase-Inhibitor  | 11                    |
| Allelochemic                | 5                     |
| Allelopathic                | 3                     |
| Allergenic                  | 8                     |
| Analgesic                   | 6                     |
| Androgenic                  | 1                     |

| <b>Activity</b>              | <b>Chemical Count</b> |
|------------------------------|-----------------------|
| Anesthetic                   | 6                     |
| Angiogenic                   | 1                     |
| Angiotensin-Receptor-Blocker | 1                     |
| Anorexic                     | 1                     |
| Anthelmintic                 | 3                     |
| Antiacid                     | 1                     |
| Antiacne                     | 1                     |
| Antiadenomic                 | 1                     |
| Antiadenoviral               | 1                     |
| Antiadrenergic               | 1                     |
| Antiaflatoxin                | 3                     |
| Antiaggregant                | 7                     |
| Antiaging                    | 2                     |
| Antialcoholic                | 1                     |
| Antialdosteronic             | 1                     |
| Antialkali?                  | 1                     |
| Antialkalotic                | 1                     |
| Antiallergic                 | 6                     |
| Antialopecic                 | 1                     |
| Antialzheimeran              | 1                     |

| Activity               | Chemical Count |
|------------------------|----------------|
| Antialzheimeran?       | 1              |
| Antianaphylactic       | 1              |
| Antiandrogenic         | 2              |
| Antianemic             | 1              |
| Antiangiogenic         | 1              |
| Antianxiety            | 1              |
| Antiapoplectic         | 1              |
| Antiarachidonate       | 1              |
| Antiarrhythmic         | 5              |
| Antiarthritic          | 4              |
| Antiasthmatic          | 2              |
| Antiasthmatic?         | 1              |
| Antiatherogenic        | 2              |
| Antiatherosclerotic    | 4              |
| Antibacterial          | 21             |
| Antibronchoconstrictor | 1              |
| Anticancer             | 8              |
| Anticancer (Breast)    | 1              |
| Anticancer (Cervix)    | 1              |
| Anticancer (Colon)     | 1              |

| <b>Activity</b>           | <b>Chemical Count</b> |
|---------------------------|-----------------------|
| Anticancer (Foreestomach) | 1                     |
| Anticancer (Liver)        | 1                     |
| Anticancer (Lung)         | 1                     |
| Anticancer (Skin)         | 1                     |
| Anticapillary-Fragility   | 2                     |
| Anticarcinogenic          | 2                     |
| Anticarcinomic (Breast)   | 1                     |
| Anticariogenic            | 4                     |
| Anticataract              | 4                     |
| Anticholinergic           | 1                     |
| Anticholinesterase?       | 1                     |
| Anticlastogen             | 1                     |
| Anticlimacteric           | 1                     |
| Anticolitic               | 1                     |
| Anticomplementary         | 1                     |
| Anticonvulsant            | 2                     |
| AntiCrohn's               | 1                     |
| AntiCVI                   | 1                     |
| Anticystitic              | 1                     |
| Antidementia              | 1                     |

| <b>Activity</b>          | <b>Chemical Count</b> |
|--------------------------|-----------------------|
| Antidepressant           | 3                     |
| Antidermatitic           | 2                     |
| Antidermatitic?          | 1                     |
| Antidiabetic             | 3                     |
| Antidiabetic?            | 1                     |
| Antidiarrheic            | 1                     |
| Antidiuretic             | 1                     |
| Antidote (Acetaminophen) | 1                     |
| Antidote (Aluminum)      | 1                     |
| Antidote (Hypoglycin-A)  | 1                     |
| Antidote (Iodine)        | 1                     |
| Antidote (Lead)          | 1                     |
| Antidote (Paracetamol)   | 1                     |
| Antidrepanocytic         | 1                     |
| Antidysenteric           | 2                     |
| Antidysmenorrheic        | 1                     |
| Antieczemic              | 1                     |
| Antiedemic               | 8                     |
| Antielastase             | 2                     |
| Antiencephalitic         | 1                     |

| <b>Activity</b>     | <b>Chemical Count</b> |
|---------------------|-----------------------|
| Antiencephalopathic | 3                     |
| Antiendotoxic       | 1                     |
| Antiepileptic       | 1                     |
| Antierythemic       | 1                     |
| Antiescherichic     | 4                     |
| Antiestrogenic      | 4                     |
| Antifatigue         | 1                     |
| Antifeedant         | 9                     |
| Antifertility       | 3                     |
| Antifibrinolytic    | 1                     |
| Antifibrosarcomic   | 1                     |
| Antiflu             | 4                     |
| Antigastric         | 1                     |
| Antigastritic       | 1                     |
| Antigenotoxic       | 1                     |
| Antigingivitic      | 1                     |
| Antiglaucomic       | 1                     |
| Antigonadotrophic   | 1                     |
| Antigonadotropic    | 2                     |
| AntiGTF             | 1                     |

| <b>Activity</b>           | <b>Chemical Count</b> |
|---------------------------|-----------------------|
| Antihelicobacter          | 1                     |
| Antihematuric             | 1                     |
| Antihemolytic             | 1                     |
| Antihemorrhagic           | 1                     |
| Antihemorrhoidal          | 1                     |
| Antihepatitic             | 2                     |
| Antihepatoadenomic        | 1                     |
| Antihepatotic             | 1                     |
| Antihepatotoxic           | 9                     |
| Antiherpetic              | 9                     |
| Antiherpetic?             | 1                     |
| Antihistaminic            | 6                     |
| AntiHIV                   | 3                     |
| Antihomocystinuric        | 1                     |
| Antihydrophobic           | 1                     |
| Antihyperammonemic        | 1                     |
| Antihypercholesterolemic  | 1                     |
| Antihyperkinetic          | 1                     |
| Antihyperlipidemic        | 1                     |
| Antihyperlipoproteinaemic | 1                     |

| <b>Activity</b>      | <b>Chemical Count</b> |
|----------------------|-----------------------|
| Antihypertensive     | 6                     |
| Antihyperthyroid     | 1                     |
| Antiimplantation     | 1                     |
| Antiimpotence        | 1                     |
| Antiinfertility      | 1                     |
| Antiinflammatory     | 17                    |
| Antiinflammatory?    | 1                     |
| Antiinsomniac        | 1                     |
| Antiischemic         | 1                     |
| Antikeratotic        | 1                     |
| Antiketotic          | 1                     |
| Antilactobacillic    | 1                     |
| AntiLegionella       | 1                     |
| Antileishmanic       | 1                     |
| Antileukemic         | 8                     |
| Antileukotriene      | 2                     |
| Antileukotrienogenic | 1                     |
| Antilipolytic        | 1                     |
| Antilipoperoxidant   | 2                     |
| Antilisteria         | 1                     |



| <b>Activity</b>      | <b>Chemical Count</b> |
|----------------------|-----------------------|
| Antilithic           | 1                     |
| Antilymphocytic      | 1                     |
| Antilymphomic        | 1                     |
| Antimalarial         | 6                     |
| Antimelanogenic      | 1                     |
| Antimelanomic        | 3                     |
| Antimenopausal       | 1                     |
| Antimetastatic       | 2                     |
| Antimitotic          | 2                     |
| Antimutagenic        | 13                    |
| Antimyocarditic      | 1                     |
| Antineoplastic       | 1                     |
| Antinephritic        | 2                     |
| Antinesidioblastotic | 1                     |
| Antinitrosaminic     | 3                     |
| Antinitrosating      | 1                     |
| Antinociceptive      | 3                     |
| Antiobesity          | 2                     |
| Antiophidic          | 3                     |
| Antiosteoporotic     | 2                     |

| <b>Activity</b>   | <b>Chemical Count</b> |
|-------------------|-----------------------|
| Antiosteotic      | 1                     |
| Antiotitic        | 2                     |
| Antioxidant       | 18                    |
| Antioxidant (LDL) | 1                     |
| Antioxidant?      | 2                     |
| Antipancreatic    | 1                     |
| Antiparkinsonian  | 1                     |
| Antiperiodontal   | 2                     |
| Antiperiodontic   | 1                     |
| Antiperiodontitic | 1                     |
| Antiperistaltic   | 1                     |
| Antipermeability  | 1                     |
| Antiperoxidant    | 4                     |
| Antipharyngitic   | 1                     |
| Antiplatelet      | 4                     |
| Antiplasmodial    | 3                     |
| Antiplatelet      | 1                     |
| AntiPMS           | 2                     |
| Antipodriac       | 1                     |
| Antipolio         | 2                     |

| <b>Activity</b>      | <b>Chemical Count</b> |
|----------------------|-----------------------|
| Antiprogestational   | 1                     |
| Antiproliferant      | 5                     |
| Antiprostaglandin    | 6                     |
| Antiprostanoid       | 1                     |
| Antiprostataadenomic | 1                     |
| Antiprostatitic      | 5                     |
| Antiprotozoal        | 1                     |
| Antipruritic         | 1                     |
| Antipsoriac          | 1                     |
| Antipurpuric         | 2                     |
| Antipyretic          | 4                     |
| Antiradicular        | 12                    |
| Antirenitic          | 1                     |
| Antiretardation      | 1                     |
| Antirheumatic        | 2                     |
| Antisalmonella       | 3                     |
| Antisclerodermic     | 1                     |
| Antiseptic           | 11                    |
| Antiserotonin        | 2                     |
| Antisickling         | 3                     |

| <b>Activity</b>         | <b>Chemical Count</b> |
|-------------------------|-----------------------|
| Antispasmodic           | 11                    |
| Antistaphylococcic      | 7                     |
| Antistomatitic          | 1                     |
| Antistreptococcic       | 2                     |
| Antistress              | 1                     |
| Antisunburn             | 2                     |
| Antithiamin             | 2                     |
| Antithrombic            | 2                     |
| Antithrombogenic        | 2                     |
| Antithromboxane         | 1                     |
| Antithyroid             | 2                     |
| Antitic                 | 1                     |
| AntiTNF                 | 1                     |
| Antitrypanosomic        | 2                     |
| Antitumor               | 12                    |
| Antitumor (Bladder)     | 1                     |
| Antitumor (Breast)      | 2                     |
| Antitumor (Cervix)      | 1                     |
| Antitumor (Colon)       | 2                     |
| Antitumor (Forestomach) | 1                     |

| <b>Activity</b>     | <b>Chemical Count</b> |
|---------------------|-----------------------|
| Antitumor (Liver)   | 1                     |
| Antitumor (Lung)    | 2                     |
| Antitumor (Ovary)   | 1                     |
| Antitumor (Skin)    | 3                     |
| Antitumor-Promoter  | 8                     |
| Antitussive         | 2                     |
| Antiulcer           | 12                    |
| Antiulcerogenic     | 1                     |
| Antivaccinia        | 1                     |
| Antivaginitic       | 1                     |
| Antivaricose        | 2                     |
| Antiviral           | 12                    |
| Antiyeast           | 2                     |
| Anxiolytic          | 4                     |
| Aphrodisiac         | 1                     |
| Apifuge             | 1                     |
| Apoptotic           | 6                     |
| Aromatase-Inhibitor | 1                     |
| Artemicide          | 1                     |
| Arteriodilator      | 1                     |

| <b>Activity</b>                  | <b>Chemical Count</b> |
|----------------------------------|-----------------------|
| Ascaricide                       | 1                     |
| Astringent                       | 1                     |
| ATPase-Inhibitor                 | 1                     |
| Bacteristat                      | 2                     |
| Beta-Blocker                     | 1                     |
| Bradycardiac                     | 1                     |
| Bronchorelaxant                  | 1                     |
| Calcium-Antagonist               | 2                     |
| Calcium-Channel-Blocker          | 1                     |
| Calmodulin-Antagonist            | 1                     |
| cAMP-Phosphodiesterase-Inhibitor | 3                     |
| Cancer-Preventive                | 21                    |
| Candidicide                      | 6                     |
| Capillarifortificant             | 1                     |
| Capillarigenic                   | 1                     |
| Capillariprotective              | 2                     |
| Carcinogenic                     | 5                     |
| Carcinogenic?                    | 1                     |
| Cardiac                          | 1                     |
| Cardiodepressant                 | 1                     |

| <b>Activity</b>   | <b>Chemical Count</b> |
|-------------------|-----------------------|
| Cardioprotective  | 1                     |
| Cardiotonic       | 2                     |
| Carminative       | 2                     |
| Caspase-8-Inducer | 1                     |
| Catabolic         | 2                     |
| Chelator          | 1                     |
| Chemopreventive   | 2                     |
| Cholagogue        | 3                     |
| Choleretic        | 11                    |
| Cicatrizant       | 1                     |
| Clastogenic       | 1                     |
| CNS-Active        | 1                     |
| CNS-Depressant    | 3                     |
| CNS-Stimulant     | 1                     |
| Co-carcinogenic   | 1                     |
| Collagen-Sparing  | 1                     |
| COMP-Inhibitor    | 1                     |
| COMT-Inhibitor    | 1                     |
| Copper-Chelator   | 2                     |
| Cosmetic          | 2                     |

| <b>Activity</b>               | <b>Chemical Count</b> |
|-------------------------------|-----------------------|
| COX-1-Inhibitor               | 2                     |
| COX-2-Inhibitor               | 4                     |
| Cyclooxygenase-Activator      | 1                     |
| Cyclooxygenase-Inhibitor      | 5                     |
| Cytochrome-P450-1A2-Inhibitor | 1                     |
| Cytochrome-P450-Inhibitor     | 1                     |
| Cytoprotective                | 2                     |
| Cytotoxic                     | 8                     |
| Deiodinase-Inhibitor          | 1                     |
| Dermatitigenic                | 3                     |
| Detoxicant                    | 1                     |
| Diaphoretic?                  | 2                     |
| Differentiator                | 1                     |
| Diuretic                      | 7                     |
| DNA-Active                    | 1                     |
| DNA-Protective                | 1                     |
| Dye                           | 1                     |
| Emetic                        | 2                     |
| Emollient                     | 1                     |
| Enterorelaxant                | 2                     |



| <b>Activity</b>                | <b>Chemical Count</b> |
|--------------------------------|-----------------------|
| Essential                      | 4                     |
| Estrogenic                     | 4                     |
| Estrogenic?                    | 1                     |
| Expectorant                    | 5                     |
| Febrifuge                      | 1                     |
| FLavor                         | 16                    |
| Fungicide                      | 16                    |
| Glucosyl-Transferase-Inhibitor | 2                     |
| Glutathionigenic               | 1                     |
| Gonadotrophic                  | 1                     |
| Hemolytic                      | 1                     |
| Hemostat                       | 4                     |
| Hepatocarcinogenic             | 1                     |
| Hepatomagenic                  | 2                     |
| Hepatoprotective               | 13                    |
| Hepatotonic                    | 1                     |
| Hepatotropic                   | 2                     |
| Herbicide                      | 4                     |
| Histamine-Inhibitor            | 1                     |
| HIV-RT-Inhibitor               | 2                     |

| <b>Activity</b>      | <b>Chemical Count</b> |
|----------------------|-----------------------|
| Hydrocholerectic     | 1                     |
| Hypercholesterolemic | 1                     |
| Hyperglycemic        | 1                     |
| Hypertensive         | 1                     |
| Hypoammonemic        | 1                     |
| Hypoarginanemic      | 1                     |
| Hypocholesterolemic  | 7                     |
| Hypoglycemic         | 4                     |
| Hypolipidemic        | 2                     |
| Hypotensive          | 9                     |
| Hypouricemic         | 1                     |
| ICAM-1-Inhibitor     | 1                     |
| Immunomodulator      | 1                     |
| Immunostimulant      | 5                     |
| Immunosuppressant    | 3                     |
| iNOS-Inhibitor       | 2                     |
| Inotropic            | 2                     |
| Insecticide          | 3                     |
| Insectifuge          | 6                     |
| Insectifuge?         | 1                     |

| <b>Activity</b>                    | <b>Chemical Count</b> |
|------------------------------------|-----------------------|
| Insectiphile                       | 3                     |
| Insulinogenic                      | 1                     |
| Interleukin-6-Inhibitor            | 1                     |
| Iodothyronine-Deiodinase-Inhibitor | 1                     |
| Irritant                           | 6                     |
| JNK-Inhibitor                      | 1                     |
| Juvabional                         | 3                     |
| Keratitigenic                      | 1                     |
| Larvicide                          | 1                     |
| Larvostat                          | 2                     |
| Laxative                           | 5                     |
| Leukotriene-Inhibitor              | 1                     |
| Lipotropic                         | 1                     |
| Lipoxygenase-Inhibitor             | 8                     |
| Lubricant                          | 2                     |
| Lyase-Inhibitor                    | 1                     |
| MAO-A-Inhibitor                    | 2                     |
| MAO-Inhibitor                      | 4                     |
| Mast-Cell-Stabilizer               | 1                     |
| Memory-Enhancer                    | 1                     |

| <b>Activity</b>             | <b>Chemical Count</b> |
|-----------------------------|-----------------------|
| Metal-Chelator              | 2                     |
| Metal-Chelator (Copper)     | 1                     |
| Metalloproteinase-Inhibitor | 1                     |
| MMP-9-Inhibitor             | 1                     |
| Mosquitofuge                | 1                     |
| Motor-Depressant            | 3                     |
| Mucolytic                   | 1                     |
| Musculotropic               | 2                     |
| Mutagenic                   | 3                     |
| Myoprotective               | 1                     |
| Myorelaxant                 | 3                     |
| NADH-Oxidase-Inhibitor      | 1                     |
| Natriuretic                 | 1                     |
| Nematicide                  | 5                     |
| NEP-Inhibitor               | 1                     |
| Neuroinhibitor              | 1                     |
| Neuroprotective             | 2                     |
| Neurotoxic                  | 2                     |
| NF-kB-Inhibitor             | 1                     |
| NO-Genic                    | 1                     |

| <b>Activity</b>                   | <b>Chemical Count</b> |
|-----------------------------------|-----------------------|
| NO-Inhibitor                      | 2                     |
| NO-Synthase-Inhibitor             | 1                     |
| Ornithine-Decarboxylase-Inhibitor | 4                     |
| Osteogenic                        | 1                     |
| Osteolytic                        | 1                     |
| Oviposition-Stimulant             | 1                     |
| P450-Inducer                      | 1                     |
| P450-Inhibitor                    | 1                     |
| PAF-Inhibitor                     | 2                     |
| Paralytic                         | 1                     |
| Perfumery                         | 8                     |
| Pesticide                         | 29                    |
| PGE2-Inhibitor                    | 1                     |
| Phagocytotic                      | 1                     |
| Phospholipase-Inhibitor           | 1                     |
| Phytoalexin                       | 2                     |
| Phytohormonal                     | 1                     |
| Pituitary-Stimulant               | 1                     |
| Plasmodicide                      | 1                     |
| Poultice                          | 1                     |

| <b>Activity</b>                   | <b>Chemical Count</b> |
|-----------------------------------|-----------------------|
| Preservative                      | 1                     |
| Proliferant                       | 1                     |
| Prooxidant                        | 1                     |
| Propepic                          | 3                     |
| Prostaglandigenic                 | 2                     |
| Prostaglandin-Inhibitor           | 1                     |
| Prostaglandin-Synthesis-Inhibitor | 3                     |
| Protein-Kinase-C-Inhibitor        | 1                     |
| Protisticide                      | 3                     |
| Psychotropic                      | 1                     |
| PTK-Inhibitor                     | 1                     |
| Quinone-Reductase-Inducer         | 2                     |
| Radioprotective                   | 1                     |
| Sedative                          | 6                     |
| Soap                              | 1                     |
| Spermicide                        | 3                     |
| Spermigenic                       | 1                     |
| Sunscreen                         | 4                     |
| Suppository                       | 1                     |
| Teratologic                       | 2                     |

| <b>Activity</b>            | <b>Chemical Count</b> |
|----------------------------|-----------------------|
| Termiticide                | 2                     |
| TNF-alpha-Inhibitor        | 2                     |
| Topoisomerase-I-Inhibitor  | 2                     |
| Topoisomerase-II-Inhibitor | 3                     |
| Tracheorelaxant            | 1                     |
| Tranquilizer               | 1                     |
| Transdermal                | 1                     |
| Trichomonicide             | 3                     |
| Trichomonistat             | 1                     |
| Trypsin-Enhancer           | 1                     |
| Tumorigenic                | 3                     |
| Tyrosinase-Inhibitor       | 4                     |
| Tyrosine-Kinase-Inhibitor  | 1                     |
| Ubiquiot                   | 2                     |
| Ulcerogenic                | 3                     |
| Uricosuric                 | 2                     |
| Urine-Acidifier            | 1                     |
| Urine-Deodorant            | 1                     |
| Uterosedative              | 2                     |
| Uterotrophic               | 1                     |

| <b>Activity</b>            | <b>Chemical Count</b> |
|----------------------------|-----------------------|
| UV-Screen                  | 1                     |
| Varroacide                 | 2                     |
| Vasodilator                | 7                     |
| Vasopressor                | 2                     |
| VEGF-Inhibitor             | 2                     |
| Vermifuge                  | 3                     |
| Verrucolytic               | 1                     |
| Vulnerary                  | 3                     |
| Xanthine-Oxidase-Inhibitor | 5                     |