

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in *Spartium junceum***

| <b>Activity</b>             | <b>Chemical Count</b> |
|-----------------------------|-----------------------|
| Pesticide                   | 11                    |
| Antiinflammatory            | 11                    |
| Cancer-Preventive           | 9                     |
| Antioxidant                 | 8                     |
| Antiviral                   | 7                     |
| Hypocholesterolemic         | 6                     |
| Fungicide                   | 6                     |
| Diuretic                    | 6                     |
| Antimutagenic               | 5                     |
| Hypotensive                 | 5                     |
| Hepatoprotective            | 5                     |
| Cytotoxic                   | 5                     |
| 5-Alpha-Reductase-Inhibitor | 4                     |
| Antiperoxidant              | 4                     |
| Vasodilator                 | 4                     |
| Antiaggregant               | 4                     |
| Aldose-Reductase-Inhibitor  | 4                     |
| Antiangiogenic              | 4                     |
| Antispasmodic               | 4                     |
| Antileukemic                | 4                     |
| Antiarrhythmic              | 4                     |
| Propecic                    | 4                     |
| Antitumor                   | 4                     |
| Antiherpetic                | 4                     |
| Anxiolytic                  | 4                     |
| Antiedemic                  | 4                     |
| Antihypertensive            | 4                     |

| Activity                          | Chemical Count |
|-----------------------------------|----------------|
| AntiHIV                           | 3              |
| Antitumor (Breast)                | 3              |
| Insectifuge                       | 3              |
| Ornithine-Decarboxylase-Inhibitor | 3              |
| Antialopecic                      | 3              |
| Antidepressant                    | 3              |
| Antiproliferant                   | 3              |
| Antileukotriene                   | 3              |
| Nematicide                        | 3              |
| Antiulcer                         | 3              |
| Antiosteoporotic                  | 3              |
| Antihistaminic                    | 3              |
| Apoptotic                         | 3              |
| Lubricant                         | 3              |
| VEGF-Inhibitor                    | 3              |
| Antiallergic                      | 3              |
| Allergenic                        | 3              |
| Immunostimulant                   | 3              |
| Antiatherosclerotic               | 3              |
| Xanthine-Oxidase-Inhibitor        | 3              |
| Estrogenic                        | 3              |
| Analgesic                         | 3              |
| Carcinogenic                      | 3              |
| Topoisomerase-I-Inhibitor         | 3              |
| Antiprostaitic                    | 3              |
| Antibacterial                     | 3              |
| Antiflu                           | 3              |

| Activity                  | Chemical Count |
|---------------------------|----------------|
| Antiarthritic             | 3              |
| Antiestrogenic            | 3              |
| Antiandrogenic            | 3              |
| FLavor                    | 3              |
| DNA-Protective            | 2              |
| Antinitrosaminic          | 2              |
| Cardioprotective          | 2              |
| Anticlimacteric           | 2              |
| Antiradicular             | 2              |
| Antihemolytic             | 2              |
| Antistress                | 2              |
| Antimelanomic             | 2              |
| Antiprostaglandin         | 2              |
| Molluscicide              | 2              |
| Aromatase-Inhibitor       | 2              |
| Laxative                  | 2              |
| Phytoalexin               | 2              |
| Antiobesity               | 2              |
| Irritant                  | 2              |
| Alpha-Reductase-Inhibitor | 2              |
| Perfumery                 | 2              |
| Antihepatotoxic           | 2              |
| Abortifacient             | 2              |
| Anticarcinomic (Breast)   | 2              |
| Teratogenic               | 2              |
| Mutagenic                 | 2              |
| Antimalarial              | 2              |

| Activity                         | Chemical Count |
|----------------------------------|----------------|
| COX-2-Inhibitor                  | 2              |
| Antistaphylococcic               | 2              |
| Quinone-Reductase-Inducer        | 2              |
| MAO-Inhibitor                    | 2              |
| Antiescherichic                  | 2              |
| Antianaphylactic                 | 2              |
| Choleretic                       | 2              |
| Antitumor (Ovary)                | 2              |
| Tumorigenic                      | 2              |
| Topoisomerase-II-Inhibitor       | 2              |
| Antiseptic                       | 2              |
| Antithrombic                     | 2              |
| cAMP-Phosphodiesterase-Inhibitor | 2              |
| Hypercholesterolemic             | 2              |
| AntiPMS                          | 2              |
| Antielastase                     | 2              |
| Antitumor (Skin)                 | 2              |
| Cathartic                        | 2              |
| Tyrosine-Kinase-Inhibitor        | 2              |
| Antitumor (Colon)                | 2              |
| Antinociceptive                  | 2              |
| Candidicide                      | 2              |
| Antirheumatic                    | 2              |
| Hypoglycemic                     | 2              |
| Calcium-Antagonist               | 2              |
| Antigonadotropic                 | 2              |
| Antifibrinolytic                 | 2              |

| Activity                                 | Chemical Count |
|--|----------------|
| Cosmetic                                 | 2              |
| PTK-Inhibitor                            | 2              |
| Antitumor-Promoter                       | 2              |
| Antiaflatoxin                            | 2              |
| Antithiamin                              | 2              |
| Hypouricemic                             | 2              |
| Antileukotriene-D4                       | 2              |
| Nematostat                               | 2              |
| Lipoxygenase-Inhibitor                   | 2              |
| Antiaging                                | 2              |
| Antidiabetic                             | 2              |
| Angiotensin-Receptor-Blocker             | 1              |
| PGE2-Inhibitor                           | 1              |
| AntiCrohn's                              | 1              |
| Topoisomerase-II-Poison                  | 1              |
| Allelochemic                             | 1              |
| Antithyroid                              | 1              |
| P450-Inhibitor                           | 1              |
| Antimitogenic                            | 1              |
| Immunomodulator                          | 1              |
| Testosterogenic                          | 1              |
| NADH-Ubiquinone-Oxidoreductase-Inhibitor | 1              |
| Dermatitogenic                           | 1              |
| Anticancer (Breast)                      | 1              |
| Bradycardic                              | 1              |
| Tachycardiagenic                         | 1              |
| Antigastric                              | 1              |

| Activity            | Chemical Count |
|---------------------|----------------|
| CYP1A1-Inhibitor    | 1              |
| Antilithic          | 1              |
| Hepatotropic        | 1              |
| Antiatherogenic     | 1              |
| Respirastimulant    | 1              |
| Antipodriac         | 1              |
| Metal-Chelator      | 1              |
| Antifertility       | 1              |
| Copper-Chelator     | 1              |
| Antishigellic       | 1              |
| Neuroprotective     | 1              |
| Antileishmanic      | 1              |
| Hemolytic           | 1              |
| Antianxiety         | 1              |
| Antiurethrotic      | 1              |
| Psychoactive        | 1              |
| Lyase-Inhibitor     | 1              |
| Antiencephalitic    | 1              |
| CNS-Depressant      | 1              |
| Vulnerary           | 1              |
| Antiimplantation    | 1              |
| Antitumor (Stomach) | 1              |
| Prooxidant          | 1              |
| Antipancreatic      | 1              |
| Antidote (Lead)     | 1              |
| Chemopreventive     | 1              |
| Uterocontractant    | 1              |

| Activity                    | Chemical Count |
|-----------------------------|----------------|
| Antihypercholesterolemic    | 1              |
| Estrogen-Agonist            | 1              |
| Antiadenoviral              | 1              |
| Antitumor (GI)              | 1              |
| Caspase-3-Inhibitor         | 1              |
| Tranquilizer                | 1              |
| Antitrypanosomic            | 1              |
| iNOS-Inhibitor              | 1              |
| Anticomplementary           | 1              |
| Capillariprotective         | 1              |
| TOPO-2-Inhibitor            | 1              |
| AntiRSV                     | 1              |
| Differentiator              | 1              |
| Antitachycardic             | 1              |
| Oxytotic                    | 1              |
| Antimenorrhagic             | 1              |
| Calcium-Channel-Blocker     | 1              |
| Antiprostataadenomic        | 1              |
| Antigout                    | 1              |
| Cytoprotective              | 1              |
| Histidine-Kinase-Inhibitor  | 1              |
| Antibacillary               | 1              |
| Bacteristat                 | 1              |
| Soap                        | 1              |
| Metalloproteinase-Inhibitor | 1              |
| Antifibrosarcomic           | 1              |
| NO-Genic                    | 1              |

| Activity             | Chemical Count |
|----------------------|----------------|
| Hepatocarcinogenic   | 1              |
| Antiarteriosclerotic | 1              |
| Antiplaque           | 1              |
| Collagen-Sparing     | 1              |
| Antiinsomniac        | 1              |
| Gastroprotective     | 1              |
| Prostaglandigenic    | 1              |
| Antiperiodontitic    | 1              |
| Lipase-Inhibitor     | 1              |
| Antieczemic          | 1              |
| Antihyperkinetic     | 1              |
| Flatulent            | 1              |
| Plasmodicide         | 1              |
| Juvabional           | 1              |
| Antidermatitic       | 1              |
| Catabolic            | 1              |
| DNA-Active           | 1              |
| Anemiagenic          | 1              |
| Antitumor (Bladder)  | 1              |
| Antineuroblastomic   | 1              |
| Insecticide          | 1              |
| Anticoronary         | 1              |
| Cardiodepressant     | 1              |
| P450-Inducer         | 1              |
| Antimicrobial        | 1              |
| ICAM-1-Inhibitor     | 1              |
| Anticataract         | 1              |



| Activity                   | Chemical Count |
|----------------------------|----------------|
| Termitifuge                | 1              |
| Antipsoriac                | 1              |
| NADH-Oxidase-Inhibitor     | 1              |
| AntiGTF                    | 1              |
| Deiodinase-Inhibitor       | 1              |
| Antimelanogenic            | 1              |
| Anticancer                 | 1              |
| Bradycardiac               | 1              |
| Suppository                | 1              |
| Antiproliferative          | 1              |
| MMP-9-Inhibitor            | 1              |
| Antiganglionic             | 1              |
| Cyclooxygenase-Inhibitor   | 1              |
| 11B-HSD-Inhibitor          | 1              |
| Antistreptococcic          | 1              |
| NO-Synthase-Inhibitor      | 1              |
| Antilipoperoxidant         | 1              |
| Antiasthmatic              | 1              |
| Respiradepressant          | 1              |
| MDR-Inhibitor              | 1              |
| Antifeedant                | 1              |
| COMT-Inhibitor             | 1              |
| NEP-Inhibitor              | 1              |
| AntiLegionella             | 1              |
| Hallucinogenic             | 1              |
| Antiulcerogenic            | 1              |
| Protein-Kinase-C-Inhibitor | 1              |

| Activity                     | Chemical Count |
|------------------------------|----------------|
| Antipermeability             | 1              |
| CNS-Active                   | 1              |
| Antihyperthyroid             | 1              |
| FPTase-Inhibitor             | 1              |
| Proliferant                  | 1              |
| Larvostat                    | 1              |
| Antidote (Aluminum)          | 1              |
| Antihydrophobic              | 1              |
| DOPA-Decarboxylase-Inhibitor | 1              |
| Antiacne                     | 1              |
| Phospholipase-Inhibitor      | 1              |
| Insulinogenic                | 1              |
| Anticystitic                 | 1              |
| Cardiotonic                  | 1              |
| Toxic                        | 1              |
| Antitic                      | 1              |
| Percutaneostimulant          | 1              |
| AntiMS                       | 1              |
| Anticolitic                  | 1              |
| TNF-alpha-Inhibitor          | 1              |
| Antihepatoadenomic           | 1              |
| Diaphoretic?                 | 1              |
| Antisunburn                  | 1              |
| Osteogenic                   | 1              |
| Antimenopausal               | 1              |
| Anticarcinogenic             | 1              |
| Tachycardic                  | 1              |

| Activity                      | Chemical Count |
|-------------------------------|----------------|
| Antiprostanoid                | 1              |
| Mosquitocide                  | 1              |
| Cytochrome-P450-1A2-Inhibitor | 1              |
| 5-Lipoxygenase-Inhibitor      | 1              |
| Antilymphomic                 | 1              |
| Histamine-Inhibitor           | 1              |
| ATPase-Inhibitor              | 1              |
| Sedative                      | 1              |
| Antipolio                     | 1              |
| Metal-Chelator (Copper)       | 1              |
| NF-kB-Inhibitor               | 1              |
| Hemostat                      | 1              |
| Antivaccinia                  | 1              |
| Antipharyngitic               | 1              |
| MAO-A-Inhibitor               | 1              |
| Antiendocytotic               | 1              |
| Co-carcinogenic               | 1              |
| Natriuretic                   | 1              |
| Fungistat                     | 1              |
| Antialzheimeran               | 1              |
| Antiperiodontal               | 1              |
| Leukotriene-Inhibitor         | 1              |
| AntiEBV                       | 1              |
| Cholagogue                    | 1              |
| Uterotrophic                  | 1              |
| Antihyperglycemic             | 1              |
| Antitumor (Lung)              | 1              |

| Activity                   | Chemical Count |
|----------------------------|----------------|
| Pituitary-sensitizer       | 1              |
| Antiophidic                | 1              |
| JNK-Inhibitor              | 1              |
| Antidermatic               | 1              |
| Caspase-9-Inhibitor        | 1              |
| Trypanosomastat            | 1              |
| Peroxidase-Inhibitor       | 1              |
| Antimyocarditic            | 1              |
| Inotropic                  | 1              |
| Anticonvulsant             | 1              |
| Antisalmonella             | 1              |
| Aldehyde-Oxidase-Inhibitor | 1              |
| Oxytoxic                   | 1              |
| Antimetastatic             | 1              |
| Anticariogenic             | 1              |
| Calmodulin-Antagonist      | 1              |
| Teratologic                | 1              |
| Myorelaxant                | 1              |
| Antigranular               | 1              |
| AntiMDR                    | 1              |
| HIV-RT-Inhibitor           | 1              |
| Beta-Blocker               | 1              |
| Sunscreen                  | 1              |
| Antiproliferant (colon)    | 1              |
| Metastatic                 | 1              |
| Curaroid                   | 1              |
| Antistomatitic             | 1              |

| Activity                               | Chemical Count |
|--|----------------|
| NO-Inhibitor                           | 1              |
| Hepatomagenic                          | 1              |
| Radioprotective                        | 1              |
| Antiplasmodial                         | 1              |
| Mast-Cell-Stabilizer                   | 1              |
| Comedolytic                            | 1              |
| Antiischemic                           | 1              |
| Glucosyl-Transferase-Inhibitor         | 1              |
| Antiulcer?                             | 1              |
| Prostaglandin-Synthesis-Inhibitor      | 1              |
| Antiperistaltic                        | 1              |
| Clastogenic                            | 1              |
| Vasorelaxant                           | 1              |
| Antitumor (Prostate)                   | 1              |
| Pressor                                | 1              |
| Antioxalate                            | 1              |
| Larvicide                              | 1              |
| Catechol-O-Methyltransferase-Inhibitor | 1              |
| Tyrosinase-Inhibitor                   | 1              |