

**Dr. Duke's Phytochemical and Ethnobotanical Databases**  
**Biological Activities found in Pinus cembroides**

| <b>Activity</b>      | <b>Chemical Count</b> |
|----------------------|-----------------------|
| Vulnerary            | 1                     |
| Vasodilator          | 4                     |
| Urinary-Acidulant    | 1                     |
| Uricosuric           | 2                     |
| Ubiquiot             | 1                     |
| Tranquilizer         | 1                     |
| Thymoprotective      | 1                     |
| Serotoninerpic       | 1                     |
| Sedative             | 1                     |
| Prooxidant           | 2                     |
| Phagocytotic         | 1                     |
| Pesticide            | 2                     |
| Osteogenic           | 1                     |
| Neuroprotective      | 1                     |
| Mucolytic            | 1                     |
| Mucogenic            | 1                     |
| Lithogenic           | 1                     |
| Laxative             | 2                     |
| Interferonogenic     | 1                     |
| Interferon-Synergist | 1                     |
| Insectifuge          | 1                     |
| Immunostimulant      | 3                     |
| Immunomodulator      | 1                     |
| Hypouricemic         | 1                     |
| Hypotensive          | 3                     |
| Hypolipidemic        | 1                     |
| Hypoglycemic         | 3                     |

| Activity                         | Chemical Count |
|----------------------------------|----------------|
| Hypocholesterolemic              | 4              |
| Hyperglycemic                    | 1              |
| Hepatotoxic                      | 1              |
| Hepatoprotective                 | 1              |
| Gastroprotective                 | 1              |
| Fistula-Preventive               | 1              |
| Fibrinolytic                     | 1              |
| Diuretic                         | 3              |
| Detoxicant                       | 1              |
| COX-2-Inhibitor                  | 1              |
| COX-1-Inhibitor                  | 1              |
| Colorant                         | 1              |
| Collagenic                       | 1              |
| Cold-preventive                  | 1              |
| Circulotonic                     | 1              |
| Chemopreventive                  | 1              |
| Cardioprotective                 | 3              |
| Cancer-Preventive                | 5              |
| Calcium-Channel-Blocker          | 1              |
| Calcium-Antagonist               | 1              |
| Beta-Glucuronidase-Inhibitor     | 1              |
| Beta-Blocker                     | 1              |
| Beta-Adrenergic Receptor Blocker | 1              |
| Asthma-preventive                | 1              |
| Apoptotic                        | 1              |
| Anxiolytic                       | 2              |
| Antixerophthalmic                | 1              |

| Activity             | Chemical Count |
|----------------------|----------------|
| Antiviral            | 1              |
| Antivertigo          | 1              |
| Antiuricosuric       | 1              |
| Antiulcer            | 3              |
| Antitumor (Stomach)  | 1              |
| Antitumor (Prostate) | 1              |
| Antitumor (Lung)     | 2              |
| Antitumor (Gastric)  | 1              |
| Antitumor (Colon)    | 1              |
| Antitumor (CNS)      | 1              |
| Antitumor (Breast)   | 1              |
| Antitumor            | 2              |
| Antitic              | 1              |
| Antisyndrome-X       | 1              |
| Antistress           | 3              |
| Antispasmodic        | 2              |
| Antishingles         | 1              |
| Antiseptic           | 1              |
| Antiscotomic         | 1              |
| Antiscorbutic        | 1              |
| Antirhinitic         | 1              |
| Antirheumatic        | 3              |
| Antiretinotic        | 1              |
| AntiRaynaud's        | 2              |
| Antiradicular        | 2              |
| Antipyretic          | 2              |
| Antipsoriatic        | 1              |

| Activity           | Chemical Count |
|--------------------|----------------|
| Antiproliferant    | 1              |
| Antiporphyrin      | 1              |
| Antipoliomyelitic  | 2              |
| Antipodriac        | 1              |
| Antipneumonic      | 1              |
| AntiPMS            | 2              |
| Antipityriasis     | 1              |
| Antiphotophobic    | 2              |
| Antiperiodontic    | 2              |
| Antipellagic       | 2              |
| Antiparotitic      | 1              |
| Antiparkinsonian   | 2              |
| Antipapillomic     | 1              |
| Antiozenic         | 1              |
| Antioxidant        | 3              |
| Antiosteoporotic   | 3              |
| Antiosteoarthritic | 1              |
| Antiorchitic       | 1              |
| Antiobesity        | 3              |
| Antinitrosic       | 1              |
| Antineuropathic    | 1              |
| Antineuritic       | 1              |
| Antineurasthenic   | 1              |
| Antineuramidase    | 1              |
| Antineuralgic      | 2              |
| Antimyocarditic    | 1              |
| Antimutagenic      | 2              |

| Activity           | Chemical Count |
|--------------------|----------------|
| Antimigraine       | 3              |
| Antimenorrhagic    | 1              |
| Antimenopausal     | 2              |
| AntiMeniere's      | 1              |
| Antimeasles        | 1              |
| Antimastitic       | 1              |
| Antimaculitic      | 2              |
| AntiLyme           | 4              |
| Antilupus          | 1              |
| Antilithic         | 1              |
| Antilipoperoxidant | 1              |
| Antileukoplakic    | 1              |
| Antileptic         | 1              |
| Antikeratitic      | 1              |
| Antiinsomnic       | 1              |
| Antiinsomniac      | 1              |
| Antiinflammatory   | 2              |
| Antiinfertility    | 1              |
| Antiichthyotic     | 1              |
| Antihypertensive   | 3              |
| Antihyperkinetic   | 1              |
| Antihyperkeratotic | 1              |
| Antihyperactivity  | 1              |
| Antihistaminic     | 2              |
| Antiherpetic       | 2              |
| Antihepatotoxic    | 1              |
| Antihepatitic      | 1              |

| Activity            | Chemical Count |
|---------------------|----------------|
| Antihemorrhagic     | 1              |
| Antiheartburn       | 1              |
| Antihangover        | 3              |
| Antiglossitic       | 1              |
| Antiglaucomic       | 1              |
| Antigingivitic      | 1              |
| Antigastritic       | 2              |
| Antigallstone       | 1              |
| Antifibrotic        | 1              |
| Antifatigue         | 2              |
| Antiepileptic       | 1              |
| Antiendometriotic   | 1              |
| Antiencephalopathic | 1              |
| Antiencephalitic    | 1              |
| Antiedemic          | 1              |
| Antieczemic         | 1              |
| Antidysphagic       | 1              |
| Antidyspeptic       | 1              |
| Antidote (Paraquat) | 1              |
| Antidote (Lead)     | 2              |
| Antidote (Cadmium)  | 1              |
| Antidote (Aluminum) | 2              |
| Antidiabetic        | 3              |
| Antidermatitic      | 1              |
| Antidepressant      | 2              |
| Antidementia        | 3              |
| Antideliriant       | 1              |

| Activity              | Chemical Count |
|-----------------------|----------------|
| Antidecubitic         | 3              |
| AntiCTS               | 1              |
| AntiCrohn's           | 1              |
| Anticoronary          | 1              |
| Anticonvulsant        | 1              |
| Anticolitic           | 1              |
| Anticold              | 1              |
| Anticlimacteric       | 2              |
| Antichilblain         | 1              |
| Anticheilitic         | 2              |
| AntiCFS               | 1              |
| Anticervicaldysplasic | 3              |
| Anticephalagic        | 1              |
| Anticataract          | 4              |
| Anticarpal-Tunnel     | 1              |
| Anticardiospasmic     | 1              |
| Anticarcinomic        | 1              |
| Anticanker            | 2              |
| Anticancer            | 1              |
| Antiberiberi          | 1              |
| Antibacterial         | 1              |
| Antibackache          | 1              |
| Antiatherosclerotic   | 2              |
| Antiasthmatic         | 2              |
| Antiarthritic         | 3              |
| Antiarrhythmic        | 1              |
| Antiarabiflavinotic   | 1              |

| Activity                     | Chemical Count |
|------------------------------|----------------|
| Antianxiety                  | 1              |
| Antianorectic                | 1              |
| Antianginal                  | 1              |
| Antianemic                   | 1              |
| Antiamblyopic                | 1              |
| Antialzheimeran              | 3              |
| Antiallergic                 | 3              |
| Antialcoholic                | 1              |
| Antiakathisic                | 1              |
| Antiaging                    | 2              |
| Antiaggregant                | 2              |
| AntiAGE                      | 1              |
| Antiacrodynic                | 1              |
| Antiacne                     | 1              |
| Angiotensin-Receptor-Blocker | 2              |
| Androgenic?                  | 1              |
| Analgesic                    | 2              |
| Allergenic                   | 2              |
| Aldose-Reductase-Inhibitor   | 1              |
| Acidulant                    | 1              |