

Biological Activities of **Garcinia Mangostana L**

The following is a compilation of scientific research into the biological activities of *Garcinia mangostana* L. (mangosteen fruit) conducted by Dr. James A. Duke. Dr. Duke is the world renowned ethnobotanist who spent 30 years with the USDA, has written 29 books and maintains the world's most complete database of biological activities of foods and herbs. (<http://www.ars-grin.gov/duke>)

Source: USDA, ARS, National Genetic Resources Program. *Phytochemical and Ethnobotanical Databases*. [Online Database] National Germplasm Resources Laboratory, Beltsville, Maryland. 14 September 2003.

The number in () indicates how many separate chemicals this species has for that activity, for example, Analgesic (3) indicates this species has three separate chemicals that have Analgesic activity.

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| 1. Acidulant (1) | 51. Antidepressant (3) | 104. Antiosteoarthritic (1) | 153. Cold-preventive (1) |
| 2. Aldose-Reductase-Inhibitor (1) | 52. Antidermatitic (1) | 105. Antiosteoporotic (3) | 154. Collagenic (1) |
| 3. Allergenic (3) | 53. Antidiabetic (3) | 106. Antioxidant (2) | 155. Colorant (1) |
| 4. Alpha-Amylase-Inhibitor (1) | 54. Antidiarrheic (1) | 107. Antioxidant Synergist (1) | 156. Cytotoxic (1) |
| 5. Analgesic (2) | 55. Antidote (Aluminum) (2) | 108. Antiozenic (1) | 157. Demulcent (1) |
| 6. Androgenic? (1) | 56. Antidote (Cadmium) (1) | 109. Antiparkinsonian (2) | 158. Detoxicant (1) |
| 7. Angiotensin-Receptor-Blocker (3) | 57. Antidote (Lead) (2) | 110. Antiparotitic (1) | 159. Disinfectant (1) |
| 8. AntiAGE (1) | 58. Antidote (Paraquat) (1) | 111. Antipellagic (2) | 160. Diuretic (4) |
| 9. AntiCrohn's (1) | 59. Antidysphagic (1) | 112. Antiperiodontitic (2) | 161. Dye (1) |
| 10. AntiHIV (1) | 60. Antieczemic (1) | 113. Antiphotophobic (2) | 162. FLavor (2) |
| 11. AntiMeniere's (1) | 61. Antiedemic (1) | 114. Antipyriasis (1) | 163. Fistula-Preventive (1) |
| 12. AntiPMS (2) | 62. Antiencephalitic (1) | 115. Antipneumonic (1) | 164. Fungicide (2) |
| 13. Antiacne (1) | 63. Antiencephalopathic (1) | 116. Antipodriac (1) | 165. Hemostat (2) |
| 14. Antiacrodynic (1) | 64. Antiepileptic (1) | 117. Antipoliomyelitic (2) | 166. Hepatoprotective (1) |
| 15. Antiaggregant (1) | 65. Antifatigue (2) | 118. Antiporphyrin (1) | 167. Hypertensive (1) |
| 16. Antiaging (2) | 66. Antifeedant (1) | 119. Antiproliferant (1) | 168. Hypcholesterolemic (4) |
| 17. Antiakathic (1) | 67. Antiflu (1) | 120. Antipsoriac (1) | 169. Hypoglycemic (3) |
| 18. Antialcoholic (1) | 68. Antigastritic (1) | 121. Antipyretic (1) | 170. Hypolipemic (1) |
| 19. Antiallergic (2) | 69. Antigingivitic (1) | 122. Antiradicular (2) | 171. Hypolipidemic (1) |
| 20. Antialzheimeran (1) | 70. Antiglaucomic (1) | 123. Antiscorbutic (1) | 172. Hypotensive (3) |
| 21. Antiamblyopic (1) | 71. Antiglossitic (1) | 124. Antiscotomic (1) | 173. Hypouricemic (1) |
| 22. Antianemic (1) | 72. Antiheartburn (1) | 125. Antiseborrheic (1) | 174. Immunostimulant (3) |
| 23. Antianginal (1) | 73. Antihemorrhagic (1) | 126. Antiseptic (3) | 175. Insectifuge (1) |
| 24. Antianorectic (1) | 74. Antihepatitic (1) | 127. Antishingles (1) | 176. Interferon-Synergist (1) |
| 25. Antianxiety (1) | 75. Antihepatotoxic (1) | 128. Antispasmodic (2) | 177. Interferonogenic (1) |
| 26. Antiaphthic (1) | 76. Antiherpetic (2) | 129. Antistress (1) | 178. Irritant (1) |
| 27. Antiarabiflavivotic (1) | 77. Antihistaminic (2) | 130. Antisyndrome-X (1) | 179. Laxative (1) |
| 28. Antiarhythmic (1) | 78. Antihyperactivity (1) | 131. Antitic (1) | 180. Laxative? (1) |
| 29. Antiarthritic (1) | 79. Antihyperkeratotic (1) | 132. Antitubercular (1) | 181. Lithogenic (1) |
| 30. Antiasthmatic (2) | 80. Antihyperkinetic (1) | 133. Antitumor (4) | 182. Litholytic (1) |
| 31. Antiatheromic (1) | 81. Antihypertensive (4) | 134. Antitumor (Colon) (1) | 183. Mucogenic (1) |
| 32. Antiatherosclerotic (3) | 82. Antiichthyotic (1) | 135. Antitumor (Lung) (1) | 184. Mucolytic (1) |
| 33. Antibackache (1) | 83. Antiinfertility (1) | 136. Antitussive (1) | 185. Mycobactericide (1) |
| 34. Antibacterial (4) | 84. Anti-inflammatory (2) | 137. Antiulcer (4) | 186. Odontolytic (1) |
| 35. Antiberiberi (1) | 85. Antiinsomniac (1) | 138. Antivertigo (1) | 187. Osteogenic (1) |
| 36. Anticalculic (1) | 86. Antiinsomnic (1) | 139. Antiviral (2) | 188. Peristaltic (1) |
| 37. Anticancer (1) | 87. Antikeratitic (1) | 140. Antixerophthalmic (1) | 189. Pesticide (4) |
| 38. Anticarcinomic (2) | 88. Antileptic (1) | 141. Aphidifuge (1) | 190. Phagocytotic (1) |
| 39. Anticardiospasmic (1) | 89. Antileukoplakic (1) | 142. Apoptotic (1) | 191. Prooxidant (1) |
| 40. Anticarpal-Tunnel (1) | 90. Antilupus (1) | 143. Asthma-preventive (1) | 192. Prostaglandin-Synthesis-Inhibitor (1) |
| 41. Anticataract (2) | 91. Antimastitic (1) | 144. Beta-Adrenergic Receptor Blocker (1) | 193. Refrigerant (1) |
| 42. Anticheilitic (2) | 92. Antimeasles (1) | 145. Beta-Blocker (2) | 194. Sedative (1) |
| 43. Antichilblain (1) | 93. Antimenorrhagic (1) | 146. Beta-Glucuronidase-Inhibitor (1) | 195. Serotonergic (1) |
| 44. Anticoagulant (1) | 94. Antimigraine (3) | 147. Calcium-Antagonist (1) | 196. Thymoprotective (1) |
| 45. Anticold (1) | 95. Antimutagenic (4) | 148. Calcium-Channel-Blocker (1) | 197. Topoisomerase-II-Inhibitor (1) |
| 46. Anticolitic (1) | 96. Antimyocarditic (1) | 149. Cancer-Preventive (6) | 198. Ubiquit (1) |
| 47. Anticonvulsant (1) | 97. Antineuralgic (2) | 150. Cardioprotective (1) | 199. Uricosuric (1) |
| 48. Anticoronary (1) | 98. Antineurasthenic (1) | 151. Cardiotoxic (1) | 200. Urinary-Acidulant (1) |
| 49. Antidecubitic (3) | 99. Antineuritic (1) | 152. Chemopreventive (1) | 201. Vasodilator (5) |
| 50. Antideliriant (1) | 100. Antineuropathic (1) | | 202. Vulnerary (1) |
| | 101. Antinitrosic (1) | | |
| | 102. Antiobesity (3) | | |
| | 103. Antiorchitic (1) | | |