

## *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.

- |                                     |                             |   |  |
|-------------------------------------|-----------------------------|---|--|
| 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. Antipyriasic (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. Antiakathisic (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. Antiarabiflavinotic (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)       |   |  |