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(54) Title: PHYTOCHEMICAL COMPOSITIONS AND TECHNIQUES FOR IMMUNOMODULATION, INCLUDING ANTI-PATHOGEN AND ANTI-AUTOIMMUNE-DISORDER IMMUNOMODULATION

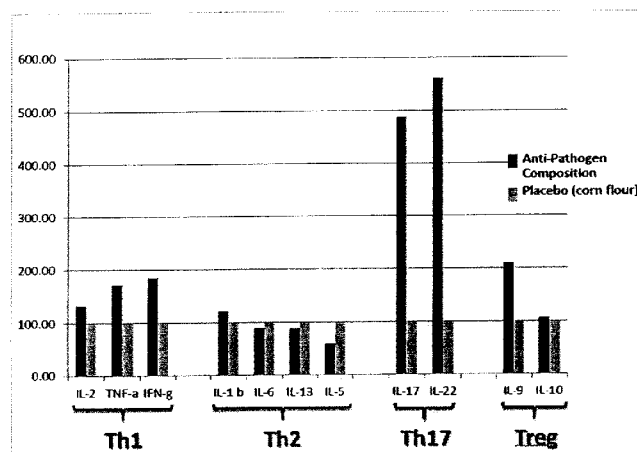


FIG. 1

(57) **Abstract:** A phytochemical anti-pathogen / anti-cancer composition includes an extract of mangosteen; an extract of defatted soybean; an extract of gotu kola; and optionally an extract of black sesame, where an amount of the extract of black sesame is controlled relative to an amount of the extract of gotu kola, or an amount of a combination of the extract of mangosteen, the extract of defatted soybean, and the extract of gotu kola, in order to preferentially support anti-pathogen / anti-cancer immunomodulatory effects. A phytochemical anti-autoimmune-disorder composition includes an extract of mangosteen; an extract of defatted soybean; an extract of defatted black sesame; and optionally an extract of gotu kola, where an amount of the extract of gotu kola is controlled relative to an amount of the extract of defatted black sesame, or an amount of a combination of the extract of mangosteen, the extract of defatted soybean, and the extract of defatted black sesame, in order to preferentially support anti-autoimmune-disorder immunomodulatory effects. The anti-pathogen / anti-cancer composition and the anti-autoimmune-disorder composition can support or provide antipode immunomodulatory effects relative to each other.

