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(54) Title: ANTI-INFLAMMATORY COMPOSITIONS, METHODS AND USES THEREOF

(57) Abstract: The disclosure relates to compositions comprising 3,6,7-trimethylumazine. In particular, Manuka honey is an example of a composition comprising 3,6,7-trimethylumazine. The composition is useful in preventing, ameliorating or treating TG2, JAK, and/or COX-2 associated conditions. These conditions include inflammation, pain, ulcers, Crohn's disease, reflux, gingivitis, schizophrenia, neurodegenerative disorders, Alzheimer's disease, Parkinson's disease, arthritis, cardiovascular diseases and cancers.

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