

Licensing and Technology Transfer Opportunity: Manipal University

Title of Technology Available: A nontoxic, non-ulcerogenic, pleiotropic novel synthetic small molecule for treating chronic inflammation

Brief Description of Invention: A synthetic novel small molecules for treating of chronic inflammation without any ulcerogenic property.

Brief Background of Invention: Dysregulated inflammatory processes lead to chronic inflammation. Treatment of chronic inflammation is a major challenge. Many of the drugs used to treat chronic inflammation are Non-Steroidal Anti Inflammatory Drugs (NSAID) that target arachidonic acid pathway that generates inflammatory mediators such as prostaglandins and leukotriens. Long term treatment with NSAIDs leads to severe side effects such as ulcerogenicity and renal toxicity, to name a few. The current strategy focuses on drugs that exclusively address single targets in isolation. Targeting multiple pathways that regulate both inflammation and oxidative stress could offer a novel therapeutic strategy.

Describe the final product: Synthetic small molecule.

Technological Domain (Keywords): Pharmacology, anti-inflammatory molecules

Proof of Concept:

Stage of Development: Ideation/Prototype/Advanced Prototype/Market Ready product:
Prototype

Provide Information on Competitors who manufacture and/or sell similar products: ---

What are the unique advantages your innovation has compared to the competition:

No visible toxicity upto 2000mg/kg, ulcerogenicity was not found on chronic dosing.

Have you approached any company/industry to manufacture/license/and sell your invention?:
If yes, Provide details of the company/organization and the contact person
No

Any other information that might be useful:
Nil

Intellectual Property Status: Patent filed.