Inflammation & Infectious Disease

Methods and Compositions for Treatment and Prevention of Inflammatory Conditions

Inventor: JD Li
IP status: Patent pending
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Introduction: Present methods for treating inflammation employ using steroids. Although steroids are highly potent anti-inflammatory agents, they are accompanied with detrimental health effects. Therefore, novel and “gentler” treatment methods are needed to treat inflammation.

Technology: Georgia State University and Rochester researchers have discovered anti-inflammatory properties of Vinpocetine for the first time. Anti-inflammatory response is achieved in vitro and in vivo by inhibiting NF-kappa B-dependent pathway. The advantage is that Vinpocetine is already a clinically approved drug for brain-related disorders and is known for PDE1 inhibition and regulation of calcium and sodium channels.

Applications:

- Highly promising anti-inflammatory drug candidate for the treatment of diseases, such as atherosclerosis, lung inflammatory disease and arthritis, among others
- Can be used to treat inflammation alone or in combination with other therapeutic agents

Advantages:

- Vinpocetine is a natural product in clinical use for decades, therefore proven clinically safe
- Overcomes the deleterious effects of steroidal anti-inflammatory agents
- Repurposed drug: faster and easier clinical approval

Contact: Chester A. Bisbee, 404-413-3507, cbisbee@gsu.edu