

Endocannabinoid Pathway Targeted Drug Demonstrates Proof-of-Concept Efficacy in a Cutaneous Lupus Erythematosus Mouse Model

NEW YORK, Dec. 21, 2020 /PRNewswire/ -- **Hoth** (NASDAQ: HOTH) has a partnership agreement with **Zylö Therapeutics Inc.**, to co-develop a new topical treatment for patients with Cutaneous Lupus Erythematosus (CLE), a chronic autoimmune disease that affects the skin and is associated with a significant burden on patient quality of life. Therapeutic options for CLE are limited to steroids (topical and oral), topical calcineurin inhibitors, and other immunomodulating therapies that could have adverse effects during long-term use. Zylö Therapeutics has developed a patented topical delivery system using xerogel-derived nanoparticles called Z-pods™. Hoth has an exclusive license to develop HT-005, a drug that targets the endocannabinoid pathway, encapsulated in the Z-pods™ to enhance absorption into the skin. To investigate proof-of concept efficacy of HT-005 loaded Z-pods™, Zylö Therapeutics conducted a study in MRL/MpJ-Faslpr/J mice, an established animal model that shows symptoms similar to systemic lupus erythematosus (SLE) in humans. Results from the study demonstrated that the novel HT-005 loaded Z-pods™ were effective to reduce skin plaques associated with CLE, with statistical significance demonstrated in the overall average skin score as well as individual skin scores on the head and scapula.

Study Title: *Topical treatment of cutaneous lesions in the MRL-Lpr mouse model of SLE*

- 8 week old MRL/MpJ-Faslpr/J mice were randomly placed into a dosing group according to the Table below when an animal developed a skin plaque score of 1.
- Mice were treated for 10 weeks with either HT-005 alone or HT-005 encapsulated in Z-pods™ or not treated (control) HT-005 Z-Pods™

HT-005 Z-Pods™

Includes a novel topical delivery matrix (Z-Pods™) loaded with an endogenous ligand with suspected immune-modulating action. Z-Pods™ use patented xerogel-derived nanoparticles for sustained and controlled topical delivery of active pharmaceutical ingredients.

Partnership

The study was conducted at The Jackson Laboratory

Profile

Hoth Therapeutics, Inc. is a clinical-stage biopharmaceutical company focused on developing new generation therapies for dermatological disorders. Hoth's mission is to develop novel therapies that improve patient quality of life. Hoth has exclusive worldwide rights to the BioLexa Platform.


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