

Anti-inflammatory chemical constituents of *Cordyceps militaris*

Hyung Jun Noh¹, Juyoung Yoon², Geum Sook Kim¹, Seung Eun Lee¹, Dae Young Lee¹, Je Hun Choi¹, Seung Yu Kim¹, Hyun Bong Park², Kang Ro Lee² and Jae Youl Cho²

¹National Institute of Horticultural & Herbal Science, Korea

²Sungkyunkwan University, Korea

Cordyceps militaris (Clavicipitales) is an edible mushroom which is widely distributed in China, Japan and Korea. Various phytochemical constituents, cordycepin, homocitrullylaminoadenosine and sterols have been reported from this source and a wide range of biological activities, including antimicrobial, macrophage activation, anticancer, immune modulatory effects were studied. In a continuing search for bioactive constituents from Korean mushrooms, we performed a phytochemical investigation of the MeOH extract from the fruiting bodies of *C. militaris*. By repeated column chromatographic separation of the extract, fourteen compounds were isolated. The identification and structural elucidation of the compound was based on NMR spectral data. The NF- κ B mediated luciferase activities were performed for measuring their immunomodulatory roles.

jumpspace@korea.kr