

### Anti-inflammatory chemical constituents of *Cordyceps militaris*

Hyung Jun Noh<sup>1</sup>, Juyoung Yoon<sup>2</sup>, Geum Sook Kim<sup>1</sup>, Seung Eun Lee<sup>1</sup>, Dae Young Lee<sup>1</sup>, Je Hun Choi<sup>1</sup>, Seung Yu Kim<sup>1</sup>, Hyun Bong Park<sup>2</sup>, Kang Ro Lee<sup>2</sup> and Jae Youl Cho<sup>2</sup>

<sup>1</sup>National Institute of Horticultural & Herbal Science, Korea

<sup>2</sup>Sungkyunkwan 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- $\kappa$ B mediated luciferase activities were performed for measuring their immunomodulatory roles.

[jumospace@korea.kr](mailto:jumospace@korea.kr)