

## Novel Compound from *Brassica oleracea* Modulates Cytokine il-23/il-17 in Spondylitis

Li ZHANG \*, Ai-E HUANG, Jia-Zuo SHEN, Jian-Cong LIN & Wen-Bin YE

*Department of Spinal Surgery, Zhangzhou Affiliated Hospital of Fujian Medical University, Zhangzhou, Fujian, China*

**SUMMARY.** Spondylitis is an inflammatory, systemic immune system disorder primarily involving the sacroiliac joints, spine, and peripheral joints, which is typically characterized by an inflammatory response of the ligaments, tendons, and bony articular capsule attachments. *Brassica oleracea* is an important plant with various biological actives, which was proved has anti-microbial activity, anti-oxidant activity, and so on. After the extraction and structure identification of active ingredients from *Brassica oleracea*, their efficacy in the treatment of spondylitis was evaluated. Finally, the neighbour-joining phylogenetic analysis of the *Brassica oleracea* was also explored.

**RESUMEN.** La espondilitis es un trastorno inflamatorio sistémico del sistema inmunológico que afecta principalmente a las articulaciones sacroilíacas, la columna vertebral y las articulaciones periféricas, y que generalmente se caracteriza por una respuesta inflamatoria de los ligamentos, tendones y uniones de la cápsula articular ósea. *Brassica oleracea* es una planta importante con varios activos biológicos, que se ha demostrado que tiene actividad antimicrobiana, actividad antioxidante, etc. Después de la extracción e identificación de la estructura de los ingredientes activos de *Brassica oleracea*, se evaluó su eficacia en el tratamiento de la espondilitis. Finalmente, también se exploró el análisis filogenético de unión de vecinos de *Brassica oleracea*.

**KEY WORDS:** *Brassica oleracea*, phylogenetic analysis, spondylitis.

\* Author to whom correspondence should be addressed. *E-mail:* chinadoctorzhang@163.com