

MWL, a marine-derived compound, attenuates acute postoperative pain in rats

Hui-Lu Chen (陳惠如)¹, Shi-Ying Huang (黃世英)¹, Ping-Jyun Sung (宋秉鈞)², Zhi-Hong Wen (溫志宏)¹

¹Department of Marine Biotechnology and Resources, National Sun Yat-sen University, Kaohsiung, Taiwan;

²Taiwan Coral Research Center, National Museum of Marine Biology and Aquarium, Pingtung, Taiwan

By *in-vitro* screening system in our laboratory, earlier MWL has shown anti-inflammatory activity. A plantar incision is commonly used to produce postoperative pain behaviors in animal models. The present aim is the development and identification of MWL for anti-inflammatory and analgesic activities in a rat plantar incision model. The present study showed that MWL significantly produced analgesic and anti-inflammatory effects in a rat plantar incision model for postoperative pain.