

The secretion and excretion of maggot (maggot ES) promote wound healing by regulating the differentiation subtype of macrophages

Tian-Yuan Wang

Air Force Hospital of Eastern Theater Command, China

Objective: To investigate the effect of maggot ES on macrophage subtype differentiation.

Methods: Macrophages were treated with ES of different concentrations and time gradients; The marker molecules of macrophage subtypes were detected after harvesting cells.

Results: iNOS, TNF- α , IL-1 β and IL-6 in macrophages after ES treatment, was highly expressed; The expression of MR and Arg1 was significantly down regulated.

Conclusion: Maggot ES can promote the differentiation of macrophages into M1 pro-inflammatory type and inhibit the differentiation into M2 anti-inflammatory type, providing a research basis for the further study of ES in promoting refractory wounds.