#### Taraxacum mongolicum Hand.-Mazz. derived extracellular vesicles alleviate mastitis

#### via NLRP3 inflammasome and NF-KB/MAPK pathways

Yuan Sun,<sup>a</sup> Ying Liu,<sup>a</sup> Jinxian Li,<sup>a</sup> Shan Huang,<sup>b</sup> Yiyang Du,<sup>a</sup> Danyang Chen,<sup>a</sup> Min Yang<sup>a\*</sup> and Yinghua Peng<sup>a\*</sup>

alnstitute of Special Animal and Plant Sciences, Chinese Academy of Agricultural Sciences,

Changchun, Jilin, 130112, China

<sup>b</sup>School of Chemistry and Life Science, Changchun University of Technology, Changchun, jilin,130012, China

Correspondence: Yinghua Peng, Min Yang, Institute of Special Animal and Plant Sciences, Chinese Academy of Agricultural Sciences, Changchun, Jilin, 130112, China, Email: pengyinghua@caas.cn, yangmin01@caas.cn

Table 1: The primer sequences of inflammatory genes	
Gene	Primer sequence
GAPDH	F: GGTCGGTGTGAACGGATTTGG
	R: GCCGTGGGTAGAGTCATACTGGAAC
TNF-α	F: ATGTCTCAGCCTCTTCTCATTC
	R: GCTTGTCACTCGAATTTTGAGA
IL-1β	F: GCTGCTTCCAAACCTTTGAC
	R: AGCTTCTCCACAGCCACAAT
IL-6	F: CTCCCAACAGACCTGTCTATAC
	R: CCATTGCACAACTCTTTTCTCA
INOS	F: CCTTCCGAAGTTTCTGGCAGCAGC
	R: GGCTGTCAGAGCCTCGTGGCTTTGG
COX2	F: ACACACTCTATCACTGGCACC
	R: TTCAGGGAGAAGCGTTTGC
NLRP3	F: GAGCTGGACCTCAGTGACAATGC
	R: ACCAATGCGAGATCCTGACAACAC-3
ASC	F: CAGGCGAGCAGCAGCAAGAG
	R: CAAGAGCGTCCAGGATGGCATC
Caspase-1	F: ACAACCACTCGTACACGTCTTGC
	R: CCAGATCCTCCAGCAGCAACTTC

# Western blot raw data:

#### Blots

# Merge

Bright

IL-1 $\beta$  in Fig. 2F







GAPDH for IL-1β







IL-6 in Fig. 2F







### $\beta$ -actin for IL-6





50 kDa 40 kDa 35 kDa



COX2 in Fig. 2F



GAPDH for COX2





GADPH



50 kDa 40 kDa 35 kDa

# NLRP3 in Fig. 3D









**GAPDH for NLRP3** 



ASC in Fig. 3D











### $\beta$ -actin for ASC







Caspase-1 in Fig. 3D







**GAPDH for Caspase-1** 







### p-P65 in Fig. 3H



GAPDH for p-P65



70 kDa 50 kDa









p-JNK in Fig. 3H







#### GAPDH for p-JNK





40 kDa 35 kDa











β-actin for p-P38







# p-ERK in Fig. 3H





50 kDa 40 kDa



GAPDH for p-ERK



ASC in Fig. 6A





# $\beta$ -actin for ASC







# Caspase-1 in Fig. 6A





50 kDa 40 kDa 35 kDa



β-actin for Caspase-1







# p-P65 in Fig. 6D





70 kDa 50 kDa



 $\beta$ -actin for p-P65





50 kDa 45 kDa 35 kDa



p-JNK in Fig. 6F







# GAPDH for p-JNK







p-ERK in Fig. 6F



GAPDH for p-ERK



