Adult astrocytes from reptiles are resistant to proinflammatory activation *via* sustaining Vav1 expression

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Running title: Reptile astrocytes are resistant to inflammatory activation

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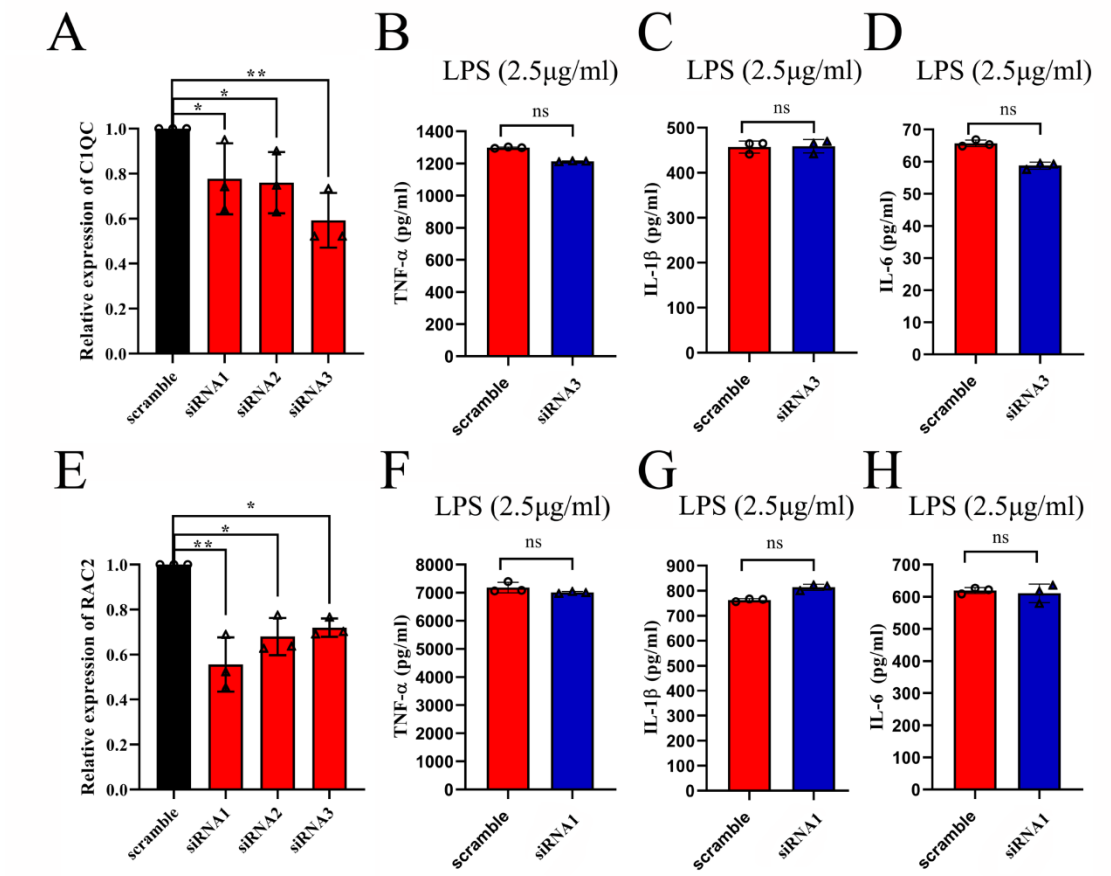
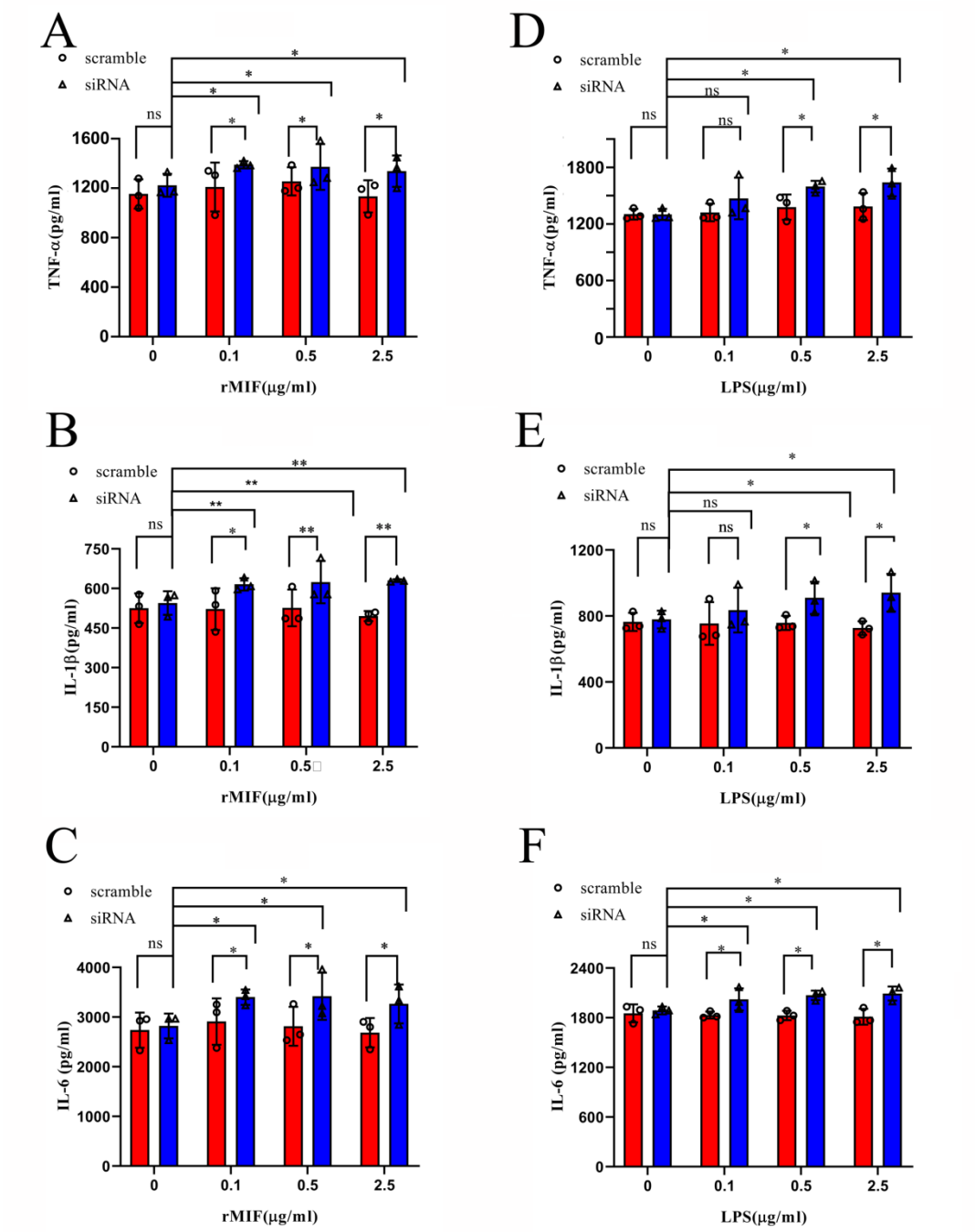
Content: Fig. S1, Fig. S2, TableS1, TableS2, TableS3, TableS4

FigureS1



FigureS1. **Effects of C1QC and RAC2 on LPS-mediated inflammation in gAS.** *A*) Interference efficiency of three siRNA oligonucleotides for gecko C1QC was measured by RT-PCR, and siRNA3 was used for the knockdown experiments. *B-D*) ELISA assay of TNF-α (*B*), IL-1β (*C*) and IL-6 (*D*) production in the gAS following siRNA3 knockdown for 24 h, then treatment with 2.5 μg/ml LPS for 24 h. *E*) Interference efficiency of three siRNA oligonucleotides for gecko RAC2 was measured by RT-PCR, and siRNA1 was used for the knockdown experiments. *F-H*) ELISA assay of TNF-α (*B*), IL-1β (*C*) and IL-6 (*D*) production in the gAS following siRNA1 knockdown for 24 h, then treatment with 2.5 μg/ml LPS for 24 h. Experiments were performed in triplicates. Error bars represent the standard deviation ($P < 0.05$).

FigureS2



FigureS2. **Effects of Vav1 interference on the inflammatory activation of gAS stimulated by rMIF and LPS.** *A-C*) ELISA assay of TNF-α (*A*), IL-1β (*B*) and IL-6 (*C*) production in the gAS following Vav1 siRNA3 knockdown for 24 h, then treatment with different concentration of rMIF for 24 h. *D-F*) ELISA assay of the cytokines following the cell treatment with different concentration of LPS for 24 h. Experiments were performed in triplicates. Error bars represent the standard deviation ($P < 0.05$).

TableS1 Comparison of gene expression among gAS, eAS and rAS

TableS2 DEGs in gAS following stimulation with 2.5 μg/ml gMIF for 12 h and 24 h

TableS3 DEGs in rAS challenged by rMIF for 12 h and 24 h

TableS4 Inflammation-related genes integrated from genes with unaltered expression in gAS after gMIF stimulation and the DEGs of rAS challenged by rMIF