Plasma microRNA profiles as a potential biomarker in differentiating

adult-onset still's disease from sepsis

Oiongyi Hu 1<sup>†</sup>, Wen Gong 1, 2<sup>†</sup>, Jieyu Gu 1<sup>†</sup>, Guannan Geng 3, Ting Li 3, Rui Tian 4,

Zhitao Yang <sup>5</sup>, Haocheng Zhang <sup>6</sup>, Lingyun Shao <sup>6</sup>, Tingting Liu <sup>1</sup>, Liyan Wan <sup>1</sup>, Jinchao

Jia <sup>1</sup>, Chengde Yang <sup>1\*</sup>, Yi Shi <sup>7\*</sup>, Hui Shi <sup>1\*</sup>

1. Department of Rheumatology and Immunology, Ruijin Hospital, Shanghai Jiao Tong

University School of Medicine, Shanghai, China.

2. Department of Rheumatology and Immunology, The First People's Hospital of

Yancheng affiliated with Nantong University, Yancheng, China.

3. Department of Rheumatology, Renji Hospital, Shanghai Jiao Tong University School

of Medicine, Shanghai, China.

4. Department of Critical Care Medicine, Ruijin Hospital, Shanghai Jiao Tong

University School of Medicine, Shanghai, China.

5. Department of Emergency, Ruijin Hospital, Shanghai Jiao Tong University School

of Medicine, Shanghai, China.

6. Department of Infectious Diseases, Huashan Hospital, Fudan University, Shanghai,

China.

7. Key Laboratory of Systems Biomedicine (Ministry of Education) and Collaborative

Innovation Center of Systems Biomedicine, Shanghai Center for Systems Biomedicine,

Shanghai Jiao Tong University, Shanghai, China.

\*Corresponding authors:

Chengde Yang

Email: yangchengde@hotmail.com;

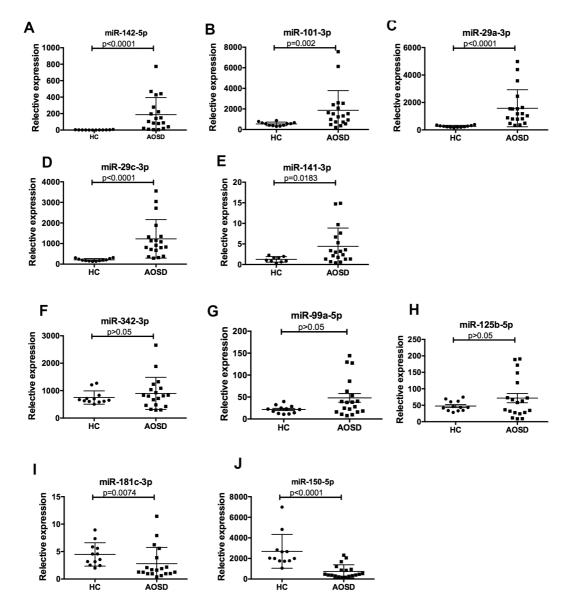
Yi Shi

Email: yishi@sjtu.edu.cn

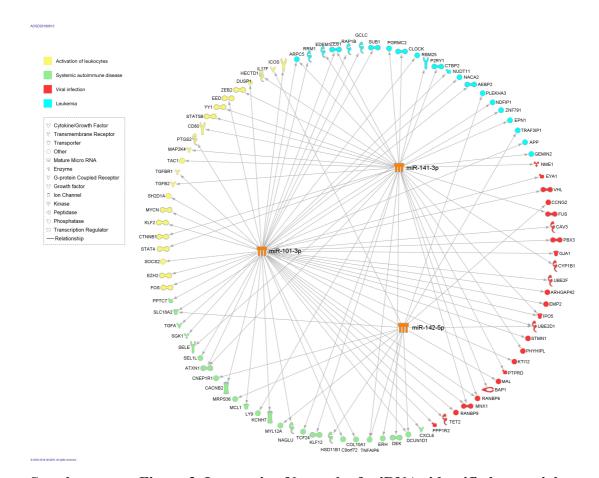
Hui Shi

Email: shihui sjtu@sina.com;

<sup>†</sup>These authors contributed equally to this work.



Supplementary Figure 1. The top 10 upregulated miRNAs in plasma of AOSD patients. Expression levels of (A) miR-142-5p, (B) miR-101-3p, (C) miR-29a-3p, (D) miR-29c-3p, (E) miR-141-3p, (F) miR-342-3p, (G) miR-99a-5p, (H) miR-125b-5p, (I) miR-181c-3p and (J) miR-150-5p were analyzed by qRT-PCR in plasma from AOSD (N=20) and HCs (N=12). The results of histograms represent the means  $\pm$  SD.



Supplementary Figure 2. Interaction Network of miRNAs identified potential mRNA targets involved in clinical features of AOSD.