Supplementary data

Cadherin-11 cooperates with inflammatory factors to promote the migration and invasion of fibroblast-like synoviocytes in pigmented villonodular synovitis

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Figure S1. Validation of siCadherin-11 and overexpression plasmid in PVNS FLS.

(A) siCadherin-11 could knock down the expression of cadherin-11 at both the protein and mRNA levels in PVNS FLS.

(B) The cadhein-11 overexpression plasmid could up-regulate the expression of cadherin-11 at both the protein and mRNA level in PVNS FLS.

*P < 0.05; **P < 0.01; ***P < 0.001.
Figure S2. The co-culture analysis of chondrocytes and PVNS FLS activated by IL-1β.

(A) Schematic diagram of the co-culture system consisting of chondrocytes and PVNS FLS with or without IL-1β (5 ng/ml).

(B) The effects of IL-1β (5 ng/ml) on the mRNA expression of classic ECM-related genes in chondrocytes within the co-culture system after 72 h.

*P < 0.05; **P < 0.01; ***P < 0.001.
Figure S3. Inhibition of PI3K/Akt pathway could not decreased the migration and invasive capacity of PVNS FLS induced by cadherin-11 overexpression plasmid.

(A) Wound-healing assays were performed in PVNS FLS induced by cadherin-11 overexpression plasmid with or without the PI3K inhibitor, LY294002. Scale bar: 50 μm.

(B) Transwell assays were performed in PVNS FLS induced by cadherin-11 overexpression plasmid with or without the PI3K inhibitor, LY294002. Scale bar: 50 μm.

*P < 0.05; **P < 0.01; ***P < 0.001.