Suppl. Figures to Ma et al. “Immunosuppressive function of mesenchymal stem cells from human umbilical cord matrix in immune thrombocytopenia patients” (Thromb Haemost 2012; 107.5)

Suppl. Figure 1: Immunophenotype of UC-MSC. Flow cytometry analysis of UC-MSC (passage 6) labelled with mAb against antigens. CD19, HLA-I, HLA-II, CD34, CD45, CD29, CD13, CD61, CD166, CD31, CD133, CD41, CD44, CD73, CD117, CD54, CD146, CD133 and CD105. Histograms represent relative number of cells versus fluorescence intensity and the percentage of positive cells for each specific mAb (black profiles) is also annotated.
Suppl. Figure 2: The differentiations functional characteristics of UC-MSC were observed by electron microscope. A) Adipogenic differentiation was detected by oil red O staining; B) Osteogenic differentiation was assayed by the von Kossa procedure.
A: ITP PBMC+platelets

B: ITP PBMC+MSC+platelets

Suppl. Figure 3: UC-MSC significantly suppressed the autologous platelets apoptosis in ITP patients. A) The apoptosis of autologous platelets in the PBMCs was significantly suppressed by UC-MSC; B) Representative flow cytometry scatter plot of Annexin V-positive platelets in the PBMCs without UC-MSC; C) Representative flow cytometry scatter plot of Annexin V-positive platelets in the PBMCs with UC-MSC. Bars represent SD, * represents p <0.05.
Suppl. Figure 4: The effects of UC-MSCs on the DNA ploidy of megakaryocytes and survival of megakaryocytes and newly produced platelets in BM-MNCs from ITP patients. A, B) Histograms represent DNA ploidy of megakaryocytes in the BM-MNCs with and without UC-MSC, the fluorescence intensity is shown on a log scale (x-axis) and represents the level of PI. UC-MSC increased the percentages of 4N and 8N megakaryocytes;
Suppl. Figure 4: The effects of UC-MSCs on the DNA ploidy of megakaryocytes and survival of megakaryocytes and newly produced platelets in BM-MNCs from ITP patients. C) Representative flow cytometry scatter plot of Annexin V-positive megakaryocytes in the BM-MNCs with and without UC-MSC. UC-MSC suppressed the apoptosis of megakaryocytes from ITP patients;
Suppl. Figure 4: The effects of UC-MSCs on the DNA ploidy of megakaryocytes and survival of megakaryocytes and newly produced platelets in BM-MNCs from ITP patients. D) Representative flow cytometry scatter plot of Annexin V-positive newly produced platelets by megakaryocytes in the BM-MNCs with and without UC-MSC. UC-MSC increased survival of the newly produced platelet.