Supplemental Material

Mechanosensitive PANX1 activity is modulated by stomatin in human Red Blood Cells

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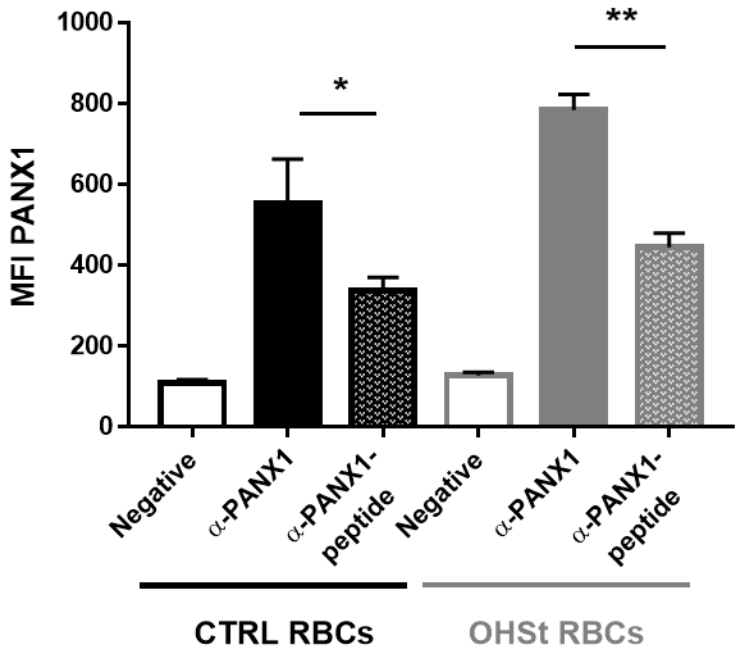
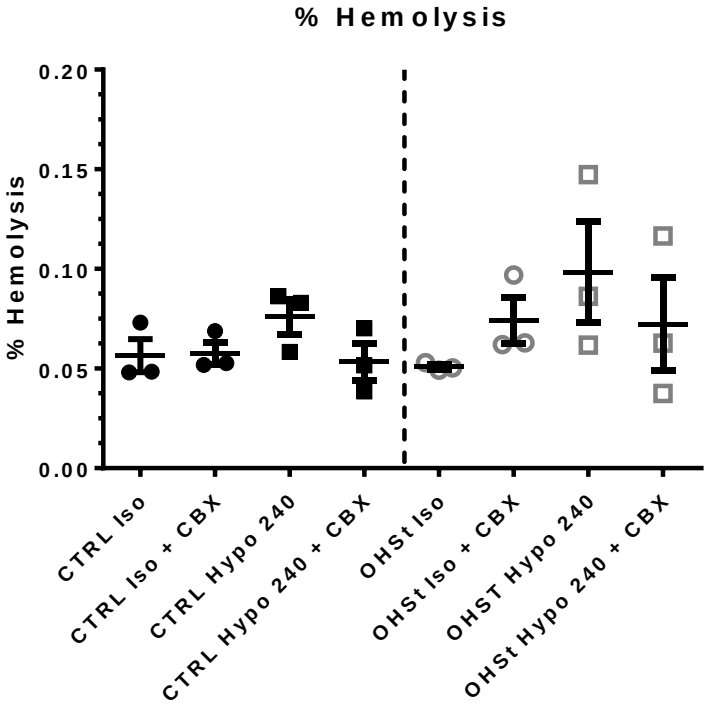
Figure S1: PANX1 expression in control and OHSt RBC by flow cytometry



Prior to pannexin staining, 18-31 amino acid peptide of PANX1 (Alomone) were incubated 1h with α-PANX1 with a ratio of 1:10 (m/m). Two-way ANOVA test (paired for same population) * p values 0.0398, et ** p value 0.0079

Figure S2: Control and OHSt RBC hemolysis in different osmotic conditions



For each sample taken to assess eATP by luminometry, a parallel sample was taken to assess hemolysis. The RBCs were processed as described above except that the luciferin-luciferase has not been added. After 20 min incubation with or without CBX, samples were centrifuged at 12 600×g at 20 °C for 30 s and the presence of free hemoglobin in the supernatant was determined by an enzymatic method to detect microquantities of free hemoglobin as described by Vazquez et al. [1]. Results were expressed as percentage of total hemoglobin in the RBCs present in the sample.

Supplementary Table S1: Mean Corpuscular Volume (MCV), Mean Corpuscular Hemoglobin Concentration (MCHC) and Reticulocytes values of the RBCs from the three OHSt patients and controls (CTRL)

	Origin	MCV	MCHC (g/l)	Reticulocytes (G/l)
CTRL	CNRGS	80-100	330-360	20-120
OHSt 1	Nancy	132.5	273	269
OHSt 2	Grenoble	138	284	242.7
OHSt 3	Toulouse	144	247	ND

1. Vazquez, A.; Tudela, J.; Varon, R.; Garcia-Canovas, F., Determination of hemoglobin through its peroxidase activity on chlorpromazine. *J Biochem Biophys Methods* **1991,** 23, (1), 45-52.