

	All participants	Adults (18-50)	Older adults (50+)	Mann-Whitney U test
<b>B cells before culture (%)</b>	7.0 (1.6 - 19.2)	9.7 (4.1 - 17.2)	5.9 (1.6 - 19.2)	***
<b>B cells after culture (%)</b>	43.1 (3.1 - 88.5)	59.8 (23.7 - 84.9)	35.9 (3.1 - 88.5)	***
<b>B cell fold change</b>	5.8 (0.7 - 17.0)	6.0 (1.7 - 9.8)	5.7 (0.7 - 17.0)	ns
<b>Bmem before culture (%)</b>	0.3 (0.02 - 2.1)	0.3 (0.06 - 2.1)	0.3 (0.03 - 1.5)	ns
<b>Bmem after culture (%)</b>	13.6 (0.4 - 55.9)	25 (4.9 - 55.9)	11.85 (0.4 - 53.9)	***
<b>Bmem fold change</b>	43 (1.4 - 391.5)	56.3 (17.3 - 391.5)	35.7 (1.4 - 291.8)	***
<b>PB before culture (%)</b>	0.02 (0 - 0.14)	0.02 (0 - 0.06)	0.02 (0 - 0.14)	ns
<b>PB after culture (%)</b>	10.3 (0.1 - 43.3)	19.4 (2.5 - 39.1)	7.9 (0.1 - 43.3)	***
<b>PB fold change</b>	439.0 (5.9 - inf)	1027.3 (97.3 - inf)	376.1 (5.9 - inf)	***

**Supplementary table 1: B cell subset percentages before and after culture**

Samples from all timepoints are included. Bmem = memory B cells, PB = plasmablasts, all percentages are the taken as a percentage of the single cells in the sample and expressed as median (range). A Mann Whitney U test was carried out to compare adults and older adults. ns = not significant, \*\*\* =  $p < 0.001$