

It was shown that there are about 350 molecules of CD86 per one B cell ( $= 350 \cdot 10^3$  molecules/kcell) obtained from healthy subjects [PMID: 17204999]. It was shown that expression of CD86 is significantly higher than concentration of CD80 [PMID: 17204999], so we can neglect CD80 level. It was shown that LPS activation of B cells (Bi cells in IRT) lead to increase of CD86 expression in about 2 times [PMID: 17204999]. Thus, we can calculate the concentration of CD86 on Bi cells:

$$c_{bi\_cd86} = 2 \cdot 350 \cdot 10^3 \text{ [molecules/kcell]} = 700 \cdot 1000 \text{ [molecules/kcell]} = 7 \cdot 10^5 \text{ [molecules/kcell]} / (6 \cdot 10^{23} \text{ [molecules/mol]}) = 1.17 \cdot 10^{(-18)} \text{ [mol/kcell]} = 1.17 \cdot 10^{(-6)} \text{ [pmol/kcell]}$$

where  $6 \cdot 10^{23}$  molecules/mol - Avogadro's number