



**Figure 1S.** Probiotic fermented milk (PFM) administration and sensitization scheme. PFM was administered to Basal, Previous and continuous groups, from day 0 to day 5 for B and P and continuing the treatment until the end of the experience for C group. Antigen sensitization was performed by injecting 2 times ovoalbumin 1 %, separated 15 days from each other. Then animals were exposed during 20 minutes to OVA aerosols for 10 consecutive days. Samples were taken at 5 dPFM and 7 and 15 dPS. After last sample mice were re-stimulated with OVA with 2 injections separated for 3 days of OVA aerosols.