



The cheese matrix modulates the immunomodulatory properties of *P. freudenreichii* CIRM-BIA 129 in healthy piglets

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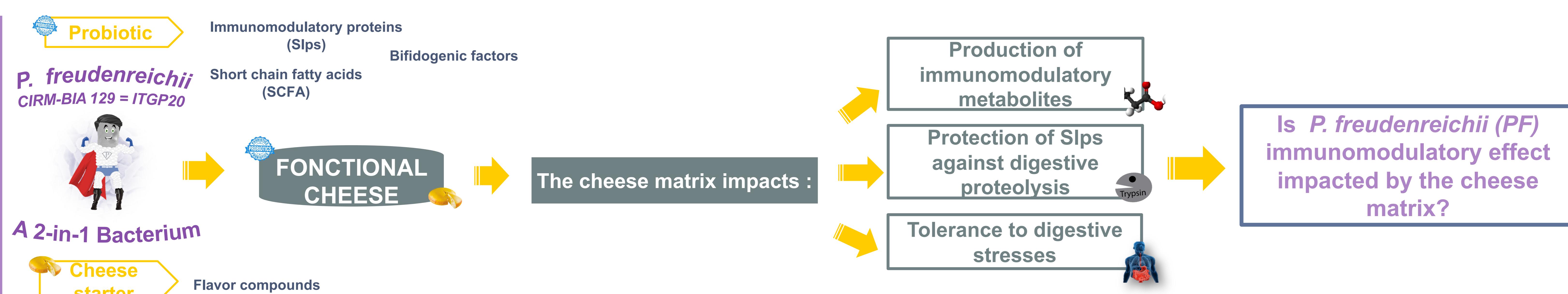
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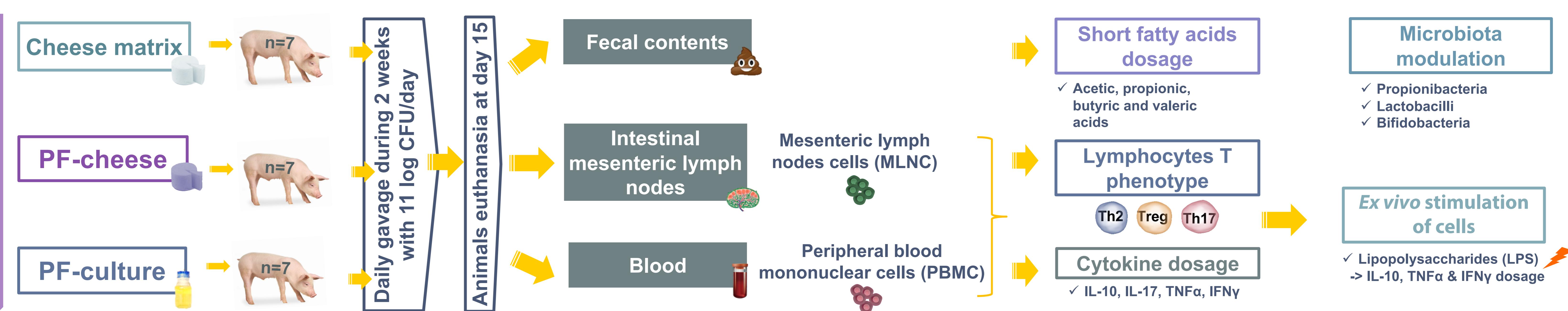
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THE CHEESE MATRIX MODULATES THE IMMUNOMODULATORY PROPERTIES OF *PROPIONIBACTERIUM FREUDENREICHII* IN PIGLETSHOUEM RABAH^{1,2}, STÉPHANIE FERRET-BERNARD³, ROMAIN JEANTET¹, SONG HUANG¹, LAURENCE LE NORMAND³, FABIEN COUSIN⁴, FLORIANE GAUCHER¹, GAËLLE BOUDRY³, GWÉNAËL JAN¹

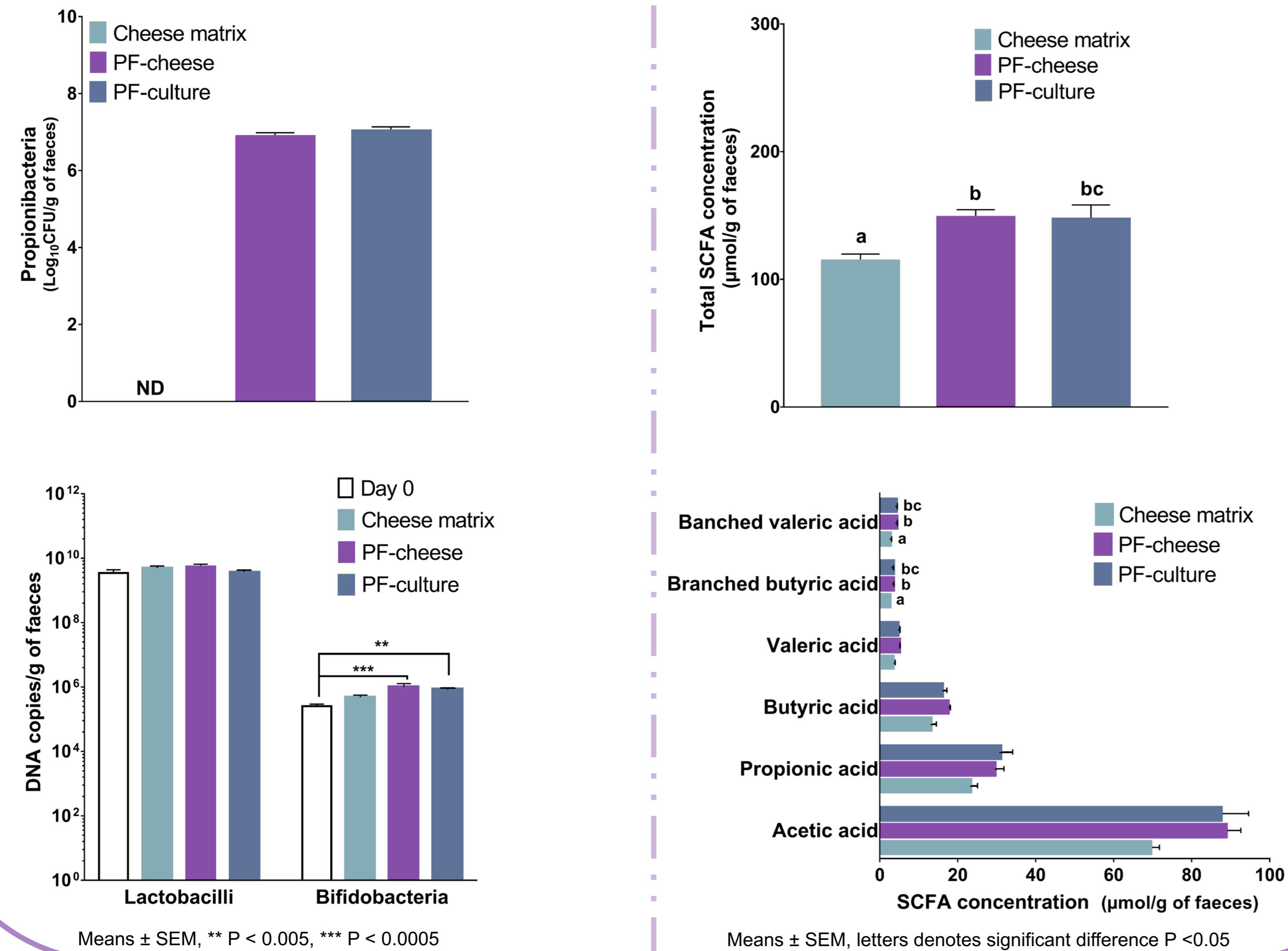
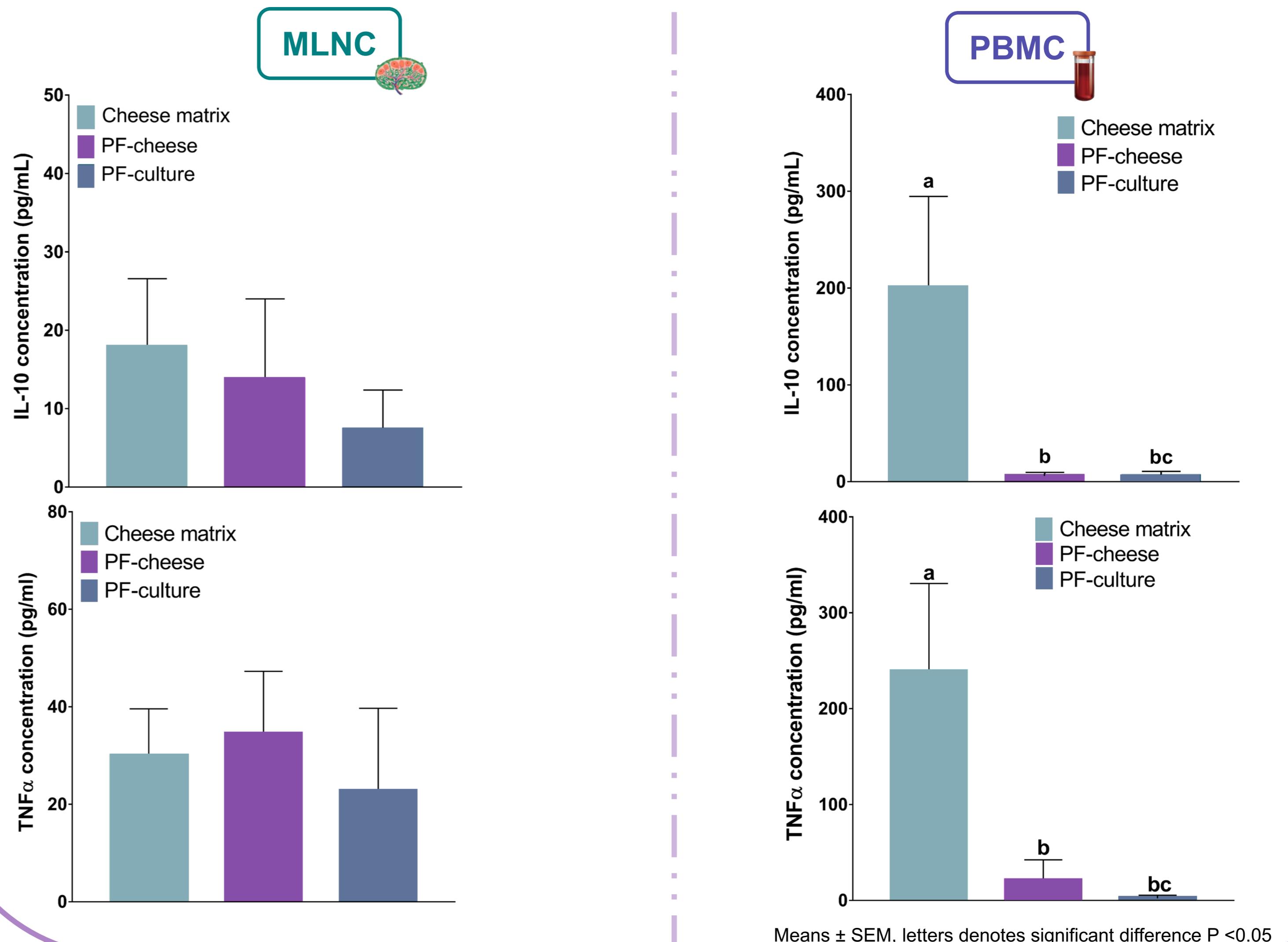
CONTEXT



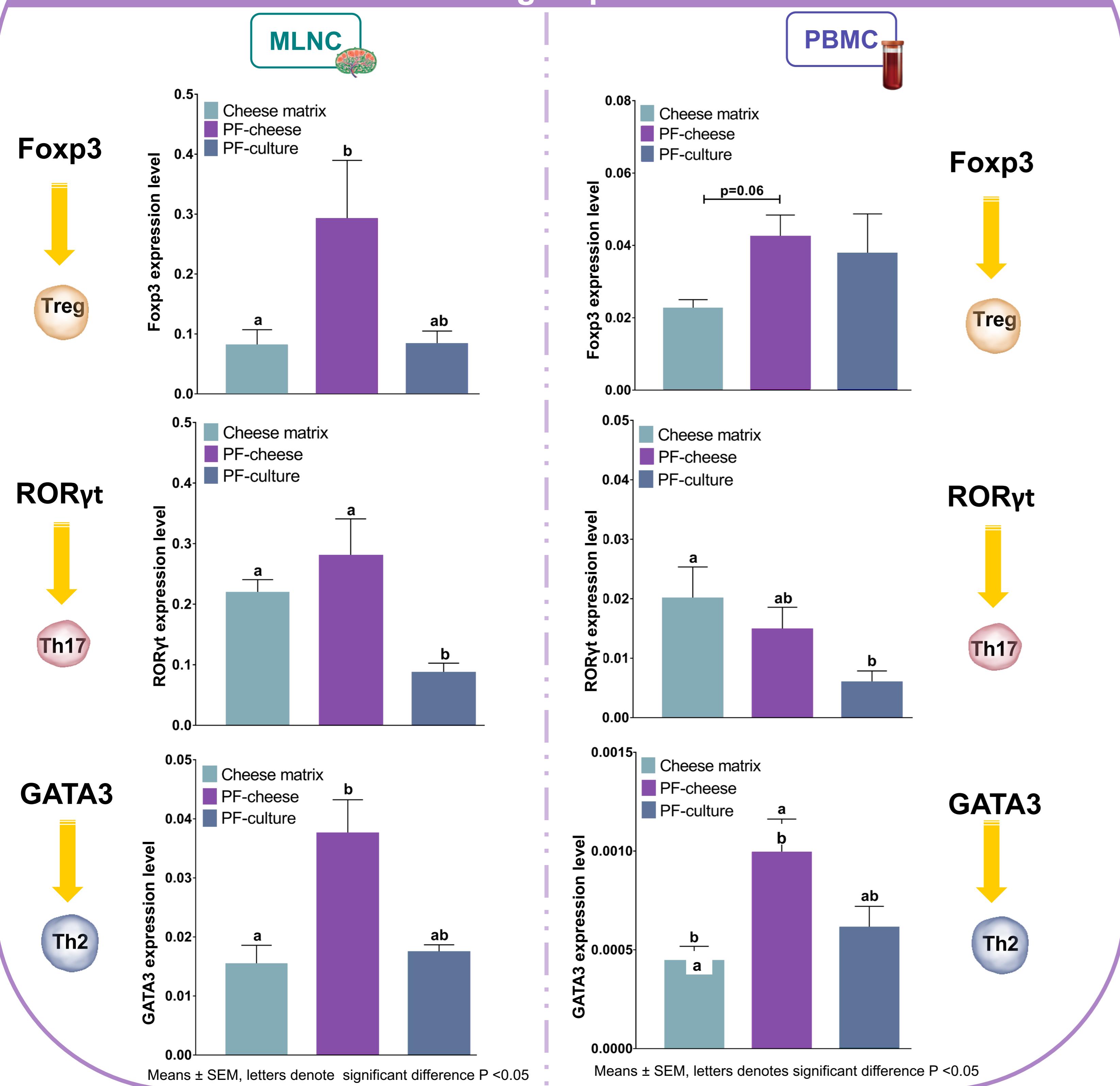
STRATEGY



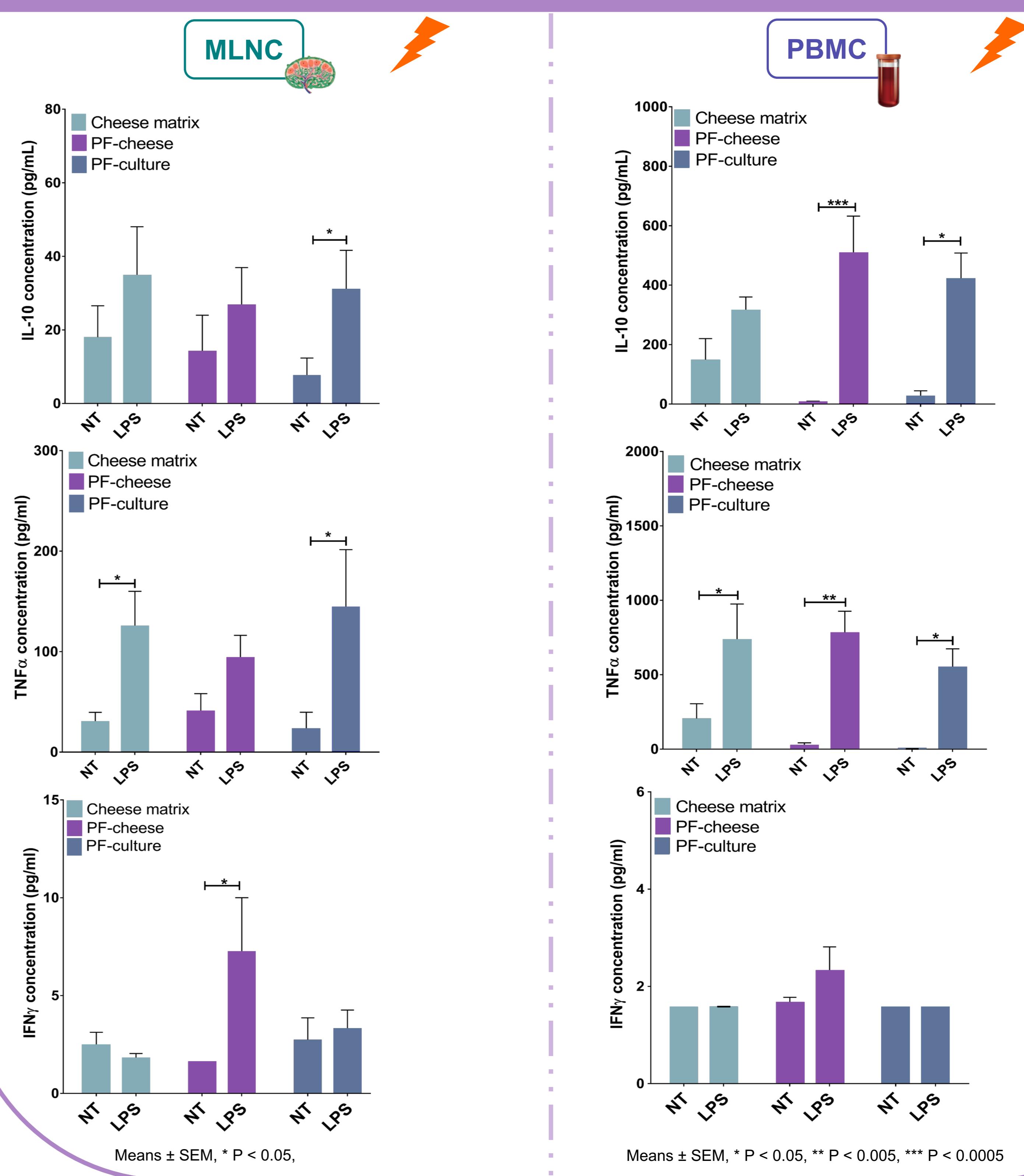
Both PF-culture and PF-cheese delivered the same amount of metabolically active PF in piglets' colon

PF ingestion decreased TNF α and IL-10 secretion only in PBMC, whatever the delivery vehicle of PF

PF-cheese enhanced Treg and Th2 populations and PF-culture decreased Th17 population, compared to the control group



Ex vivo response of MLNC to LPS stimulation was different according to the delivery vehicle of PF



The cheese matrix did not enhance the amount of metabolically active PF in piglets' colon compared to a bacterial culture. However the functional cheese immunomodulated differently intestinal and systemic immunity compared to PF-culture.

We hypothesized this could be due to a difference in surface compounds, such as the immunomodulatory surface layer proteins Slps