

POSTER PRESENTATION

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Immunomodulatory potential of probiotics orally delivered with β -LG to Balb/C mice

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Two commercial probiotics preparations were analysed regarding the possibility to induce different T cells population. Determining CD4+, CD4+CD8+ and CD8+ expression (Tab.1) one was subjected to further experiments and delivered it together with milk allergen β -LG to Balb/C mice. 14, 21, 28 and 35d from the beginning of experiments specific serum IgG&IgA, sIgA and copro-IgA were checked. We found significant decrease of humoral response in group fed with β -LG with probiotic compared to group with β -LG only, the same time increase specific copro-IgA by 35 days of experiments was observed (Fig. 1). Flow cytometry analysis of T cells subsets show significant decreased in percentage

of CD8+ population in head and neck lymph nodes (HNLN) and spleen (SPL) when probiotic was delivered. In Peyer's Patches elevated number of CD4+CD8+ and CD8+ T cell subsets was observed in the same group. During *in vitro* studies lymphocytes isolated from group β -LG+probiotic show significant increased CD8+, CD8+CD4+ compare to B-LG group. Results show that probiotics has potential to modulate immune answer to food allergens.

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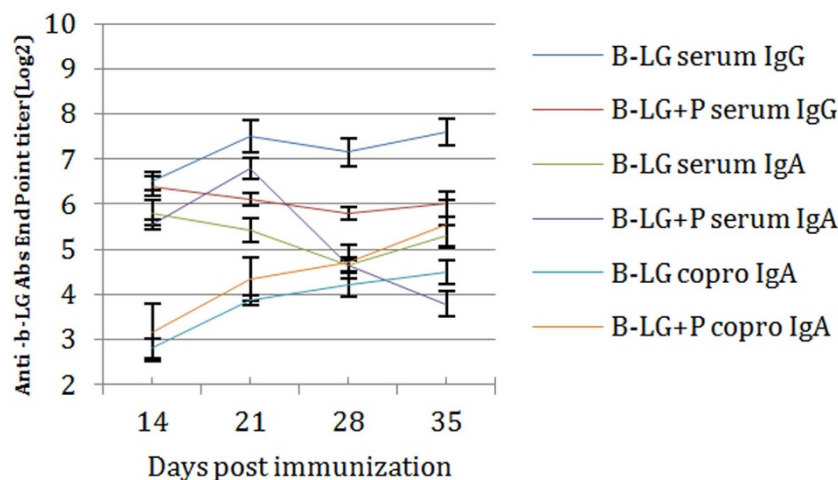


Figure 1 Specific antibodies titer

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Table 1

		DICOFLOL	SD	PROACTIVE	SD
SPL	CD8	9.96	0.766	9.2	1.3
	CD4CD8	0.276	0.146	1.19	0.567
	CD4	23.9	1.62	21.7	0.808
PP	CD8	2.81	1.41	1.02	0.639
	CD4CD8	0.26	0.149	0.609	0.914
	CD4	12.2	4.7	3.19	0.75
HNLN	CD8	17.6	0.952	18.1	2.12
	CD4CD8	1.26	0.534	0.323	0.203
	CD4	47.5	3.01	43.4	2.83
MLN	CD8	13.2	1.59	14.8	1.53
	CD4CD8	1.1	1.14	0.842	1.04
	CD4	45.4	14.6	52.3	4.08
SERUM	CD8	11.7	1.01	9.18	0.479
	CD4CD8	0.281	0.463	0.0554	0.0213
	CD4	35.6	3.42	29	2.87

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