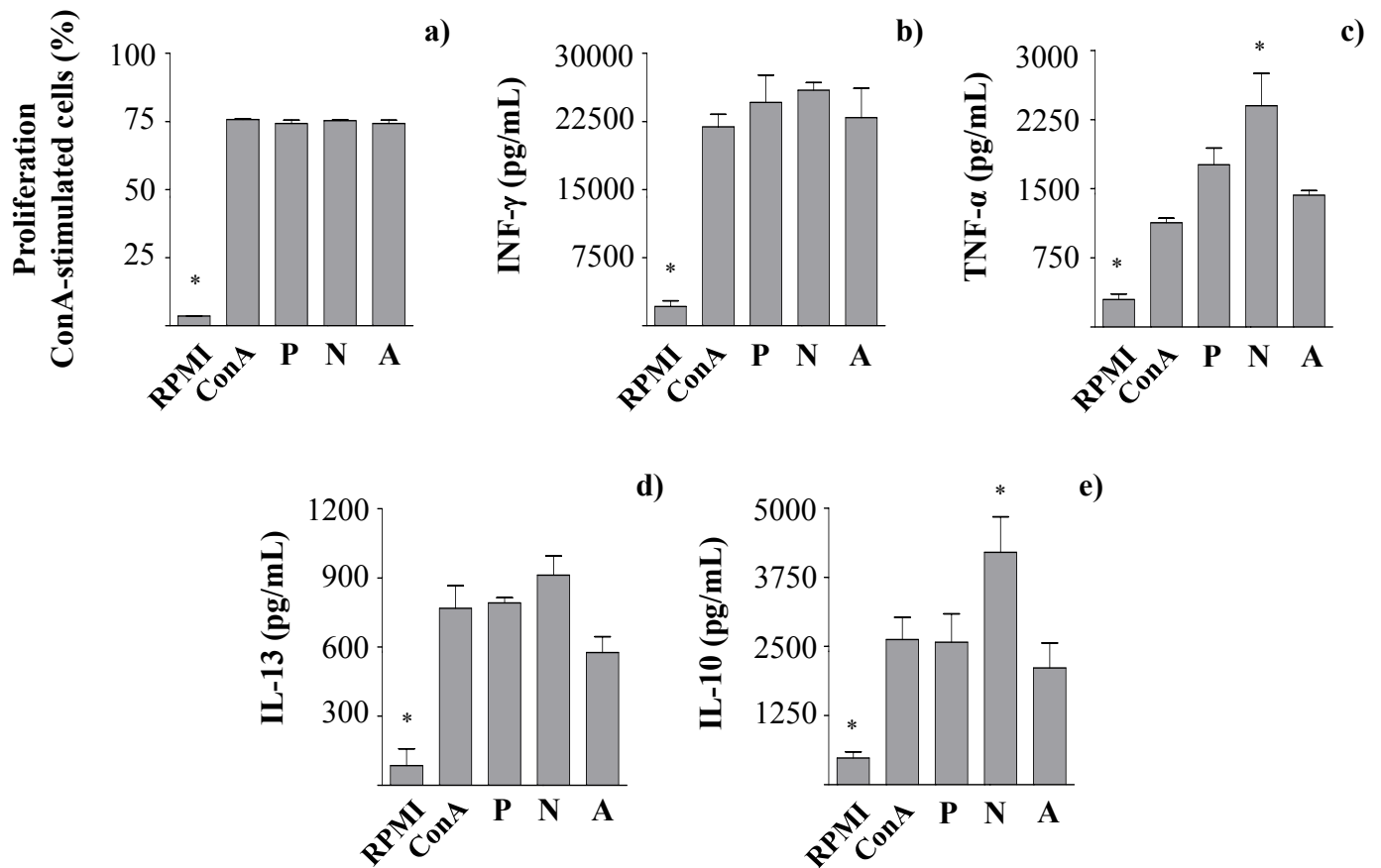
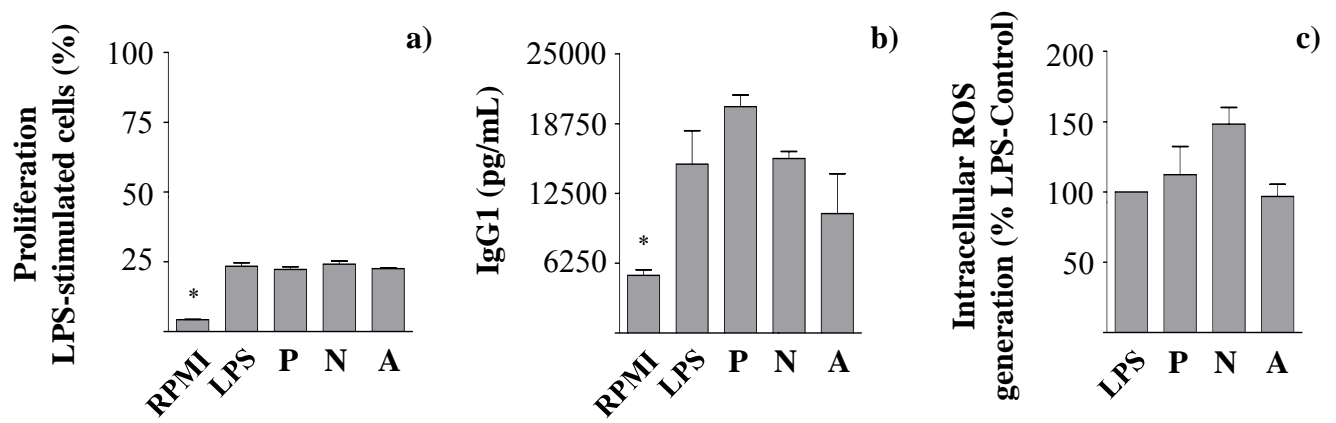


Supplementary Fig. S1. RP-HPLC patterns of ovalbumin (O), lysozyme (L), ovomucoid (M) and egg white (E) hydrolysates produced with pepsin (P), alcalase (A) and Neutrase (N). OVT designates ovotransferrin. The profile of the respective intact protein is drawn with a discontinuous grey line.



Supplementary Fig. S2. Effects of inactivated pepsin (P), Neutrase (N) and alcalase (A), at a concentration equivalent to that present in 200 $\mu\text{g/mL}$ of the hydrolysates, on the concanavalin A (ConA)-induced proliferation (a) and secretion of IFN- γ (b), TNF- α (c), IL-13 (d) and IL-10 (e) by mouse splenocytes. Data are means \pm standard deviation of duplicates. * $P < 0.05$ compared to the ConA-stimulated control.



Supplementary Fig. S3. Effects of inactivated pepsin (P), Neutrase (N) and alcalase (A), at a concentration equivalent to that present in 200 $\mu\text{g}/\text{mL}$ of the hydrolysates, on the lipopolysaccharide (LPS)-induced proliferation (a), intracellular ROS generation (b) and secretion of IgG1 (c) by mouse splenocytes. Data are means \pm standard deviation of duplicates. * $P < 0.05$ compared to the LPS-stimulated control.

Supplementary Table S1. Mean values of the effects of the hydrolysates of ovalbumin, lysozyme, ovomucoid and egg white produced with pepsin, Neutrase and Alcalase on cytokine and antibody secretion, ROS production and cell proliferation by splenocytes and mesenteric lymph node (MLN) cells stimulated with concanavalin A (ConA) or lipopolysaccharide (LPS). In order to examine the influence of the enzyme used to produce the hydrolysates, one-way ANOVA was used, followed by the Fisher's Least Significant Difference (LSD) test.

	Pepsin	Neutrase	Alcalase
IFN-γ	56414.75	52525.75	55885.75
TNF-α	969.25 ^{ab}	1148.00 ^b	876.50 ^a
IL-13	3412.00 ^b	3530.75 ^b	2446.75 ^a
IL-10	4929.25	6035.00	5264.25
IgG1 produced by splenocytes	14330.00	13361.50	12296.25
IgG1 produced by NLM cells	1545.50 ^{ab}	1772.75 ^b	1242.00 ^a
IgG2a produced by splenocytes	418.50	457.50	354.75
IgG2a produced by NLM cells	80.50	81.25	76.75
ROS produced by splenocytes	65.16 ^b	68.82 ^b	51.45 ^a
Proliferation induced by ConA	70.85 ^b	66.58 ^a	68.51 ^{ab}
Proliferation induced by LPS	26.50	28.09	25.53

^{a, b} Different letters indicate significant differences ($P < 0.05$) within rows.