1	Table. S1. Volume, color and crumb image analysis of bread manufactured with wheat flour fortified with apple by-products (ABP). Raw ABP
2	(Raw-ABP), and chemically acidified ABP (CA-ABP) and Fermented-ABP, which were previously incubated at 30°C for 48 h. Fermentation
3	(Fermented-ABP) was with the selected binary culture of Weissella cibaria PEP23F and Saccharomyces cerevisiae AN6Y19. Raw-ABP, CA-ABP
4	and Fermented-ABP were added at concentrations of 5 and 10% (w w <sup>-1</sup> of flour). Baker's yeast wheat bread (BY), manufactured without addition of
5	ABP, was the control. Data are the means (± SD) of three independent experiments analyzed in triplicate. Data were subjected to one-way ANOVA

6	followed by	' Tukey's	procedure at $P < 0.05$ .
---	-------------	-----------	---------------------------

	BY	Raw-ABP (5% w w <sup>-1</sup> of flour)	Raw-ABP (10% w w <sup>-1</sup> of flour)	CA-ABP (5% w w <sup>-1</sup> of flour)	CA-ABP (10% w w <sup>-1</sup> of flour)	Fermented- ABP (5% w w <sup>-1</sup> of flour)	Fermented- APB (10% w w <sup>-1</sup> of flour)
Specific volume (cm <sup>3</sup> g <sup>-1</sup> )	$2.48\pm0.15^a$	$2.14\pm0.15^{b}$	$2.12\pm0.15^{bc}$	$2.42\pm0.12^{a}$	$2.00\pm0.12^{\rm c}$	$2.43\pm0.23^{ab}$	$2.08\pm0.18^{bc}$
pH	$5.91\pm0.09^{a}$	$5.36\pm0.08^{b}$	$4.96 \pm 0.12^{c}$	$4.72 \pm 0.13^{cd}$	$4.23\pm0.15^{e}$	$4.85\pm0.15^{c}$	$4.45 \pm 0.14^{de}$
Crust color analysis $dE^*_{ab}$	$34.7 \pm 2.3^{\circ}$	$41.6 \pm 1.8^{ab}$	$44.8 \pm 1.6^{a}$	$36.9 \pm 1.7^{\circ}$	$37.3 \pm 1.8^{\circ}$	$38.8 \pm 2.2^{bc}$	$38.0 \pm 1.8^{\circ}$
Crumb image analysis Black pixel area (%)	$41.65 \pm 1.6^{b}$	$42.06 \pm 1.0^{b}$	$37.28 \pm 1.1^{\circ}$	$52.28 \pm 1.7^{a}$	$44.38 \pm 1.4^{b}$	$35.76 \pm 0.8^{\circ}$	$31.22 \pm 0.5^{d}$