

Supplementary Materials:

Table S1. Mean values of relative area, normalized to internal standard, analyzed on three biological triplicates for each category of goat cheeses. The letters indicate the significant difference based on mean comparison with the Tukey method applied for each volatile compound (p -value < 0.01). The bold lines correspond to volatile compounds that present statistical differences among the three typologies of goat cheeses.

Family	Compound	CGC	MCGC	JGC
Alcohols	Ethanol	0.043 (a)	0.056 (ab)	0.071 (b)
	2-methyl-propanol	0.003 (a)	0.003 (a)	0.004 (a)
	3-methyl-butanol	0.020 (a)	0.028 (a)	0.029 (a)
	2-methyl-butanol	0.007 (a)	0.009 (a)	0.010 (a)
Ketones	2,3-butanediol	0.001 (a)	0.001 (ab)	0.003 (b)
	Acetone	0.017 (a)	0.017 (a)	0.020 (a)
	Butan-2-one	0.003 (a)	0.002 (a)	0.002 (a)
	2,3-butanedione (diacetyl)	0.001 (a)	0.004 (b)	0.006 (b)
Aldehydes	Octan-4-one	0.007 (a)	0.005 (a)	0.006 (a)
	5-methyl-hexan-2-one	0.001 (a)	0.001 (a)	0.001 (a)
	Octanal	0.001 (a)	0.001 (a)	0.001 (a)
	3-methyl-butanal	0.002 (a)	0.003 (a)	0.002 (a)
Esters	Methyl acetate	0.004 (a)	0.053 (ab)	0.091 (b)
	Ethyl acetate	< 0.001 (a)	0.003 (a)	< 0.001 (a)
	Methyl isobutyrate	0.002 (a)	0.006 (a)	0.007 (a)
	Methyl butanoate	0.011 (a)	0.068 (a)	0.101 (a)
	2-methyl-isopropyl propanoate	0.001 (a)	0.001 (a)	0.001 (a)
	Methyl hexanoate	0.029 (a)	0.351 (a)	0.590 (a)
	Hexyl butanoate	0.002 (a)	0.001 (a)	0.001 (a)
	2-methylpropyl-butanoate	0.002 (a)	0.001 (a)	0.001 (a)
	Heptyl butanoate	0.001 (a)	0.001 (a)	0.001 (a)
	Ethyl hexanoate	0.009 (a)	0.008 (a)	0.011 (a)
Alkenes	Methyl heptanoate	< 0.001 (a)	0.006 (a)	0.012 (a)
	Methyl octanoate	0.017 (a)	0.636 (a)	1.033 (a)
	Ethyl octanoate	0.002 (a)	0.003 (a)	0.005 (a)
	2-Phenylethyl acetate	0.004 (a)	0.004 (a)	0.007 (b)
Alkanes	Methyl decanoate	0.006 (a)	0.241 (a)	0.467 (a)
	Toluene	0.002 (a)	0.001 (b)	0.001 (b)
	Ethyl benzene	< 0.001 (a)	0.003 (a)	< 0.001 (a)
	1-chloro-2-methyl benzene	0.002 (a)	< 0.001 (a)	< 0.001 (a)
Acids	Decane	0.021 (a)	0.018 (a)	0.014 (a)
	4-methyl decane	ND	0.001 (b)	< 0.001 (b)
	2,6-dimethyl heptane	0.001 (a)	0.001 (a)	0.001 (a)
	Nonadecane	0.004 (a)	0.003 (a)	0.003 (a)
Terpenes	Acetic acid	0.001 (a)	0.004 (a)	0.004 (a)
	2-methyl propanoic acid	0.001 (a)	0.005 (b)	0.006 (b)
	Butanoic acid	0.006 (a)	0.006 (a)	0.006 (a)
	3-methyl butanoic acid	0.005 (a)	0.023 (b)	0.023 (b)
Terpenes	2-methyl hexanoic acid	0.002 (a)	0.008 (a)	0.007 (a)
	Hexanoic acid	0.020	ND	ND
	Octanoic acid	0.002 (a)	0.019 (a)	0.044 (a)
	Decanoic acid	< 0.001 (a)	< 0.001 (a)	0.010 (a)
	α -pinene	0.002 (a)	< 0.001 (a)	0.001 (a)
	Limonene	0.010 (a)	0.005 (a)	0.005 (a)

Figure S1 : Correspondence map on the contingency table containing the frequency of the sensory attributes (triangle red labels) cited by the panelists. The blue circles represent the three typologies of goat cheeses in the correspondence analysis.

