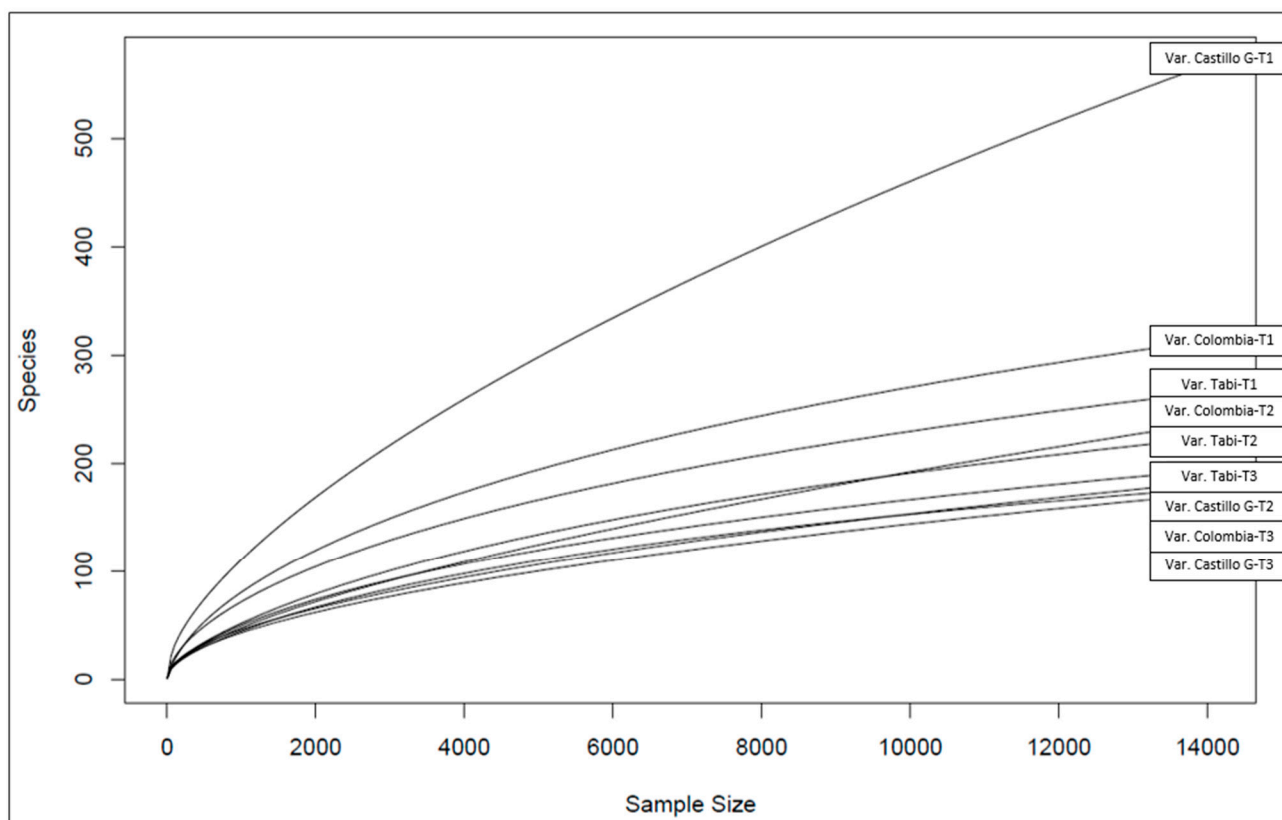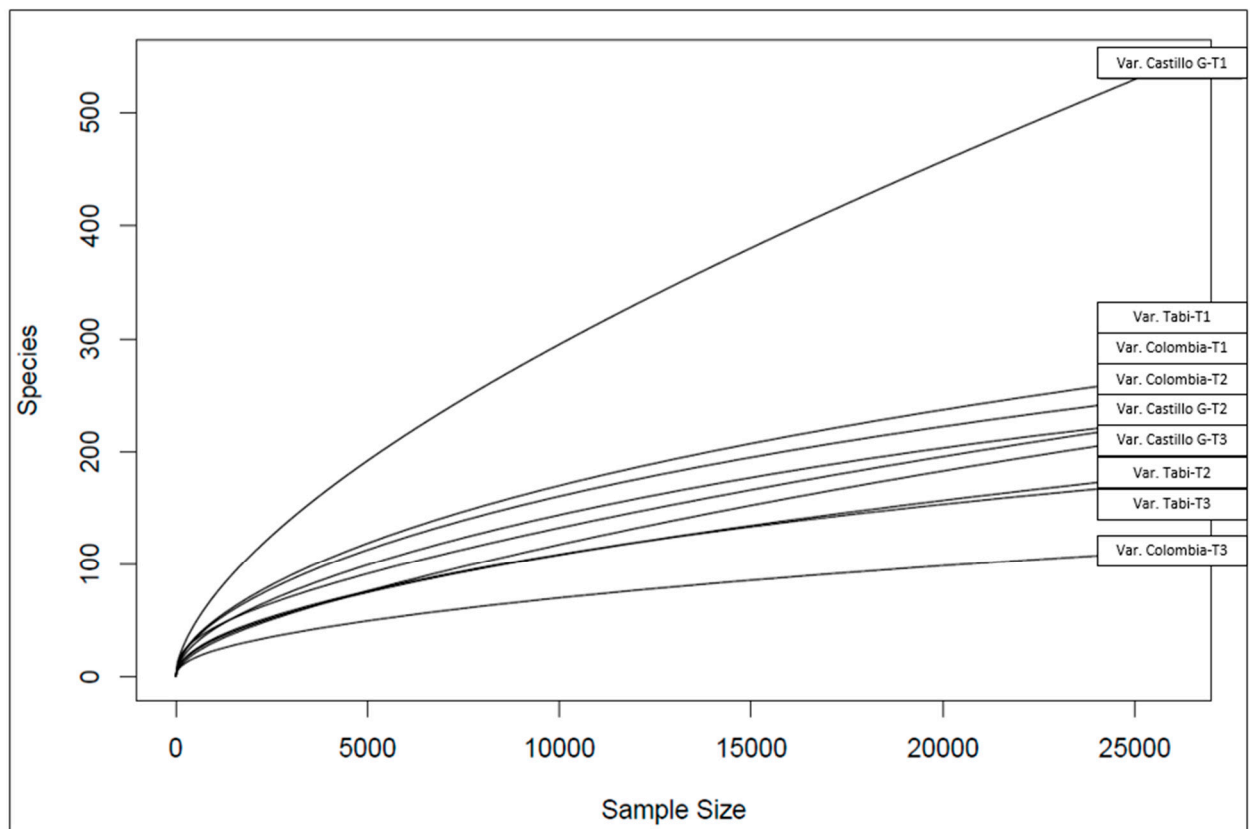# Supplementary Material

Physical-chemical and metataxonomic characterization of the microbial communities present during the fermentation of three varieties of coffee from Colombia and their sensory qualities

Supplementary Figure S1. Rarefaction analysis of 16S rDNA sequencing from three variety coffee samples during fermentation

Supplementary Figure S2. Rarefaction analysis of ITS sequencing from three variety coffee samples during fermentation

Supplementary Table S1. Characterization of the coffee harvest at the Pueblo Bello Experimental Station.

Variety		1 (Green)*	2 (bright green)*	3 (bright)*	4 (Ripe 1)*	5 (Ripe 2)*	6 (Overripe 1)*	7 (Overripe 2)*	8 (Dry)*	Total	Percentage **	Category
Tabi	Fruits	1	10	20	30	34	28	74	8	205	0.38%	Excelent
	weight (g)	0.9	14	32	49	60	50	108	8	322		
Castillo General	Fruits	1	16	13	23	50	33	17	50	203	0.38%	Excelent
	weight (g)	0.9	21	18	38	87	64	28	61	318		
Colombia	Fruits	0	13	50	43	35	35	12	10	198	0	Excelent
	weight (g)	0	17	80	75	63	43	21	12	311		

*According color chart Cromacafé (Peñuela-Martínez, Guerrero and Sanz-Uribe, 2022)

** The percentage is calculated according to standardized and validated reference values during the development of the tool. (Guerrero, Á. et al., 2022)

 Peñuela-Martínez, A. E., Guerrero, Á., & Sanz-Uribe, J. R. Cromacafé® Herramienta para identificar los estados de madurez de las variedades de café de fruto rojo. Av. Téc. Cenicafé 2022, 535, 1-8. https://doi.org/10.38141/10779/0535

 Guerrero, Á.; Sanz-Uribe, J.R.; Peñuela-Martínez, A.E.; Ramírez, C.A. Mediverdes®: Un Método Para Medir La Calidad de La Recolección Del Café En El Campo. Av. Téc. Cenicafé 2022, 536, 1–8, https://doi.org/10.38141/10779/0536

Supplementary Table S2. Results of deep sequencing of 16S rDNA with the MiSeq platform from Ilumina.

Sample	Time (h)	Read Count	Q30 (%)	nseqs	Coverage
Var. Tabi	0	118.868	88.2	14040	0.992094
	9	117.282	87.6	14075	0.992753
	18	131.202	86.2	14112	0.994827
Var. Castillo G	0	181.354	85.7	14236	0.975204
	9	144.110	85.2	14067	0.993957
	18	145.806	86.7	14070	0.993603
Var. Colombia	0	177.358	85.9	14085	0.990486
	9	218.258	86.2	14133	0.989528
	18	150.016	86.8	14073	0.993249

Supplementary Table S3. Results of deep sequencing of ITS with the MiSeq platform from Ilumina

Sample	Time (h)	Read Count	Q30 (%)	nseqs	Coverage
Var. Tabi	0	285.520	87.1	62447	0.995084
	9	287.878	88.4	66976	0.996073
	18	307.270	88.5	69766	0.996574
Var. Castillo G	0	227.942	82.8	41252	0.993067
	9	168.102	84.6	26035	0.995084
	18	148.114	86.5	34705	0.996254
Var. Colombia	0	223.286	87.0	59377	0.994476
	9	295.318	83.9	67039	0.995585
	18	256.732	89.0	72459	0.997129