

Supplementary Materials

Supplementary Table S1: Phenotyping and genotyping of cultivars from Costa Rica for *Hemileia vastatrix* and *Colletotrichum kahawae*. Resistance components evaluated: Incubation period (IP), Latent period (LP), Incidence (IN), Severity (SE), Urediniospore production (UP), Area under the disease progress curve (AACPD). R (resistant) and S (susceptible).

[illegible]

Supplementary Table S2: Phenotyping and genotyping of cultivars from El Salvador for *Hemileia vastatrix* e *Colletotrichum kahawae*. Resistance components evaluated: Incubation period (IP), Latent period (LP), Incidence (IN), Severity (SE), Urediniospore production (UP), Area under the disease progress curve (AACPD). R (resistant) and S (susceptible).

[illegible]

	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_EE
Pacamara 1	1	27	0	0	0	0	0	R	17	22	6	0	1000	0	S	aabbC_D_EE
	2	12	0	0	0	0	0	R	17	22	6	0	1000	0	S	aabbC_D_ee
	3	21	22	3	0	817	0	S	32	22	9	0	1000	0	S	aabbccD_Ee
	4	16	24	13	1	1800	3	S	20	22	3	0	1000	0	S	aabbccD_EE
	5	16	24	100	29	41053	451	S	20	34	75	8	5276	133	S	AabbccddEe
Pacamara 2	1	21	0	0	0	0	0	R	31	0	0	0	0	0	R	aaBbC_D_ee
	2	24	0	0	0	0	0	R	7	0	0	0	0	0	R	aaBbC_D_Ee
Pacamara 3	1	0	0	0	0	0	0	R	14	0	0	0	0	0	R	aaBbccD_ee
Pacas 1	1	0	0	0	0	0	0	R	14	0	0	0	0	0	R	AaBbccD_Ee
Pacas 2	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbC_ddEe
	2	17	27	88	50	81833	638	S	17	27	100	34	18782	335	S	AabbccddEe
	3	7	9	50	21	45333	264	S	16	25	88	35	5619	313	S	aabbccddEe
	4	17	27	100	38	63821	470	S	16	26	100	36	45640	458	S	aabbccddEe
San Pacho	1	14	0	0	0	0	0	R	34	35	44	11	833	84	S	aaBbC_ddEe
San Pacho 1	1	0	0	0	0	0	0	R	13	0	0	0	0	0	R	aabbC_D_Ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	4	15	21	100	38	189667	598	S	23	34	66	7	2233	80	S	aabbccdde
San Pacho 2	1	14	0	0	0	0	0	R	10	0	0	0	0	0	R	aabbC_D_Ee
	2	0	0	0	0	0	0	R	12	0	0	0	0	0	R	aabbC_D_Ee
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	4	0	0	0	0	0	0	R	17	0	0	0	0	0	R	aaBbC_D_Ee
	5	22	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
San Pacho 3	1	13	20	100	58	442000	954	S	15	22	100	35	100750	516	S	aabbccdde
	2	21	20	100	44	444333	716	S	17	25	100	30	62365	315	S	aabbccdde

Supplementary Table S3: Phenotyping and genotyping of cultivars from Guatemala for *Hemileia vastatrix* e *Colletotrichum kahawae*. Resistance components evaluated: Incubation period (IP), Latent period (LP), Incidence (IN), Severity (SE), Urediniospore production (UP), Area under the disease progress curve (AACPD). R (resistant) and S (susceptible).

Cultivar		Race II							Race XXXIII							Genotypic constitution
		IP	LP	IN	SE	UP	AACPD		IP	LP	IN	SE	UP	AACPD		
Anacafé	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	4	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	5	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_EE
	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
Catigua MG2	1	11	0	0	0	0	0	R	11	0	0	0	0	0	R	aaBBC_D_Ee
	2	0	0	0	0	0	0	R	12	0	0	0	0	0	R	aaBBC_D_Ee
	3	24	0	0	0	0	0	R	12	0	0	0	0	0	R	aaBBC_D_ee
	4	0	0	0	0	0	0	R	30	0	0	0	0	0	R	aaBbC_D_Ee

	5	22	0	0	0	0	0	R	26	0	0	0	0	0	R	aaBBC_D_EE
	6	14	0	0	0	0	0	R	23	0	0	0	0	0	R	aaBBccD_Ee
Catimor 1	1	8	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccD_Ee
	2	8	0	0	0	0	0	R	17	0	0	0	0	0	R	aaBBC_D_Ee
Catimor 2	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBccD_Ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_EE
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_ee
	4	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	5	8	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbC_D_ee
	6	0	0	0	0	0	0	R	14	0	0	0	0	0	R	aaBBC_ddEe
Catimor 5175	1	0	0	0	0	0	0	R	13	0	0	0	0	0	R	aaBBC_D_Ee
	2	14	0	0	0	0	0	R	11	0	0	0	0	0	R	aaBBC_D_Ee
Colismo r	1	13	0	0	0	0	0	R	32	22	6	0	700	2	S	AaBBccD_Ee
	2	26	0	0	0	0	0	R	17	29	81	10	474 6	149	S	AaBbccddEe
	3	15	0	0	0	0	0	R	32	36	31	2	817 3	19	S	AaBbccddEe
	4	0	0	0	0	0	0	R	14	0	0	0	0	0	R	aaBBcD_Ee
Guapa	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccD_Ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccD_EE
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccD_ee
	4	15	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccD_Ee
	5	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	6	11	0	0	0	0	0	R	15	0	0	0	0	0	R	aaBBC_D_Ee
Sarchim or	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBccD_Ee
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBccD_Ee
	4	8	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccD_Ee
	5	12	18	100	33	125 009	600	S	14	32	100	39	800 0	440	S	aabbccddEe
	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccD_Ee

Supplementary Table S4: Phenotyping and genotyping of cultivars from Honduras for *Hemileia vastatrix* e *Colletotrichum kahawae*. Resistance components evaluated: Incubation period (IP), Latent period (LP), Incidence (IN), Severity (SE), Urediniospore production (UP), Area under the disease progress curve (AACPD). R (resistant) and S (susceptible).

Cultivar		Race II							Race XXXIII							Genotypic constitution
		IP	LP	IN	SE	UP	AACPD		IP	LP	IN	SE	UP	AACPD		
Catimor 8667	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccddEe
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccddEe
	3	14	0	0	0	0	0	R	15	0	0	0	0	0	R	AaBbccddEe
	4	0	0	0	0	0	0	R	0	0	0	0	0	0	R	AaBBccddEe
	5	22	0	0	0	0	0	R	13	0	0	0	0	0	R	aaBBC_ddEe
	6	26	0	0	0	0	0	R	0	0	0	0	0	0	R	AaBbC_ddEe
Catimor T5175	1	18	21	100	40	403693	678	S	30	25	66	13	4950	127	S	aabbccdde
	2	20	32	94	25	100988	264	S	26	38	66	6	9959	43	S	aabbccdde

	3	32	37	68	10	41172	80	S	34	34	21	1	1043 4	15	S	aabbccddee
	4	17	29	100	33	205344	367	S	8	10	45	9	5283 3	107	S	aabbccddee
	5	23	32	94	25	35444	223	S	33	41	38	3	3261	17	S	aabbccddee
	6	19	28	100	46	169013	404	S	25	37	52	11	1090 0	86	S	aabbccddee
Centroamerica no F ₂	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccddee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbC_D_ee
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	4	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	5	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
Centroamerica no F ₃	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_EE
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	4	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	5	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
Geisha	1	0	0	0	0	0	0	R	8	0	0	0	0	0	R	aaBbC_ddee
	2	0	0	0	0	0	0	R	8	0	0	0	0	0	R	aaBbC_ddEe
	3	19	0	0	0	0	0	R	8	0	0	0	0	0	R	AaBbC_ddEe
IHCAFE 90	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBccD_Ee
	4	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_ee
	5	0	0	0	0	0	0	R	0	0	0	0	0	0	R	AaBBccddee
	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	AaBBC_ddEe
Lempira 1	1	11	0	0	0	0	0	R	33	0	0	0	0	0	R	aaBbC_ddee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_ddEe
	3	9	0	0	0	0	0	R	10	15	13	0	1883	1	S	aaBbC_ddEe
	4	24	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_ddEe
	5	11	0	0	0	0	0	R	13	0	0	0	0	0	R	aaBBccddEe
	6	0	0	0	0	0	0	R	11	0	0	0	0	0	R	aaBBccddEe
Lempira 2	1	20	0	0	0	0	0	R	25	22	16	1	2750	1	S	aaBBccddee
	2	17	0	0	0	0	0	R	17	24	9	1	2917	1	S	aaBBccddee
	3	0	0	0	0	0	0	R	20	24	13	1	3016	1	S	aaBBccddee
	4	0	0	0	0	0	0	R	20	24	16	0	1701	1	S	aaBBccddee
	5	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBccddee
	6	14	0	0	0	0	0	R	15	0	0	0	0	0	R	aaBBccddee
Pacamara 4	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_EE
	2	13	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbC_D_Ee
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbC_D_Ee
	4	17	0	0	0	0	0	R	0	0	0	0	0	0	R	AabbC_D_EE
	5	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aabbC_D_Ee
	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbC_D_Ee

Parainema	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_Ee
Parainema Apical	1	14	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_ee

Supplementary Table S5: Phenotyping and genotyping of cultivars from the Dominican Republic for *Hemileia vastatrix* e *Colletotrichum kahawae*. Resistance components evaluated: Incubation period (IP), Latent period (LP), Incidence (IN), Severity (SE), Urediniospore production (UP), Area under the disease progress curve (AACPD). R (resistant) and S (susceptible).

Cultivar	Genótipo	Raça II							Raça XXXIII							Genotypic constitution
		IP	LP	IN	SE	UP	AACPD		IP	LP	IN	SE	UP	AACPD		
Catimor 3	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBBC_D_ee
	2	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbC_D_ee
	3	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccddee
	4	0	0	0	0	0	0	R	38	22	25	2	11503	10	S	aaBBC_D_ee
	5	0	0	0	0	0	0	R	40	0	0	0	0	0	R	aaBBC_D_ee
	6	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccddee
Catimor 4	1	0	0	0	0	0	0	R	0	0	0	0	0	0	R	aaBbccddee
	2	13	0	0	0	0	0	R	25	14	25	2	11161	37	S	aaBbccddee
	3	20	0	0	0	0	0	R	29	24	25	1	6228	1	S	aaBBccddee
	4	8	0	0	0	0	0	R	24	24	3	0	1000	0	S	aaBBccddee
	5	0	0	0	0	0	0	R	17	24	19	1	800	1	S	aaBbccddee