

Table S. 1. Mean biochemical traits (mg per gram tissue) across Jamji and Kericho. The values colored green indicates not significantly ($p < 0.05$) different from each other for each trait.

	clone	TB	Caffeine	Theogallin	GA	EC	GCG	ECG	EGC	EGCG	Catechin	GC	Theanine
1	CLONE97	3.52	37.49	24.39	4.85	25.00	24.71	112.61	20.67	72.75	11.76	57.40	21.76
2	CLONE101	4.98	36.06	20.71	5.29	30.82	25.54	81.31	46.86	91.77	8.57	39.90	13.86
3	Clone69	3.98	39.88	22.38	5.73	31.57	28.11	89.62	40.77	90.22	5.84	34.59	22.11
4	Clone70	2.57	35.48	21.73	5.82	28.41	33.01	97.77	30.59	68.34	8.76	50.85	14.18
5	Clone37	3.55	39.17	18.96	4.85	34.67	22.20	65.05	51.35	106.51	5.46	31.81	13.29
6	Clone89	4.69	38.40	15.38	4.13	32.53	20.91	59.85	53.05	101.46	7.52	39.38	20.44
7	Clone79	4.51	36.72	16.55	4.58	31.11	21.74	62.95	53.73	97.87	4.47	40.89	21.25
8	Clone61	6.84	41.59	17.96	3.54	29.17	16.15	71.80	25.78	93.42	12.78	63.28	14.41
9	Clone25	2.10	29.67	14.68	5.06	28.76	27.02	64.14	69.30	77.97	5.00	39.44	15.34
10	Clone55	5.78	44.18	16.39	4.21	34.95	17.99	60.22	40.04	120.82	4.25	33.21	15.07
11	Clone57	5.82	41.38	14.43	4.66	30.38	23.92	64.42	56.30	92.37	4.49	38.60	19.66
12	Clone68	6.24	40.35	18.25	4.07	34.47	18.59	71.77	36.16	102.91	4.37	41.47	21.34
13	Clone87	4.81	42.47	15.69	4.47	29.87	23.41	70.88	50.06	85.22	3.75	44.39	20.38
14	Clone81	5.52	40.40	15.32	3.36	24.99	18.29	72.88	39.73	75.46	12.82	63.10	29.82
15	Clone63	6.17	36.94	14.79	4.51	32.59	19.73	57.12	50.69	106.27	4.89	35.86	18.46
16	Clone53	3.02	33.57	21.40	4.98	28.38	24.27	93.17	26.02	74.71	8.54	48.94	21.18
17	CLONE95	6.70	41.15	18.11	4.52	31.65	20.80	61.03	46.69	101.11	6.27	35.82	21.54
18	Clone62	4.51	42.73	15.43	4.55	33.35	22.13	54.82	52.07	108.96	3.47	28.01	17.18
19	CLONE102	6.49	42.48	15.24	4.76	29.91	22.13	58.27	49.12	103.06	4.53	35.67	15.60
20	Clone56	5.85	37.17	18.91	3.66	28.67	16.74	85.83	17.13	91.86	10.89	51.40	19.81
21	Clone71	3.96	43.40	15.37	4.32	31.14	20.51	55.24	51.08	107.86	3.31	33.10	16.70
22	Clone60	5.40	37.17	15.78	4.30	30.81	20.08	55.63	49.92	102.68	5.75	35.95	18.66
23	Clone46	3.93	42.06	14.60	4.27	29.76	22.20	62.02	51.28	93.39	5.72	35.68	18.87
24	Clone9	4.21	37.69	16.80	3.83	25.67	20.21	75.69	37.84	77.76	9.67	53.11	20.46
25	Clone3	3.47	35.98	15.26	3.72	32.43	18.26	58.25	50.80	103.52	5.55	30.50	14.31
26	Clone67	4.69	42.11	13.75	3.98	29.32	17.18	50.26	49.28	106.93	7.19	38.57	24.64
27	Clone18	3.72	38.69	16.18	4.39	31.37	23.06	57.63	58.73	93.61	5.93	28.01	20.76
28	Clone21	3.16	36.87	15.66	3.58	25.13	19.20	73.91	35.65	77.41	11.04	55.87	19.73
29	Clone29	3.29	35.90	15.09	4.91	32.52	22.36	50.95	62.96	99.84	2.93	26.27	14.97
30	Clone91	3.20	34.28	18.59	4.30	31.24	21.92	69.85	39.70	93.64	4.68	35.47	22.72
31	Clone31	5.75	33.49	18.41	3.47	26.62	17.58	75.49	33.20	74.42	11.31	56.46	20.45
32	Clone49	2.72	44.02	14.85	4.30	31.62	21.59	60.95	47.57	99.29	7.26	26.74	18.57
33	Clone92	6.21	43.00	18.99	5.33	32.97	26.90	65.73	47.57	91.24	4.62	25.49	13.89
34	Clone64	5.58	42.79	15.03	3.99	30.87	18.16	59.64	40.53	96.60	6.45	41.52	14.03
35	CLONE100	4.13	37.52	15.17	3.89	30.61	17.42	53.83	47.72	101.45	3.41	39.23	20.40
36	Clone66	3.77	36.97	14.40	4.65	32.72	21.04	48.59	57.72	99.30	4.68	28.41	10.90
37	Clone51	4.38	40.08	17.30	4.51	32.37	21.69	61.43	41.18	91.68	5.27	37.01	18.89
38	Clone17	4.05	37.46	16.22	3.47	26.12	18.13	68.94	35.53	76.51	9.22	56.09	22.37
39	Clone65	2.87	33.69	13.93	3.69	32.10	19.46	46.39	58.87	100.58	4.89	26.94	10.70
40	Clone48	5.70	46.66	17.55	4.03	33.47	19.62	53.86	42.32	106.72	3.79	29.34	14.83
41	Clone82	3.42	36.08	17.52	4.48	31.29	22.59	63.96	48.06	89.71	4.47	28.71	21.00
42	Clone72	4.12	28.36	16.50	5.14	31.02	26.16	55.79	64.42	82.80	4.03	23.97	12.09
43	Clone16	3.15	43.07	16.70	3.96	28.05	19.25	73.60	29.22	84.27	7.39	46.35	21.49
44	Clone94	2.88	36.70	15.52	4.52	26.57	23.35	75.72	32.71	69.43	8.64	51.45	13.94
45	Clone30	4.53	38.41	13.21	3.45	28.96	16.44	49.71	51.18	94.93	5.43	39.77	16.17
46	Clone33	4.11	38.00	13.15	4.23	29.40	21.90	54.58	50.61	90.09	4.65	34.47	16.56
47	CLONE103	3.14	33.63	13.33	4.18	30.92	20.20	47.10	58.94	89.81	4.34	33.67	17.47
48	Clone5	3.69	38.08	16.85	3.50	24.33	16.69	77.42	25.16	73.80	7.42	59.73	17.01
49	Clone86	6.26	42.63	17.16	4.98	28.95	25.23	64.71	45.55	81.23	6.56	31.62	26.21

50	Clone13	3.94	37.20	12.90	4.03	30.17	16.79	44.71	59.17	92.73	5.30	34.57	17.31
51	Clone34	3.66	37.99	18.14	4.39	25.09	19.97	68.56	35.12	73.25	7.80	53.59	20.43
52	Clone2	3.47	34.75	18.83	3.76	23.73	17.78	84.34	22.72	66.08	10.45	58.17	14.46
53	Clone90	4.12	41.17	14.16	3.91	31.32	18.96	49.51	49.52	97.52	5.46	30.83	16.56
54	Clone85	4.32	33.89	14.12	3.14	31.30	16.05	40.69	60.15	101.46	3.71	29.61	19.18
55	CLONE98	4.79	39.95	16.59	3.37	25.62	17.44	74.42	26.95	79.13	7.76	51.28	19.13
56	Clone14	2.88	36.22	13.03	3.82	28.77	18.89	49.54	57.70	92.98	3.91	30.05	16.95
57	Clone44	4.10	35.74	15.98	3.36	27.76	19.29	63.87	38.74	82.88	6.34	41.28	25.48
58	Clone8	4.77	38.99	17.07	3.34	28.53	15.86	64.85	26.79	91.82	7.64	43.94	18.78
59	Clone54	6.36	39.41	16.23	3.79	29.63	18.68	60.51	36.67	93.61	6.36	33.63	18.53
60	Clone36	3.06	34.39	16.05	4.03	26.01	19.83	70.75	34.00	76.65	7.20	44.22	18.97
61	Clone19	3.17	38.32	13.57	3.89	28.47	18.58	54.81	48.60	86.22	5.88	36.07	18.42
62	Clone40	4.66	39.64	19.03	3.61	28.54	18.21	71.95	27.30	83.04	7.29	41.33	17.92
63	Clone38	4.40	37.18	14.06	3.58	29.12	16.69	53.26	43.13	94.60	6.10	34.77	21.42
64	Clone7	4.22	36.08	17.07	2.99	26.03	14.76	67.07	26.58	84.42	9.19	49.55	19.27
65	Clone83	4.86	33.84	14.15	3.59	27.85	18.89	54.69	50.16	86.10	6.15	33.35	23.57
66	Clone32	3.62	42.31	15.99	4.08	29.92	18.43	49.31	49.21	94.21	5.45	30.04	15.56
67	Clone42	6.33	40.71	12.85	3.88	27.18	19.17	46.59	55.58	89.45	6.18	32.41	20.11
68	Clone12	3.88	37.88	17.81	4.55	30.47	21.54	57.59	42.67	94.86	3.83	25.46	20.36
69	Clone50	6.10	37.46	17.10	4.36	27.93	21.55	57.68	47.18	87.40	4.00	30.43	16.82
70	Clone78	4.94	37.06	14.21	3.69	26.73	20.59	54.83	50.90	81.68	6.71	34.64	25.80
71	Clone22	4.46	41.78	15.96	2.94	27.46	13.93	59.23	27.37	91.94	8.37	47.36	24.72
72	Clone75	4.25	41.46	12.48	3.45	27.14	17.21	50.90	48.38	79.68	7.31	44.99	26.71
73	Clone93	4.50	39.67	15.45	3.92	27.46	20.75	62.03	46.49	72.85	7.01	38.27	18.43
74	Clone4	5.60	42.46	16.83	3.67	27.18	16.72	62.90	28.64	82.14	9.20	47.47	17.57
75	Clone28	5.04	43.06	16.80	3.80	26.61	19.16	75.24	23.39	73.45	7.95	48.09	23.33
76	Clone1	5.67	38.04	16.77	4.02	29.95	17.71	53.38	43.84	91.29	4.77	32.70	18.64
77	Clone76	3.82	33.75	16.59	4.64	30.98	24.37	57.48	51.11	74.90	3.96	30.24	15.65
78	Clone6	3.08	34.49	13.24	3.90	26.88	19.64	52.05	51.36	84.08	5.51	32.43	16.02
79	Clone35	4.84	40.24	15.45	3.67	28.57	17.33	62.86	33.91	79.16	6.16	43.61	18.02
80	Clone58	4.52	33.22	16.27	4.59	27.59	23.32	61.65	41.78	77.49	6.31	31.98	20.00
81	Clone27	3.44	39.43	12.63	3.88	29.74	18.32	43.98	54.63	97.16	3.89	22.36	19.39
82	CLONE99	3.63	34.34	13.24	4.24	27.68	20.78	48.21	52.26	86.77	4.35	29.92	17.13
83	Clone73	4.40	37.00	14.69	4.46	28.60	20.68	48.57	51.51	89.03	3.93	27.51	21.72
84	Clone45	2.96	33.35	11.64	3.84	22.87	19.46	59.12	39.03	59.89	9.11	60.17	16.96
85	Clone23	2.20	34.67	15.48	3.69	22.83	18.85	72.18	24.92	67.55	9.64	51.13	20.81
86	Clone20	2.60	32.88	12.99	5.66	28.14	27.74	54.13	52.13	67.11	5.06	31.06	19.95
87	Clone52	3.71	41.51	13.22	4.05	28.42	18.11	46.66	51.11	84.13	4.78	31.71	16.77
88	Clone84	5.31	35.40	14.22	4.06	31.70	18.26	45.02	48.00	94.25	3.47	24.02	29.10
89	Clone88	4.45	37.98	12.43	4.32	28.29	22.58	44.38	65.02	70.83	4.03	28.93	17.89
90	Clone39	2.53	35.93	17.56	3.12	25.24	14.37	68.35	18.53	83.96	6.84	46.58	12.23
91	Clone10	2.68	27.92	14.87	3.79	28.13	18.32	47.74	48.00	90.35	3.24	25.91	16.77
92	Clone26	2.44	30.84	15.47	3.80	27.44	17.91	47.37	47.56	86.40	4.16	30.20	15.05
93	Clone43	3.58	36.58	16.83	3.50	25.61	16.27	60.75	29.58	74.48	8.34	45.06	22.49
94	Clone59	6.13	39.54	17.99	3.63	27.92	17.99	59.50	30.46	87.39	4.57	31.45	19.25
95	Clone77	3.86	35.24	14.02	3.29	27.30	15.54	47.83	42.63	86.61	5.91	31.65	17.95
96	Clone24	3.48	35.61	11.47	4.72	25.01	24.12	48.65	57.54	68.92	4.83	26.99	17.30
97	Clone47	5.62	40.19	15.46	3.78	28.07	18.47	49.03	40.65	87.92	3.37	27.80	22.32
98	Clone41	3.97	39.36	18.03	3.38	27.20	15.64	63.69	23.76	77.06	6.15	40.76	25.69
99	Clone80	6.51	40.77	15.79	3.55	28.66	17.02	45.40	38.31	94.13	4.29	22.70	27.11
100	Clone74	3.83	34.15	15.03	4.35	26.75	20.95	45.47	51.77	72.73	4.12	26.51	26.23
101	Clone11	2.41	35.11	12.23	3.34	25.28	16.08	40.51	49.83	80.27	4.10	27.12	28.85
102	Clone15	3.44	37.61	12.88	3.04	22.51	13.65	53.91	26.95	66.99	7.10	44.47	21.71
103	CLONE96	2.85	30.37	11.67	4.27	24.21	22.04	46.74	41.59	66.51	4.88	26.85	13.70

