

Supplemental data for

Henzler, I., Khazaei, H. (2024). Leaf trichome diversity, acylsugar concentration, and their relationships to leaf area in *Solanum galapagense*. *Genetic Resources* 5 (9), 1–12. doi: [10.46265/genresj.NLVC6810](https://doi.org/10.46265/genresj.NLVC6810)

Supplemental Table 1. Mean \pm SD (standard deviation) for trichomes I and V measurements (abaxial and adaxial surfaces)

Species	Accession No.	Trichome types per mm ² Abaxial		Trichome types per mm ² Adaxial	
		I	V	I	V
<i>S. galapagense</i>	VI007099	0.9 \pm 0.5	6.0 \pm 6.3	1.6 \pm 0.8	9 \pm 2.3
	VI037239	0.2 \pm 0.3	0	2.0 \pm 0.9	0
	VI037241	1.5 \pm 1.6	0	4.5 \pm 0.7	0
	VI037339	0	1.2 \pm 0.0	0.6 \pm 0.0	0
	VI037340	0.9 \pm 0.4	0.2 \pm 0.2	0.9 \pm 0.3	0
	VI037867	0.7 \pm 0.4	0	1.1 \pm 0.7	0
	VI037868	0.5 \pm 0.6	0	0.8 \pm 0.1	0
	VI037869	0.6 \pm 0.6	0	0.3 \pm 0.4	0
	VI045262	0.5 \pm 0.5	0	1.1 \pm 0.1	0
	VI057400	0.6 \pm 0.2	0.3 \pm 0.4	1.2 \pm 0.8	0
	VI057408	0.1 \pm 0.2	0	1.0 \pm 0.4	0
	VI057457	0.6 \pm 0.4	0.7 \pm 1.5	0.3 \pm 0.3	0
	VI063173	0.8 \pm 0.3	0.1 \pm 0.2	0.7 \pm 0.5	0
	VI063174	0.2 \pm 0.2	0.3 \pm 0.7	1.0 \pm 0.8	0
	VI063175	1.4 \pm 0.8	0	2.1 \pm 0.2	0.1 \pm 0.2
	VI063176	0.6 \pm 0.5	0.1 \pm 0.2	0.6 \pm 0.7	0
	VI063177	0.3 \pm 0.3	0	0.7 \pm 0.1	0.8 \pm 1.5
	VI063178	0.7 \pm 0.5	0	1.0 \pm 0.5	0.4 \pm 0.7
	VI063179	0.2 \pm 0.2	0	0	4.0 \pm 0.0
	VI063180	0.6 \pm 0.3	0.1 \pm 0.1	1.1 \pm 0.6	0
	VI063181	0.3 \pm 0.3	0.5 \pm 1.0	0.8 \pm 0.2	0
	VI063182	0.6 \pm 0.6	0	0.4 \pm 0.7	0.2 \pm 0.3
	VI063183	1.0 \pm 0.5	0	1.1 \pm 0.7	0.1 \pm 0.1
	VI063184	0.6 \pm 0.6	0.3 \pm 0.5	1.3 \pm 0.3	0.6 \pm 1.1
	VI063185	0.8 \pm 0.3	0.6 \pm 1.3	1.0 \pm 0.7	0.1 \pm 0.3
	VI063187	0.8 \pm 0.8	1.0 \pm 2.1	0.3 \pm 0.0	0
Range (<i>S. galapagense</i>)		0.0-1.5	0.0-6.1	0.0-4.5	0.0-9.0
Mean (<i>S. galapagense</i>)		0.7\pm0.3	0.5\pm1.2	1.1\pm0.8	0.6\pm1.9
<i>S. l. cerasiforme</i>	VI063893	1.8\pm0.6	2.6\pm3.3	1.0\pm0.4	2.5\pm0.5
<i>S. lycopersicum</i>	CLN3682C	0.5\pm0.5	17\pm2.8	0.2\pm0.1	9.5\pm5.7
<i>SEM</i>		0.103	0.838	0.209	1.562

Supplemental Table 2. Trichome density and acyl sugar concentration at 8-week-old seedlings of *S. galapagense*.

Accession No.	Trichome types per mm ² - Abaxial				Acyl sugar (μmol/g)
	I	IV	V	VI	
VI007099	0.3	6.5	2.8	1.1	7.8
VI037239	0.0	10.3	0.0	0.5	NA
VI037241	0.0	6.3	0.0	1.3	23.2
VI037324	NA	NA	NA	NA	NA
VI037339	NA	NA	NA	NA	NA
VI037340	1.0	11.1	0.0	1.3	19.2
VI037867	0.7	10.2	0.0	1.5	15.0
VI037868	1.0	10.8	0.1	1.4	12.7
VI037869	0.8	9.2	0.0	1.1	39.7
VI045262	0.2	8.0	0.0	0.7	29.2
VI057400	0.6	12.1	0.0	1.1	23.9
VI057408	0.5	11.7	0.0	3.6	30.5
VI057457	0.6	12.3	0.0	3.1	29.2
VI063173	1.0	10.6	0.0	3.3	14.6
VI063174	0.4	12.3	0.0	1.4	26.0
VI063175	1.1	11.6	0.0	3.2	20.0
VI063176	1.1	9.5	0.0	4.2	13.0
VI063177	0.6	11.0	0.0	1.7	24.8
VI063178	1.4	9.7	0.0	2.4	17.6
VI063179	0.6	9.6	0.0	2.0	15.3
VI063180	1.1	9.9	0.0	1.9	17.0
VI063181	0.5	11.1	0.0	1.6	22.5
VI063182	1.2	11.0	0.0	1.9	17.1
VI063183	0.8	9.3	0.0	3.4	20.7
VI063184	0.0	11.9	0.0	2.6	22.8
VI063185	0.1	10.2	0.0	1.1	25.2
VI063187	1.6	10.1	0.0	1.6	37.9
CLN3682C	1.0	0.0	11.8	4.5	1.2
VI063893	1.5	12.5	2.0	0.9	21.6

Supplemental Table 3. DNA marker assay for *B. tabaci* whitefly resistance alleles *Wf-1* and *Wf-2*. N, missing data.

Accession No.	<i>Wf-1</i>	<i>Wf-2</i>
VI007099	N	+/-
VI037239	+	++
VI037241	+	++
VI037324	N	++
VI037339	+	++
VI037340	+	++
VI037867	+	++
VI037868	+	++
VI037869	+	++
VI045262	N	++
VI057400	N	++
VI057408	N	++
VI057457	N	++
VI063173	N	++
VI063174	N	++
VI063175	N	++
VI063176	N	++
VI063177	N	++
VI063178	N	++
VI063179	+	++
VI063180	+	++
VI063181	+	++
VI063182	+	++
VI063183	+	++
VI063184	+	++
VI063185	+	++
VI063187	+	++
CLN3682C	-	-
VI063893	-	-