

**Supplementary Table S1** – Distribution of Sicilian tomato ecotypes based on plant and fruit traits measured using the phenotypic scale developed by IPGRI (1996).

Traits	Class	N. of accessions	Frequency (%)
Plant growth	Dwarf	1	2.7
	Determinate	4	10.8
	Semi-determinate	15	40.5
	Indeterminate	17	45.9
Leaf attitude	Semi-erect	6	16.2
	Horizontal	18	48.6
	Drooping	13	35.1
Leaf type	Dwarf	0	0.0
	Potato leaf type	11	29.7
	Standard	22	59.5
	<i>peruvianum</i>	4	10.8
	<i>pimpinellifolium</i>	0	0.0
	<i>hirsutum</i>	0	0.0
Predominant fruit shape	Flattened (oblate)	10	27.0
	Slightly flattened	4	10.8
	Rounded	16	43.2
	High rounded	5	13.5
	Heart-shaped	1	2.7
	Cylindrical (long oblong)	0	0.0
	Pyriform	0	0.0
	Ellipsoid (plum-shape)	1	2.7
Fruit size	Very small (<3 cm)	0	0.0
	Small (3-5 cm)	26	70.3
	Intermediate (5.1-8 cm)	5	13.5
	Large (8.1-10 cm)	6	16.2
	Very large (>10 cm)	0	0
Fruit size homogeneity	Low	9	24.3
	Intermediate	10	27.0
	High	18	48.6
Exterior colour of mature fruit	Green	0	0.0
	Orange	3	8.1
	Red	34	91.9
	Pink	0	0.0
	Yellow	0	0.0
Intensity of exterior colour	Light	2	5.4
	Intermediate	16	43.2
	Dark	19	51.4
Flesh colour of pericarp	Green	0	0.0
	Orange	4	10.8
	Red	32	86.5
	Pink	0	0.0
	Yellow	1	2.7
Flesh colour intensity	Light	9	24.3
	Intermediate	13	35.1
	Dark	15	40.5
Colour of core	Green	0	0.0
	White	0	0.0
	Light	11	29.7
	Intermediate	21	56.8
	Dark	5	13.5
Fruit shoulder shape	Flat	15	40.5
	Slightly depressed	8	21.6
	Moderately depressed	8	21.6
	Strongly depressed	6	16.2
Shape of pistil scar	Dot	24	64.9
	Stellate	3	8.1
	Linear	0	0.0
	Irregular	10	27.0
Blossom end shape	Indented	0	0.0
	Flat	29	78.4
	Pointed	8	21.6
Cross sectional shape	Round	20	54.1
	Angular	7	18.9

	Irregular	10	27.0
	Absence	11	29.7
	Very weak	10	27.0
Ribbing at calyx end	Weak	3	8.1
	Intermediate	5	13.5
	Strong	8	21.6
	Easy	12	32.4
Easiness of fruit to detach from the pedicel	Intermediate	15	40.5
	Difficult	10	27.0