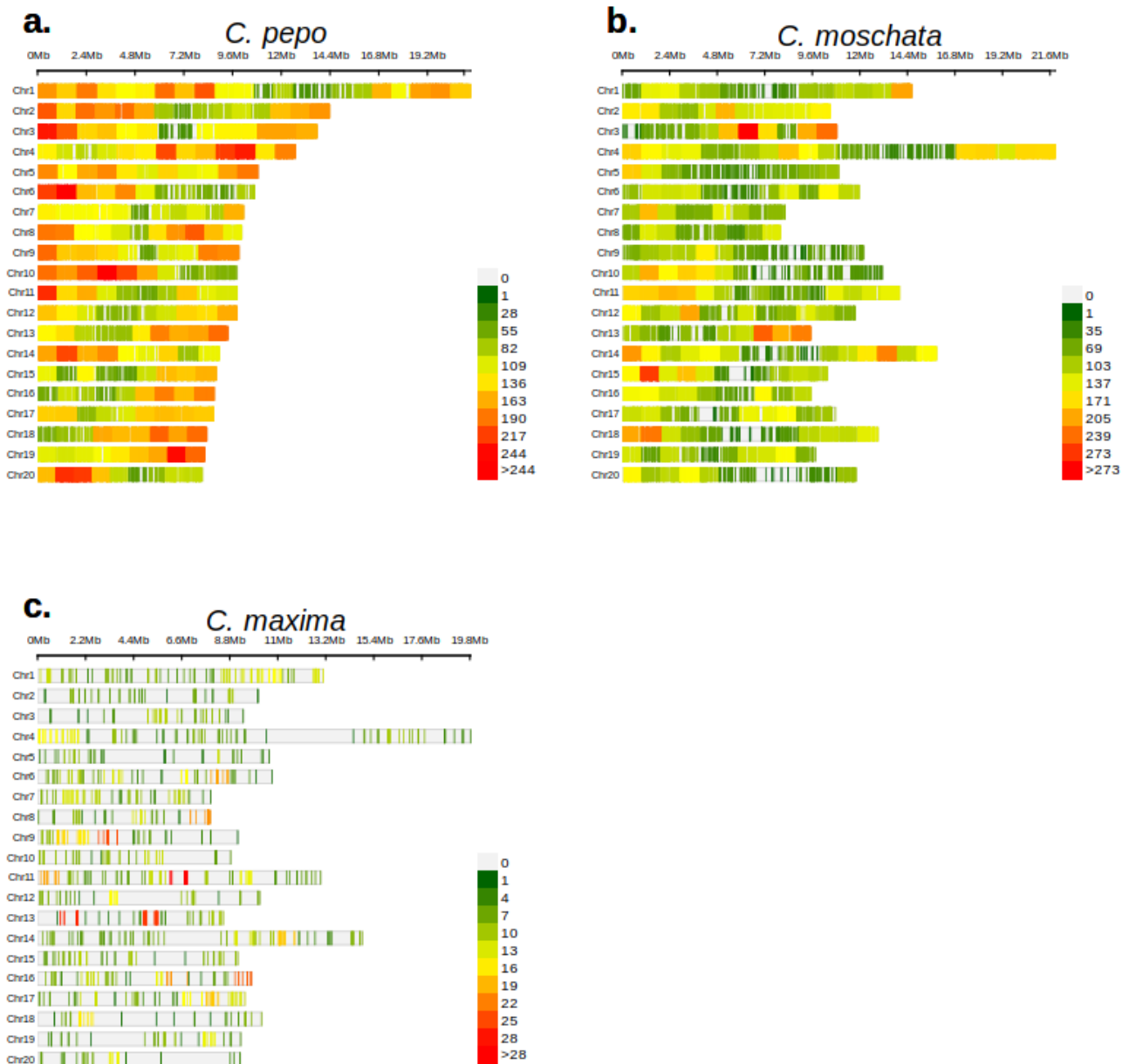


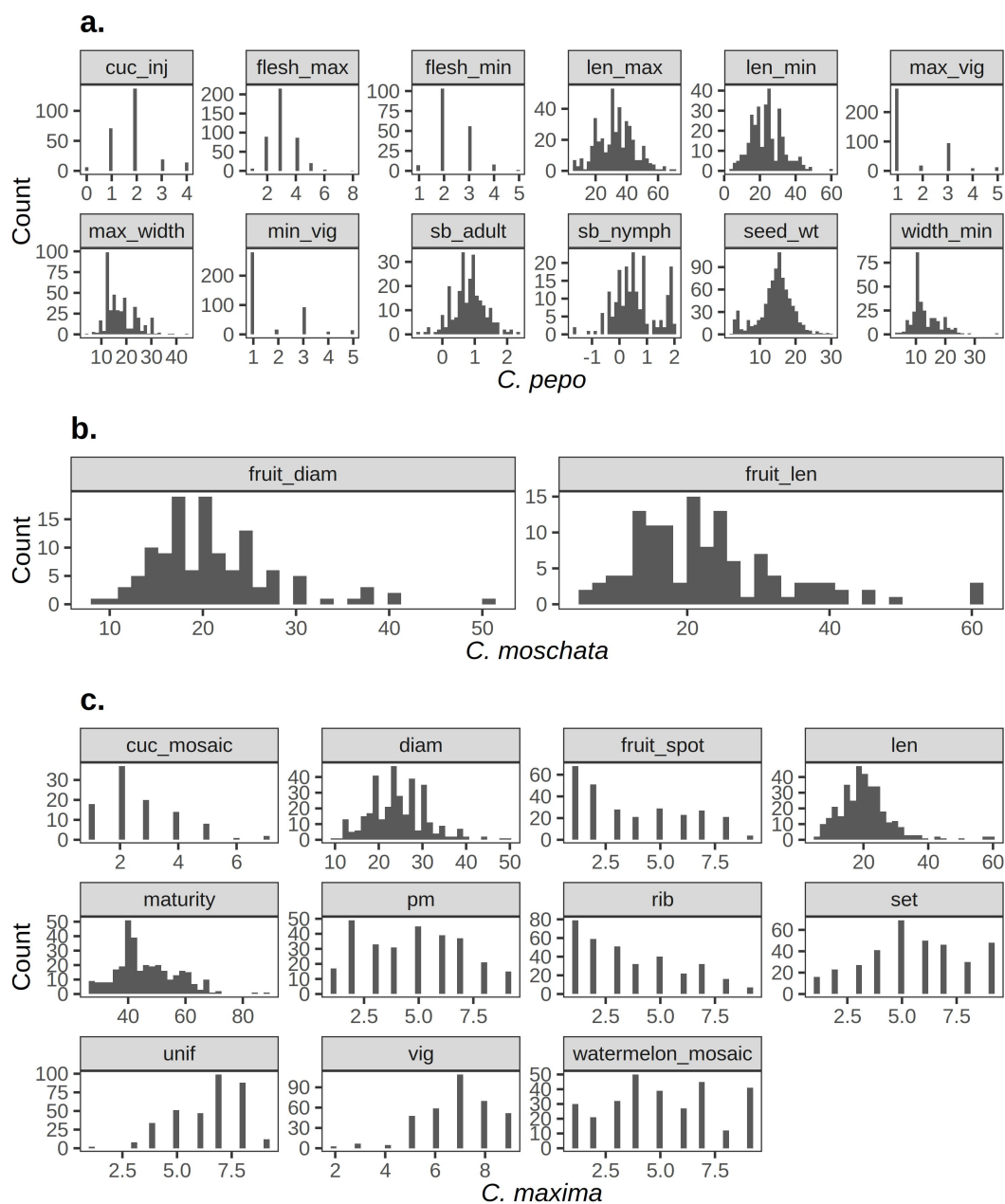
# Supplementary Material

## 1 SUPPLEMENTARY DATA

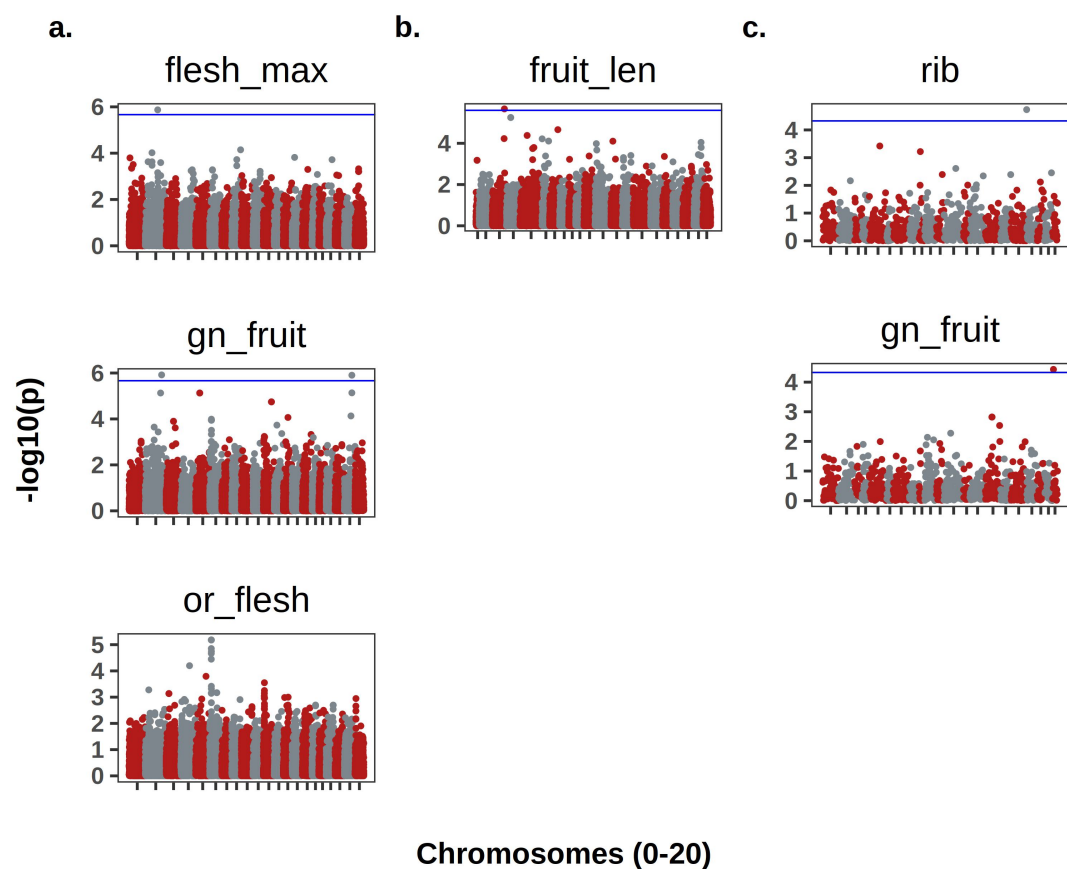
### 1.1 Figures



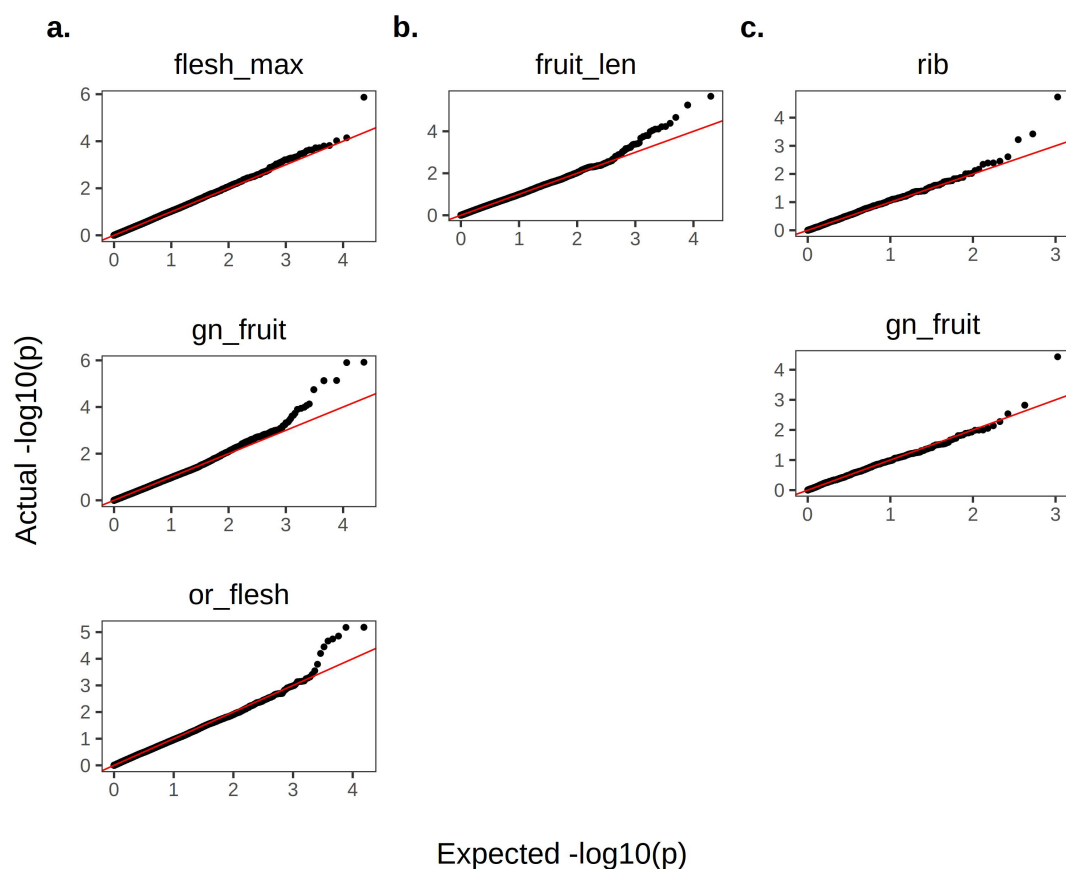
**Figure S1.** Geographical distribution of the USDA *Cucurbita* ssp. collection. The size of the pie chart is scaled according to the number of accessions. Sector areas correspond to the proportion of the three species.



**Figure S2.** Histograms of continuous and ordinal traits for **Panel a.** *C. pepo*, **Panel b.** *C. moschata*, and **Panel c.** *C. maxima*.



**Figure S3.** GWAS results for **Panel a.** *C. pepo*, **Panel b.** *C. moschata*, and **Panel c.** *C. maxima*.



**Figure S4.** Q-Q plots for GWAS results for **Panel a.** *C. pepo*, **Panel b.** *C. moschata*, and **panel c.** *C. maxima*.

## 1.2 Tables

Trait	Species	Chrom	Pos	Alleles
plant_type	<i>C. pepo</i>	6	3962527	G/C
plant_type	<i>C. pepo</i>	10	3507098	C/T
plant_type	<i>C. pepo</i>	10	3507179	G/T
plant_type	<i>C. pepo</i>	10	3507087	A/G
plant_type	<i>C. pepo</i>	10	3507387	C/T
plant_type2	<i>C. pepo</i>	10	679593	A/C
plant_type2	<i>C. pepo</i>	10	753000	T/C
plant_type2	<i>C. pepo</i>	10	768265	T/C
plant_type2	<i>C. pepo</i>	10	666810	T/C
plant_type2	<i>C. pepo</i>	10	974041	G/A
gn_fruit	<i>C. pepo</i>	1	17395123	C/T
gn_fruit	<i>C. pepo</i>	19	6509248	A/G
gn_fruit	<i>C. pepo</i>	19	6509202	T/C
gn_fruit	<i>C. pepo</i>	1	16658797	G/C
gn_fruit	<i>C. pepo</i>	4	5142030	C/T
or_flesh	<i>C. pepo</i>	5	1075625	A/T
or_flesh	<i>C. pepo</i>	5	1075652	T/G
or_flesh	<i>C. pepo</i>	5	1074883	T/C
or_flesh	<i>C. pepo</i>	5	1072306	G/T
or_flesh	<i>C. pepo</i>	5	1115573	C/T
flesh_max	<i>C. pepo</i>	1	10063336	C/T
flesh_max	<i>C. pepo</i>	7	9444225	T/A
flesh_max	<i>C. pepo</i>	1	5697024	C/T
flesh_max	<i>C. pepo</i>	13	2248185	G/A
flesh_max	<i>C. pepo</i>	0	1463850	G/A
fruit_len	<i>C. moschata</i>	2	9116220	T/C
fruit_len	<i>C. moschata</i>	3	5539269	T/A
fruit_len	<i>C. moschata</i>	3	5539270	T/A
fruit_len	<i>C. moschata</i>	6	10461612	C/T
fruit_len	<i>C. moschata</i>	4	6338885	C/T
rib	<i>C. maxima</i>	17	76012	T/C
rib	<i>C. maxima</i>	4	8332568	C/T
rib	<i>C. maxima</i>	8	1759117	A/T
rib	<i>C. maxima</i>	11	6776288	A/G
rib	<i>C. maxima</i>	19	8123733	A/C
gn_fruit	<i>C. maxima</i>	20	1087480	G/A
gn_fruit	<i>C. maxima</i>	14	9051301	G/T
gn_fruit	<i>C. maxima</i>	14	9051304	A/T
gn_fruit	<i>C. maxima</i>	14	14410557	C/T
gn_fruit	<i>C. maxima</i>	11	3829766	C/T

**Table S1.** The position and allele are shown for the top five association results for each trait for which there was a GWAS signal.