

6 o'clock

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Jack O' Lantern

I. Jack of the Lantern

(Irish folklore)

Illustrated by Nick Mayer



- A. A drunk and deceitful blacksmith
1. Devil wants his soul, tries to get him drunk.
 2. Jack 'agrees'.
 3. Devil in the pocket as a six pence.
 4. Ten-year deal.



- B. 10 yrs. Later.
1. Collection time?
 2. Last request.
 3. Pocket-knife comes in handy.
 4. Eternal deal struck.



C. Jack becomes Jack of the Lantern.

1. Death by natural causes.
2. "Go to Hell."
3. "Go back to where you came!"

The turnip (a member of the mustard genus in the mustard family)

Brassica rapa



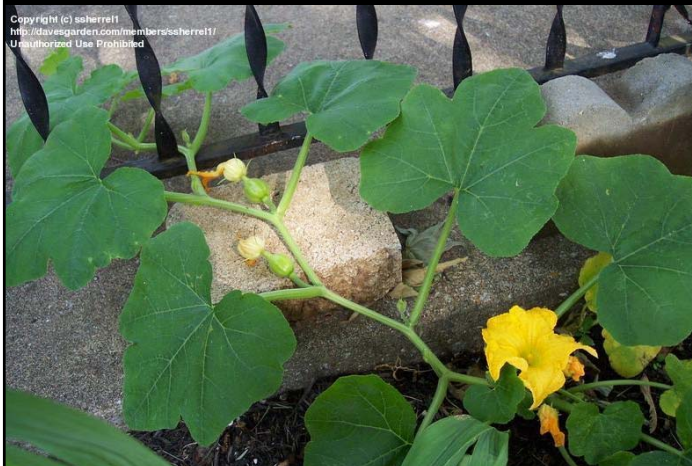


D. Irish and Scottish Halloween tradition.

1. Treats and food appease tired spirits.
2. Costumes & Jack o'lanterns keep 'em out.
3. American immigrants bring tradition, discover pumpkins.

II. *Cucurbita pepo*

- A. A member of the genus *Cucurbita* (Gourd & Squash Family)



II. *Cucurbita pepo*

Origin(s), Evolution, and Systematics of *Cucurbita pepo* (Cucurbitaceae)¹

DEENA S. DECKER²

Numerical studies of morphological data and starch gel electrophoresis have provided a new perspective on important issues pertinent to the origin(s) and subsequent evolution of domesticated Cucurbita pepo. Wild C. texana and/or C. fraterna appear to be the most likely candidates for progenitor(s) of the domesticate. Populations of texana-like plants from beyond Texas share various attributes with Texas populations, suggesting that C. texana once had a more widespread distribution to the northeast. The possibility exists that C. pepo was domesticated independently in eastern U.S., as well as in Mexico, which is in line with recent archeological findings. Multiple domestications are also supported by allozyme data indicating a substantial divergence within the species. A new classification consisting of C. pepo ssp. pepo (origins in Mexico), C. pepo ssp. ovifera var. ovifera (origins in eastern U.S.), and C. pepo ssp. ovifera var. texana (spontaneous populations in eastern U.S.) is proposed.

One of the most important genera represented in the archaeobotanical record of the New World is *Cucurbita* L. (Cucurbitaceae). The genus includes cultivated species and about 22 wild species (Whitaker 1974). All species have 12 chromosomes and are incompletely isolated from one another (Whitaker and Bemis 1964, 1975). Affinities among the wild and cultivated species (Hurd et al. 1971; Whitaker and Bemis 1975), as well as the archaeological record suggest that the cultivated species were domesticated at different times and in different areas (Whitaker and Cutler 1965).

Among the domesticated cucurbits, the oldest known remains are of *C. pepo* L. *Cucurbita pepo* seeds have been recovered from the Valley of Oaxaca in Mexico that are more than 9,000 yr old (Whitaker and Cutler 1971) and from Ocampo Caves in Tamaulipas, Mexico, dated at 7000–5000 B.C. (Whitaker et al. 1957). Seeds of wild cucurbits date back to the earliest *C. pepo* remains (Whitaker and Cutler 1971). They may represent progenitors to the domesticates; however, they have not been identified to species.

The archeological record has not revealed the origins of the cultivated cucurbits, although it does provide information concerning the geographical spread and

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B. Mexican Origin Likely

II. *Cucurbita pepo*

C. Morphology of pumpkin plants.



Cucurbita pepo



II. *Cucurbita pepo*

D. The pumpkin.
Vegetable or fruit?





Male flowers from 'Atlantic Giant' pumpkin cultivar.

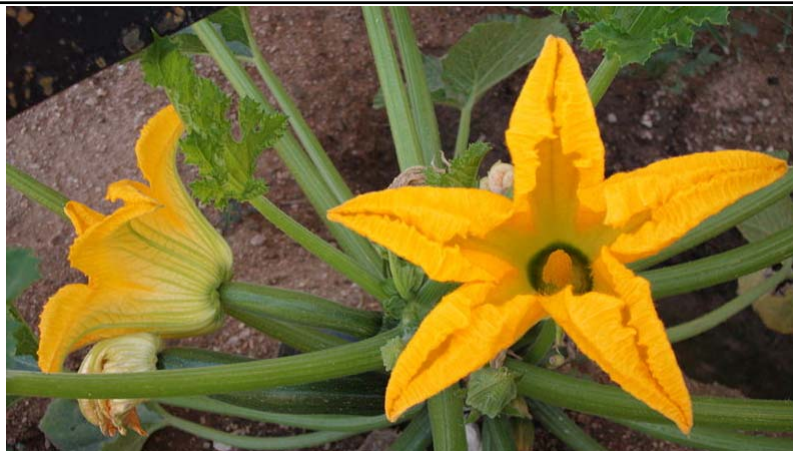
Female flowers from 'Atlantic Giant' pumpkin cultivar.





Male (above) and female (right) flowers from zucchini cultivar of *Cucurbita pepo*.

Cucurbita pepo
Cucurbitaceae
© G. D. Carr















Male and female flowers from a zucchini cultivar of *Cucurbita pepo*.



A zucchini cultivar of *Cucurbita pepo*.

II. *Cucurbita pepo*

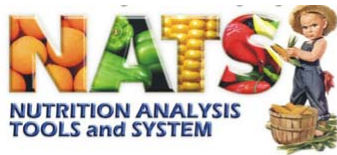
E. Diversity of *C. pepo* cultivars.

			
<i>Cucurbita maxima</i> 'Table Gold'	<i>Cucurbita maxima</i> 'Triamble'	<i>Cucurbita maxima</i> 'Turks Turban' grøn form.	<i>Cucurbita moschata</i> 'Muscade De Provence'
			
<i>Cucurbita pepo</i> 'Apple' ?	<i>Cucurbita pepo</i> 'Early White Bush'	<i>Cucurbita pepo</i> (soets navn ukendt!)	<i>Cucurbita pepo</i> 'Sweet Dumbling'
			
Forskellige Squash og græskar, fra årets første	<i>Cucurbita pepo</i> 'Tromboncino'	Græskar til tørring, så de får længere holdbarhed.	<i>Cucurbita maxima</i> 'Turk's Turban' grøn form





Jack B. Little
Cucurbita pepo



**NUTRITION ANALYSIS
TOOLS and SYSTEM**

NATS VERSION 2.0



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Analysis Results

Nutrient	Total	Rec.	%Rec
Calories	30.16	2900	1.04%
Pro (g)	1.16	63	1.84%
Fat (g)	0.12	96.67	0.12%
Carb (g)	7.54		--
Na (mg)	1.16	2400	0.05%
vitA (IU)	1856	5000	37.12%
vitC (mg)	10.44	90	11.6%
satF (g)	0.06	32.22	0.19%
Chol (mg)	0	300	0%

Display All Nutrients

