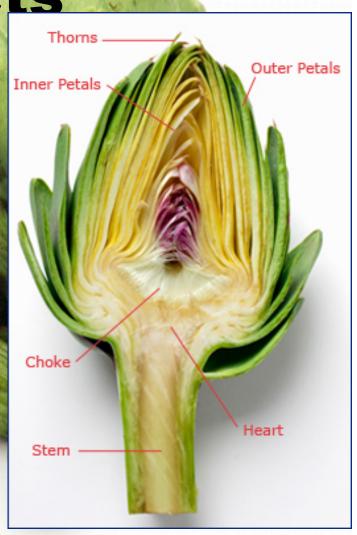


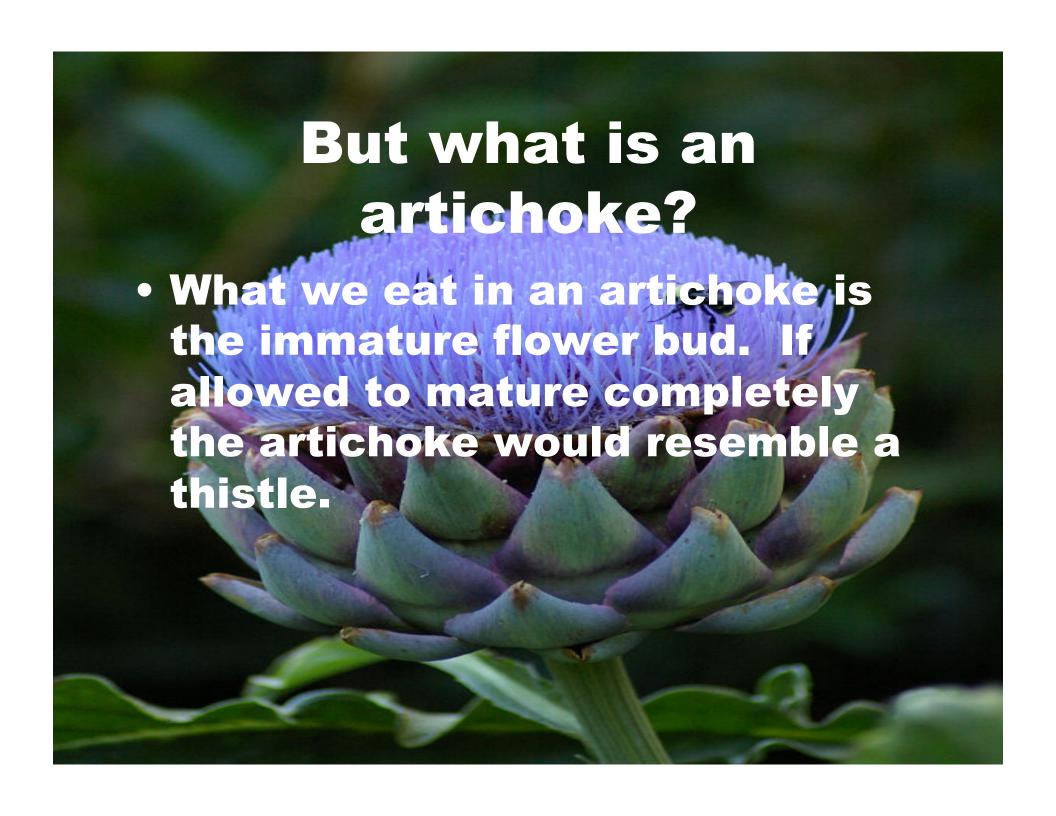
**Basic Facts** 

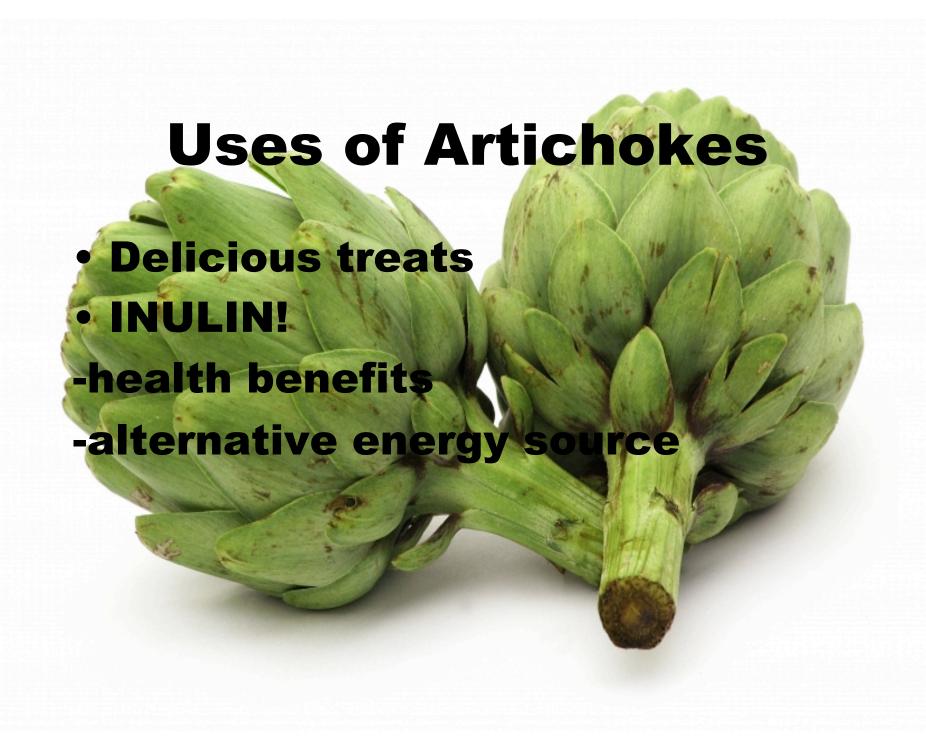
- Family: Asteraceae (Sunflower Family)
- Name derived from Arabic ardischauki
- Italy=main producer
- Heterozygous



#### **Domestication**

- There are many early references to artichokes in Classical literature—
  Theophrastus mentioned the artichoke as early as 300 B.C.E.
- The location and date of domestication is still debated, but it is speculated to be in the Mediterranean sometime in the 1st millennium C.E.





### Inulin

- "Inulin is a plant-derived carbohydrate with the benefits of soluble dietary fiber. It is not digested or absorbed in the small intestine, but fermented by the colon" -Molina et al 2005
- It is a polysaccharide that falls into the fiber categorization of fructan
- It is thought to have many benefits for human health and could be a good source for cellulosic ethanol.

### **Health Benefits**

- Prebiotic
- -the fermentation of inulin feeds good bacteria in the gut flora
- -This prohibits the growth of bad bacteria
- -It has also been shown to stimulate the immune system
- Weight loss
- -The texture of inulin is unique--when mixed with milk or water it creates a fat-like sensation
- -It is also tasteless so has the potential to be a calorie-free additive that could help with weight loss

# Health Benefits (cont'd)

- General Benefits
- Inulin has been shown to help with calcium absorption and therefore could help people with osteoperosis
- -It has also been shown to help lower cholesterol
- Because traditional medicine associated artichokes with liver health studies have even been done to see if it can reduce a hangoverunfortunately these studies did not turn out to be successful

### **Cellulosic Ethanol**

- Because of the large amounts of waste in the canning industry, the alternative energy potential of artichokes has also been explored
- It has been shown that inulin can produce high concentrations of ethanol
- But like many cellulosic ethanols the process is very involved, and not as beneficial as desired for more steady production

## The End



