Leguminosae or Fabaceae Family
Family Fabaceae

- Significant characteristic of members of this family:
  - Host bacteria in root nodules
  - Bacteria known as rhizobia
  - Able to take up $N_2$ from air
  - Make fertilizer for the plant
Nitrogen Fixation

- Rhizobia form symbiotic relationship with legume plant
  - Bacteria provide nitrogen
  - Plant provides carbohydrates
- If bacteria are present in soil, will naturally infect root hairs and fix nitrogen
- Fixed nitrogen is only available to the infected plant
Patterns of the Pea Family
(Pea Subfamily)

Locust Tree
- irregular flowers
- banner
- wings
- keel

This is one "pinnate" leaf made up of many smaller leaflets.

Alfalfa
- pea-like pods
Melilotus officinalis

Family: Fabaceae
Common name: Sweet Clover

یونجه زرد، شبدرشیرین، شاه افسر زرد

Hassan Makarian-1391
Spartium junceum

گل طاووسی

Hassan Makarian-1391
Sophora pachycarpa

نَيْسَة بَخَصْقَارْبا
Medicago lupulina

یونجه سیاه

Hassan Makarian-1391
Trifolium spp

شبدر سفید، شبدر خزنده

Hassan Makarian-1391
Trifolium repens
ماشک

Vicia sativa

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ماشک گل خوشه‌ای
Prosopis stephaniana

کهور - جغجغک

Hassan Makarian-1391
kehur - جغجغک