Lab 13 - Gymnosperms, part 2

I. Families to Know on Sight (no keying allowed for lab quizzes or final)

1. Cupressaceae

<u>Minimum Diagnostics:</u> Resinous, monoecious or dioecious trees or shrubs with needle-like or scale-like leaves (scale-like leaves opposite or whorled); bark often peely-fibrous; cones often round with peltate seed-scales with fused subtending bract, and >2 small, isolaterally winged, wind-dispersed seeds. *Juniperus* represents a particularly stark exception to cone morphology for this family.

II. Genera to Know (you can write your own key to genera and use on lab final)

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ACycadaceae	D. Cupressaceae
1. Cycas	4. Chamaecyparis (included by some in
	Cupressus sensu lato)
B. Zamiaceae	5. Cryptomeria
2. Zamia	6. Juniperus
	7. Metasequoia
C. Taxaceae 3. Taxus	8. Taxodium
	9. Thuja
J. IUMUS	

III. Economic Notes

Cycads are important ornamentals and in the international trade in endangered species. *Taxus* (yews) is important as ornamentals and as a source of Taxol. The cypress family, Cupressaceae, includes many ornamental trees and shrubs, ranging from junipers and red-cedars (*Juniperus* spp.) to many others. The fleshy cones of *Juniperus communis* is used to flavor gin. *Sequoia* (coastal redwood) and *Sequoiadendron* (giant redwood), both of the Cupressaceae, draw big money in California for tourism.