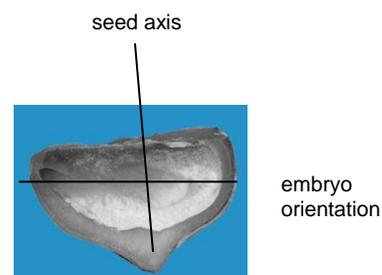
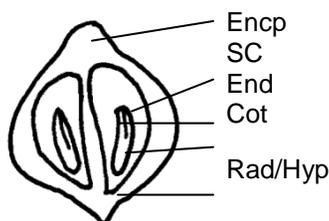


**FAMILY: CORNACEAE**Genus: *Cornus***1. PRECONDITIONING:**

METHODS	TIME (h)	TEMP (°C)
1. Soak in beaker of water	6-18	20-25
2. Remove seeds from endocarp, imbibe in water or between moist media	6-18	20-25

Notes: Method 2: crack endocarp with a vise or hammer to remove seeds. In *Cornus*, two seeds are enclosed by a hard endocarp to form a seed unit.

**Morphology***C. florida**C. racemosa*

for *C. sericea*:  
embryo orientation sometimes  
perpendicular to seed axis

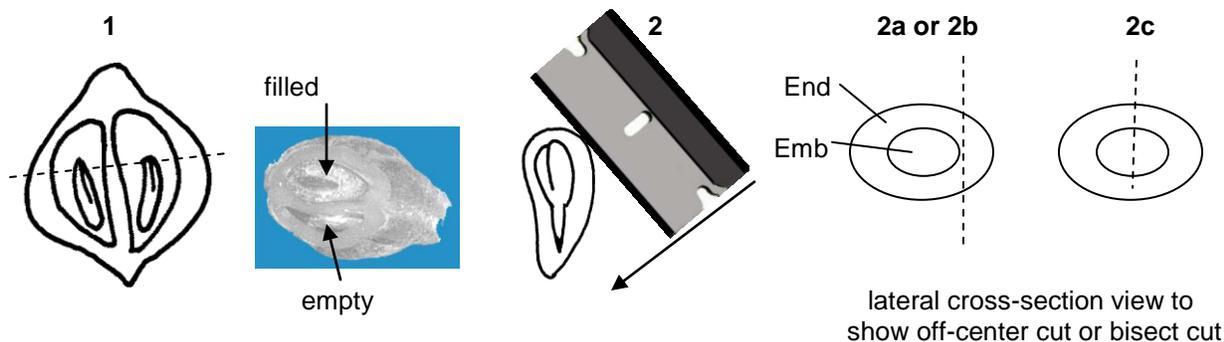
Fig 1 External

Fig 2 Embryo

**2. PREPARATION AND STAINING:**

METHODS	TZ Conc (%)	TIME (h)	TEMP (°C)
1. Cut laterally through the endocarp and cotyledons	1.0	6-18	30-35
2a. Cut longitudinally, off center to expose and remove embryo from endosperm	1.0	6	30-35
2b. Cut longitudinally, off center	1.0	6-8	30-35
2c. Bisect longitudinally, keeping both halves connected.	0.1	4	30-35

Notes: Embryo size and orientation is variable. Dog nail clippers work well for method 1.



lateral cross-section view to  
show off-center cut or bisect cut

Fig 3 Preparation method

