

FAMILY: JUNCACEAE

2007

Genus: *Juncus*

Morphology



1. PRECONDITIONING:

METHOD	TIME	TEMP (°C)
imbibe on moist blotter	overnight	20-25

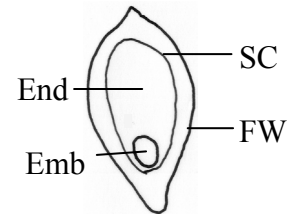


Fig 1 External

Fig 2 Embryo



2. PREPARATION AND STAINING:

METHOD	TZ Conc(%)	TIME (hrs)	TEMP (°C)
cut longitudinally through embryo	0.1	24-72	30-35
pierce seed with needle through endosperm tissue	1.0	24-72	30-35

Notes: Small seeds may be placed on filter paper moistened with TZ solution for staining (see section 14.2).

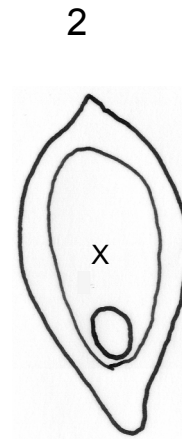
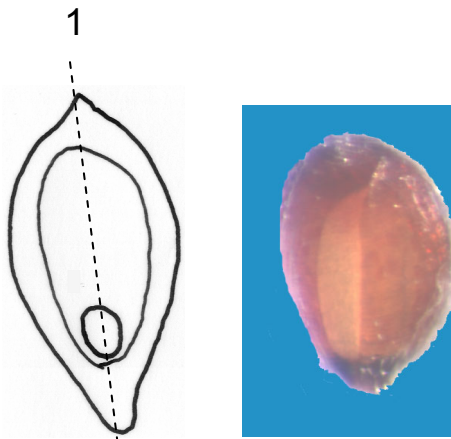


Fig 3 Preparation method

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Post Staining Notes: Bisect longitudinally or clear pierced seed with glycerol or lactic acid if seed coat is not translucent enough for evaluation.



3. EVALUATION:

VIABLE (NORMAL STAINING)

- embryo completely stained
- nutritive tissue is non-living and will not stain

NON-VIABLE (ABNORMAL OR NO STAINING)

- any essential part of the embryo unstained
- immature seed (see sections 15.1.3.2 and 15.1.3.4)

OTHER TISSUE/NOTES

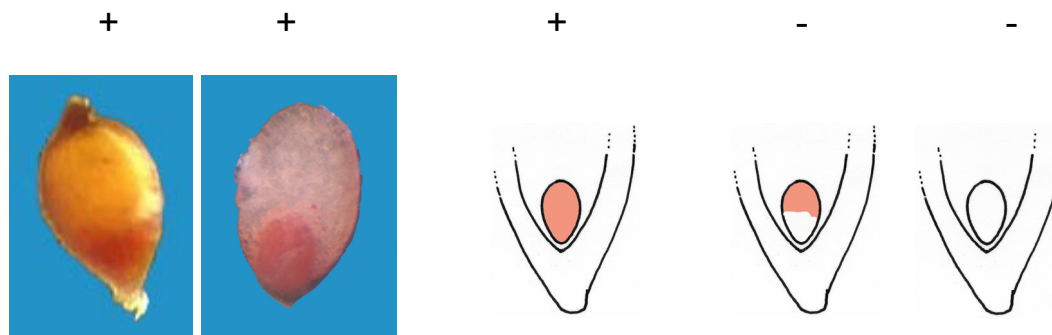


Fig 4 Seed stain evaluation

Lab references: 1, 4, 5, 12