

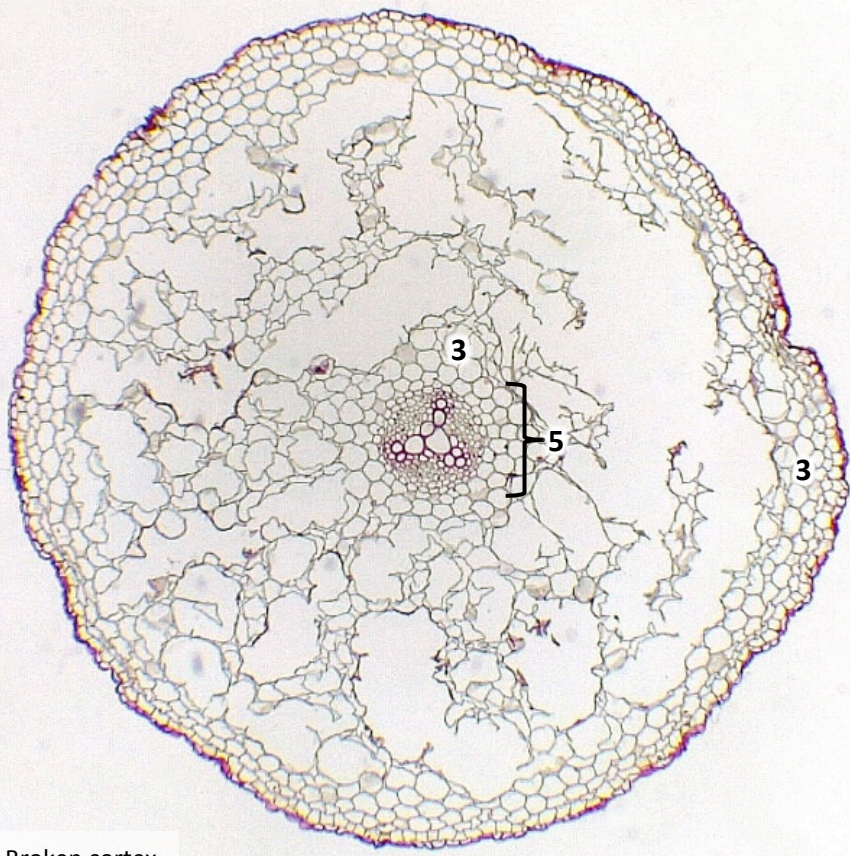
# Dicot Root

## *Ranunculus* (Buttercup)

### Immature

1. Epidermis
2. Hypodermis
3. Cortex
4. Endodermis
5. Vascular cylinder (stele)
6. Pericycle
7. Primary phloem
8. Vascular cambium
9. Protoxylem
10. Metaxylem

Transverse sections

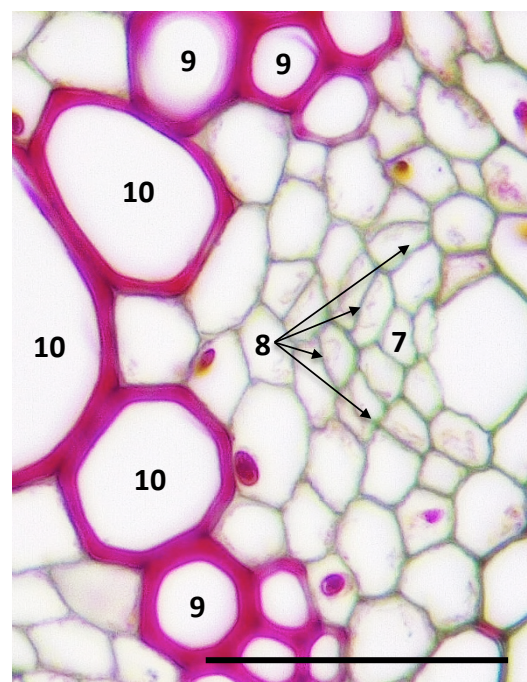
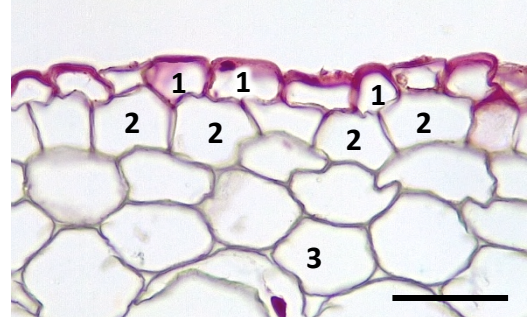
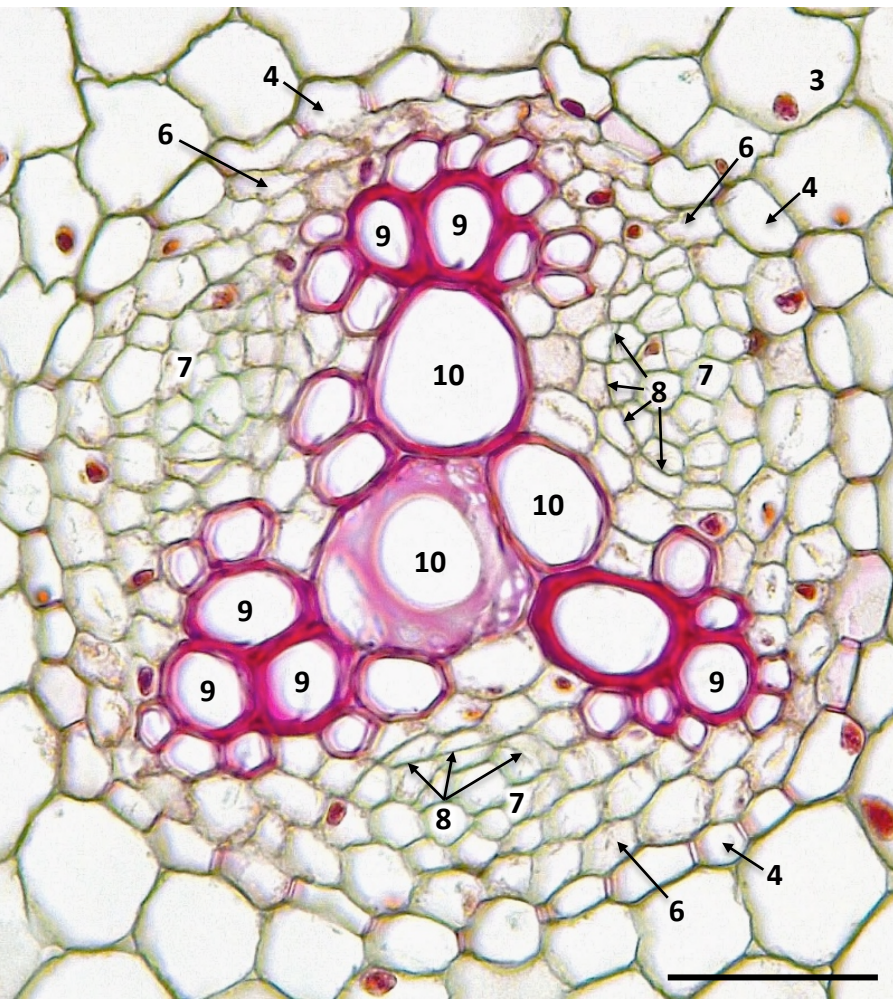


Broken cortex

Bar = 50 μm



Horton Lai and Carol Wenzel, 2020



# Dicot Root

## *Ranunculus* (Buttercup)

### Mature

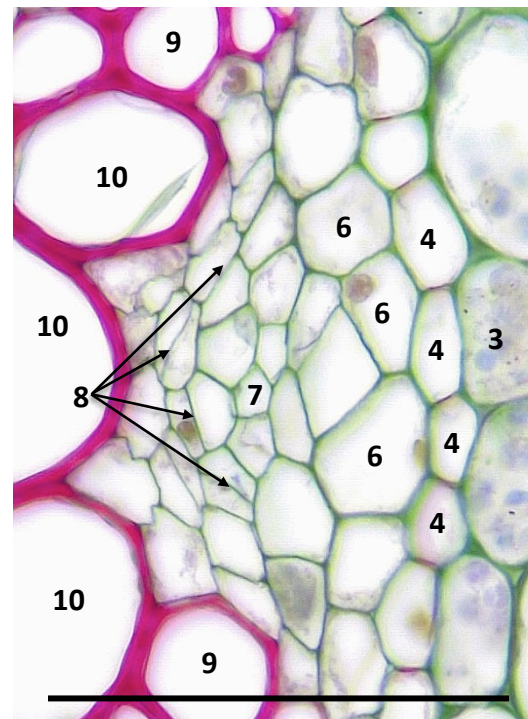
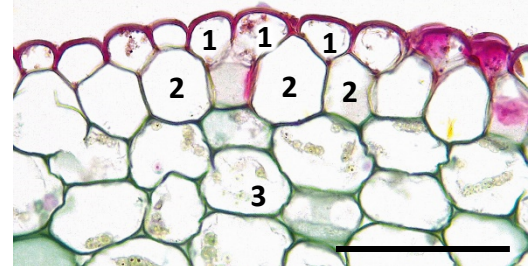
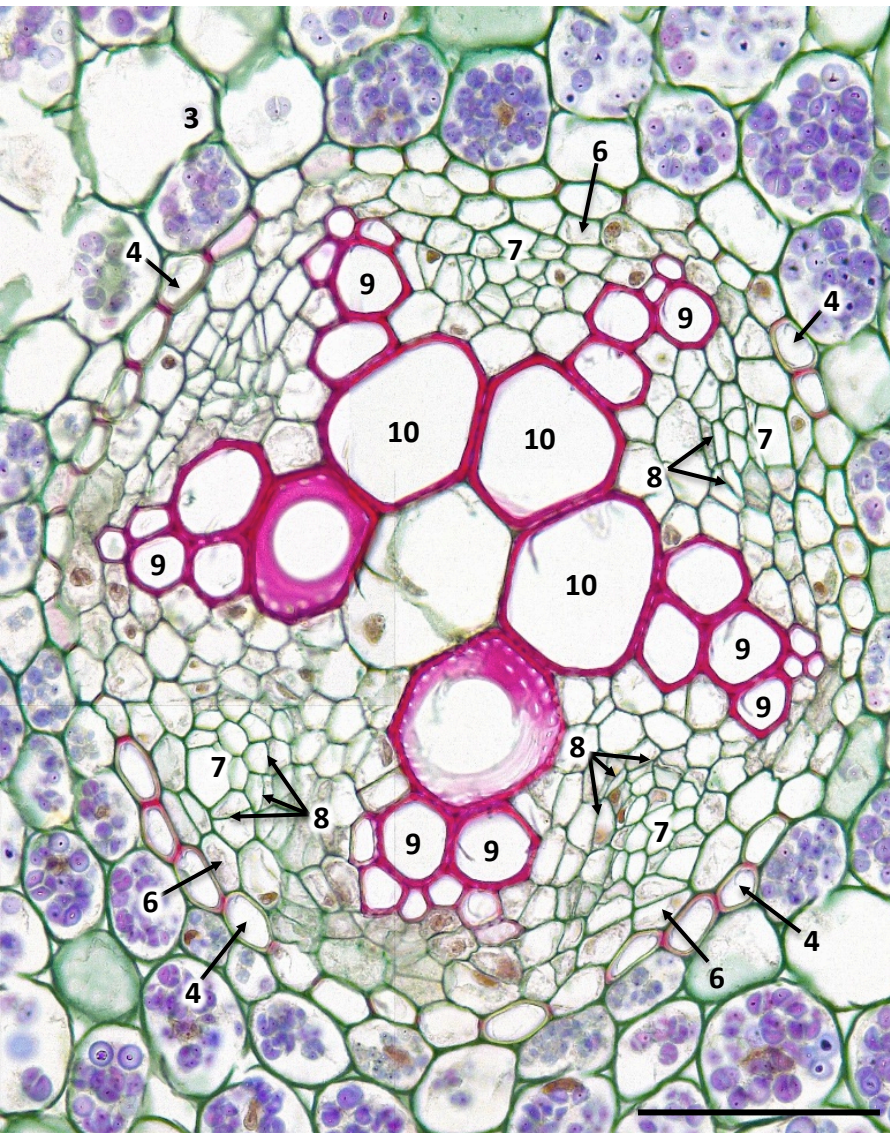
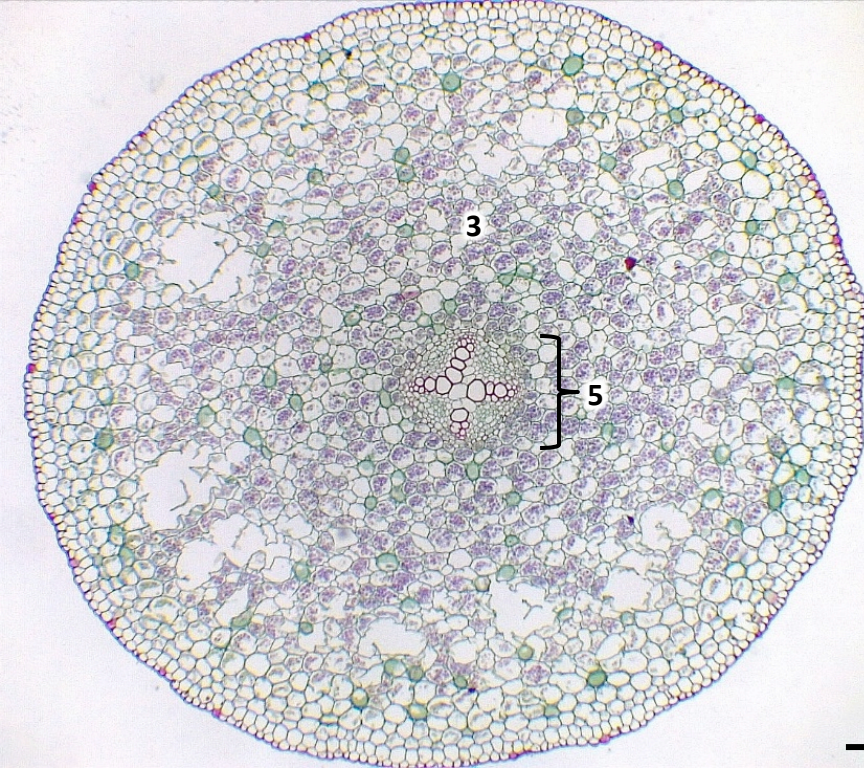
1. Epidermis
2. Hypodermis
3. Cortex
4. Endodermis
5. Vascular cylinder (stele)
6. Pericycle
7. Primary phloem
8. Vascular cambium
9. Protoxylem
10. Metaxylem

Transverse sections

Bar = 100  $\mu$ m



Horton Lai and Carol Wenzel. 2020



# Dicot Root

## Primary Growth

1. Epidermis
2. Hypodermis
3. Cortex
4. Endodermis
5. Passage cell
6. Vascular cylinder (stele)
7. Pericycle
8. Primary phloem
9. Vascular cambium
10. Protoxylem
11. Metaxylem

Transverse sections

Bar = 50  $\mu$ m



Horton Lai and Carol Wenzel. 2020

