

PMB 102/IB 102  
September 27, 2007

-Systems

-Protective systems

-epidermis/rhizodermis

-interface of plant and environment; pathogens,  
environmental extremes

-cells tightly packed, irregular in shape, high turgor

-Modifications-

-trichomes

-cuticle; rich in waxes, 1-15 microns thick

-Secretory systems

-distinguish between secretion and excretion

-excretion best thought of as "deposition"

-secretion..release of materials, often under pressure, to the  
outside or to an internal reservoir (ducts)

-hydathodes, glands, nectaries

-laticifers...produce " latex" = polyisoprene hydrocarbons

-Aerating systems

-consist primarily of intercellular spaces and embolized xylem