

# ORGANISATION OF PLANT TISSUES AND GROWTH

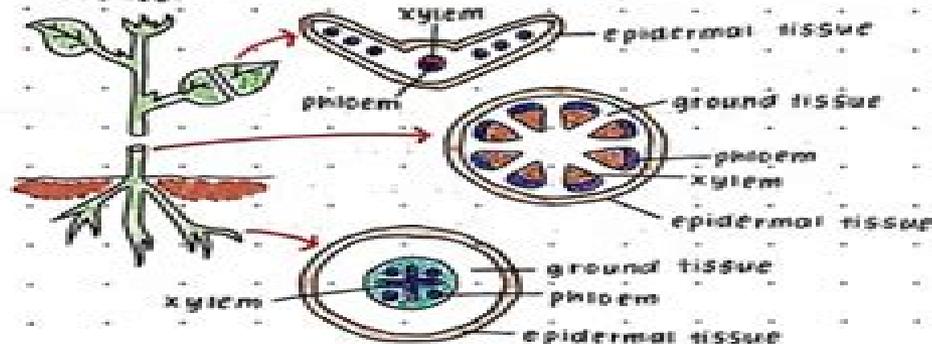
## 1.1 Organisation of Plant Tissues

a plant consist of two types of tissues :

- a) meristematic tissues
  - apical meristematic
  - lateral meristematic
- b) permanent tissues
  - epidermal tissues
  - ground tissues (parenchyma, collenchyma, sclerenchyma)
  - vascular tissues (xylem, phloem)

### Permanent Tissues

- matured tissues which have experienced or are experiencing differentiation
- there are three types of permanent tissues, epidermal tissues, ground tissues and vascular tissues.



### Types of Permanent Tissues and Their Functions

#### 1. Epidermal tissues

layer the outermost surface of stems, leaves and roots of young plants.

- epidermal cell walls exposed to the air has waxy and waterproof layer called cuticle.
- ↳ cuticle reduces water loss through evaporation
- ↳ cuticle protects leaf from mechanical injuries and water loss.
- modified epidermal cells according to functions:
  - guard cells : controls opening of stoma
  - root hair cells : increase surface area of root for water & mineral salts absorption

#### 2. parenchyma tissues

simplest living cells & don't undergo differentiation.

- have thinnest cell wall
- always in turgid state providing support and maintaining shape of herbaceous plants.
- involved in :
  - photosynthesis
  - storage of starch and sugar
  - involved in gaseous exchange
  - repair and regeneration of plant tissue
  - vascular systems

# Biology Form 5 Chapter 1

**Joe Tiralongo, Ivan Martinez-Duncker**



## **Biology Form 5 Chapter 1:**

**Sialobiology: Structure, Biosynthesis and Function. Sialic Acid Glycoconjugates in Health and Disease** Joe Tiralongo, Ivan Martinez-Duncker, 2013-02-13 This ebook presents a summary of central aspects of sialobiology i e the study of sialic acid and its relevance to biology The importance of substitution by the sugar sialic acid and the role played by sialylated structures eg glycoproteins glycolipids glycoconjugates in immune recognition neural cell growth embryogenesis and disease development including microbial pathogenesis and cancer progression has become well established Since 1995 the field of sialobiology has expanded greatly as many of the key enzymes involved in sialic acid biosynthesis as well as the vast majority of sialic acid binding lectins involved in immune recognition have only been cloned characterised and structural elucidated after the publication of earlier works on the subject This e book also covers these recent developments Chapters in this e book have been contributed by eminent sialobiologists Therefore a book of this nature is timely and will prove to be a definitive volume with a high impact in this field for glycobiologists and cell biologists The Biology of the Protozoa Gary Nathan Calkins, 1926 **The Outline of Knowledge: The history of the world, by A. D. Innes. The romance of money, by R. M. Knerr. The reader's guide** James Albert Richards, 1924 **The Outline of Knowledge: The history of the world** James Albert Richards, 1924 **Calculus for Business, Biology, and the Social Sciences** David G. Crowdis, Susanne M. Shelley, Brandon W. Wheeler, 1979 *Biology of Animal Behavior* James W. Grier, Theodore Burk, 1992

**Nutrition and Diet Therapy** Corinne Balog Cataldo, Linda K. DeBruyne, Eleanor Noss Whitney, 1992 With engaging coverage of core nutrition concepts and up to date clinical content Cataldo DeBruyne and Whitney s text provides the ideal introduction to nutrition and diet therapy From basic facts and practical information to assessments and case studies this Sixth Edition provides the contemporary and comprehensive approach you need to gain knowledge and achieve confidence in the course Book jacket Journal of Biological Education , 1991 **Biology** Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece s BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter **Living Things** Arthur G. Clement, 1925 **American School & University** , 1930 **The Gardeners' Chronicle** , 1930 **Mind and Body** , 1921 **The Southern Reporter** , 1917 **Biological Abstracts** Jacob Richard Schramm, 1929 **Canadian Journal of Medicine and Surgery** , 1904 The World of Biology P. William

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