

		leaf asymmetry development, stomata density and distribution control, trichome development.	
18.		Flower development and organ patterning: Organization of floral organs, ABC model, modification of floral organs, boundary genes; homeotic genes of plants, MADS box, evolutionary conservation between eudicot and cereal crop plants.	AKN/3
19.		Transition: Transition from vegetative and reproductive stage, photoperiodic, vernalization, Gibberlic acid and autonomous pathways.	AKN/2
20.		Development of reproductive organs: Development of gametophytes and gametes, meiosis, developmental control, pollination, fertilization.	AKN/2

Suggested readings:

1. Developmental Biology: Scott F Gilbert
2. Essentials of Developmental Biology: JMW Slack
3. Principles of Developmental Biology (2nd, edition): Louis Wolpert
4. Ecological developmental Biology integrating epigenetic, medicine and evolution: Scott F Gilbert and Epel
5. The Arabidopsis Book, ASPB publication (available freely at www.aspb.org)
6. Biochemistry and Molecular Biology of plants Ed. Buchanan, Grussem, and Jones, ASPB publication.
7. Plant Physiology by Taiz and Zeiger, Sinauer Associate Inc. Publishers.
8. Molecular Life of Plants, Ed. Jones, Ougham, Thomas, and Waaland. Wiley- Blackwell/ASPB publication.