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Nota di contenuto	Mechanisms in Plant Development; Contents; Preface; Introduction; Sources for figures; Chapter 1: An introduction to flowering plants; Alternation of generations; Gametophyte development; Development of the sporophyte; Further reading; Chapter 2: Characteristics of plant development; Plant cells; Larger patterns; Theoretical framework for the study of developmental mechanisms; Conclusions; Further reading; Chapter 3: Cell-intrinsic information; Lineage; Case study 3.1: Laser ablation of cells in the Arabidopsis root tip; Case study 3.2: Green-white-green periclinal chimeras Case study 3.3: Mutations affectings division patterns Relationship between age and position; Case study 3.4: Mutations affecting the rate of leaf initiation in Arabidopsis; Conclusions; Further reading; Chapter 4: Primary axis development; Embryonic axes; Case study 4.1: Longitudinal axis of the Fucus embryo; Case study 4.2: Longitudinal axis of the Arabidopsis embryo; Case study 4.3: Radial axis of the Arabidopsis embryo; Conclusions; Further reading; Chapter 5: Axis development in the leaf and flower; Leaves; Case study 5.1: Adaxial-abaxial axis of the leaf Case study 5.2: Proximodistal axis of the leaf Case study 5.3: Determinate nature of leaf development; Flowers; Case study 5.4: Radial axis of the flower; Case study 5.5: Adaxial-abaxial axis of the

Sommario/riassunto	Intended for undergraduate and graduate courses in plant development, this book explains how the cells of a plant acquire and maintain their specific fates. Plant development is a continuous process occurring throughout the life cycle, with similar regulatory mechanisms acting at different stages and in different parts of the plant. Rather than focussing on the life cycle, the book is structured around these underlying mechanisms, using case studies to provide students with a framework to understand the many factors, both environmental and endogenous, that combine to regulate development and g