



Arabidopsis: An Atlas of Morphology and Development

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The recent application of molecular genetics to problems of developmental biology has provided us with greater insight into the molecular mechanisms by which cells determine their developmental fate. This is particularly evident in the recent progress in understanding of developmental processes in model animal systems such as *Drosophila melanogaster* and *Caenorhabditis elegans*. Despite the use of plants in some of the earliest genetics experiments, the elucidation of the molecular bases of plant development has lagged behind that of animal development. However, the emergence of model systems such as *Arabidopsis thaliana*, amenable to developmental genetics, has led to the beginning of the unraveling of the mysteries behind plant morphogenesis. This atlas of the morphology and development of the weed *Arabidopsis* is intended to be a reference book, both for scientists already familiar with plant anatomy and for those utilizing *Arabidopsis* who have come from other fields. The primary concentration is on descriptions rather than interpretations, as interpretations evolve and change relatively rapidly, whereas the evolution of plant form takes place on a much longer time scale. Molecular genetics and the use of mutants to probe wild-type gene function rely on the wild-type being well characterized. With this in mind, an attempt was made to present detailed descriptions of wild-type structure and development, to provide a foundation for comparison with the selected mutants in the atlas. More importantly, it is hoped that the atlas will serve as a valuable resource in the characterization of new mutants.

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