

by which pesticides are developed—the longer-established approaches of random screening and imitative chemistry and the more recent natural-products and “biorational” approaches, the latter of which begins with identification of mechanisms that cause death. There follow papers dealing specifically with various aspects of photosynthesis and the biosynthesis of lipids, pigments, and branched-chain amino acids. Other papers focus on effects on the shikimate pathway, the activity of glutamine synthetase, differences among plants in target-site specificity, molecules (proherbicides) whose activity depends on metabolic transformation by the target plant, and the development of resistance to herbicides in weeds and in crop plants. The volume concludes with a herbicide “glossary” (consisting of structural diagrams) and index and a general subject index.—K.L.

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