Chemical Synthesis of Hormones, Pheromones and Other Bioregulators

Description: Many small molecules occur naturally as ‘messenger’ chemicals which regulate the behaviour and functions of microbes, plants, insects and animals. Examples include hormones, pheromones, phytoalexins, and antifeedants. These biofunctional molecules are of great interest to researchers as they help to increase our understanding of biological functions and they are useful in the development of new drugs. However, extracting them from nature can be expensive so there is great interest in devising methods of synthesizing them from simple starting materials in a laboratory.

Chemical Synthesis of Hormones, Pheromones and Other Bioregulators is an introduction to techniques and strategies for the synthesis of biofunctional small molecules. Topics include:

- biofunctional molecules and organic synthesis
- synthesis of phytohormones, phytoalexins and other biofunctional molecules of plant origin
- synthesis of insect bioregulators other than pheromones
- synthesis of pheromones
- synthesis of biofunctional molecules of microbial origin
- synthesis of marine bioregulators, medicinals and related compounds
- synthetic examination of incorrectly proposed structures of biomolecules
- conclusion science as a human endeavour

Drawing on a career of almost 50 years of researching and teaching this subject, Kenji Mori's Chemical Synthesis of Hormones, Pheromones and Other Bioregulators is a must–have textbook for students and researchers of organic synthesis and natural products, and a stimulating and inspiring account of a distinguished career in chemicals.

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