

CS Publications News

SPECIAL PUBLICATION No. 28

Recent Advances in the Chemistry of β -Lactam Antibiotics

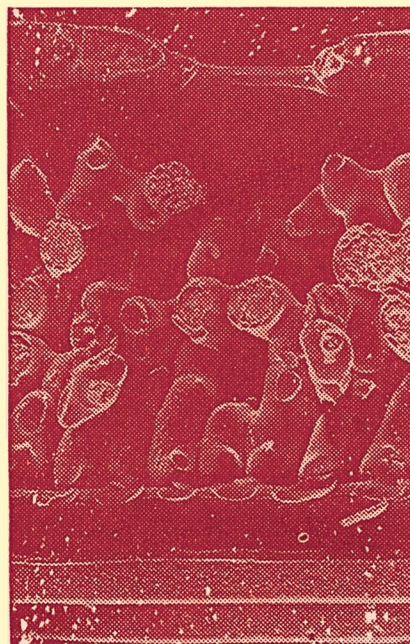
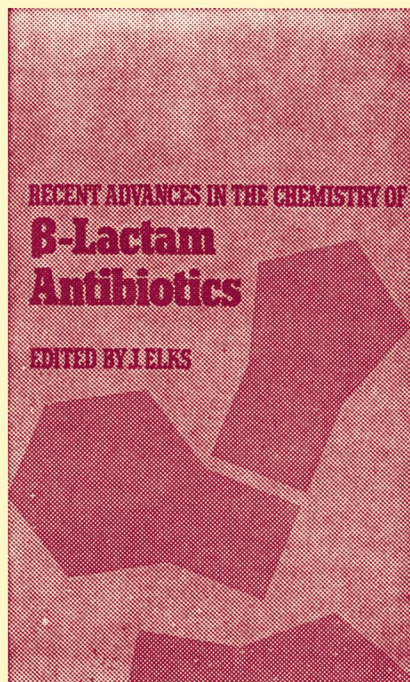
Edited by J. Elks

More than thirty years after the introduction of penicillin G into clinical practice, the β -lactams remain much the most widely used group of antibiotics.

Until a few years ago the chemistry of the β -lactam antibiotics was limited to changes on the periphery of the intact penam or cephem nucleus. Methods have now been developed for the cleavage of the thiazolidine ring of penicillins, modification or replacement of the residue attached to the β -lactam ring, and subsequent re-cyclisation to give a new penicillin, a cephalosporin, or a fused β -lactam system unknown in Nature. By such partially synthetic, as well as by new totally synthetic methods, a greatly increased range of structures is being produced, with the probability that some, at least, will possess valuable biological properties.

The Symposium on "Recent Advances in the Chemistry of β -Lactam Antibiotics" held in Cambridge in June 1976, reflected most of these lines of research and so provided a timely review of this rapidly unfolding topic. By the same token, this volume should provide some useful signposts to future developments.

Clothbound 314pp 8½" × 5½" £14.50 (C.S. Members £11.00)



SPECIAL PUBLICATION No. 29

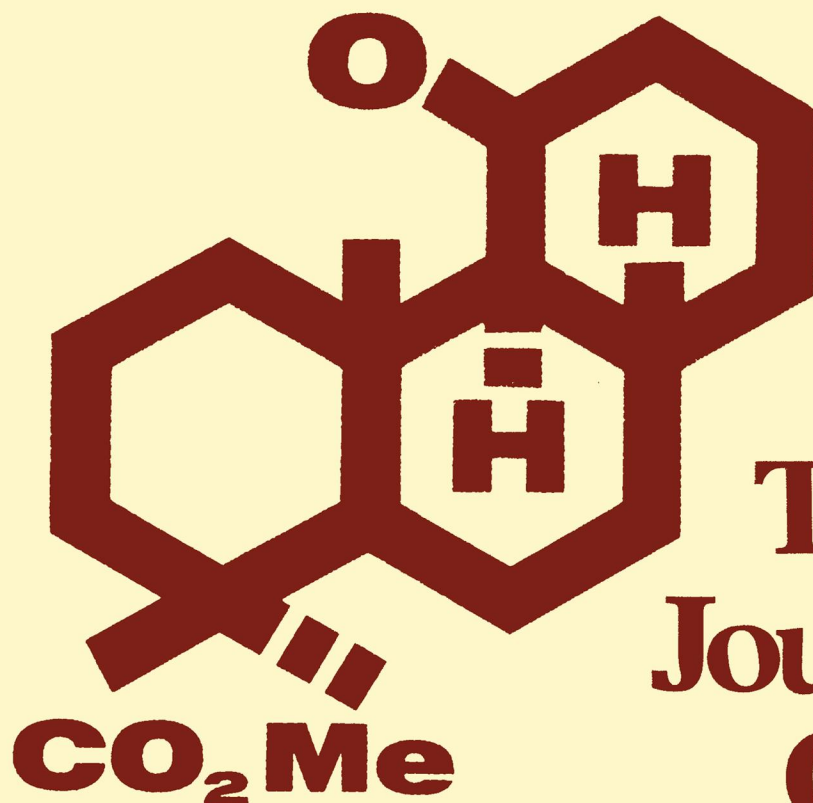
Herbicides and Fungicides Factors affecting their activity

Edited by N. R. McFARLANE, *Shell Research Ltd.*

A wider understanding of the factors affecting the biological activity of herbicides and fungicides provides complex challenges. This volume provides a historical and current perspective of the general areas, including future problems and opportunities, mode of action of some well-known fungicides and their use in practice, criteria affecting efficiency of penetration and translocation of some herbicides. It then goes on to deal with important current experimentation including the influence of adjuvants and humidity, the action of 2,4-dichlorophenoxyacetic acid, inorganic glasses for the slow release of fungicides and herbicides, and spiro lactone fungicides related to benzoquinones. The final papers cover theoretical aspects including partition coefficients and systemic activity and the concept of optimal lipophilicity.

Paperbound 156pp 8½" × 5½" £7.50 (C.S. Members £5.50)

Orders to: The Chemical Society, Distribution Centre, Blackhorse Road, Letchworth, Herts SG6 1HN



Reactions, natural products, mechanisms, theory and spectroscopy covered comprehensively in

The Journal of Organic Chemistry

Recognized by many organic chemists as the leading American journal in the field, this biweekly publication brings subscribers over 1,000 articles, notes and communications each year—over 4,000 pages including original contributions on fundamental researches in all branches of the theory and practice of organic chemistry. Improved procedures, accounts

of novel observations or compounds of special interest are also noted. Complete and mail the coupon NOW to join the thousands of organic chemists who find this journal vital in keeping current in the field.

The Journal of Organic Chemistry
American Chemical Society
 1155 Sixteenth Street, N.W.
 Washington, D.C. 20036

1978

Yes, I would like to receive THE JOURNAL OF ORGANIC CHEMISTRY at the one-year rate checked below:

	U.S.	Foreign and Canada
ACS Member*	<input type="checkbox"/> \$26.00	<input type="checkbox"/> \$36.00
Nonmember	<input type="checkbox"/> \$104.00	<input type="checkbox"/> \$114.00
Bill me <input type="checkbox"/>	Bill company <input type="checkbox"/>	Payment enclosed <input type="checkbox"/>

Air freight rates available on request.

Name _____

Street _____ Home
 Business

City _____ State _____ Zip _____

Journal subscriptions start in January '78.

Allow 60 days for your first copy to be mailed.

*NOTE: Subscriptions at ACS member rates are for personal use only.

AVAILABLE IN HARD COPY
OR MICROFICHE.