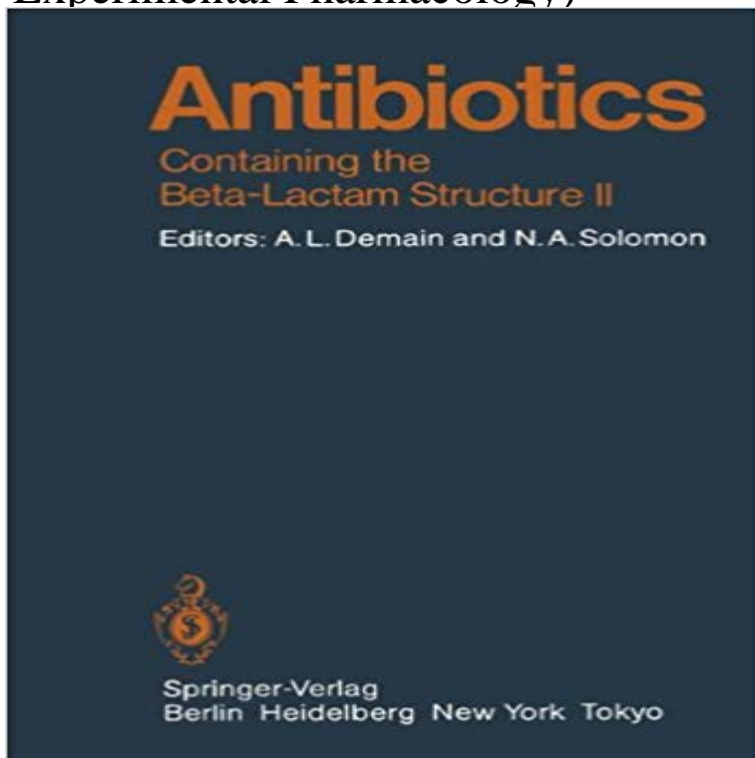


Antibiotics: Containing the Beta-Lactam Structure Part II (Handbook of Experimental Pharmacology)



It is quite amazing that the oldest group of medically useful antibiotics, the β -lactams, are still providing basic microbiologists, biochemists, and clinicians with surprises over 50 years after Flemings discovery of penicillin production by *Penicillium*. By the end of the 1950s, the future of the penicillins seemed doubtful as resistant strains of *Staphylococcus aureus* began to increase in hospital populations. However, the development of semisynthetic penicillins provided new structures with resistance to penicillinase and with broad-spectrum activity. In the 1960s, the discovery of cephalosporin C production by *Cephalosporium* and its conversion to valuable broad-spectrum antibiotics by semisynthetic means excited the world of chemotherapy. In the early 1970s, the 40-year-old notion that β -lactams were produced only by fungi was destroyed by the discovery of cephamycin production by *Streptomyces*. Again this basic discovery was exploited by the development of the semisynthetic cefoxitin, which has even broader activity than earlier β -lactams. Later in the 1970s came the discoveries of nocardicins from *Nocardia*, clavulanic acid from *Streptomyces*, and the carbapenems from *Streptomyces*. Now in the 1980s we learn that β -lactams are produced even by unicellular bacteria and that semisynthetic derivatives of these monobactams may find their way into medicine. Indeed, the future of the prolific β -lactam family seems brighter with each passing decade.

We've started our countdown to National Handbag Day on October 10, and that means we'll have special features for you every day, right up to the big event! Today, we're here to talk about the intersection of celebrity and accessories, and more specifically, how the two can become intertwined in public consciousness for years. The kinds of stars who carry a particular bag do a lot to shape the market's perception of it and the designer who created it, which is why so many brands give out free bags to stars now: they're hoping to create positive associations. In the cases you see below, though, things came along a little bit more naturally. You can't rush love, after all. Think of a bag-celeb duo we missed? Let us know in the comments!

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