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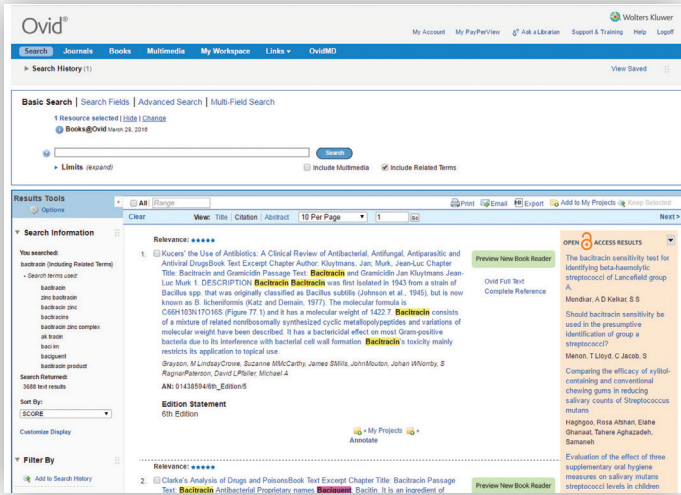
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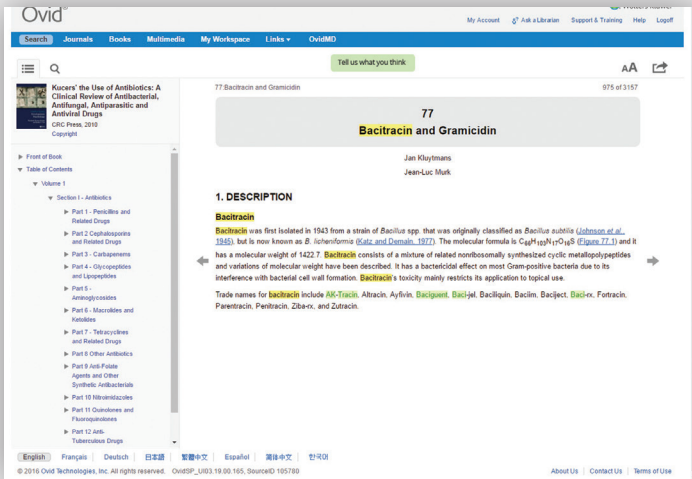
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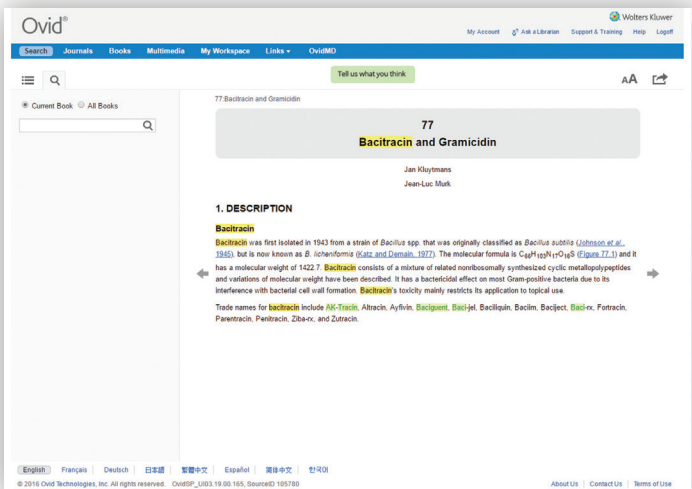
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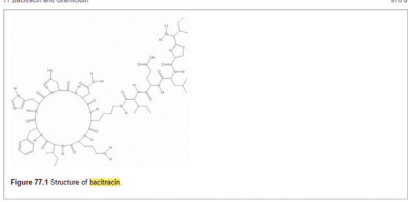
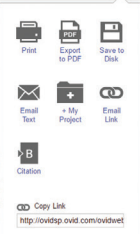


Figure 77.1 Structure of bacitracin

Gramicidin
The first clinically tested antibiotic was isolated from *B. brevis* by Dubos in 1939 and named tyrothricin (Hutchings and Dubos, 1940; Dubos and Hirschman, 1941). Later it was shown that tyrothricin consisted of two antibiotics, gramicidin and tyrocidine. Gramicidin was the more active drug of the two and consists of a group of nonribosomally synthesized peptide antibiotics (gramicidins A, B, C, D, and S). Gramicidin S is the most active component with the molecular formula $C_{47}H_{73}N_{13}O_{17}$ and a molecular weight of 1141.4 (Figure 77.2). It acts on the bacterial cell wall, but is thought to exhibit multiple antimicrobial activities. Gramicidin is active against Gram-positive cocci, but also appears to be active against Gram-negative bacilli. Its therapeutic use is limited to topical application because it induces hemolysis.

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77 Bacitracin and Gramicidin

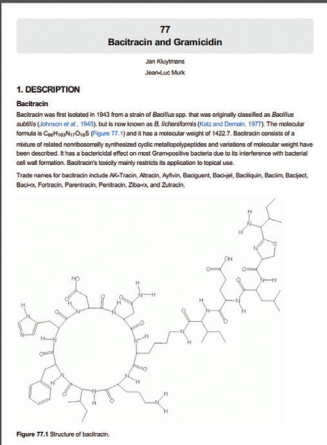
Jan Kuytman
Jean-Luc Muk

1. DESCRIPTION

Bacitracin
Bacitracin was first isolated in 1943 from a strain of *Bacillus* spp. that was originally classified as *Bacillus subtilis* (Johnson et al., 1943), but is now known as *B. licheniformis* (Dool and Doolan, 1977). The molecular formula is $C_{47}H_{73}N_{13}O_{17}$ (Figure 77.1) and it has a molecular weight of 1422.7. Bacitracin consists of a mixture of related nonribosomally synthesized cyclic heptadecapeptides and variations of molecular weight have been described. It has a bactericidal effect on most Gram-positive interference with bacterial cell wall formation. Bacitracin's toxicity mainly restricts its application to topical use. Trade names for bacitracin include Aloc-Tracin, Altracin, Aylvin, Bacigant, Bacipol, Bacilquin, Bacim, Fawitracin, Penitracin, Zibaver, and Zetracin.

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Part 8 Other Antibiotics Bacitracin and Gramicidin 1 / 9

77 Bacitracin and Gramicidin

Jan Kuytman
Jean-Luc Muk

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Figure 77.1 Structure of bacitracin.

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