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Special Issue: Antibacterial Targets for the 21st Century; Guest Editor: Timothy D.H. Bugg

Editorial: Antibacterial targets for the 21st century

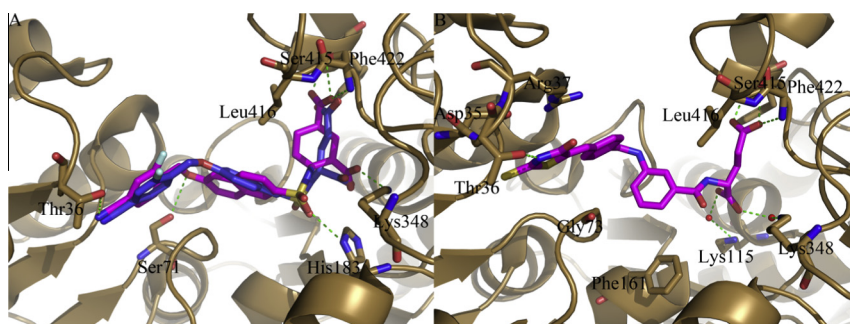
p 1

Timothy D.H. Bugg

Inhibitors of the peptidoglycan biosynthesis enzymes MurA-F

pp 2–15

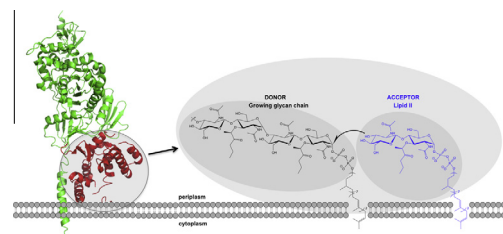
Martina Hrast, Izidor Sosič,
Roman Šink and Stanislav Gobec*



Prospects for novel inhibitors of peptidoglycan transglycosylases

pp 16–26

Nicola F. Galley, Amy M. O'Reilly and David I. Roper*



pp 27-38

[illegible]

pp 39–50

pp 51–59

Chemical structure of Ru(phen)₃(dppz)₂⁺

Antimicrobial activity

Scanning electron micrograph (SEM) of E. coli cells

3D model of DNA double helix with Ru(phen)₃(dppz)₂⁺ intercalated

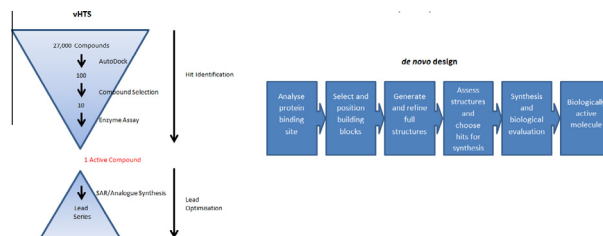
Structure of Ru(phen)₃(dppz)₂⁺ adapted from <https://www.researchgate.net/publication/312111111>

pp 60–68

The diagram illustrates the mechanism of Quorum Sensing Interference (QSI). It shows two cells: a **Sender cell** (pink) and a **Receiver cell** (yellow). In the sender cell, **Signal molecule biosynthesis** is shown. In the receiver cell, **Signal molecule reception/decoding** is shown. A **Signal molecule sequestration** step is indicated by a red circle between the cells. **QSI** (Quorum Sensing Interference) is shown as a blue T-bar inhibiting both the biosynthesis in the sender cell and the reception/decoding in the receiver cell.

Applications of structure-based design to antibacterial drug discovery**pp 69–76**

Ricky Cain, Sarah Narramore, Martin McPhillie, Katie Simmons and Colin W.G. Fishwick*

**Errata****Erratum to “Chemical biology of peptidoglycan acetylation and deacetylation”
[Bioorg. Chem. 54C (2014) 44–50]****p 77**

Patrick J. Moynihan, David Sychantha and Anthony J. Clarke*

Erratum to “The sentinel role of peptidoglycan recycling in the β -lactam resistance of the Gram-negative *Enterobacteriaceae* and *Pseudomonas aeruginosa*” [Bioorg. Chem. 56C (2014) 41–48]**p 78**

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