***eLife’s* transparent reporting form**

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**Sample-size estimation**

* You should state whether an appropriate sample size was computed when the study was being designed
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A dedicated section of the Materials and Methods (“Datta analysis”) provides all the relevant information.

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* You should report how often each experiment was performed
* You should include a definition of biological versus technical replication
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* High-throughput sequence data should be uploaded before submission, with a private link for reviewers provided (these are available from both GEO and ArrayExpress)

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All mass spectrometry were carried out in biological triplicates using peptidoglycan samples extracted from independent cultures grown from independent bacterial colonies.

All datasets analysed are available through the GlycoPOST repository (GPST000168) (Watanabe*, et al.*, 2021).This information is stated in the materials and methods section.

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* Statistical analysis methods should be described and justified
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All raw data and search outputs are provided through the GlycoPOST repository or as supplementary files.