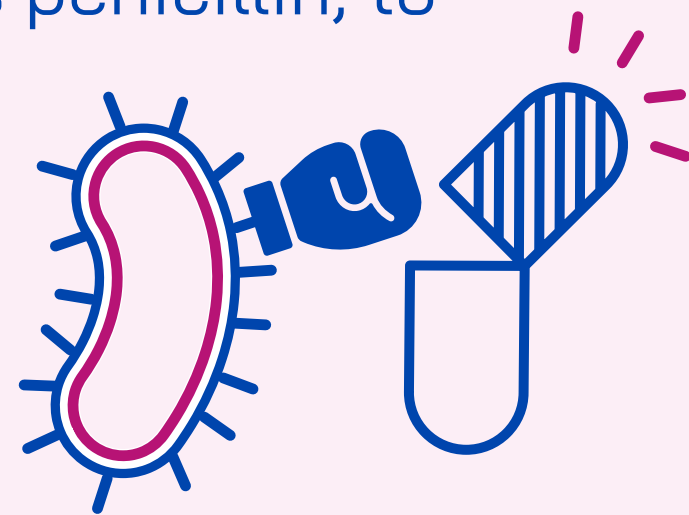


Optimising a new class of broad-spectrum cell-wall transpeptidase inhibitors

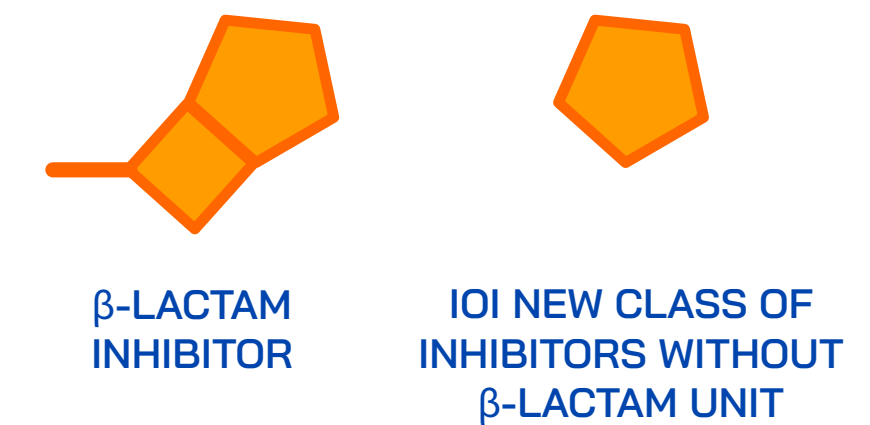
Patients need alternative strategies for treatments beyond β -lactam antibiotics, such as penicillin, to combat the rise in antibiotic resistance



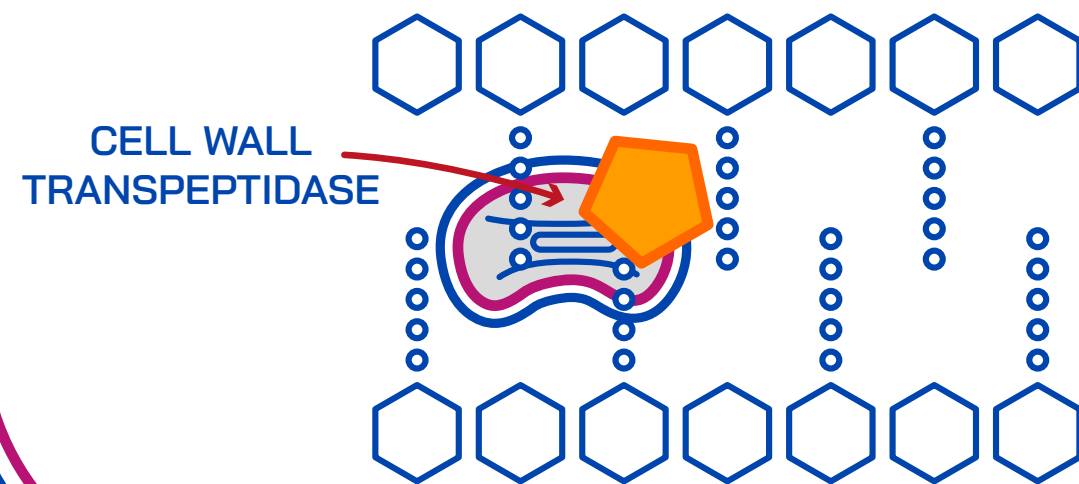
A major factor in antibiotic resistance is β -lactamases, bacterial enzymes which destroy β -lactam ring containing antibiotics and stop them working



The Ineos Oxford Institute is developing a new class of inhibitors that do not contain a β -lactam ring



The new inhibitors target enzymes called cell-wall transpeptidases that are crucial to bacterial survival



The inhibitors hijack a transport system in the bacteria to deliver the antibiotic and kill the target bacteria

PACE



Collaboration and funding from PACE will enable these inhibitors to be further optimised



If this project is successful, it will accelerate the development of a new treatment for multiple infections, including those resistant to current β -lactam antibiotics

