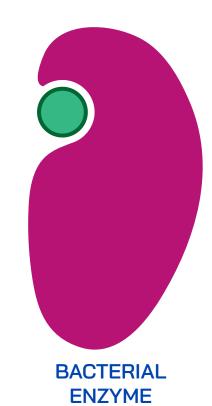


Developing a novel mode of action, bladder-targeted, small molecule, for oral therapy of urinary tract infections

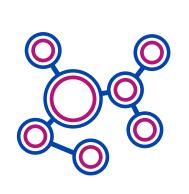


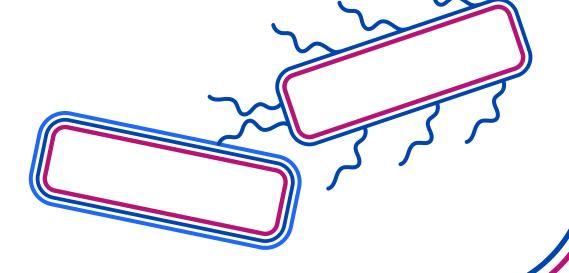
Oxford Drug Design has developed a novel approach by targeting the bacterial enzyme leucyl-tRNA synthetase

Bacteria require this enzyme to produce the proteins they need for survival



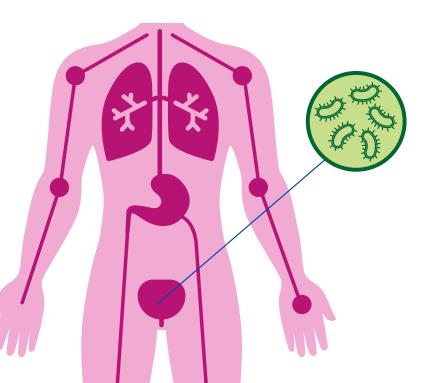
Oxford Drug Design has a proprietary library of small molecules that inhibit this enzyme, and are active against gram-negative pathogens





The leucyl-tRNA synthetase inhibitors work by a novel mechanism and have been shown to accumulate in the bladder

This means other healthy bacteria in the body may be spared and reduces the risk of further resistance developing



PACE (S)



PACE funding and support will allow the team to

- Optimise inhibitor activity against E. coli and Klebsiella pneumoniae
- Develop the molecules so they can be taken as an oral pill

Success will move Oxford Drug Design closer to its aim of developing a new oral antibiotic for urinary tract infections that maintains the natural gut microbiome

This could benefit patients with recurring UTIs and reduce the risk of resistance

