

Superbugs – what are they and why should we be worried?

lain Lamont Department of Biochemistry University of Otago





The plan -

- How have superbugs come about?
- Why should we be worried?
- What can be done?



Bacteria ...









Alexander Fleming – discoverer of penicillin





Antibiotic discovery ...





How do bacteria become resistant to antibiotics?





How worried should we be?

~ 70,000 people die each year due to infection by antibiotic-resistant bacteria

- Estimated to rise to about 10,000,000 per year by 2050s







So what can we do? Society -

- Use antibiotics wisely
- "Repurpose" antibiotics
- Invent more







So what can we do?

Individually -

- don't use antibiotics unnecessarily
- finish a course of antibiotics unless Dr advises otherwise







My research team

Pseudomonas aeruginosa, one of the most problematic superbugs

