

## Statement of participation

# Kathryn Wiest

has passed the free course including all mandatory tests for:

### Understanding antibiotic resistance

This free 24-hour course introduced the science behind the problem of antibiotic resistance.

**Issue date:** 4 May 2023



[www.open.edu/openlearn](http://www.open.edu/openlearn)

This statement does not imply the award of credit points nor the conferment of a University Qualification.  
This statement confirms that this free course and all mandatory tests were passed by the learner.

Please go to the course on OpenLearn for full details:

<https://www.open.edu/openlearn/science-maths-technology/understanding-antibiotic-resistance/content-section-overview>

COURSE CODE: UAR\_1



## Understanding antibiotic resistance

<https://www.open.edu/openlearn/science-maths-technology/understanding-antibiotic-resistance/content-section-overview>

### Course summary

Antibiotic resistance is a serious threat, compromising our ability to treat infections and increasing the risk of routine surgery. Resistant infections are increasing due to overuse of antibiotics and this has resulted in the emergence of 'superbugs' (bacteria resistant to multiple antibiotics). This free course, Understanding antibiotic resistance, provides the science background underlying antibiotic resistance. It will cover the following questions. What are antibiotics? Why do we need them? How do they work? What is antibiotic resistance? Why is it a problem? What can we do about it?

### Learning outcomes

By completing this course, the learner should be able to:

- understand what antibiotics are and how they work
- understand how bacteria become resistant to antibiotics
- appreciate the issues surrounding antibiotic resistance
- know about the challenges in developing new antibiotics
- know about alternative approaches to tackling infectious diseases.

### Completed study

The learner has completed the following:

#### Week 1

Introduction and guidance

A future without antibiotics?

#### Week 2

How do antibiotics work?

#### Week 3

How do bacteria become resistant to antibiotics?

#### Week 4

Why are so many bacteria resistant to antibiotics?

Compulsory badge quiz (score 98%)

#### Week 5

How antibiotic resistance has become such a big problem

#### Week 6

Restocking the antibiotic armoury

#### Week 7

Reducing antibiotic use

#### Week 8

Alternatives to antibiotics

Compulsory badge quiz (score 88%)