ANSTO interview resource description template

**Nuclear medicine will potentially revolutionise the way we treat many diseases.**

### About this interview

Watch this interview with Dr Maggie Aulsebrook as she discusses her work as a radio chemist who specialises in the development of new nuclear medicines to diagnose and treat disease.

It would be relevant for

* Biology students as part of studying the future directions of research into the treatment of non-infectious disease.
* Investigating Science students as part of studying the continuous cycle of science and technology and the impacts that large corporations have on scientific research

### Syllabus links

Investigating Science

* Module 7 –Technologies, IQ2, a continuous cycle
	+ Using examples, assessthe impact that developments in scientific theories, laws and models have had on the development of new technologies
* Module 8 – Science and Society, IQ3, the influence of economic, social and political forces have on a scientific research
	+ Using examples, analyse the impacts that governments and large corporations have on scientific research,

Biology

* Module 8 – Non Infectious Disease and Disorders, IQ3
	+ Investigate the treatment/management, and future directions for further research, of a non-infectious disease

Chemistry

* Module 8 – Applying chemical ideas, IQ3, Chemical synthesis and design
	+ evaluate the factors that need to be considered when designing a chemical synthesis process

### In the classroom

Possible follow up in the classroom could include further investigation into the role of nuclear imaging or nuclear pharmaceuticals

[National Institute of Biomedical Imaging and Bioengineering](https://www.nibib.nih.gov/science-education/science-topics/nuclear-medicine)

Dr Aulsebrook highlights the emerging field of targeted alpha therapy (also known as alpha immunotherapy). As a depth study, a student could investigate the use and potential of this treatment.

[Medical applications of radionuclides and targeted alpha therapy](https://ec.europa.eu/jrc/en/research-topic/medical-applications-radionuclides-and-targeted-alpha-therapy)

### Acknowledgements

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