Maximising robustness and reproducibility in research

There have been ongoing discussions regarding the lack of reproducibility of research results globally, and the need to maximise Australia's strengths in the reliability and reproducibility of research outcomes.

Whilst there are many reasons why research results may be difficult to reproduce, the introduction of a quality management system could assist with increasing the 'quality' of the research activities being undertaken and be helpful to the translation of research.

Additionally, the introduction of a quality management system:

- provides a means for assuring stakeholders of the competence and capability of research laboratories, the robustness of research activities and the integrity of data supporting research conclusions; and

- is a vehicle for establishing a high level of trust and confidence in research outputs with supporters of research work (such as collaborators and funding bodies) and provides assurance in the effective use of funding.

This course explores the practicalities of implementing a quality management system in research and thereby developing a process for maximising the robustness and reproducibility of research that best suits scientific and industry needs, without hindering or constraining the freedom and direction of research.

WHO SHOULD ATTEND?

This course would be valuable for researchers, research managers, stakeholders, regulators and funders of research.

Attendees will be engaged in an interactive learning environment and guided through a range of learning activities.
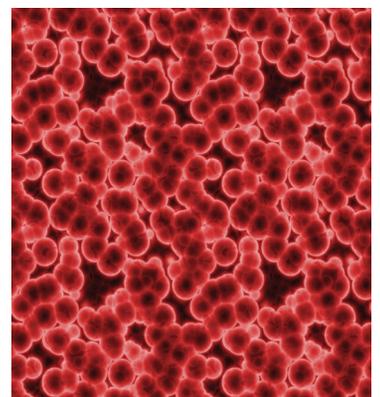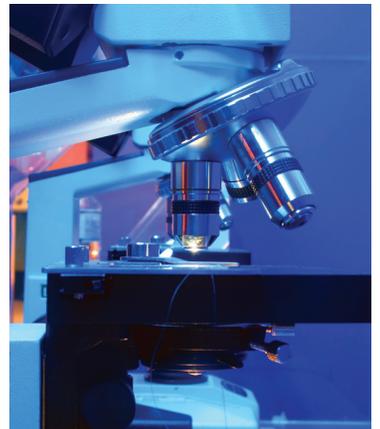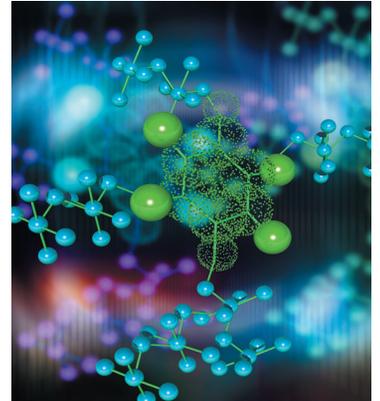
The course will focus on:

An overview of standards, guidelines and regulations

Quality concepts and objectives

A process approach which best suits scientific and business needs
Documentation management
Procedures
Forms and records
Quality Manual

Maximising robustness and reproducibility in research

People management

Protecting the integrity of the research
Defining responsibilities
Staff competence
Mentoring

External relationships

Purchasing
Subcontracting
Service to the customer / stakeholder / regulator

Accommodation and the research environment

Enabling the proper conduct of research

Procedures and processes

Sample handling and disposal
Equipment management
Calibration and traceability
Assuring the quality of research results

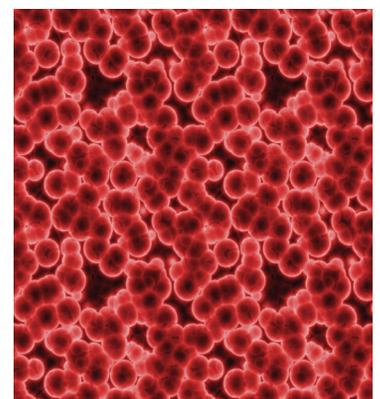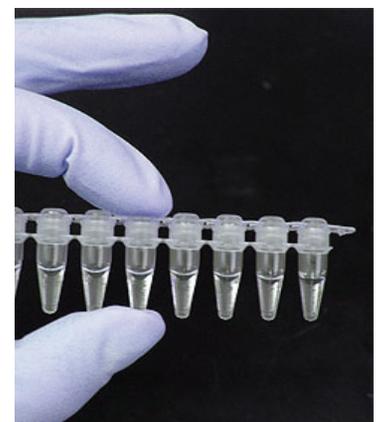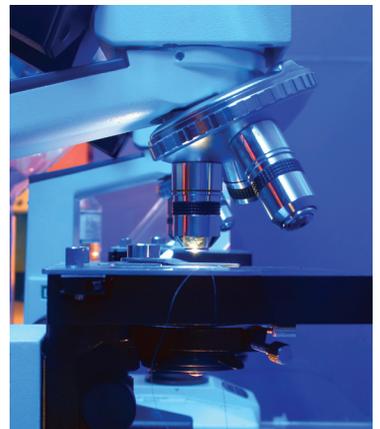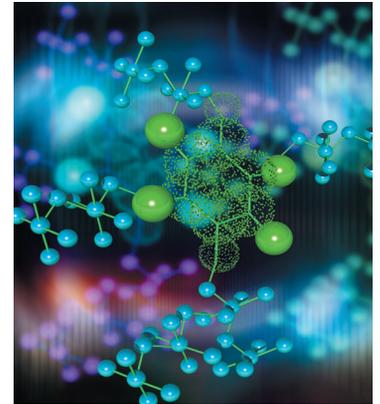### Outcomes

Records
Reports

Management system maintenance

Document control
Internal Audits
Controlling nonconformities and reducing risk
Management reviews

Any enquiries regarding this course should be directed to Jenny Pyke, R&D Program Advisor and Accreditation Manager by email to Jenny.Pyke@nata.com.au or phone (03) 9274 8200

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