



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

School of Environmental and Life Sciences

Dr Hannah Power, Earth Sciences

School Research Strengths

Under the leadership of esteemed Organic and Medicinal Chemist Professor Adam McCluskey, the School of Environmental and Life Sciences offers a broad range of science-based disciplines, several of which are highly ranked in the QS World University Rankings including geography (Top 100) and environmental studies (Top 150). Additionally, biochemistry and cell biology are ranked well above world standards by Excellence in Research for Australia (ERA).

The school promotes collaborative research through its involvement with its key Priority Research Centres (PRCs). The PRC for Chemical Biology and Clinical Pharmacology seeks to identify crucial biological targets and pioneer the rapid development of novel drugs for the fight against disease, with Director

Professor Peter Lewis (Biological Sciences) and prominent researcher Professor Adam McCluskey (Chemistry) both significant research contributors.

Professor Erica Wanless is a Principal Researcher within the PRC for Advanced Particle Processing and Transport which seeks to develop faster and more efficient separation technologies, and technologies for the manufacture, storage, and transport of particles, predominantly in mineral resources.

The PRC for Reproductive Science focuses on successful human and animal reproduction, including the development of diagnostics and therapeutics, with Professor Brett Nixon (Biological Sciences) a significant contributor to this important research team.

**TOP
250**

universities in the world¹

14

UON disciplines are ranked in top 200 in the world²



Good Universities Guide³

**TOP
8**

in Australia for research 'well above world standard'⁴

**OVER
90%**

of our research is 'at' or 'above world standard'⁴

**TOP
10**

in Australia for research income⁵

Profile of Professors



Professor Adam McCluskey **Medicinal and Organic Chemistry**

h-index: 36
citations: 4373

Professor Adam McCluskey is a highly respected Medicinal and Organic Chemist. His significant involvement in a number of collaborative research groups has resulted in four key drug discovery areas being pursued: epilepsy, kidney disease, cancer, and anti-viral.



Associate Professor Silvia Frisia **Carbonate Mineralogy & Geochemistry**

h-index: 33
citations: 3956

Associate Professor Silvia Frisia is a leading Earth Scientist and a keen storyteller. With potential to inform the climate change agenda, her observation and technical skills have recently taken her deep within a cave in Italy to help extract the oldest Neanderthal DNA on record.



Professor Brett Nixon **Biological Sciences**

h-index: 31
citations: 3073

What do adult humans, wild rabbits, platypus and Australian saltwater crocodiles have in common? Professor Brett Nixon studies all four seemingly disparate populations in his research, shedding light on the surprising connections between male factor infertility, contraception and the conservation of endangered animals.



Professor Erica Wanless **Fundamental and Applied Colloid and Surface Chemistry**

h-index: 29
citations: 3248

Professor Erica Wanless is an active researcher in both fundamental and applied colloid and surface chemistry. Applying her research has assisted in resolving various industrial research problems including projects concerned with mining emulsion explosives, water-based paints, powder coatings, plastic solar cells, mineral flotation, emulsions & foams.

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the next generation of researchers.

For more information:
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