



# BIOCIDE TOOLBOX NEWSLETTER

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## DESIGNING NEW BIOCIDES



**DIST PROF MARGARET BRIMBLE**  
ORGANIC SYNTHESIS - CHEMISTRY LEADER

Margaret's research focuses on the synthesis of bioactive natural products and the synthesis of peptides, glycopeptides, and peptide mimetics as potential therapeutic agents.

In Biocide ToolBox, multi award winner Margaret will be leading the organic synthesis team to synthesise the potential biocide candidates.

### PRINCIPLE

**Bacterial Membrane Targeting Group**



**Biodegradable Main Chain**



**Toxic Side Chain**



### Key Parameters:

Solubility  
Colour  
Thermal Stability  
Molecular weight  
Molecular Shape  
Scalable

As an entrepreneurial and inventive young scientist in the applied field of Polymers, Dr Jianyong Jin's main research focus is to discover new functional polymeric materials through advanced polymer architectures design and versatile organic chemistry approaches. In Biocide ToolBox, Jackie will innovatively ally biocides and polymer chemistry.



**DR JIANYONG "JACKIE" JIN**  
POLYMER CHEMISTRY

## SCHOOL OF CHEMICAL SCIENCES CENTENARY



**PROF KEVIN SMITH - HEAD OF DEPARTMENT**  
SCHOOL OF CHEMICAL SCIENCES

This March, the University of Auckland's School of Chemical Sciences was celebrating its 100th anniversary. The festivities featured a Research Showcase held at Auckland War Memorial Museum, a series of talks (including a lecture from Nobel Laureate Prof Robert

Grubbs) and a special gala dinner. The School is also proud of the last year's spectacular achievements, including the MBIE grant for Biocide ToolBox, which was present and supporting the events alongside industry heavyweights such as Fonterra.

### BTB TEAM AT THE CENTENARY SHOWCASE



BTB supported by MBIE



**MINISTRY OF BUSINESS,  
INNOVATION & EMPLOYMENT**  
HIKINA WHAKATUTUKI

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