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MGI Tech partners with Australian Research Council Training Centre to lead innovation in AMR solutions

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To empower rapid detection, surveillance, and monitoring of antimicrobial resistance



MGI Australia, subsidiary of Chinese biotech company MGI Tech Co., has announced its strategic partnership with University of Queensland (UQ) led Centre for Environmental and Agricultural Solutions to Antimicrobial Resistance (CEAStAR) funded by Australian Research Council.

This pioneering initiative aims to combat the global crisis of antimicrobial-resistant infections affecting human health, agriculture, and the environment. The World Health Organization (WHO) lists antimicrobial resistance (AMR) among the top 10 threats for global health.

Headquartered at UQ's Institute for Molecular Bioscience (IMB), CEAStAR focuses on developing innovative approaches to tackle antimicrobial resistance. Led by Centre Director Professor Mark Blaskovich, CEAStAR emphasises the urgent need for alternatives to antibiotics in agriculture and veterinary medicine, crucially addressing the misuse and overuse of antibiotics globally.

MGI's proprietary DNBSEQ technology, renowned for its high accuracy and efficiency in genetic sequencing, plays a pivotal role in CEAStAR's efforts. This technology, integrated with MGI's automated laboratory systems, enables portable, on-site sequencing solutions. These solutions empower rapid detection, surveillance, and monitoring of antimicrobial resistance in diverse environmental settings, including wastewater and agricultural environments.

Image caption- (L-R)- Professor Mark Blaskovich, CEAStAR Centre Director; Professor Darren Trott, CEAStAR Centre Deputy Director; and Dr Bicheng Yang, Director of MGI Australia