

## Singapore introduces research initiatives to revolutionise diagnostic capabilities

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**These studies will aid the further development of nanosensor technology for the detection of foodborne bacteria and gut health**



Three research teams from the Singapore-MIT Alliance for Research and Technology (SMART) – MIT's research enterprise in Singapore – alongside their partner institutions, have been awarded Intra-CREATE grants by the National Research Foundation (NRF) Singapore.

The grants are part of the NRF's initiative to bring together researchers from institutions under the Campus for Research Excellence and Technological Enterprise (CREATE) in order to achieve greater impact from collaborative research efforts.

The first two grants have been awarded to researchers from SMART's Disruptive & Sustainable Technologies for Agricultural Precision (DiSTAP) interdisciplinary research group (IRG) to develop food packaging capable of detecting foodborne bacteria, and a rapid test kit to rapidly assess gut health from blood serum and stool samples.

The third grant is jointly awarded to a joint research team from SMART's Antimicrobial Resistance (AMR) and Critical Analytics for Manufacturing Personalized-Medicine (CAMP) IRGs, for the development of a novel diagnostic technique capable of rapidly detecting low-abundance pathogens in biological samples.