

SP care

02

Novel Diagnostic for Prostate Cancer

Prostate cancer is a disease where cancer cells form in the prostate tissue. Due to modern unhealthy lifestyle, prostate cancer cases went up by more than 50% in the last 10 years. The incidence rate of the disease is alarming as 1 in 6 men over 65 years old is expected to be diagnosed with this.

Current serum-based diagnostic test provided high false positive, resulting in unnecessary biopsies and surgeries to remove the prostate. Dr Quek Sue Ing, a research scientist from Centre for Biomedical & Life Sciences (CBLs), was recently awarded a \$153,000 TOTE-SIR funding for a two-year project to develop a new point-of-care diagnostics for prostate cancer. This project will benefit from clinical expertise from an urologist at Singapore General Hospital.

False Positive

A test result which wrongly indicates that a particular condition is present.

Biopsy

An examination of tissue removed from a living body to discover the



Dr Quek plans to adapt the GO-based fluorescence quenching assay, a patented technology by Dr Ken Lee (also from CBLs) into her new diagnostic kit. This method only requires urine samples instead of the current need of blood samples.

The research team for the TOTE-SIR grant. From Left: with Dr Lee Lui Shiong (SGH), Dr Quek Sue Ing (CBLs), Dr Ken Lee (CBLs), Mr Joshua Teo (CBLs).

Healthy Living Silver Life

SP Care was recently invited to showcase our innovations at the Healthy Living Silver Life event organised by Changi-Simei Active Aging Committee (AAC) on 4th July 2015.

On display was SOFT bread, developed by Food Innovation and Resource Centre (FIRC) for Manna SOFTfood. The bread was very well received by the Silver Age community and many enquires were made on purchasing it. Members of SP care also engaged the public to understand their needs.

“This bread is so soft and tasted very good. I like the coffee taste. Can I have one more?”
– Simei resident



Infused soft bread for tasting

Meeting with management representatives from the City for All Ages, Ministry of Health

SP Care met up with the management representatives from Ministry of Health's Ageing Planning Office and Smart Nation Programme Office. Dr Vanessa Yong, Deputy Director from the Successful Ageing Branch shared the various on-going initiatives for the City for All Ages project.

They expressed great interest in the projects being done at Singapore Polytechnic, particularly the Rico Dog and Intellisense Bed.

The Intellisense Bed is a project led by Dr Jaichandar K S at School of Electrical Engineering. This bed can automatically adjust the bed temperature so that it keeps the bed cool and reduce sweating. Built into the bed is also a detection system to alert caregivers if the occupant fell off the bed.



Dr Vanessa Yong checking out the Intellisense Bed

Give us a feedback at
spcare@sp.edu.sg