Ang Oing

Men aged 30 to 40 are needed for Singapore's quest to map the DNA of 100,000 Singaporeans as part of research to find new ways of predicting and preventing diseases here and in Asia.

Making this call on Friday after the official launch of the study, its lead investigator, Professor John Chambers of Nanyang Technological University's (NTU) Lee Kong Chian School of Medicine (LKCMedicine), said he has observed that working adults below 40, particularly men, find it difficult to make time for the study. It involves a check-up that lasts an average of about five hours.

When completed, the SG100K study will create one of the Republic's biggest research data sets, which will yield insights over the next three decades into the genetic basis for diseases in Singaporeans.

Since recruitment for the study began in January, nearly 20,000 people have signed up, said Prof Chambers, who is also chief scientific officer at Precision Health Research, Singa-

Another 50,000 participants have been drawn from four existing cohort studies under LKCMedicine, National University of Singapore's Saw Swee Hock School of Public Health. the Singapore Eye Research Institute, the Singapore National Eve Centre and the National Heart Centre Singapore.

Prof Chambers said: "So, for this work to be relevant to evervone in Singapore, it is very important that we reach out and include all segments of Singapore society - the rich, the poor, the young, the old, men and women and also people of different social and cultural backgrounds."

Over the next three years, researchers will analyse the whole

Institutions to recruit 30,000 people over next 2 years

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genomes of 100,000 Singaporeans aged 30 to 84, and other health data, to understand the social, environmental, lifestyle and genetic factors associated with diseases prevalent in Singapore and Asia.

Most knowledge of human health and diseases stems from the West, and special features of the Asian genome, lifestyle, environmental issues and predisposition to diseases are not entirely clear, said NTU's senior vice-president of health and life sciences and LKCMedicine's dean Joseph Sung.

With Malays and Indians comprising 40 per cent of participants. the project is slated to become one of Asia's leading reference genome databases because Singapore's ethnic diversity captures more than 80 per cent of Asia's diversity.

Over the next two years, the inabout 30,000 people, NTU said in a statement. Participants will go collecting blood samples, measuring blood pressure, and collecting information on physical fitness, lung function, body composition, skeletal health and cognitive per-



LKCMedicine research assistant Halimah Ibrahim taking a blood sample from Health Minister Ong Ye Kung for the SG100K study, ST PHOTO: KEVIN LIM

formance, as well as glucose and ethnic study will enable and turbocholesterol levels.

reans and permanent residents of This will enable clinicians to cusall ethnicities, aged 30 to 84, in-tomise medication and treatment after the check-up.

teered are Health Minister Ong Ye healthcare. for a health check-up that involves Kung and Senior Parliamentary "Hence, for us to fully benefit samples taken on Friday.

said knowledge from the multi- healthcare financing policies, leg-

charge the development of preci-The study is open to Singapo- sion medicine in Singapore.

cluding people with pre-existing according to the genetic make-up conditions. Each participant will of patients and identify those at receive a \$50 token of appreciation higher risk of developing diseases. he said.

SG100K participants will be At the same time, the profound monitored for long-term health and potentially revolutionary imoutcomes through a combination plications of precision medicine of approaches, including electron- mean that Singapore will need to ic medical records, disease regis- take action now, he added, citing stitutions will work to recruit tries and invitations for follow-up. the need to make preventive care Among those who have volun- accessible to all and finance

> Secretary for Health Rahayu Mah- from precision medicine, much zam, who had their blood and skin work needs to be done in clinical development, ascertainment of Speaking at the launch, Mr Ong cost and medical effectiveness,

Study finds he is at risk of hip issues, high cholesterol

Since getting his first bone scan in August as part of a national study to map the DNA of 100,000 Singaporeans, Mr J.K. Saravana, 41, has made it a habit to clock 21/2 hours of exercise daily after learning that he was at risk of hip issues and high cholesterol.

He was speaking on the sidelines of the official launch of the SG100K study at Nanyang Technological University's (NTU) Lee Kong Chian School of Medicine (LKCMedicine) on Friday.

Mr Saravana and his wife are among nearly 70,000 Singaporeans so far who have had their health screened as part of the study's quest to identify factors associated with diseases prevalent in Singapore, such as diabetes and cancer.

Since receiving his health report, the media business chairman now wakes up at 6am to do voga, cycles 5km to 10km every morning, eats lighter meals, and has since lost about 5kg over two months.

"As I have a daughter, I hope my data will benefit her, generations to come and my family as well," said Mr Sarayana.

Some, like Madam Norhayati Sukaimi, 55, have taken the national study as an opportunity to get a free health assessment.



Mr J.K. Saravana getting his hand grip strenath recorded at the launch of the SG100K study on Friday. ST PHOTO: KEVIN LIM

30 to 84, including those with pre-existing conditions, can take part in the study.

Blood and tissue samples are collected from participants, and other data, such as lung function, cognitive performance and physical health, is recorded.

Participants will be given a detailed health report at no charge, and they can use it for discussion sciences and dean of LKCMediwith their doctors.

Said Madam Norhavati: "Because I have never been to a doctor for a full check-up, this was my opportunity to know about myself and what is actually happening in my body."

cholesterol, the housewife, whose mother died of a heart at-Singaporeans and permanent tack in 2004, has cut down on

residents of all ethnicities, aged oily and fatty foods, as well as stopped snacking after midnight.

The SGIOOK study comes as Singapore's ageing population has led to an increasing number of people with long-term health problems such as diabetes, cardiovascular disease and cancer amid rising healthcare costs.

At the launch, NTU's senior vice-president of health and life cine, Professor Joseph Sung, said: "The potential benefits (of the study) include better tools for prediction and prevention of chronic diseases, pre-emptive measures to avoid complications and so on. This is in line with the Upon learning that she has high Healthier SG strategy, which places a strong emphasis on proactive and preventive care."

islation and determining what is siderations. We will need a great also the patients." encouraged, allowed and pro-deal of study, consultation and enscribed.

clinical, economic and moral con-bodies, bioethicists, the public and

gagement with policymakers, phy-"And these issues will cut across sicians, economists, regulatory

Those keen to sign up can visit https://www.ntu.edu.sg/helios/

aging@sph.com.sg