

A research project aiming to develop the worldwide "N-NOSE"
nematode cancer test started.

**-HIROTSU BIO SCIENCE INC. and Queensland University of Technology
Begin Collaborative Clinical Research-**

HIROTSU BIO SCIENCE INC. (Tokyo, Japan, CEO Takaaki Hirotsu) and Queensland University of Technology (QUT) (Brisbane, Australia) have launched a joint research project on cancer screening using nematodes called "N-NOSE" with the support of the Queensland Government in Australia. HIROTSU BIO SCIENCE INC. focuses on developing tests for prostate cancer, colon cancer, lung cancer, and breast cancer, for which they plan to collect the urine samples from residents of Australia for clinical trials.

One of the objectives of this clinical study is to examine how the difference of lifestyles (dietary habits, environment, etc.) affect nematodes behaviors.

The results of the clinical trial are planned to be reported around April.

The Queensland Government has adopted the "Queensland Biomedical 10-Year Roadmap and Action Plan" and has made great progress, especially in the field of bioscience.

N-NOSE was recommended as a noteworthy technology of this plan, which led to a collaborative research agreement with QUT. N-NOSE is a unique biological diagnostic technology (HIROTSU BIO SCIENCE's monopoly technology) to screen for the presence or absence of cancer at a low cost, using a single drop of urine and the nematodes' astonishing olfactory ability. After clinical trials, marketing of commercialization will be conducted in Asia, Oceania, North America, and Europe. Practical application is scheduled for January 2020.

■ Queensland University of Technology (QUT)

QUT is one of the fastest-growing research universities and a major university in Australia. The university's motto is "A University For The Real World", and their courses are in high demand, and their degrees are internationally appreciated. This university's graduates are active in various fields. They established the world's first Creative Industries Faculty, and made significant investments in collaborative learning and interdisciplinary research environments.

■ Institute of Health and Biomedical Innovation (IHBI)

IHBI is a joint research institute based on QUT that provides state-of-the-art medical and health research solutions.

The purpose and significance of nematode cancer examination

Cancer has been the leading cause of death among Japanese people since 1981. One in two Japanese people have experienced cancer, and one in three die from cancer. Although the importance of early detection of cancer is reported, the cancer screening examination rate is low. The reasons of this are the associated pain, time required and high cost of traditional examinations. N-NOSE, which can test for cancer inexpensively, non-invasively, and with high sensitivity, is expected to be put into practical use as a primary cancer test.