

OUR IMPACT

SelectMdx mRNA expression of HOXC6 and DLX1 to Before Movember initiated GAP1, there was an enormous amount of duplication of effort distinguish low vs across different laboratories around the world. Movember brought people together, got high-risk of prostate researchers talking, and funded teams who now integrate their research projects. cancer to aid biopsy decision We're now seeing results - with millions of dollars saved, PUR many years of unproductive research made more efficient, Risk signature of 36 genes for disease and new tests being developed faster. progression with men Market on Active Surveillance epiCaPture TRIFicTM DNA methylation panel (lab only) OCProDx to determinue disease agressivity to determine whethe Guidance a man's cancer is (lab only) ProCUrE Svstem Stem Cel likely to spread DNA mehtylation Technology panel with a focus on positive Clinical predictive value Validation <u>__</u>@' Analytic Validation **Patents** Telo-PC ™ and 4 more in 🚞 🧢 🛛 Biomarker based on development 3D analysis of chromosomal structural changes **E7** + Publications in scientific journals **Biotech** attracted additional **Companies** formed **C** Lab Assavs raised by for prostate cancer Movember and biomarker research invested in GAP **Z** Diagnostic since 2011 **O** Tests in development

STUDY HIGHLIGHTS

Study Highlight 1

Cel

PROSTATE URINE RISK (PUR) TEST

As part of the international GAP1 Urine biomarker consortium working across the UK, US, Canada and Europe, researchers at the University of East Anglia UK measured genetic components (called RNA) in 535 urine samples from men with suspected prostate cancer.

The **PUR** test effectively classified men based on personal disease risk and was published in BJU International *

After a competitive application process in early 2019, the team received £270k from Movember to validate the PUR test in a larger prospective sample of men.

This trial is designed to generate the critical evidence necessary for regulatory approval of the PUR test and population level adoption.

If successful, many unnecessary and invasive prostate biopsy procedures will be avoided.

* https://onlinelibrary.wiley.com/doi/10.1111/bju.14811





Study Highlight 2 TUMOUR-SECRETED EXOSOMES

Prostate cancer cells shed microscopic vesicles, called exosomes, that closely resemble properties of the tumor.

These cancer-specific exosomes, which can be found in blood and urine samples, contain important disease information like the aggressiveness of a man's cancer.

The GAP1 Exosomes Team at the Erasmus MC Netherland tested and developed new methods to isolate and examine the exosomes, one of which has now become a commercially available detection assay called TRIFicTM.

As a result of the team coming together to collaborate, researchers can now use sample repositories (biobanks) to validate and assess new biomarkers for prostate cancer.

A GAP1 Researcher in the Netherlands recently received a €2.3 million investment from the EU Commission *Horizon 2020* program to launch **proEVLifeCycle**, a multidisciplinary research and training network to accelerate development of prostate cancer exosomes biomarkers and train a new generation of prostate cancer researchers in cutting-edge new techniques. Study Highlight 3

PATIENT DERIVED XENOGRAFTS (PDXs)

PDXs are valuable experimental models that allow scientists to study a tumor's reponse to treatment.

At the start of GAP1, only a handful of thoroughly characterized prostate cancer PDXs existed worldwide. The GAP1 team characterized 98 different PDXs and created an additional 19 new PDX models. These are now available to understand high-risk prostate cancer types and test whether multiple drug combinations are likely to benefit patients more than giving each drug on its own.

This will accelerate the availability of new therapies and increase clinicians' ability to personalise patient treatment.

https://onlinelibrary.wiley.com/doi/abs/10.1002/pros.23701

THANK YOU

The GAP1 program was funded from the generosity of the Movember community Movember will continue to work closely with GAP1 Researchers to progress promising biomarkers towards clinical utility and patient benefit

