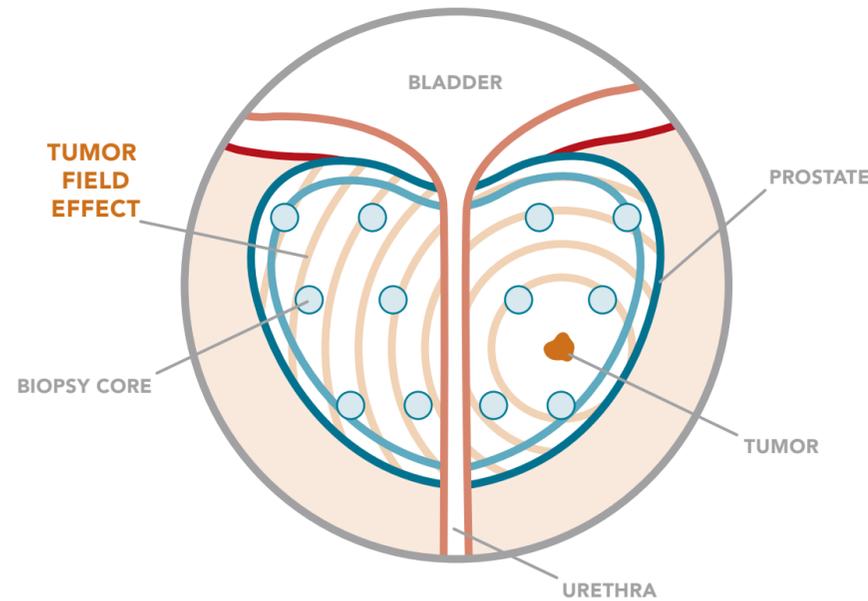


## How does PCMT work?

With 85-percent sensitivity, PCMT detects the presence of malignant cells in normal-appearing tissue via a tumor field effect. Studies have indicated the field effect for PCMT is gland-wide. Detect undiagnosed prostate cancer early.



The cancerization field associated with mitochondrial deletions provides a distinct molecular signature that mtGenomic assessment can detect. Though conventional histology of a biopsy sample might not display evidence of malignancy, if the tissue comes from an area that is within the cancerization field, disease onset will be detectable via this signature. Coupling conventional biopsy methodology with mtGenomic assessment to detect this cancerization field provides vital clinical information.

- Parr and Martin: Mitochondrial and nuclear genomics and the emergence of personalized medicine. Human Genomics 2012 6:3.

## Scientific publications on PCMT

Parr and Martin: Mitochondrial and nuclear genomics and the emergence of personalized medicine. Human Genomics 2012 6:3.

Kent Froberg\*, Laurence Klotz, Kerry Robinson, Jennifer Creed, Brian Reguly, Cortney Powell, Daniel Klein, Andrea Maggiah, Roy Wittock, Ryan Parr. Large-scale mitochondrial genome deletion as an aid for negative prostate biopsy uncertainty. Poster presented as a part of the American Urological Association Annual Meeting, Washington, D.C., May 14-19, 2011. \*Abstract published in The Journal of Urology, Vol. 185 No. 4S, e 764, Supplement, May 2011.

Ryan Parr, Jennifer Creed, Brian Reguly, Cortney Powell, Roy Wittock, Daniel Klein, Andrea Maggiah, Kerry Robinson. \* Large-scale mitochondrial genome deletion as an aid for negative prostate biopsy uncertainty. Poster presented as part of the Society of Urologic Oncology Annual Meeting, Bethesda, MD, Dec. 8-10, 2010.

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**Learn more about the Prostate Core Mitomic Test**  
Visit [mitomicsinc.com](http://mitomicsinc.com) or call 888.763.2644

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John Mills\*, Luis Martin, François Guimont, Brian Reguly, Andrew Harbottle, John Pedersen, Jennifer Creed, Ryan Parr. Large-Scale 3.4kb Mitochondrial Genome Deletion is Significantly Associated with a Prostate Cancer Field Effect. \*Abstract accepted as part of the American Urological Association Annual Meeting, San Diego, CA, May 4-8, 2013.



# Look beyond the core.

Enhance prostate biopsy results for better patient management.

False negative results are common during initial and follow-up biopsy procedures. You're forced to manage false-negative patients in the same manner as those who are negative. What if you could determine the difference between these patients?

Now you can. With the Prostate Core Mitomic Test™ (PCMT™), a molecular test ordered with prostate biopsy pathology, you can confidently stratify and better manage patients.



Prostate Core Mitomic Test or one or more of its components was developed and its performance characteristics determined by Mitomics. It has not been approved by the Food and Drug Administration (FDA). Mitomics has determined that such approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. Mitomics is regulated under the Clinical Laboratory Improvement Act (CLIA) of 1988 as qualified to perform high-complexity clinical testing.

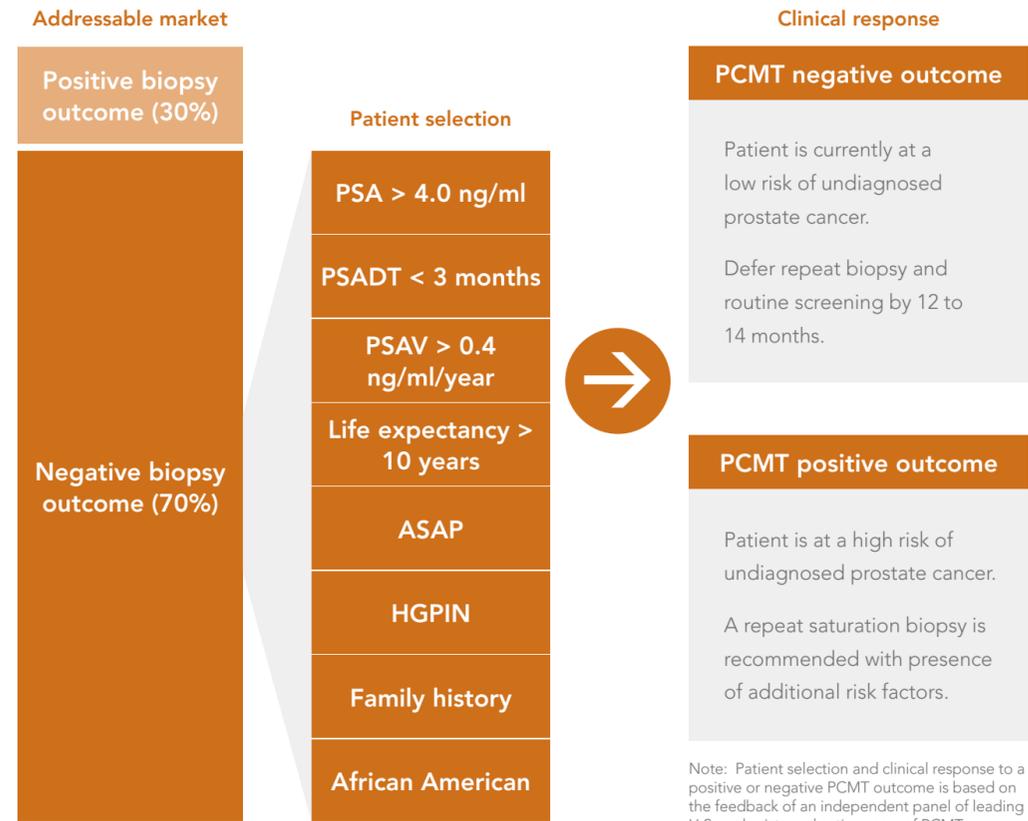
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CLIA #06D2020292  
NPI# 1528364056

## What is PCMT?

PCMT identifies a large-scale deletion in mitochondrial DNA (mtDNA) that indicates cellular change associated with undiagnosed prostate cancer. By using biopsy tissue samples that have already been collected and stored at the lab, PCMT precludes the need for additional office visits or surgeries. You can order PCMT as a reflex test when you submit a biopsy for evaluation or after the biopsy results are available.

## How do you use PCMT?



## PCMT outperforms competitors

Because mtDNA has an extended field effect compared to nuclear DNA, PCMT can be used for all negative biopsy patients and delivers the highest sensitivity and negative predictive value of all similar tests.

|                           | PCMT  |
|---------------------------|---|
| Sensitivity               | 85%   |
| Negative predictive value | 92%   |
| Field effect extent       | Entire prostate   |
| Clinical utility          | All negative biopsies; requires only 20 microns of tissue |

## Gain an advantage in the fight against prostate cancer

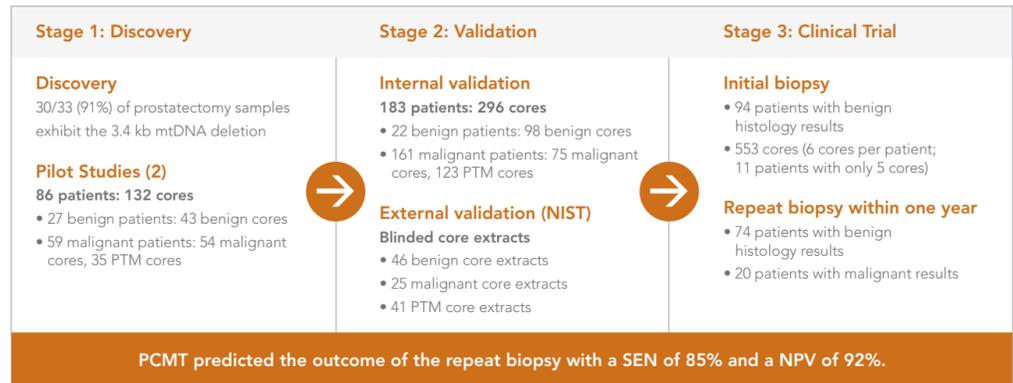
- Be more confident in negative results – and provide peace of mind to patients.
- Stratify patients who are free of the disease from those with undiagnosed prostate cancer.
- Detect undiagnosed prostate cancer early.
- Tailor patient management for improved patient care.
- Avoid causing patients added pain, anxiety, and risk from extra and potentially unnecessary biopsies.

## Health economic benefits of PCMT

| Savings category   | Range of cost savings (in \$US) |
|--|---------------------------------|
| Reduce or eliminate unnecessary screening  | \$3,800 - \$15,000              |
| Reduce the number of unnecessary repeat biopsy procedures                        | \$9,600                         |
| Eliminate the complications associated with unnecessary repeat biopsy procedures | \$2,000                         |
| <b>Total</b>   | <b>\$15,400 - \$26,600</b>      |

## PCMT mtDNA deletion: Stages of discovery and validation

The entire process of discovery and validation involved 396 patients and close to 1,700 prostate core samples. Included were 143 patients with benign histology and 253 patients with malignant histology. Stage 2 involved an external validation study performed by the National Institute of Standards and Technology under the Early Detection Research Network of the National Cancer Institute (NCI). Stage 3 was conducted within the framework of a clinical trial. The diagram below outlines the flow of work and the study population used in each stage of assay development:



Genomic deletions within mitochondria begin to happen long before traditional histology can identify disease. Biochemical signatures can identify genomic deletions associated with a disease and predict its onset much earlier than a pathologist can observe a problem, thus creating a greater window of time for treatment possibilities.

- Parr and Martin: Mitochondrial and nuclear genomics and the emergence of personalized medicine. Human Genomics 2012 6:3.

## Now you can know more from every biopsy

Receive the early insight you need to tailor patient management. Request the Prostate Core Mitomic Test with your next prostate biopsy pathology.

Learn more about this simple and informative test at [mitomicsinc.com](http://mitomicsinc.com).

Or call **888.763.2644** to incorporate the Prostate Core Mitomic Test into your practice.