IMAGION BIOSYSTEMS

CHANGING THE WAY WE LOOK AT CANCER

Transforming medical imaging

CANCER IS A GLOBAL HEALTH PROBLEM

Cancer continues to be a leading cause of mortality and morbidity, killing 9 million people a year, globally.

1 in 3 people are affected by cancer.

MEDICAL IMAGING NEEDS IMPROVEMENT

Treatments are more successful and survival rates improve with early detection; however, today's medical imaging technologies such as ultrasound, CT, and mammography are still not able to tell you if a suspicious spot is in fact cancer, thus needing invasive biopsies to confirm.

CURRENT MEDICAL IMAGING METHODS

Currently, there are five different ways to image the body

X-Ray

- ✓ Used for detecting anatomical problems and for breast screening (mammograms)
- ✗ Limited to identify "areas of interest" and exposes patient to ionized radiation

Ultrasound

- ✓ An inexpensive option to visualize morphological characteristics
- ✗ Poor sensitivity for detecting tumors - must be large to see in scans

MRI

- ✓ Offers good resolution for detecting abnormal lesions
- ✗ Limited to identify "areas of interest"

CT

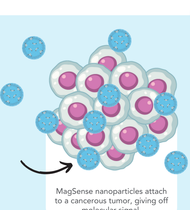
- ✓ Can provide good anatomical context for guiding biopsies
- ✗ Not a good option for diagnostic use and exposes patient to ionized radiation

PET

- ✓ High sensitivity to show "hot spots" of activity
- ✗ Exposes patient to radioactivity and can be expensive in some countries.

ENTER MAGSENSE® TECHNOLOGY

MagSense® imaging agent technology uses bio-safe, non-radioactive magnetic nanoparticles coated with a cancer-specific targeting molecule. The nanoparticles are designed to circulate through the body and attach to cancer cells, resulting in a unique and differentiable pattern when imaged by an MRI machine.



MagSense nanoparticles attach to a cancerous tumor, giving off molecular signal.

IS IT CANCER?

Once the targeted MagSense® nanoparticles attach to cancer cells, they are detectable by an MRI scan. If no cancer is present, the image is different. This means instead of simply identifying a suspicious spot on a scan, MagSense can potentially identify whether in fact, that spot on the scan is cancer or not.

THE MAGSENSE DIFFERENCE

SAFER

A safe and non-surgical solution to detect cancer. The nanoparticles are cleared by the liver and recycled by the body for hemoglobin production

SPECIFIC

The use of a targeted imaging agent provides molecular confirmation of the presence of cancer not just a suspicion

FASTER

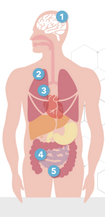
Reduce time of clinical decisions and reducing the need for unnecessary biopsy procedures, enabling a faster path to treatment.

MULTIPLE APPLICATIONS

MagSense® imaging agents can be developed for many types of cancers and can be used at multiple stages of diagnosis including primary diagnosis, staging, and monitoring the effectiveness of therapy.

Current Focus Areas:

1. Brain Cancer
2. Lung Cancer
3. Breast Cancer
4. Ovarian Cancer
5. Prostate Cancer



ON THE WAY TO IMPROVING CURRENT STANDARD OF CARE

MagSense® imaging agent technology is currently in clinical testing, focused first on HER2+ breast cancer detection in nodal staging, which allows the radiologist to see if cancer has spread to the lymph nodes.

Our preclinical research is currently focused on prostate, ovarian, and brain cancer imaging agent applications.

We are on a mission to make cancer more detectable. Join us on this exciting journey as we strive to save the lives of our loved ones.

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