# Bioabsorbable Breast Biopsy Wire Guide (2019-049)

Bioabsorbable Biopsy guide for localization of breast biopsy site without the need for pre-op imaging.

## Market Overview

This biopsy guide is used to re-locate a biopsy site before a lumpectomy is performed. This eliminates the need for pre-op imaging to locate the biopsy site. Breast cancer accounts for 627,000 deaths in the world per year and is the fifth leading cause of death in women. For every 100,000 women, 125 of them will develop breast cancer. Each year 1.6 million breast biopsies are performed nationwide. The global breast biopsy device market has a value of $781.3 million in 2018 and is expected to grow to a value of $1.91 billion by the year 2026, with a CAGR of 10.3%. Driving the market increase is the increasing prevalence of breast cancer and the increase of breast cancer awareness. This device would decrease the number of steps required to perform a lumpectomy which would help improve the overall patient experience.

## Technical Summary

This device provides a method of localizing a breast biopsy site without the need of pre-op imaging to relocate the before a lumpectomy. This is achieved by utilizing a bi-channel cannula. This cannula has one channel in which the biopsy is removed from the site and another channel in which sits a polymeric guide that is left in the breast tissue and runs from the biopsy site to the surface of the breast. This polymeric guide consists of 10/90 PLGA and is both sterilized and bio absorbable. If the patient does not require a lumpectomy the polymer guide wire simply absorbs into the body.

### Application
Breast biopsy site localization

### Development Stage
Prototype

### Advantages
- Eliminates the need for pre-operative localization of biopsy site, reducing procedure time
- Made from bioabsorbable material, eliminating need for removal surgery if no cancer is found
- Lowers patient discomfort decreasing the amount of time it takes to perform the procedure

| App Type | Country | Serial No. | Patent No. | CURF Ref. No. |
|---|---|---|---|---|
| Provisional | United States | 62/840,488 | NA | 2019-049 |

For more information on this technology contact:

Andy Bluvas
Director of Licensing for Technology Transfer
E: bluvasa@clemson.edu
P: (864) 656-5157