



## Investigator Spotlight

Janet Stein, PhD

*"Our project is focused on adding more components to an assay that we have already developed to detect breast cancer biomarkers. Our work on this project will put us on the pathway to being able to collect validating samples from patients in rural practices so that one day, the sample could travel for testing instead of the patient."*

### Background

- Professor of Biochemistry, University of Vermont Larner College of Medicine
- Associate Director for Basic and Translational Research for the University of Vermont Cancer Center
- American Association for the Advancement of Science Fellow
- R01 and U01 funding recipient
- >500 peer-reviewed publications
- Participant, Northern New England Clinical & Translational Research Network (NNE-CTR)

## Research

### Research Interest

- Altered gene expression and regulation that occur in cancer
- Cell cycle regulation of histone gene transcription

### Research Goal

To develop a blood-based test for breast cancer by enhancing an assay using a recently discovered class of small molecules circulating in the blood that may predict breast cancer and/or breast cancer risk

## NNE-CTR Network

### Participation

- Received NNE-CTR funding to study potential breast cancer biomarkers and therapeutic targets
- Used the Translational Research Technologies Core to access the micro-array and the sequencing core

### Benefits

#### ***Support at different stages of research and dissemination***

*"It's a long haul from having the results in the lab in patient samples and then translating that into something down the line that can impact how a patient is tested or treated. It's helpful to have the support of the pilot, and in the next steps of using the translational technologies and getting clinical design and biostatistics support. "* -Dr. Janet Stein

## Learn more

The NNE-CTR Network leverages and coordinates regional resources to conduct collaborative clinical and translation research and disseminate findings to improve both health and healthcare delivery in our region. To learn more or join the NNE-CTR Network, visit: <http://nne-ctr.net/>

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