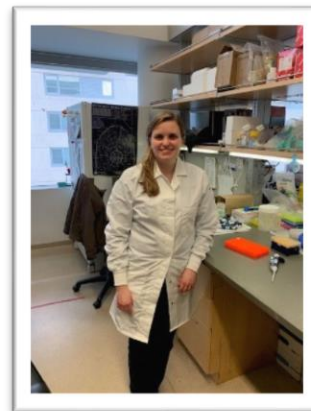


American Cancer Society Cancer Research – West Region

Investing in innovators. Building knowledge.

Discovering powerful tools to attack cancer from every angle.



Research is at the heart of our mission

What does it take to outsmart cancer? Research. The American Cancer Society has invested more than \$4.6 billion in cancer research since 1946, all to find more – and better – treatments, uncover factors that may cause cancer, and improve cancer patients' quality of life.

Following are just a few examples of the types of cancer advances we have supported. Research we have conducted or funded has helped:



Confirm the link between smoking and lung cancer.



Provide the first epidemiologic evidence that obesity increases the risk of premature death and establish the link between obesity and death from breast, colorectal, and other cancers.



Develop the research and clinical trials that led to successful bone marrow transplants in humans.



Investigate and confirm that tamoxifen can both treat and sometimes prevent breast cancer.



Find a key driver of the blood cancer chronic myeloid leukemia.



Pave the way for the development of the breast cancer drug Herceptin.

The American Cancer Society is honored to have provided funding to 47 investigators who went on to win the Nobel Prize, considered the highest accolade any scientist can receive. This is a tribute to our research program and the strength of its peer-review process.

American Cancer Society Grantee, Joanna Kovalski, PhD University of California, San Francisco

Translation is the process by which the variety and abundance of genetic messages, called mRNAs, are interpreted to direct protein synthesis. Typically, a cell has dynamic mechanisms of regulation that enable it to rapidly respond to cues from its environment. However, many cancers have found ways to hijack this adaptive response to enable key cancer processes.

The goal of Dr. Kovalski's research is to understand how cancer signaling remodels protein expression to support tumor development and metastasis. By investigating prostate tissues, she will decipher the translational control "code" of the cancer promoting messages that allow the cell to fine-tune key protein levels in distinct steps of prostate cancer progression. Ultimately, Dr. Kovalski aims to highlight unique vulnerabilities of cancer cells, resulting in novel therapeutic targets and new clinical treatments for all types of cancer.

Attacking from every angle.™

