The Cancer Research Center is jointly sponsored by the College of Physical and Mathematical Sciences and the College of Life Sciences.

**DIRECTOR:** Merrill Christensen, PhD  
**ASSOCIATE DIRECTOR:** Steven Castle, PhD

We are grateful for any contribution supporting Cancer Research at BYU. For more information about giving, please contact:

- Fund the research of one cancer research fellow from April-August
- Meet the recipient of your donation at the opening fellowship luncheon
- Participate in the end of summer research presentation by fellows
- Learn, first-hand, the impact of your donation

For your donation of $8000, you will:

- Fund the research of one cancer research fellow from April-August
- Meet the recipient of your donation at the opening fellowship luncheon
- Participate in the end of summer research presentation by fellows
- Learn, first-hand, the impact of your donation

We are grateful for the many contributions to the Cancer Research Center. One hundred percent of your donation directly funds the fellowship program. With your generous support, cutting-edge research at BYU will impact the lives of many.

**LDS PHILANTHROPIES AT BYU**

Orrin Olsen  
(801) 422-8651

Brent Hall  
(801) 422-4501

stopcancer@byu.edu

**CANCER RESEARCH CENTER**

Brigham Young University  
E-181 BNSN  
Provo, UT  
84602-5700

www.cancerresearch.byu.edu

(801) 422-3913  
cancer.research@byu.edu

501(c)(3) Nonprofit Organization  
Tax ID number: 87-0217280

Consider inquiring about a matching charitable gift program from your employer.

Every minute, 15 people die of cancer.

The Brigham Young University Cancer Research Center is working to change that.

Our vision at the BYU Cancer Research Center is to conduct and publish innovative research that will significantly contribute to a cure for cancer.
Cancer research at BYU is conducted by research faculty and mentored students in various departments across campus. Their research is financially aided through fellowships granted by the Cancer Research Center to selected students.

Each year, through the fellowship program, approximately 15 students are able to focus solely on cancer research. The fellowships not only benefit the fight against cancer, but also enable students to develop research experience and other marketable skills.

“The Cancer Research Fellowship provided me an opportunity to learn fundamentals of cell and molecular biology at a very early stage in my career, sparking my interest in cancer biology. The knowledge gained has given me a strong foundation for the information I use on a daily basis to treat cancer patients.”

Greg Chipman, M.D., Utah Cancer Specialists

WHO WE ARE

Andrew Roach, a former BYU student, is a cancer survivor. He was diagnosed with the same type of cancer that took the life of former BYU President, Rex Lee. Fortunately for Andrew, cancer research advanced the ability of doctors to successfully treat his disease. In Andrew's own words:

“It's awesome that in six months, I can be completely treated without radiation because the chemotherapy works. I was treated quickly and efficiently because people have studied the disease and have found different methods [of treatment].”

ANDREW'S STORY

The BYU Cancer Research Center, defined as a basic research facility, is where the fight begins. The center is dedicated to solving the fundamental issues of cancer by studying its progression at the molecular level. Faculty and mentored students contribute promising research for use in clinical trials at other institutions. Our discoveries lay the foundation for increasingly effective cancer treatment that will someday lead to a cure.

WHAT WE DO

Imagine the progress we could make in the fight against cancer by funding every applicant who qualifies for the rigor of the fellowship program. That is our vision.

SIGNIFICANT BREAKTHROUGHS

1989 Discovered COX-2 enzyme present in tumors; became the basis for the development of Celebrex
1992 Discovered enzyme linked to breast cancer recurrence
1995 Demonstrated that bacterial solution on skin activates immune system to combat tumor growth
1998 Identified a protein that pumps chemotherapeutic drugs out of cancer cells
2003 Successfully used ultrasound technology for targeted drug delivery to cancer cells
2006 Developed extremely efficient method for synthesis of Leukemia drug, Cladribine
2010 Discovered BMP2 protein, indicated in cell nucleus development
2011 Created a nucleoside with selective toxicity against colon cancer cells
2014 Discovered Programmed Cell Death 5, instrumental in blocking cell division in cancerous cells
2014 Discovered a novel mechanism used by tumor cells to activate autophagy, a process that promotes chemo-resistance in many cancer types