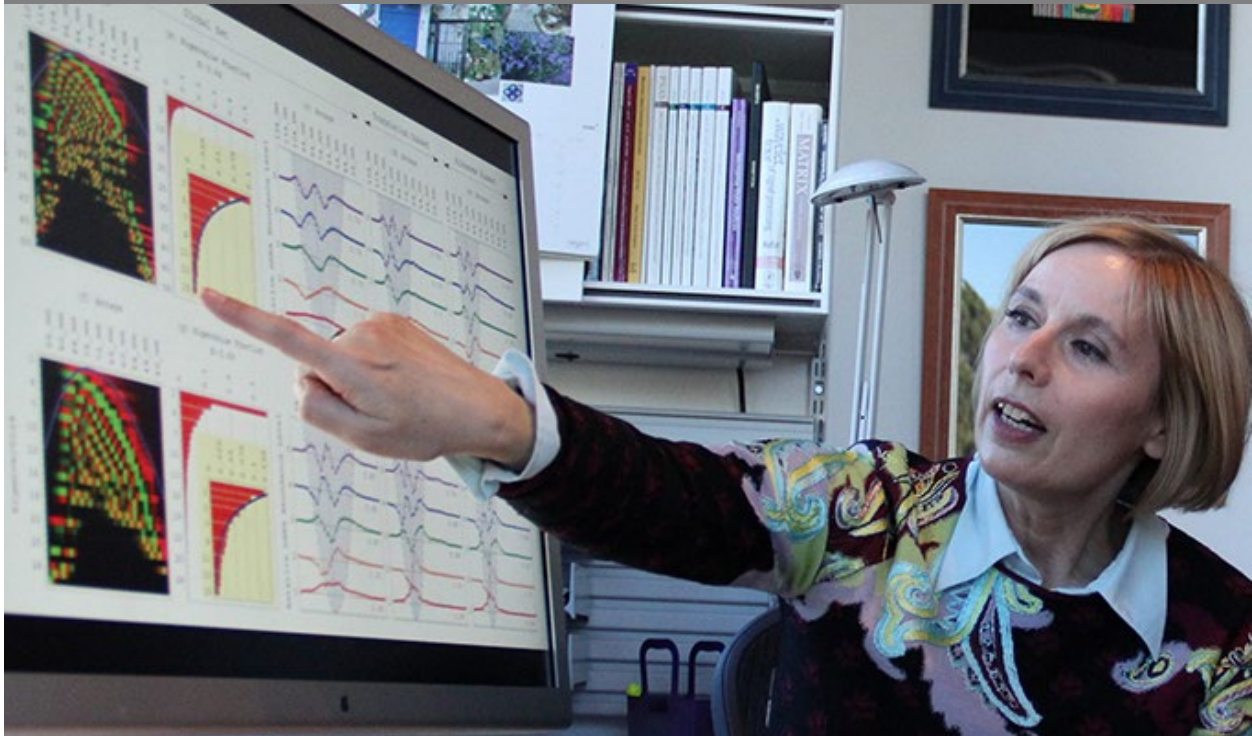




# BIOMEDICAL ENGINEERING

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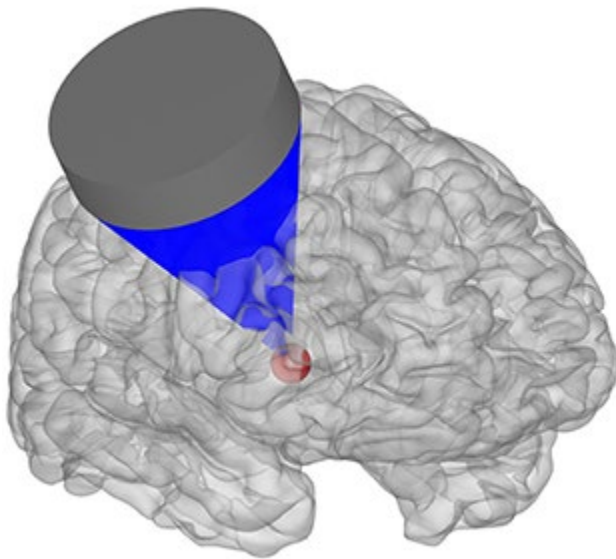
Newsletter | October, 2020



## GENOME-WIDE PATTERN FOUND IN TUMORS

For the past 70 years, the best indicator of life expectancy for a patient with glioblastoma (GBM) — the most common and the most aggressive brain cancer — has simply been age at diagnosis. Now, an international team of scientists has experimentally validated a predictor that is not only more accurate but also more clinically relevant: a pattern of co-occurring changes in DNA abundance levels, or copy numbers, at hundreds of thousands of sites across the whole tumor genome.

[Read More](#)



## A SOUND TREATMENT

In a new paper published Wednesday, May 20, in the journal *Science Advances*, Kubanek describes a procedure in which sound waves of high frequency (ultrasound) can be emitted into a patient's brain to alter his or her state. It's a non-invasive treatment that doesn't involve medications or surgery and has a unique potential to treat mental disorders including depression and anxiety and neurological disorders such as chronic pain and epilepsy.

[Click here to read more.](#)



## **LUKE ARM DOCUMENTARY**

Canal 13 television in Chile and Colomba Films have recently produced and broadcast a short documentary film about the University of Utah's involvement in the LUKE Arm project for the science program, "At the Edge of Fiction."

[Click here to read more](#)



## **ISABELLA ARCHIBALD RECEIVES GOLDWATER SCHOLARSHIP**

Isabella Archibald, a junior majoring in Biomedical Engineering, was one of three University of Utah students to be awarded the Goldwater Scholarship for 2020.

[Click here to read more.](#)



## MICHAEL PASKETT RECEIVES FELLOWSHIP FROM NIH

BME graduate student Michael Paskett was awarded a prestigious F31 graduate fellowship from the National Institute of Health. Michael performs his graduate research in the BME laboratories of Greg Clark and David Warren.

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