







## BRAIN FOOD

### CWRU students make room for Jell-O in the classroom.

A team of Case Western Reserve University students is using Jell-O to teach middle schoolers about engineering—and their efforts won them a \$2,500 prize at the Biomaterials Education Challenge at the Society of Biomaterials national meeting this spring.

The popular snack is also among the nation’s best-known biomaterials. Its primary ingredient—gelatin—is derived from the protein collagen, which makes up connective tissues.

In the body—and in Jell-O—collagen degrades over time, which makes it a valuable teaching tool for young people, according to the team of students who put together the winning lesson plans.

Julia Samorezov, Christa Modery-Pawlowski and Amy Wen, all PhD candidates in biomedical engineering, along with fourth-year biomedical engineering undergraduate major Sarah Gleeson, designed experiments for eighth-graders to perform on the dessert. Students tested whether more collagen could help a Jell-O sample hold more weight before collapsing and whether water or a solution of water and meat tenderizer would degrade Jell-O faster. The experiments were designed to give students a taste of the scientific method—and a taste of their test material afterwards.



## DIAGNOSTIC VEST



Photo by Russell Lee

Researchers in the electrical engineering and computer science department, including graduate students Abhishek Basak and Vaishnavi Ranganathan and their adviser Swarup Bhunia, associate professor of electrical engineering, are developing a vest fitted with ultrasound sensors and other high-tech gear that can detect cancer before symptoms set in.

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