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endocytosis. Unfortunately, endocytosis has been hijacked by disease-causing pathogens. These include viruses, bacteria, and bacterial toxins - proteins powerful enough to kill cells that receive even a few molecules of them. All these agents use endocytosis to gain entry into our cells. To be able to control both the good and bad effects of

Cassie's project was to search for ways of changing the amount of lipids in the membrane to test a hypothesis that lipids affect the rate of endocytosis. It turned out to be a difficult problem. Cassie got in on the ground floor and after her summer REU internship, the lab built on her work and developed better tools. They now have good evidence to

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endocytosis, then, we need to understand exactly how it works.

www.sunysuffolk.edu/stem.

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support their model, and are working to manipulate the rate of endocytosis.

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"Cassie's project provided the important first step toward our goal," Dr. Brown said.