



Jaroszeski

**Professor Jaroszeski Awarded Two Grants From
The National Institutes of Health**

Tampa, Fla. (September 15, 2010) – Mark Jaroszeski, associate professor in the Dept. of Chemical and Biomedical Engineering, recently received two grants to support his research on DNA delivery from the National Institutes of Health (NIH).

A grant from the NIH funded by the National Institute of Allergy and Infectious Diseases is a two –year grant totaling \$400,000. His study “Development of Streamed Ion Deposition for Efficient Plasmid DNA Delivery” will explore a novel DNA delivery platform for skin that utilizes a stream of ions generated from a charged gas stream to facilitate the uptake of DNA that has been injected into the skin.

“I am very excited about these two awards as they will develop promising USF-owned DNA delivery methods that are minimally invasive, for the first grant, and completely noninvasive, for the second grant, said Jaroszeski. “The results from both studies will be translatable to the clinic and have broad ranging public health implications for vaccination against infectious diseases and treating skin diseases such as cancer.”

Prof. Jaroszeski’s second NIH grant is also funded by the National Institute of Allergy and Infectious Diseases for a total amount of \$367,500 over a two-year period. That study “Topical Charge Driven DNA Delivery to Skin” will investigate the utility of a new transdermal DNA delivery method for skin that utilizes topically applied electrical charge.

CoPI’s on both project are: electrical engineering professor, Drew Hoff, and Dr. Ken Ugen, professor in the Department of Molecular Medicine at the USF College of Medicine.

The University of South Florida is one of the nation's top 63 public research universities and one of only 25 public research universities nationwide with very high research activity that is designated as community engaged by the Carnegie Foundation for the Advancement of Teaching. USF was awarded \$380.4 million in research contracts and grants in FY 2008/2009. The university offers 232 degree programs at the undergraduate, graduate, specialist and doctoral levels, including the doctor of medicine. The USF System has a \$1.8 billion annual budget, an annual economic impact of \$3.2 billion, and serves more than 47,000 students on institutions/campuses in Tampa, St. Petersburg, Sarasota-Manatee and Lakeland. USF is a member of the Big East Athletic Conference.

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