

**Cancer Imaging Program Grants – CIP 2015**

“Enzyme-directed assembly of particle diagnostics for guided surgical resection of tumors.”

Nathan Gianneschi, PhD, and Quyen Nguyen, MD, PhD

This team has developed a new type of fluorescent probe capable of collecting within diseased tissue and effectively labeling for visualization. Dr. Nguyen (cancer surgeon) will work with Dr. Gianneschi and his team of chemists and materials scientists in testing these novel materials for efficacy in a proof-of-concept animal study. The results of this pilot study will be used to plan a future R01 application (with additional animal and preliminary human studies) to develop this innovative technology to enable surgeons to resect head and neck (and potentially other) cancers more completely and safely than currently possible.