

FLORIDA STATE UNIVERSITY

COLLEGE OF ENGINEERING

CHARACTERIZING THE INTERACTIONS BETWEEN GENE DELIVERY  
POLYPLEXES  
AND BIO-INSPIRED POLYMERIC SURFACE COATINGS FOR LOCALIZED  
GENE  
THERAPY

By

SAILESTI JOSHI

A Thesis submitted to the  
Department of Chemical and Biomedical Engineering  
in partial fulfillment of the  
requirements for the degree of  
Master of Science

2023

Sailesti Joshi defended this thesis on April 27, 2023.

The members of the supervisory committee are:

Christina A. Holmes  
Professor Directing Thesis

Tristan Driscoll  
Committee Member

Jingjiao Guan  
Committee Member

The Graduate School has verified and approved the above-named committee members and certifies that the thesis has been approved in accordance with university requirements.