

FLORIDA STATE UNIVERSITY
FAMU-FSU COLLEGE OF ENGINEERING

ENGINEERING CELL-MATRIX INTERACTION IN 3D HUMAN CENTRAL
NERVOUS SYSTEM MODELS: UTILIZING HUMAN PLURIPOTENT STEM
CELL-DERIVED ORGANOIDS

By
XINGCHI CHEN

A Dissertation submitted to the
Department of Chemical and Biomedical Engineering
in partial fulfillment of the
requirements for the degree of
Doctor of Philosophy

2024

Xingchi Chen defended this dissertation on March 28, 2024.

The members of the supervisory committee were:

Yan Li

Professor Directing Dissertation

Changchun Zeng

Professor Co-Directing Dissertation

Sachin Shanbhag

University Representative

Ralm Ricarte

Committee Member

Jingjiao Guan

Committee Member

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