## FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

## IDENTIFICATION AND CHARACTERIZATION OF LINKER OF NUCLEOSKELETON AND CYTOSKELETON (LINC) COMPLEX COMPONENTS IN MAIZE (Zea mays L.) MEIOSIS AND DEVELOPMENT

Ву

HARDEEP KAUR GUMBER

A Dissertation submitted to the Department of Biological Science in partial fulfillment of the requirements for the degree of Doctor of Philosophy

2019

© 2019 Hardeep Kaur Gumber

Hardeep Kaur Gumber defended this dissertation on May 15, 2019.

The members of the supervisory committee were:

Hank W. Bass

Professor Directing Dissertation

Akash Gunjan

University Representative

George W. Bates

Committee Member

Karen M. McGinnis

Committee Member

Hong-Guo Yu

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.