FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

INVESTIGATING BIOLOGIC REPEATABILITY AT DIFFERENT BIOLOGICAL LEVELS: THE GENOMIC AND PHENOTYPIC RESPONSE TO PARALLEL PHENOTYPIC ARTIFICIAL SELECTION IN *DROSOPHILA MELANOGASTER* AND *D. SIMULANS*

By

LUKE T. JONES

A Dissertation submitted to the Department of Biological Science in partial fulfillment of the requirements for the degree of Doctor of Philosophy Luke T. Jones defended this dissertation on November 29, 2023.

The members of the supervisory committee were:

David Houle

Professor Directing Dissertation

Michelle Arbeitmann

University Representative

Kim Hughes

Committee Member

Scott Burgess

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.