

Control of sex myoblast migration in *C. elegans*

Sihui Zhang

Dissertation submitted to the faculty of the Virginia Polytechnic Institute and State University in partial fulfillment of the requirements for the degree of

Doctor of Philosophy

In

Biological Sciences

Jeffrey R. Kuhn

Diya Banerjee

Daniela Cimini

William R. Huckle

June 20, 2013

Blacksburg, VA

Keywords: cell migration; actin; Rho GTPase; *C. elegans*; sex myoblast

Copyright 2013 Sihui Zhang

Chapter 2 used with permission of PLoS ONE

Zhang S, Banerjee D, Kuhn JR (2011) Isolation and Culture of Larval Cells from *C. elegans*.

PLoS ONE 6(4): e19505. doi:10.1371/journal.pone.0019505

Appendix used with permission of WormBook

Zhang S. and Kuhn JR. Cell isolation and culture (February 21, 2013), WormBook, ed. The *C.*

elegans Research Community, WormBook, doi/10.1895/wormbook.1.157.1,

<http://www.wormbook.org>.