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UNIVERSITY OF CALIFORNIA SAN DIEGO

Thesis Title

A Thesis submitted in partial satisfaction of the requirements

for the degree Master of Arts / Science / Fine Arts ***(select one)***

in

Degree title (major)

by

Name

Committee in charge:

Professor First Last, Chair/Co-Chair ***(select correct title)***

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2024

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## TABLE OF CONTENTS

[THESIS APPROVAL PAGE iii](#_Toc149904414)

[DEDICATION ***(optional)*** iv](#_Toc149904415)

[TABLE OF CONTENTS v](#_Toc149904416)

[LIST OF FIGURES vi](#_Toc149904417)

[LIST OF TABLES vii](#_Toc149904418)

[LIST OF ABBREVIATIONS ***(optional)*** viii](#_Toc149904419)

[ACKNOWLEDGEMENTS ix](#_Toc149904420)

[VITA ***(optional)*** x](#_Toc149904421)

[ABSTRACT OF THE THESIS xi](#_Toc149904422)

[INTRODUCTION 1](#_Toc149904423)

[Chapter 1 INSERT CHAPTER TITLE 2](#_Toc149904424)

[Chapter 2 INSERT CHAPTER TITLE 3](#_Toc149904425)

[Acknowledgements 4](#_Toc149904426)

[REFERENCES 5](#_Toc149904427)

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[Figure 1.1: Figure caption example. Figure captions go below figures. 2](#_Toc149904391)

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If any portion of your dissertation has been published, submitted, in preparation for submission for publication, and/or unpublished with co-authors: you must include chapter acknowledgement paragraphs. See below for examples. The chapter acknowledgements must also be pasted at the end of the appropriate chapter.

I would like to acknowledge Professor Eta Theta for their support as the chair of my committee. Through multiple drafts and many long nights, their guidance has proved to be invaluable.

Chapter 2, in full, is a reprint of the material as it appears in Numerical Grid Generational in Computational Fluid Mechanics. Smith, Laura; Smith, Jane D., Pineridge Press, 2019. The dissertation author was the primary investigator and author of this paper.

Chapter 3, in part, has been submitted for publication of the material as it may appear in Education Mechanics, 2017, Smith, Laura; Smith, Jane D., Trailor Press, 2017. The dissertation author was the primary researcher and author of this paper.

Chapter 5, in part is currently being prepared for submission for publication of the material. Smith, Laura; Smith, Jane D. The dissertation author was the primary researcher and author of this material.

Chapter 6 contains unpublished material coauthored with Smith, Jane D. and White, Sigmund. The dissertation author was the primary author of this chapter.

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## ABSTRACT OF THE THESIS

Thesis Title

by

Name

Master of Arts / Science / Fine Arts ***(select one)*** in Degree title (major)

University of California San Diego, 2024

Professor First Last, Chair/Co-Chair ***(select correct title)***  
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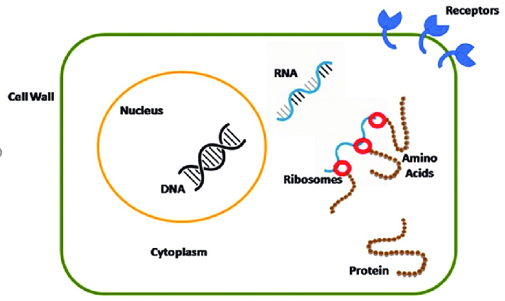


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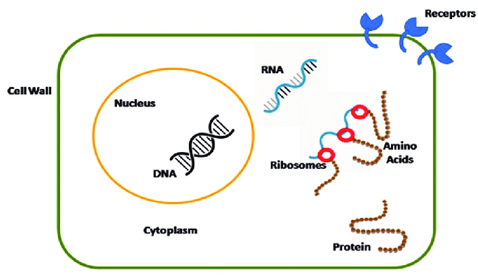


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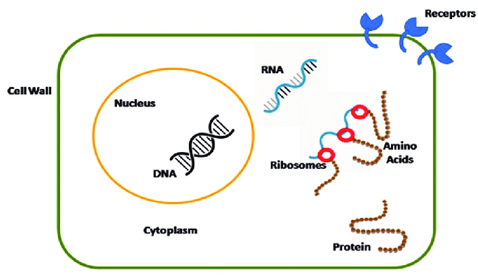
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### Acknowledgements

Chapter 2, in full, is a reprint of the material as it appears in Numerical Grid Generational in Computational Fluid Mechanics. Smith, Laura; Smith, Jane D., Pineridge Press, 2019. The dissertation author was the primary investigator and author of this paper.

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## REFERENCES

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Foo, L.C., 2013. Purification of rat and mouse astrocytes by immunopanning. Cold Spring Harb.Protoc. 8, 421–432

Foo, L.C., Allen, N.J., Bushong, E.A., Ventura, P.B., Chung, W.S., Zhou, L., Cahoy, J.D.,Daneman, R., Zong, H., Ellisman, M.H., Barres, B.A., 2011. Development of a method for the purification and culture of rodent astrocytes. Neuron 71, 799–811.

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