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for the degree Doctor of Philosophy/Education ***(select one)***

in

Degree title (major)

by

Name

Committee in charge:

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Professor First Last, Chair/Co-Chair ***(if applicable. Select correct title)***

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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.

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## ABSTRACT OF THE DISSERTATION

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by

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University of California San Diego, 2025

San Diego State University/California State University San Marcos/University of California, Irvine ***(select one)***, 2025

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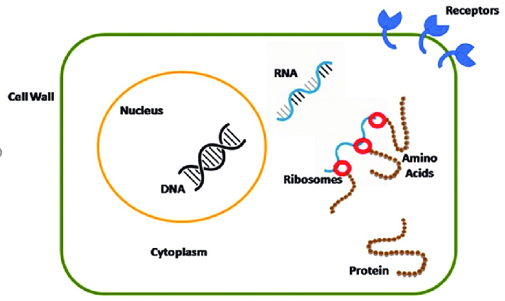


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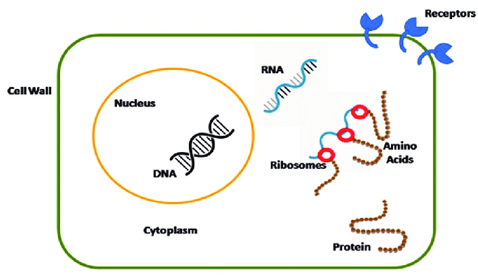


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### Acknowledgements

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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A diagram of dna and protein

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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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