

# Multi-Domain Finite Element Meshing for Parotid Acinar Cell Modeling and Simulation

John Rugis<sup>a,b</sup>      Nathan Pages<sup>b</sup>      James Sneyd<sup>b</sup>      David Yule<sup>c</sup>

<sup>a</sup>corresponding author - email: j.rugis@auckland.ac.nz, phone: 649-373-7999

<sup>b</sup> Department of Mathematics, University of Auckland, Auckland, New Zealand

<sup>c</sup>School of Medicine and Dentistry, University of Rochester, Rochester, NY, USA

March 27, 2017

# Keywords

multi-domain meshing, volumetric mesh, finite element modeling, parotid acinar cells.

# Abstract

350 words maximum.

# 1 Introduction

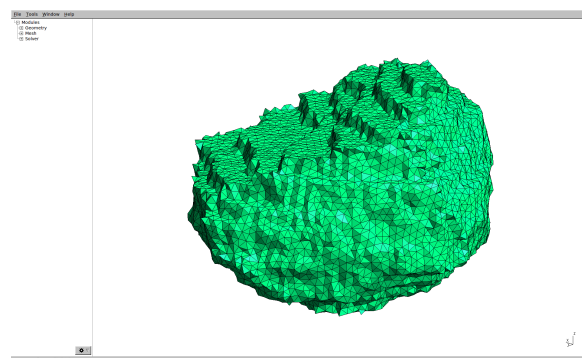
Double spaced. Wide margins.

# 2 Introduction

# 3 Design Considerations

# 4 Description of Method

# 5 Results



## **6 Discussion**

## **7 Conclusion and Future Plans**

## **8 Acknowledgements**

This work was supported by the National Institutes of Health grant number 5R01DE019245.

## **9 References**