

The Evolution of Cellular Restraint in Multicellular Organisms

Katherine G. Skocelas, Austin J. Ferguson, Clifford Bohm, Katherine Perry, Rosemary Adaji, Ch

2021-03-18

Contents

1	Introduction	5
2	Somatic Mutation Rate Sweep	7
3	Germ Mutation Rate Sweep	9
4	Genome Length Sweep	11
5	Size 1024x1024 organisms	13
6	Test of timing sample counts	15
7	Interactive web app	17

Chapter 1

Introduction

This document serves as the supplemental material for our ALife 2021 conference submission “The Evolution of Cellular Restraint in Multicellular Organisms”.

The document is split into sections. Each section can be accessed via the navigation bar on the left side of the screen. Sections mostly correspond to experiments (some that were discussed at length in the paper, others that were not).

Chapter 2

Somatic Mutation Rate Sweep

TBD

Chapter 3

Germ Mutation Rate Sweep

TBD

Chapter 4

Genome Length Sweep

TBD

Chapter 5

Size 1024x1024 organisms

TBD

Chapter 6

Test of timing sample counts

TBD

Chapter 7

Interactive web app

TBD