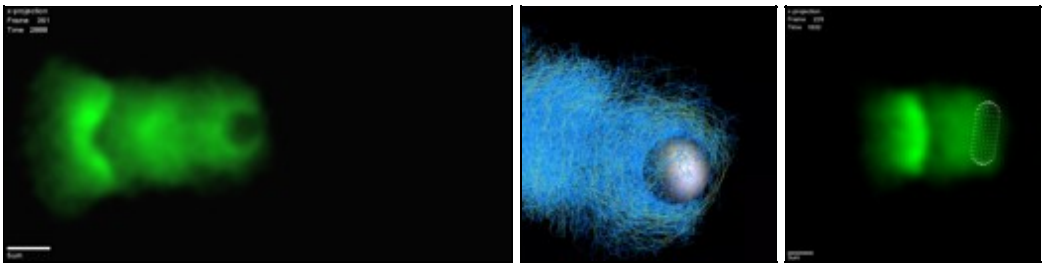

This wiki describes how to set up and use the `comet' program.

You can read an introduction to the comet project here(to return here, click on 'cometwiki' rather than using the browser back button).

Essential Information

How the Program Works

- Description of the Model
- Overview of Program Flow

Video Tutorials

- How to run the comet program on OS X
- How to make 3D isosurfaces.

Installing the Program

`comet` runs on any unix-like operating system, including OS X, Linux or Windows (under cygwin).

- Instructions for downloading and installing comet

Running the Program

The program is called from the command line. The command line parameters tell the program what to do (calculate a new run, re-process existing data, interactive 3D view etc.). A `cometparams.ini` file in the

Simulator Output

Example Results

- Symmetry Breaking and Motility
- Forces during Symmetry Breaking
- Circumferential and Radial measurements
- Ellipsoid and Capsule symmetry breaking

Model Robustness

- The effect of changing the main parameters

In Vitro

- 3D Reconstructions of in vitro Constrained Shells
- 3D Reconstructions of in vitro Unconstrained Shells

In Depth Information

Inner workings of the code

- Detailed Program Flow
- Implementation in C++

working directory tells the program detailed information about the model parameters to use for calculation and display.

- Command line parameters for the `comet` program
- Model settings in the `cometparams.ini` file
- Display settings in the `cometparams.ini` file
- Running `comet` on a cluster

Making Measurements

- Tracking network movement and making measurements
- Radial Force Movies

Code Status

- Source Repository
- Latest Source
- Download OS X Binaries

- Known Issues
- To Do

- Using Git