**Thursday, 18 Jan 2018, 11-12AM, meeting with Zoom**

**On Zoom: Gib, Hashem, Jagir, Chris**

**To do lists:**

Visualise the rates on the main body mesh from fitting lambda field on the growth example (deferred)

Finding a relation on the space (ongoing)

Thinking about the methods of how we can pick the best methods (waiting to finalise new results)

Run some simulations for the next stages with MCC boundary conditions on hpc2 (deferred)

Solve all the sub-stages with SLSQP again with an open bound (ongoing)

Reading ALPSO results in a dictionary (deferred)

**Issues which are discussed:**

Among the answers of the ALPSO, 30-50% of the growth rates gets the border values in their defined ranges which is not expected. Which may not provide a continuous distribution in spatial and temporal order.

The results of using ALPSO on the SLSQP leads to better objective functions where the results are not laid in the borders anymore. We are waiting to see the results in all the sub-stages to see continuous distribution.

Having negative growth values were discussed, where having zero values can have many different meaning in biological descriptions.

Some errors and warnings in the OpenCMISS runs were discussed and explored.

**Plan for the next week:**

Searching in the literature to see if any person found negative growth rates. Negative may mean:

* cell death (not probably)
* cell movement
* orientation is changing

Visualise the rates with ellipsoids and circulate images or exfiles + cmgui files …

Run some simulations for the next stages with MCC boundary conditions on hpc2 or hpc6 if required

Finalise the results and try to find the continuity

Reading ALPSO results in a dictionary (deferred)

Reading SLSQP results in a dictionary (deferred)