

# Dry Lab Workflow

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FRIDAY, 04/06/2021

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The first meeting of dry lab was conducted and various model aspects were explored.

THURSDAY, 10/06/2021

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Discussion about molecular modelling was held.

SUNDAY, 20/06/2021

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All preliminary models that could be done were discussed and workload was divided amongst the members of the dry lab.

THURSDAY, 24/06/2021

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The first meeting with iGEM Tuebingen was held and possible collaboration aspects on molecular dynamics were discussed.

SUNDAY, 27/06/2021

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A literature survey pertaining to all the decided models were done and a discussion was held on the same.

WEDNESDAY, 30/06/2021

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A collaborative meet was held in between dry lab and wet lab members to ascertain the aspects of molecular modelling.

MONDAY, 05/07/2021

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Base level epidemiological modelling was done and further modifications were discussed.

SUNDAY, 18/07/2021

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Base level biofilm model was developed and the possible analyses that could be drawn from the aforesaid model were discussed.

THURSDAY, 22/07/2021

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A meeting with the secondary PI was held regarding the aspects of the already developed model and new ideas were brainstormed.

WEDNESDAY, 28/07/2021

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An initial meeting with iGEM UCSC was held and modelling ideas regarding their project were explored.

WEDNESDAY, 04/08/2021

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Subsequent meeting with iGEM Tuebingen was held on how to build their simulations using supercomputer access.

SUNDAY, 08/08/2021

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A preliminary model explaining the UCSC iGEM team's project was developed by us and ideas on further modifications and progress were discussed.

TUESDAY, 10/08/2021

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Base level genetic circuit model was developed and further modifications were discussed.

**MONDAY, 16/08/2021**

The issues with supercomputer access were rectified and the modalities regarding how to run our simulations and mailing the results were figured out.

**WEDNESDAY, 25/08/2021**

Modified epidemiological modelling was developed and discussed.

**TUESDAY, 31/08/2021**

- The molecular dynamics set-up was initiated and made ready for the simulations.
- The membrane systems were set up for iGEM Tübingen's project and conveyed in the meeting.

**THURSDAY, 09/09/2021**

Gene circuit model was developed and discussed.

**SATURDAY, 18/09/2021**

Molecular dynamic simulations were started in the University of Tübingen cluster.

**MONDAY, 20/09/2021**

A meeting with iGEM Tübingen was held to troubleshoot the problems encountered in the simulations.

**SATURDAY, 25/09/2021**

The docking study was performed and the results were analysed.

**THURSDAY, 30/09/2021**

Model for testing optimisation was developed and discussed.

**TUESDAY, 05/10/2021**

New ideas were implemented by UCSC and the inferences from the implemented models were drawn.

**WEDNESDAY, 06/10/2021**

Final biofilm modelling developed and discussed.

**SATURDAY, 09/10/2021**

Final meeting held with iGEM Tübingen to analyse the membrane simulations.

**SUNDAY, 10/10/2021**

Some of the simulation results were received and the analyses were performed.

**TUESDAY, 12/10/2021**

A final meeting with the secondary PI was held regarding the already developed models and their interconnected aspects.

**WEDNESDAY, 13/10/2021**

The final meeting with UCSC was held and their results were discussed.

**FRIDAY, 15/10/2021**

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More simulation results were received and their analyses were performed.

**MONDAY, 18/10/2021**

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All four modelling aspects were linked together and a holistic model explaining the project was created.