

# Natural Selection Engineering Internship

Nov. 6, 2019

Day 2/46



**At the end of today's lesson you will be able to;**

- Design a treatment that does not cause an increase in the malaria parasite population while considering three criteria: minimizing drug resistance in the malaria parasite population; minimizing patient side effects; and keeping costs low.

## **Classwork-**

- Natural Selection Engineering Internship Day 1
- Interns begin the Research phase of their internship by revisiting and applying content from the Natural Selection unit in preparation for designing solutions to an engineering problem.
- They read the Welcome to Futura! message and watch a video that introduces them to the project director and the Request for Proposals (RFP).
- Interns are introduced to the Dossier and use Active Reading strategies to begin background research on malaria, and then explore the MalariaMed Design Tool.
- The purpose of these activities is to introduce interns to the biomedical engineering problem they will work to solve and for them to become familiar with the tools and resources they have to design solutions.

## **Homework-**

- After-Hours: Read and annotate Chapter 1: "Request for Proposals".