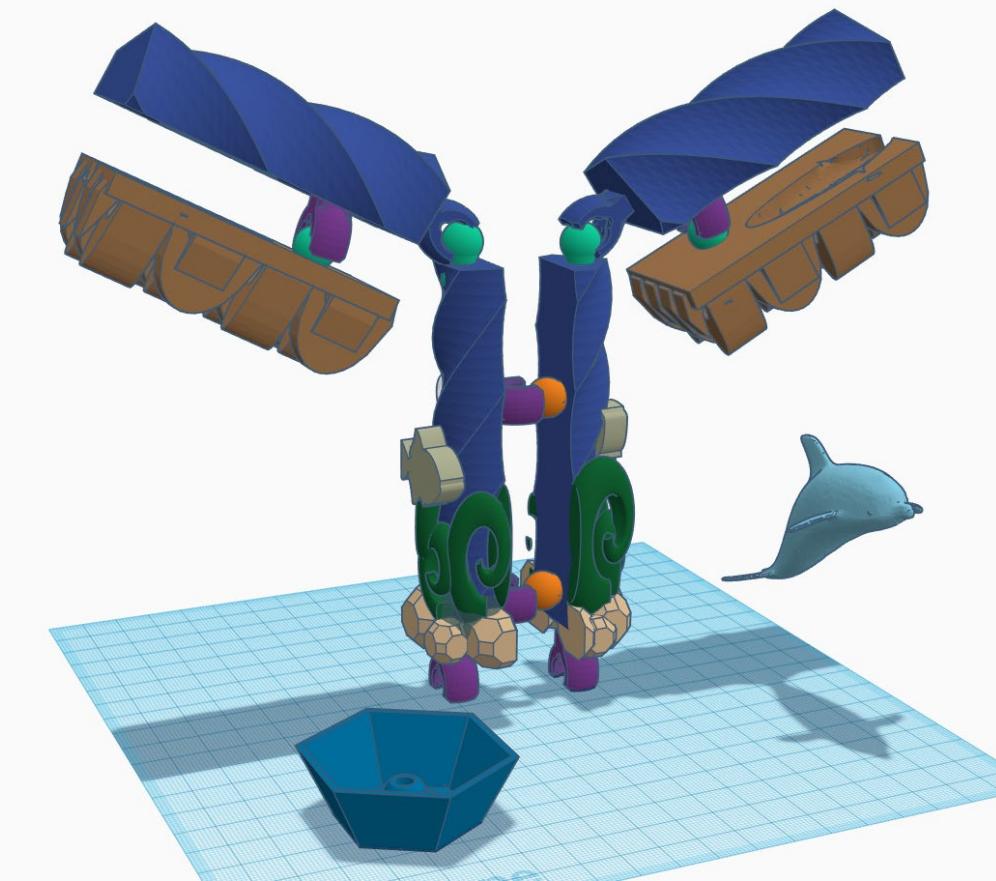
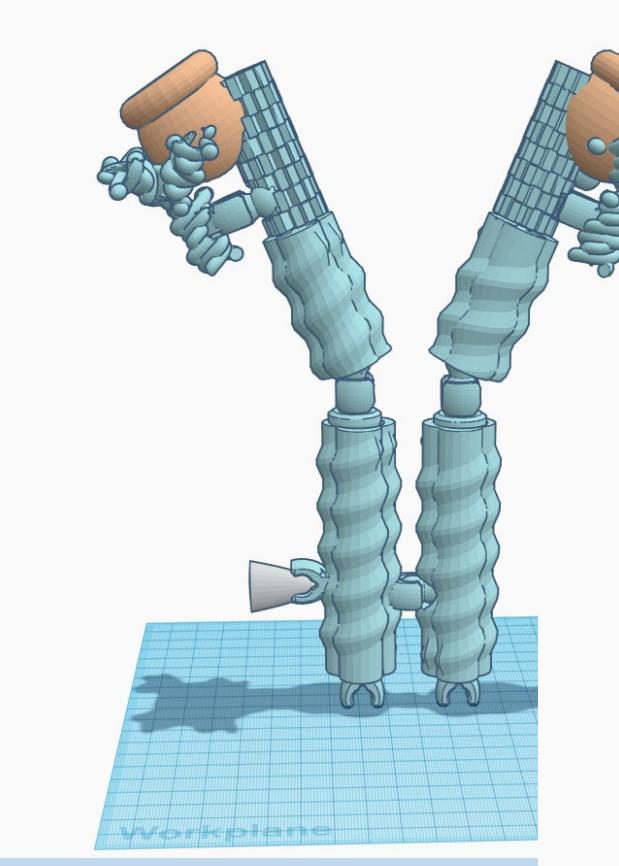
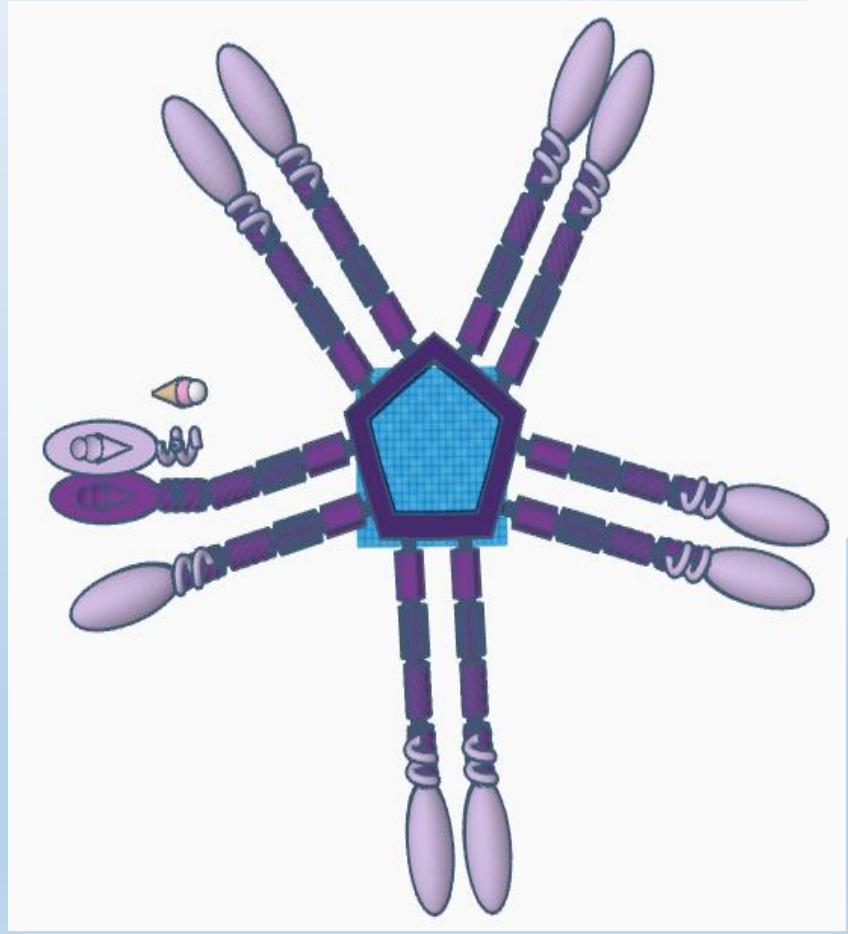


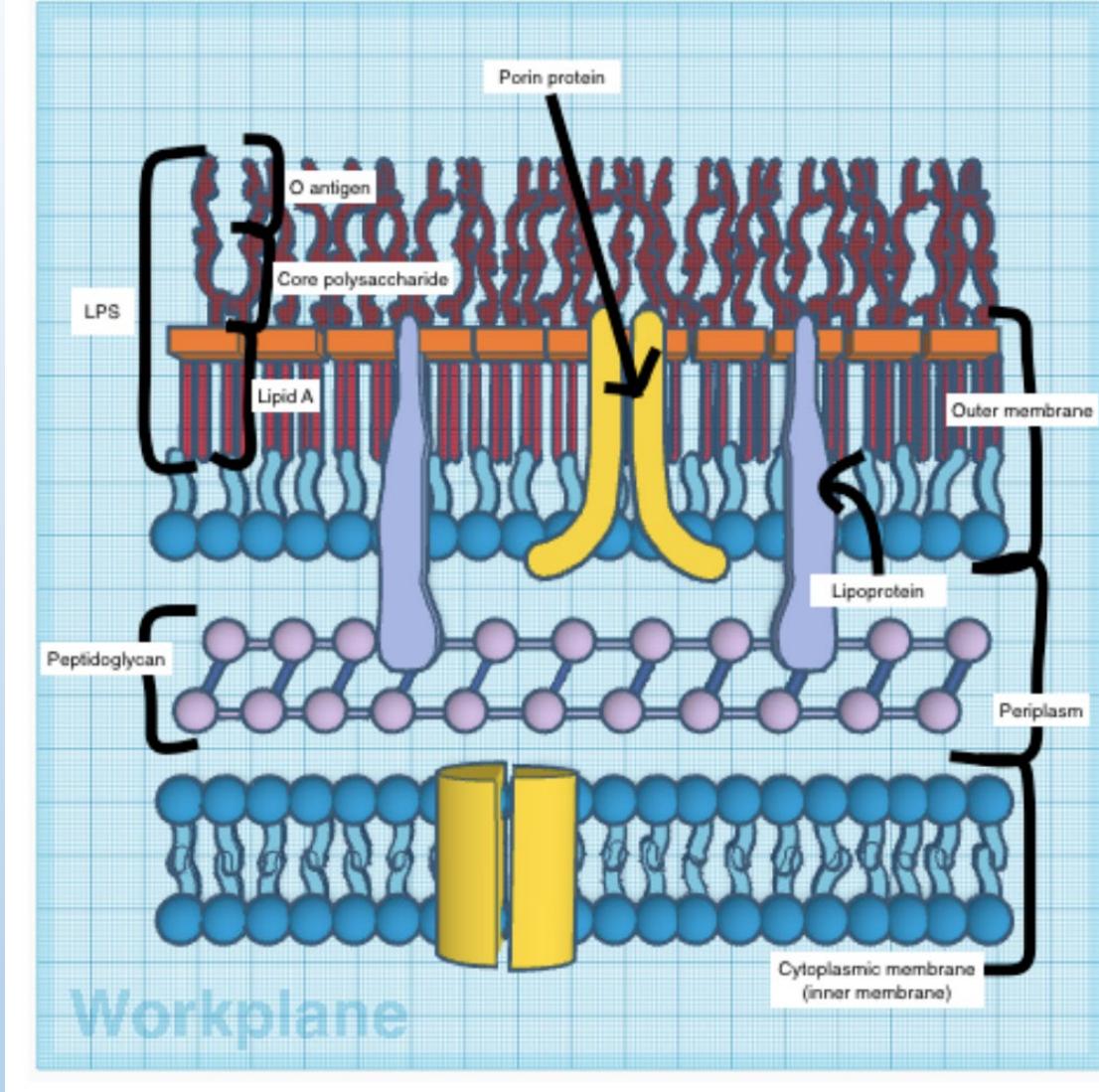
STEAL MY IDEA

Lorrie Cramer

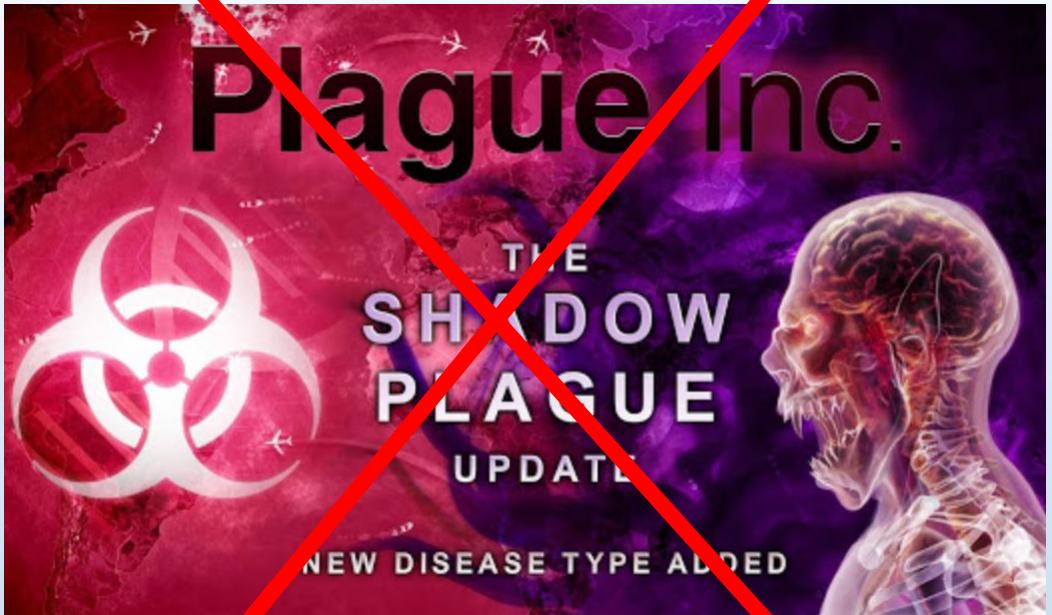
Microbiology and Immunology

Using 3-D modeling and game theory to help
Inspire Understanding (and some fun) in class





Katie O'Brien



League Of Villianous Evildoers Maniacally United For
Frightening Investments in Naughtiness

LOVEMUFFIN

Microbiologists Committed To Chaos, LLC

Motto: Designing microbes capable of world domination.

Contract to create chaos

Three parts:

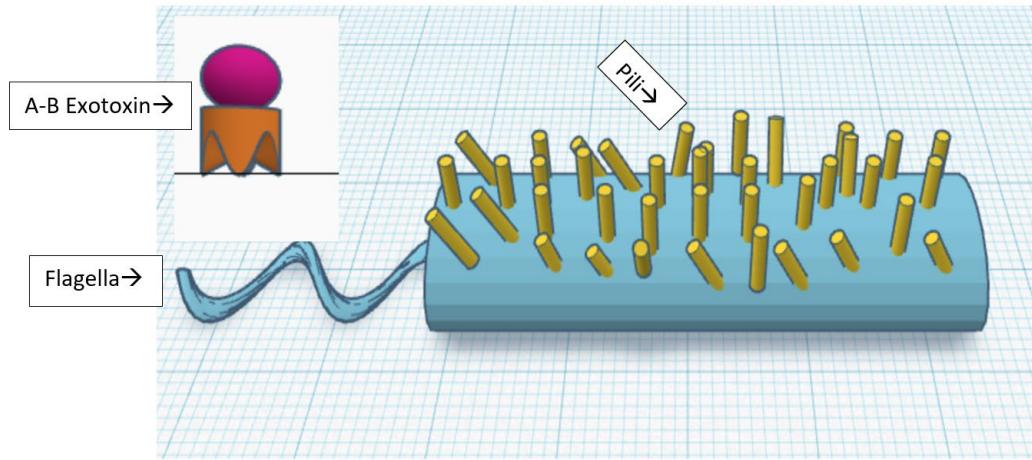
Part One: Create organism

Part Two: Build a Bug: 3-D

Part Three: How do we fight back?

Part TWO: DUE OCT. 17

Insert a Tinkercad image of your organism. Indicate if it is Gram-negative or Gram-positive, as well as its morphology. Include a representative image of ALL your virulence factors.



Lulumina temporalite is a gram-negative, bacillus bacteria. It typically divides in chains, and forms long chains of bacilli, known as streptobacilli. Since it is a Gram-negative bacteria, it has endotoxin as an intrinsic virulence factor.

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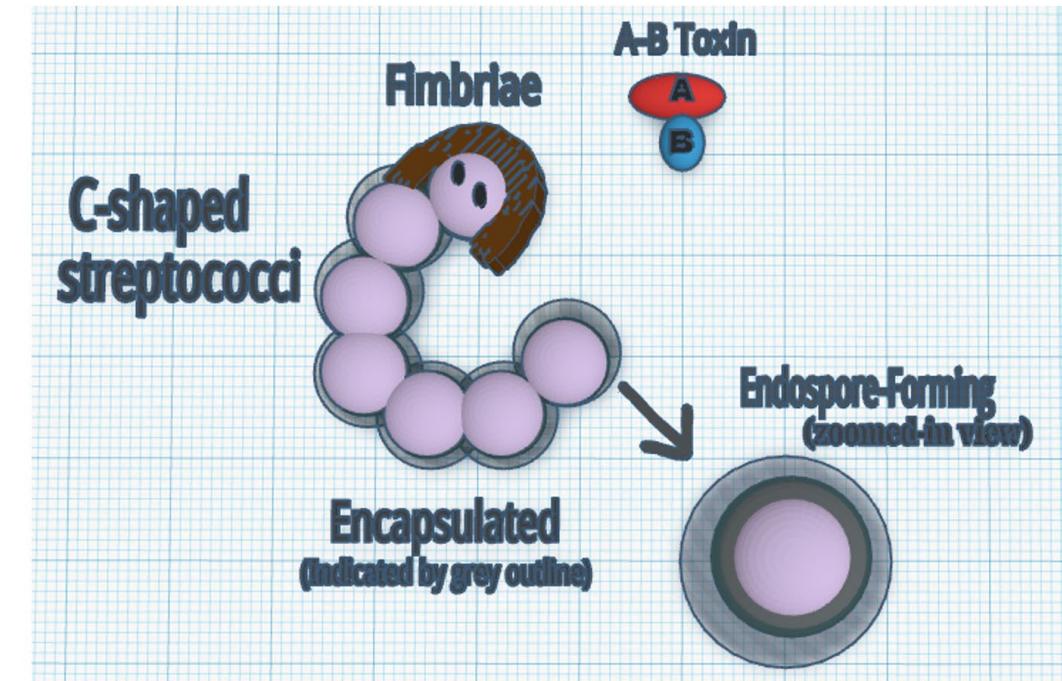
Contract to create chaos

Part ONE: Due Oct. 1

Name of your organism: *Streptococcus cramoniae*

Describe the disease/syndrome you have created: *S. cramoniae* is a gram-positive spore forming, C-shaped streptococci that gives infected individuals an uncontrollable laughter-resembling cough.

S. cramoniae are Gram-positive, encapsulated, spore-forming, C-shaped streptococci ("C" for "Cramer") that have polar fimbriae for attachment and secrete an A-B toxin. The specific details of each virulence factor are described above.



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Part ONE: Due Oct. 1

Name of your organism: *Basketballus inabilitas*

Describe the disease/syndrome you have created:

Basketballus inabilitas is a gram positive coccus. Infection by this bacteria causes Balleritis disease. The signs and symptoms of this disease are listed below.

Signs:

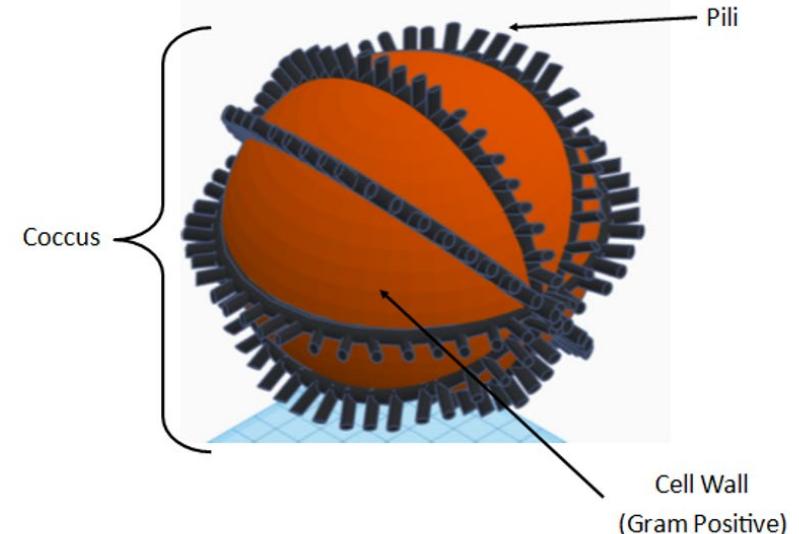
- Tetanus of the hand muscles (making ball-handling impossible)
- Increased sweating
- Decreased muscle response
- Increased salivation

Symptoms:

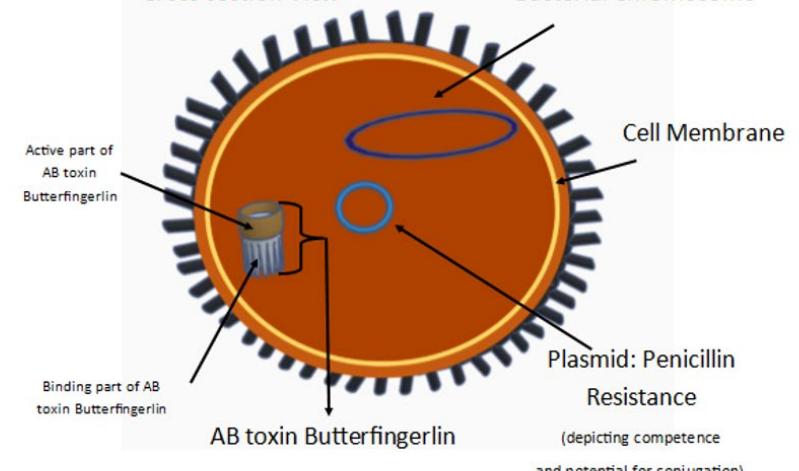
- Fatigue; desire to stop moving
- Temptation to hand things to other people
- Fear of holding things
- Extreme thirst

More details of the transmission and the causes of signs and symptoms of Balleritis are given below, in the next section. Overall, however, this disease tends to be seen most among college basketball players, and the signs and symptoms of the disease are such that basketball playing abilities are severely hindered at game time. It is almost as though everything about this disease was designed to target basketball players' performance during the game. Strangely enough, no UNC students have been infected with the disease, leading some to believe immunity exists on UNC's campus alone. Although not fatal, this disease is very difficult to cure, and often times takes a whole season to completely eradicate from the body. The signs and symptoms only flare up at game time, making the disease detrimental to a player's game-time performance, but not their daily

Basketballus Inabilitas: External View



Cross-section View



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Peer grading:

Final throwdown

Extra credit