

Student Information Card

Please write your responses on an index card and bring to front.

1. Name on Mt. SAC records:

2. Preferred name, if different from above:

3. Preferred pronunciation of name:

4. Preferred gender:

5. Is there anything else you would like me to know about you?
For instance, is there anything else that you can tell me so
that I'll better understand how you learn?

Welcome to Microbiology 22

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*Task #1: Please find **something you have in common** with someone sitting near you – something not obvious.*

Introduction to Microbiology

Microorganisms?

Dr. Bassler, TED talk:

https://www.ted.com/talks/bonnie_bassler_on_how_bacteria_communicate?language=en

Introduction to Microbiology

Scale of the Universe:

<http://faculty.mtsac.edu/cbriggs/>

<http://htwins.net/scale2/>

Introduction to Microbiology

Major topics:

- **History, scientific themes**
- **Anatomy**
- **Metabolism**
- **Genetics**
- **Diversity**
- **Diseases**

Why care?

1. Jot down some of your favorite ideas or questions.
2. Share one or two of your ideas with a partner.
3. Work together to connect that idea to microbiology.

Example: Cancer treatment

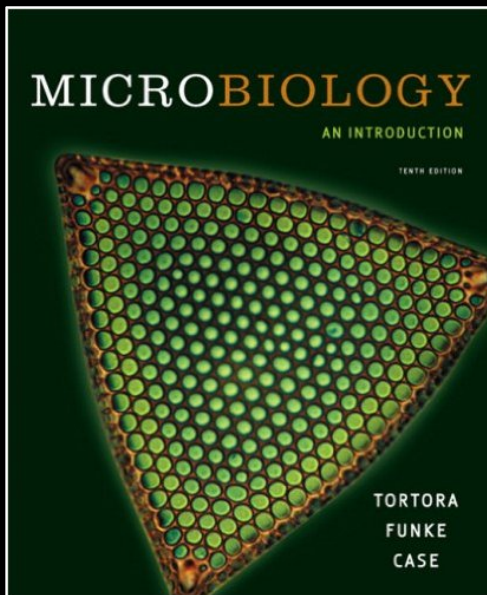
Connection: Can microorganisms cause cancer? Can they be used to treat it?

Example: Shoe design

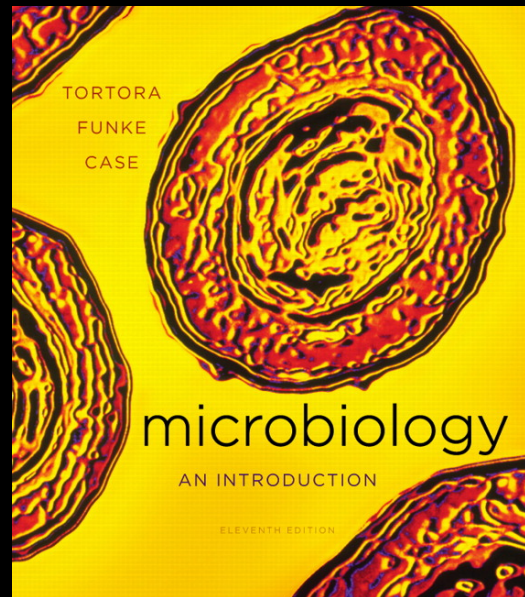
Connection: Which microorganisms cause foot odor?

Textbook editions

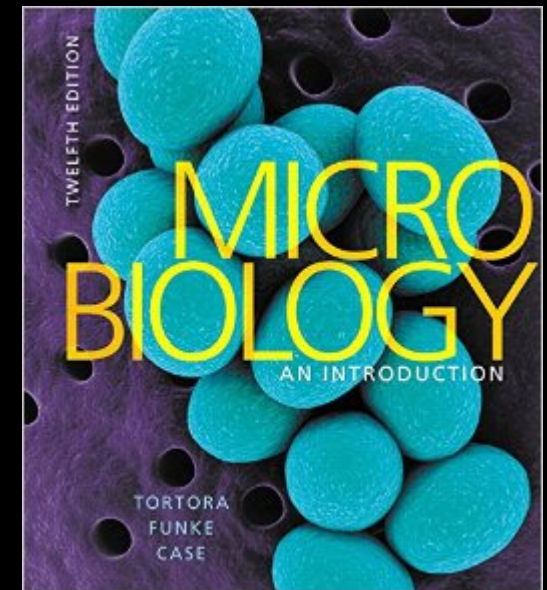
10th



11th



12th



Discussion

For your investigator, did their life fit these themes?

Why do you say so?



(a) Van Leeuwenhoek using his microscope

Edward Jenner



Horn from "Blossom," the cow

<http://quigleystcabinet.blogspot.com/>

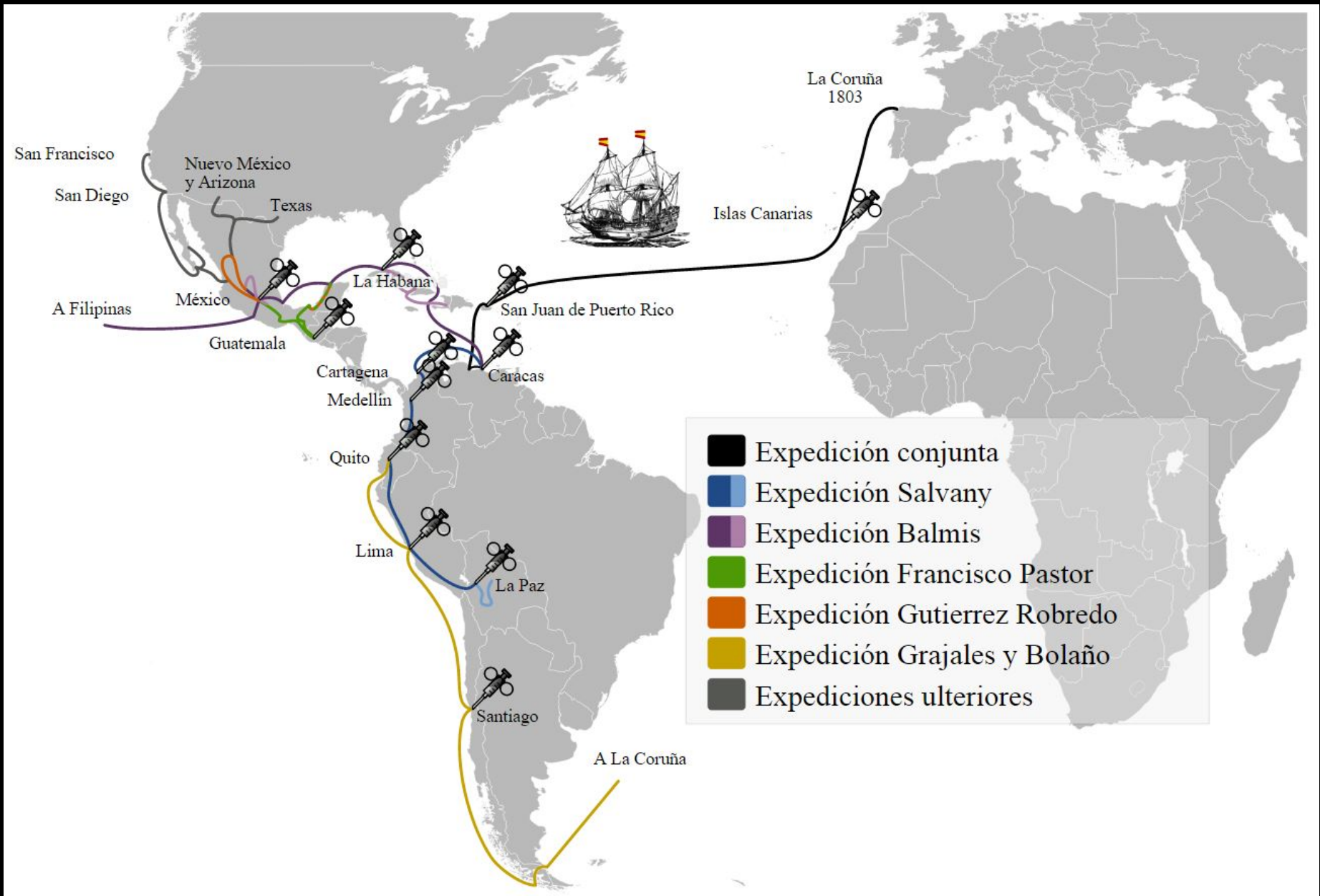


Chinese work on variolation

<http://amhistory.si.edu/>



Balmis Expeditions (1803-1806)

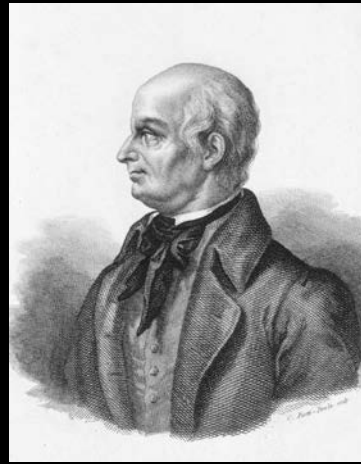




Francesco Redi



John Needham



Lazzaro Spallanzani

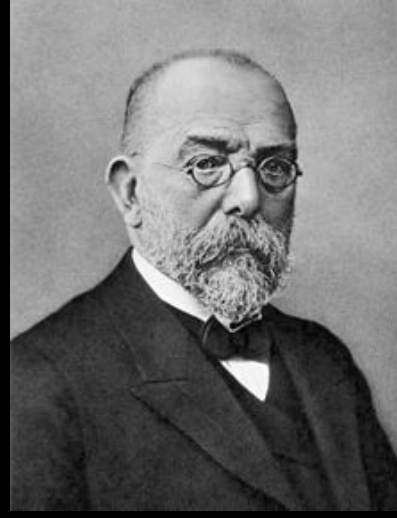
“Here the searcher in him came forward – he didn’t go to his desk to write Needham about it – instead he went to his dusty glass-strewn laboratory, and grabbed some flasks and seeds, and dusted off his microscope. He started out to test, even to defeat, if necessary, his own explanations.” (de Kruif, 1937)



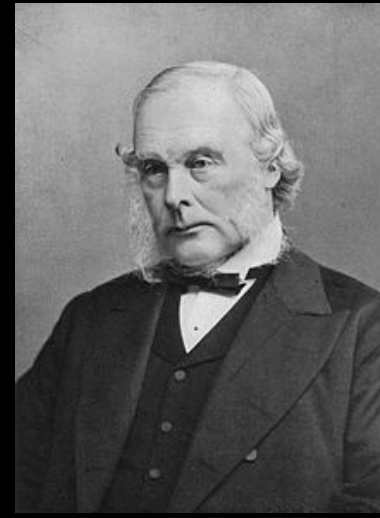
Rudolf Virchow



Louis Pasteur



Robert Koch



Joseph Lister



Rebecca Lancefield

Emerging Infectious Disease



sites.psu.edu



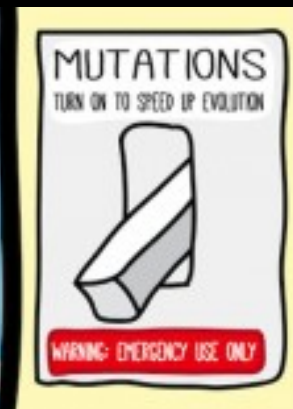
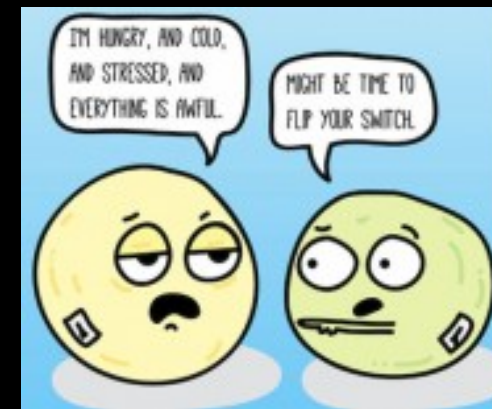
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