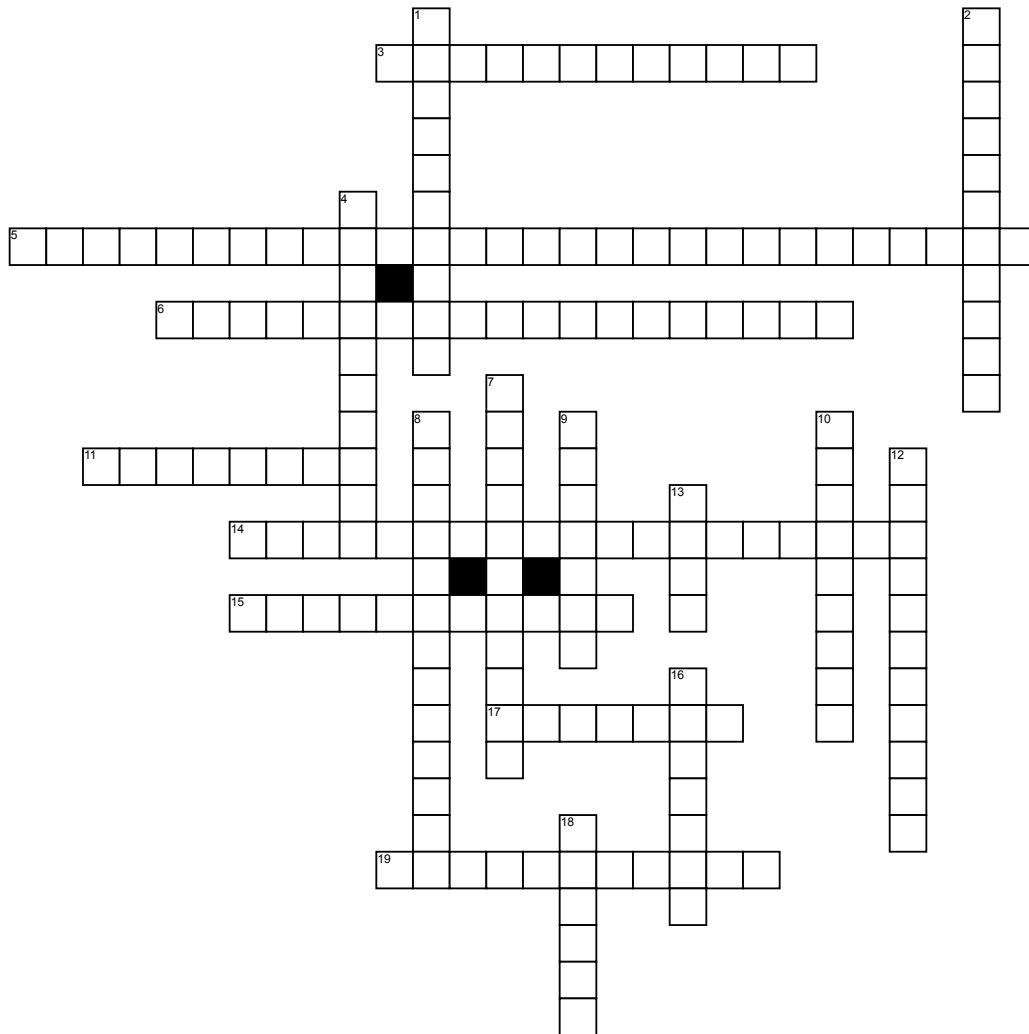


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# People of Microbiology



## Across

- 3.** Disproved spontaneous generation and discovered pasteurization of milk and wine. Germ theory of disease.
- 5.** Discovered molecular sequences could be used to reconstruct evolutionary relationships
- 6.** Discovered that the transforming substance is DNA
- 11.** Used agar-agar from seaweed to make jellies. Her husband used this to grow microbes on a surface
- 14.** Discovered structure of DNA
- 15.** First to describe bacteria
- 17.** "It is all the same!" "Unity in Biochemistry"

## Word Bank

Gram  
Nightingale  
Spallanzani  
Sammelweis  
Kircher  
Robert Hooke  
Ann Hesse

## 19. Established first nursing school

## Down

- 1.** Discovered that a specific disease caused by specific pathogens explain the germ theory of disease
- 2.** Repeated Needham's work with modifications
- 4.** Discovered cause of "childbed fever." Doctors were doing autopsies and delivering babies
- 7.** Developed the first microscope and said all life is made of cells
- 8.** Ran experiment with food spoilage to test if flies undergo spontaneous generation

Needham  
Watson Crick Franklin  
Leeuwenhoek  
Robert Koch  
Louis Pasteur  
Winogradsky

- 9.** Advocated the theory of spontaneous generation. Proposed prevention methods of disease similar to COVID-19 measures
- 10.** Sequenced the 16S/18S subunit of rRNA and discovered Archaea
- 12.** Studied bacteria in nitrogen and sulfur cycles. Proposed chemolithotrophy
- 13.** Developed differential stain to identify bacteria based on their cell wall
- 16.** Advocate of spontaneous generation. Boiled liquid, let cool, then sealed flask resulting in microbial growth
- 18.** Pioneered use of phenol in surgery and developed antiseptic techniques

Lister  
Francesco Redi  
Avery MacLeod McCarty  
Kluyver  
Emile Zuckerkandl  
Linus Pauling  
Carl Woese