

SCIENCE AND MEDICINE

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My Career in Science and Medicine

- My background
- What is Science and why is it important?
- What is Medicine and why is it important?
- How did I get involved with both Science and Medicine?
- 11 questions from Sarah Ornelas and Classmates at Imperial Middle School

Dr. Wong's Background

- Born in Los Angeles
- Grew up in Orange County (La Habra, Fullerton)
- Schools (Las Positas, Imperial Junior High, Parks Junior High, Sunny Hills High School)
- College (Fullerton Junior College, UCLA)
- Research - INGENE
- Medical School - UCLA
- Medical Training - UCLA
- Faculty - UCLA



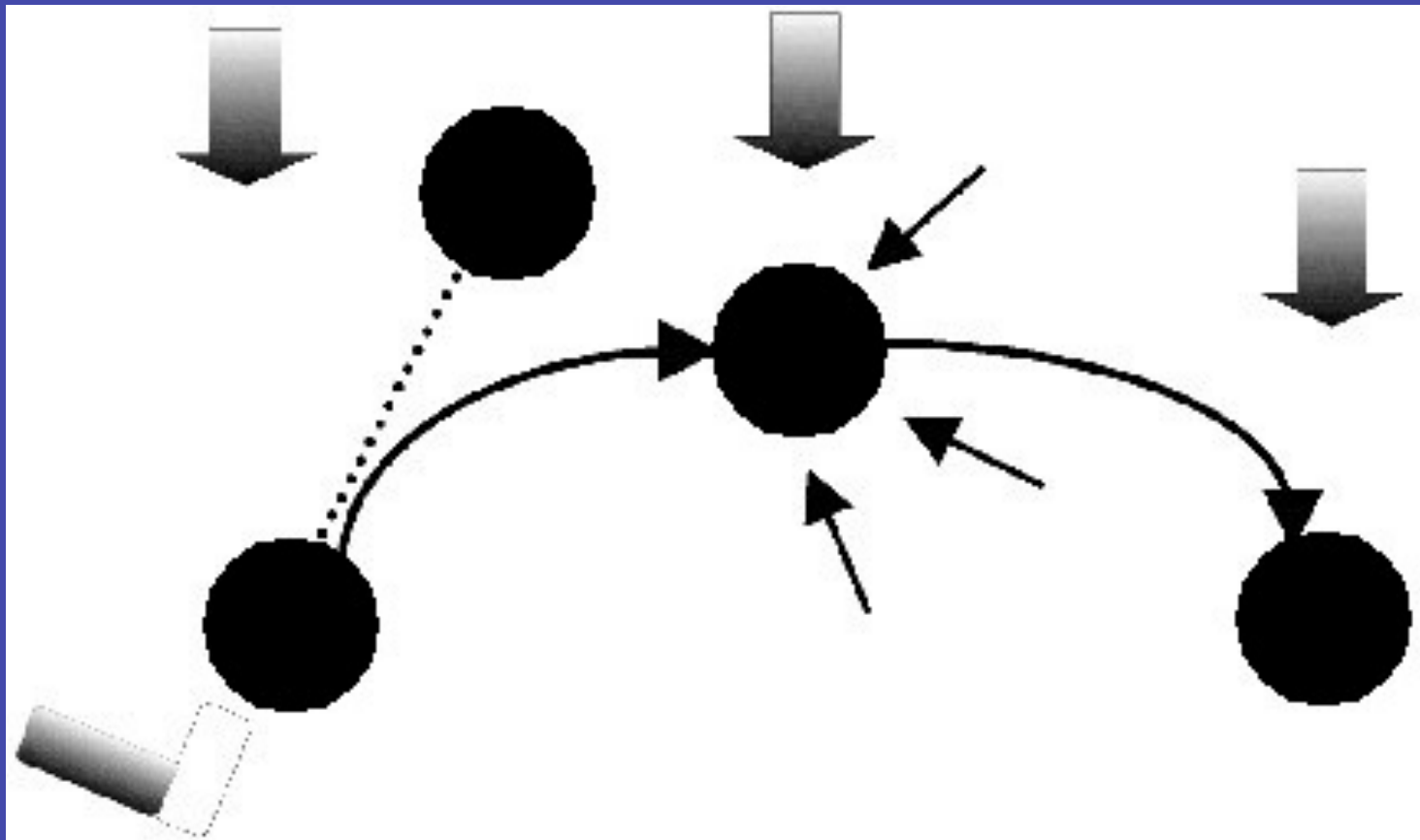
Science-Definition

- (Merriam-Webster) a branch of study concerned with observation and classification of facts, and especially with the establishment of verifiable general laws
- What does that mean?!?!?

Science-Examples

- Gravity
- Ice, Fire
- Wood, Cloth, Metal
- Electricity
- Plants, animals, human beings
- Just about everything in the world!!!

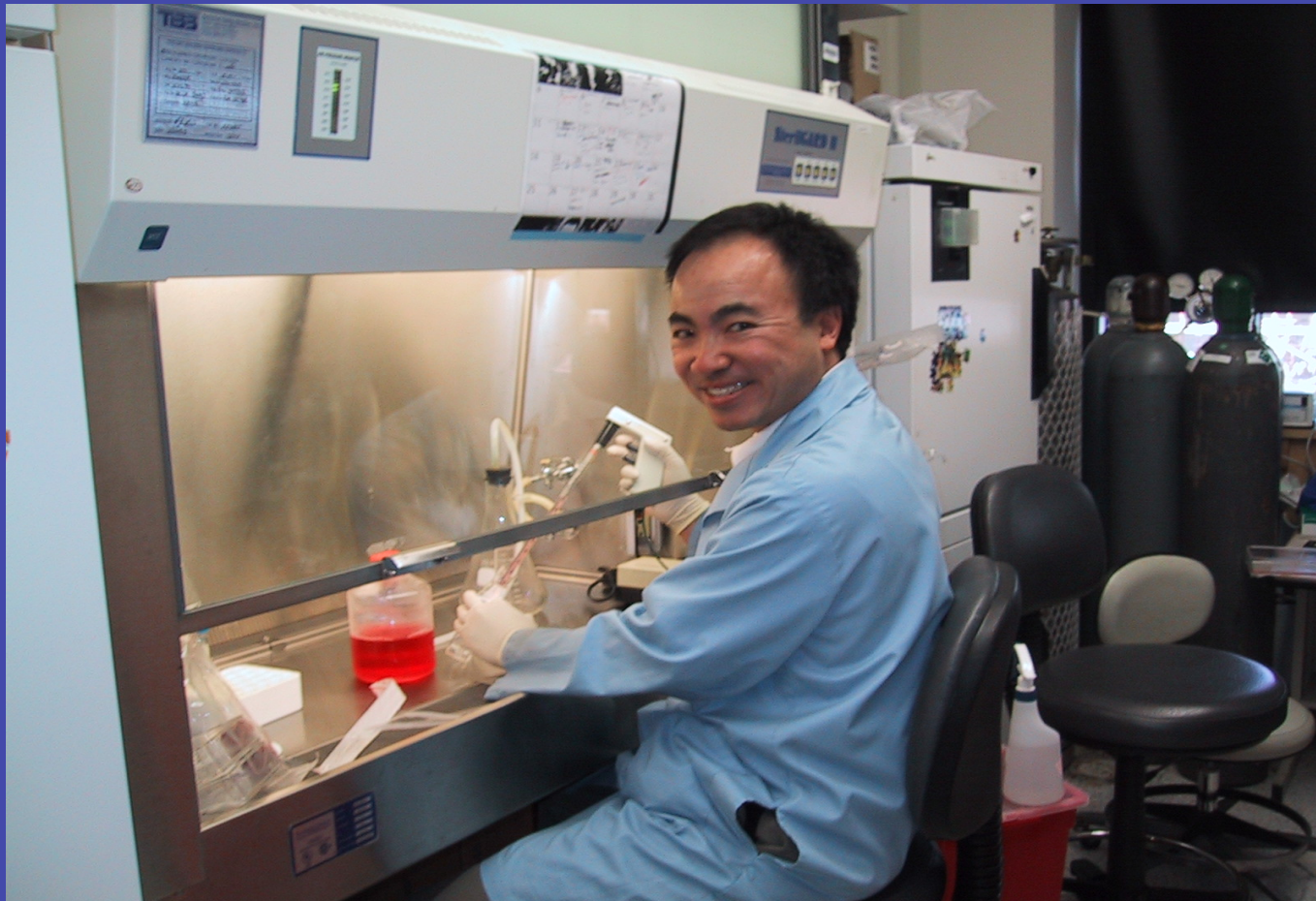
Effect of Gravity



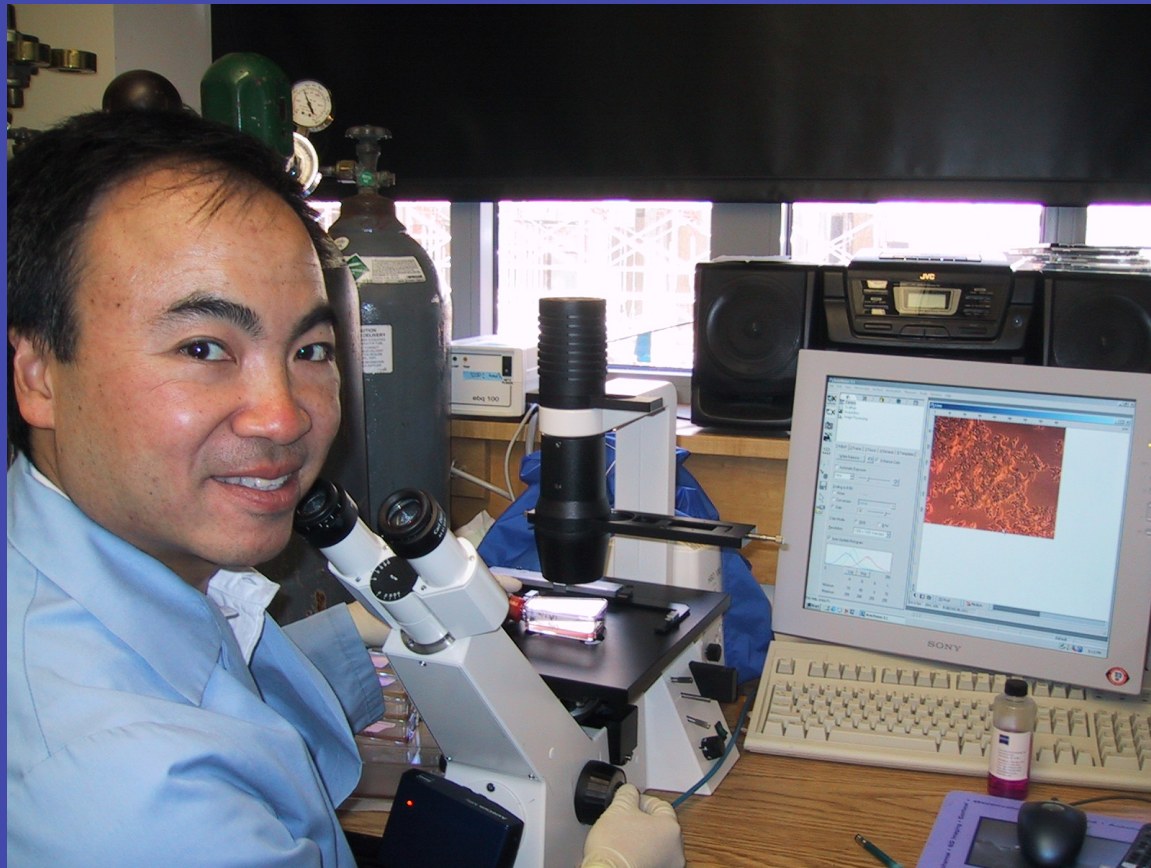
Dr. Wong at the Medical Research Laboratory



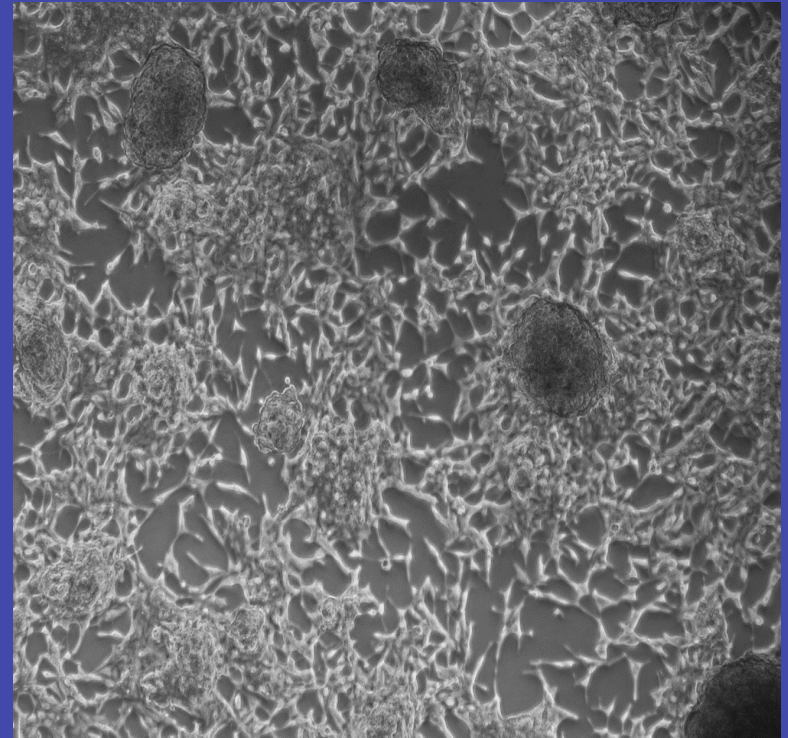
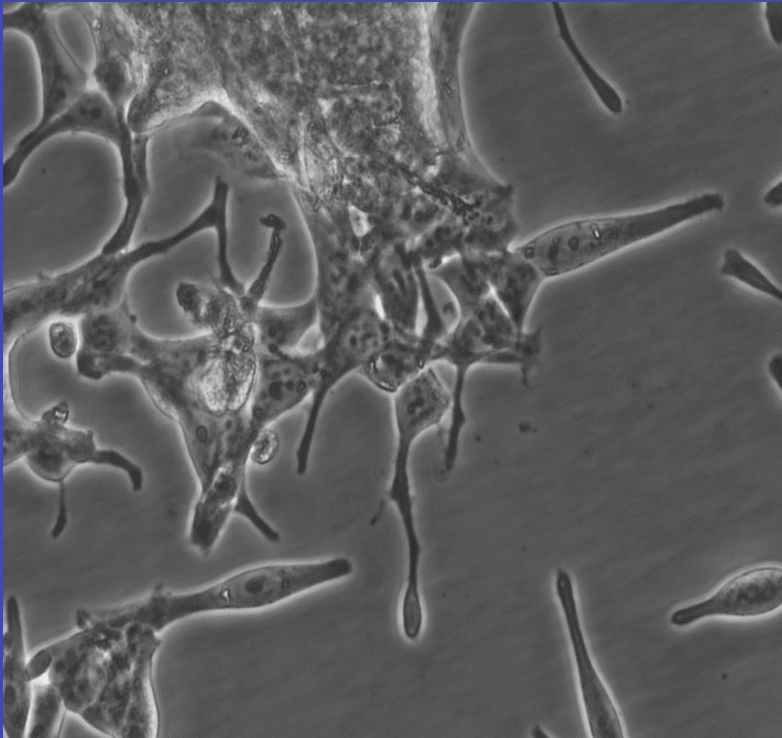
Dr. Wong working with live cancer cells



Dr. Wong using the microscope



What cancer cells look like under the microscope



Cancer Cells growing in a mouse



Why Study Cancer Cells?

- To understand why they become cancer cells.
- To learn differences between all the kinds of cancer.
- To test new treatments before testing in patients.
- To make better treatments.

Dr. Wong at the UCLA Clinic



Sarah's 11 Questions for Dr. Wong

- 1-What did it take to become a doctor?
Ambition, motivation, perseverance.
- 2-How many years of school did it take to become a doctor? *After high school, 9 years for college and medical school for MD degree. To practice specialty, additional 6 years of training.*

Sarah's 11 Questions for Dr. Wong

- 3-Have you ever saved anyone's life? *Yes. A few times.*
- 4-What made you decide to become a doctor? *I actually started my career as a scientist and cancer researcher but wanted to know more about the diseases and how to take care of people.*

Sarah's 11 Questions for Dr. Wong



- 5-What school did you get your degree from? *UCLA*
- 6-What kind of doctor are you? *I am a doctor called an "oncologist" who takes care of people with cancer and I also do cancer research in effort to get better treatments.*

Sarah's 11 Questions for Dr. Wong

- 7-What significant life events got you interested in your field of medicine? *It started in science or basic research at a company where I began working on a medically related treatment. Then I went to UCLA to study breast cancer and decided I needed to know more about the disease and the people it affected.*

Sarah's 11 Questions for Dr. Wong

- 8-What are some of the goals you want to achieve? *To be able to cure people of these bad diseases. Well, if not cure, at least help treat people so they can live longer and better.*
- 9-What was your most interesting project? *The breast cancer project which led to a new treatment. But also, the synthetic fuel project at the genetic engineering company I worked at.*

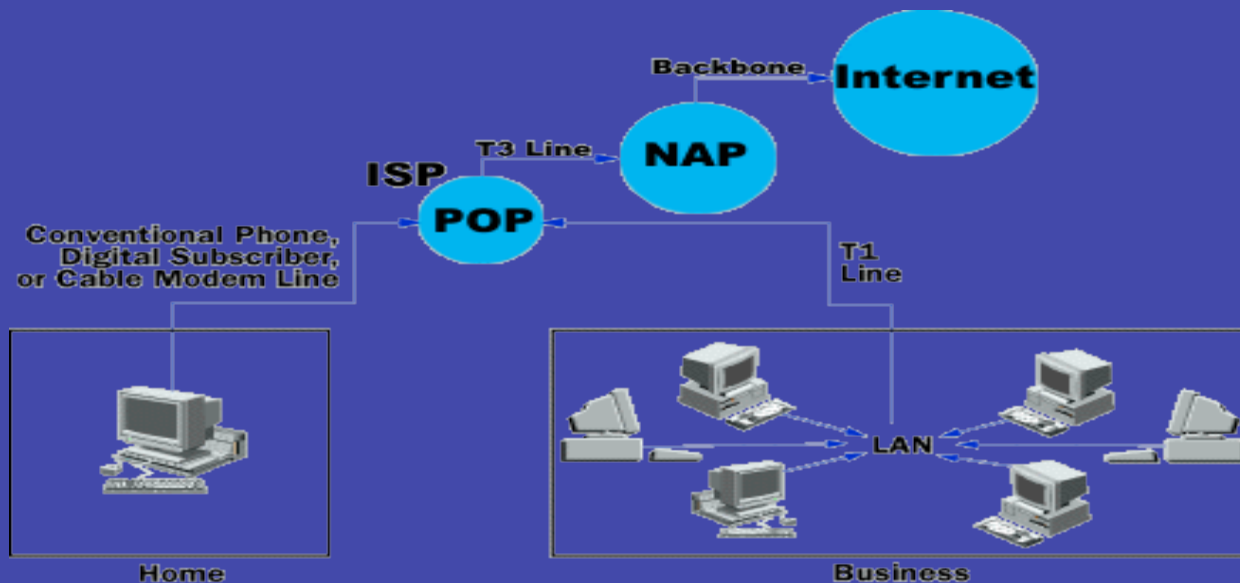
Sarah's 11 Questions for Dr. Wong

- 10-What are three important world events that have occurred during your lifetime? *i. The assassination of John Fitzgerald Kennedy, the 35th president of the United States*



Sarah's 11 Questions for Dr. Wong

- 10-What are the three important world events that have occurred during your lifetime? *ii-the development of the Internet.*



Sarah's 11 Questions for Dr. Wong

- 10-What are the three important world events that have occurred during your lifetime? *iii-9/11/2001*



Sarah's 11 Questions for Dr. Wong

- 11-Do you have any suggestions or advice you would have for anyone interested in pursuing a career in science (or medicine)?
- *Follow your dreams. Work hard. Take science courses. Ask questions!!! Go to college. Education is priceless. Find a mentor or role model at the college you attend. Keep asking questions!!!*

Thank you!!!

