Class core values

- 1. Be **respect**ful to yourself and others
- 2. Be **confident** and believe in yourself
- 3. Always do your **best**
- 4. Be **cooperative**
- 5. Be **creative**
- 6. Have **fun**
- 7. Be **patient** with yourself while you learn
- 8. Don't be shy to **ask "stupid" questions**





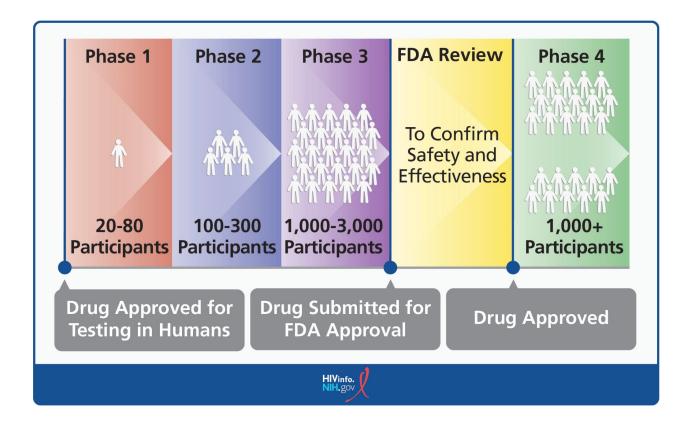


Learning Objectives

- 1. Describe bio-ethical considerations in a start-up
- 2. Understand challenges of starting a company
- 3. Identify areas of opportunity in the field
- 4. Learn about available resources



The who ...





Are we transparent?

The Tuskegee trial



Are we including everyone?

HEALTH NEWS

FDA Issues 'Black Box' Warning on Sleep Aids Like Ambien: What You Need to Know



What will be the side effects?

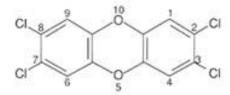
Thalidomide

$$\begin{array}{c}
O & O \\
N & (R)
\end{array}$$

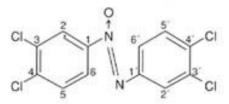
$$\begin{array}{c}
O & O \\
N & (S)
\end{array}$$

What will be the side effects?

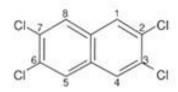
Agent Orange



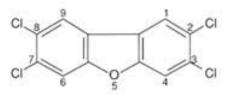
2.3,7,8-Tetrachlorodibenzo-p-dioxin



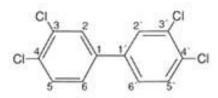
3,3',4,4'-Tetrachloroazoxybenzene



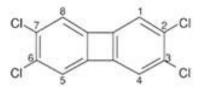
2,3,5,7-Tetrachloronaphthalene



2,3,7,8-Tetrachlorodibenzofuran



3,3',4,4'-Tetrachlorobiphenyl



2,3,5,7-Tetrachlorobiphenylene



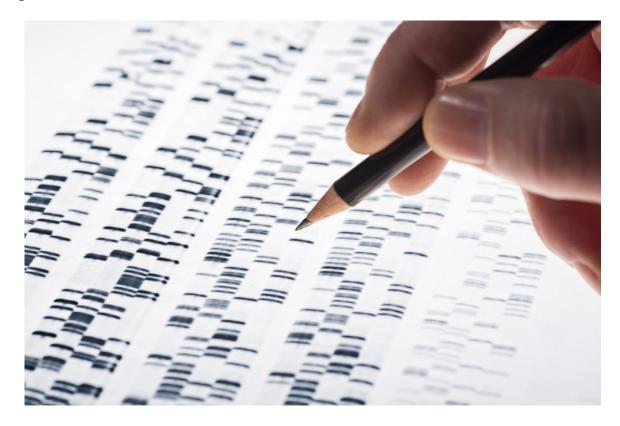
What will be the side effects?





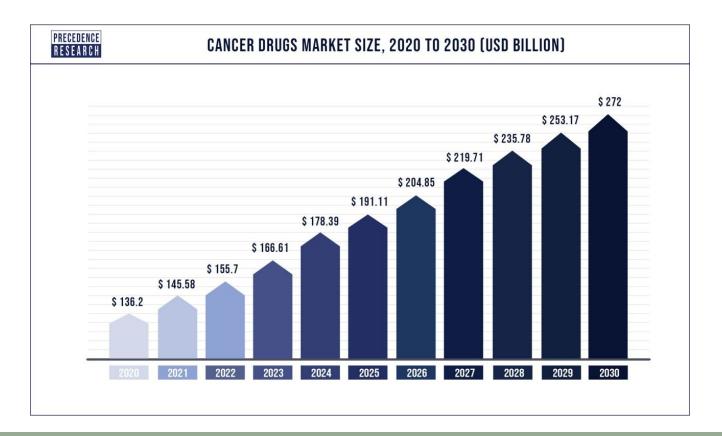


Privacy of data





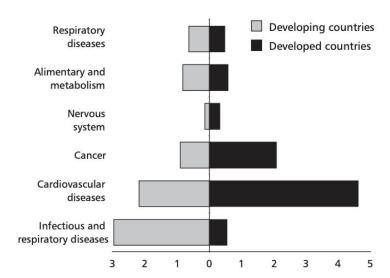
The market





The market

Figure 2 Weighted distribution of deaths caused by major global diseases (deaths per mil of relevant population)²²



The market

Figure 2 Weighted distribution of deaths caused by major global diseases (deaths per mil of relevant population)²²

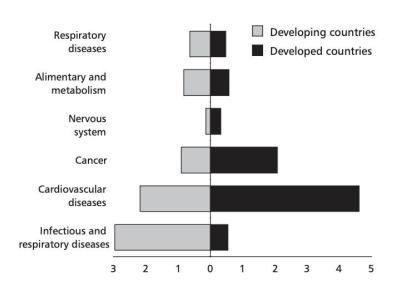
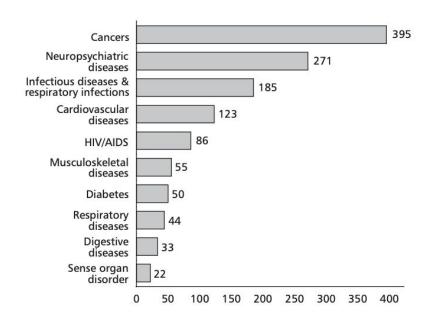
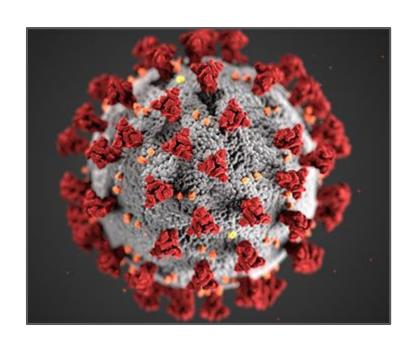


Figure 3 Number of compounds in development by major disease categories²⁴



The dilemma of start-up in biotech





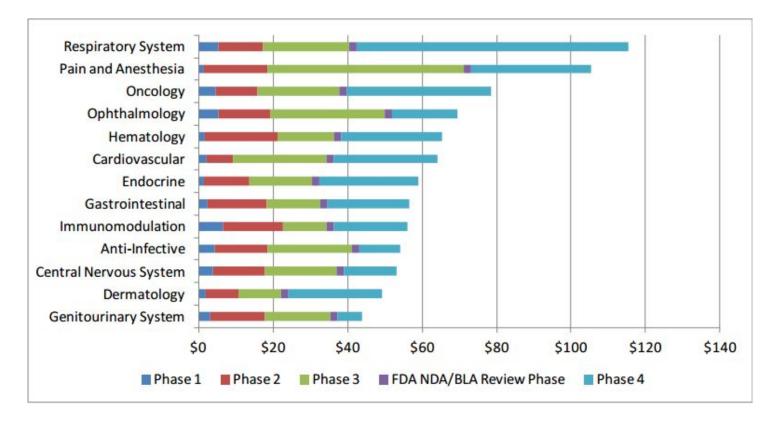
The dilemma of start-up in biotech

OxyContin and the opioid crisis



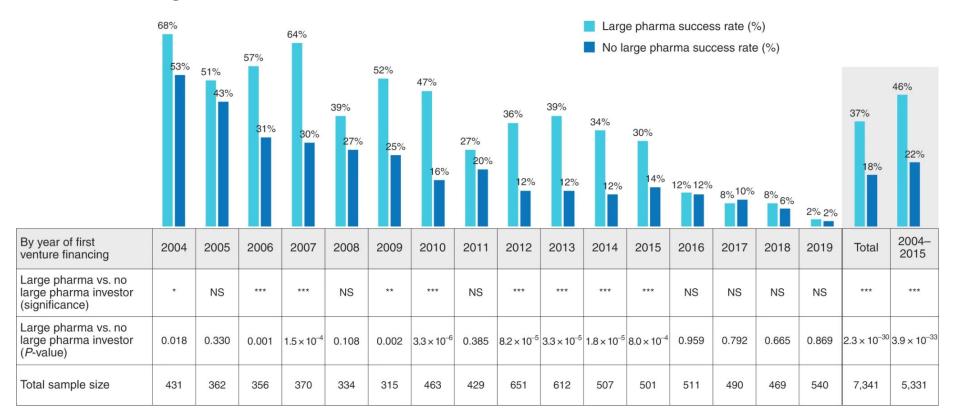


Working under stress



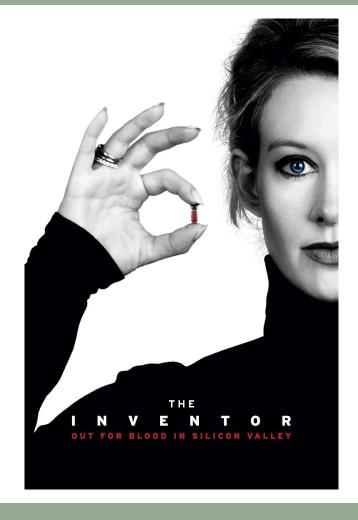


Working under stress





How things can go wrong





Guest speaker Dr. Daniel Adriano Silva





For the next lecture:

- 1. (105) Methods submission
- 2. You'll be assigned your peer reviews



Next lecture: Wrap up

