

Careers In Industry

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Outline

My journey

Reasons to choose industry

Industry vs academia

What does one “do” in industry

Biotech vs big pharma

Observations/Lessons

My journey

- Philippines → NY → Texas
- Baylor University
- University of Texas Medical School
- Univ of Chicago (Int Med residency, Heme/Onc fellowship)
- Univ of Pennsylvania (faculty)
- Stanford (faculty)
- Corvus Pharmaceuticals (VP, Clin Development)
- Tempest Therapeutics (Chief Medical Officer)

Why did I leave academia

- I had accomplished what I wanted to accomplish
- I was restless
- I wanted more of a leadership role
- I didn't want to move
- A great opportunity landed in my lap

***Just because you are good at
something doesn't mean you have to
do it***

Do what excites or fulfills you

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There are multiple ways to be a physician or a scientist

- What do you want?
- Keep an open mind for opportunities that might land in your lap

Reasons to choose a career in pharma

Industry continues to grow



In 2016, worldwide pharmaceutical revenues were over \$1.1 trillion.

Reasons to Choose a Career in Pharma

- Less affected by cyclical ups and downs

Pharmaceutical Industry R&D Investment		
5x higher than aerospace and defense	4.5x higher than chemicals industry	2.5x higher than software and computer industry

- Offers rich opportunities for growth/upward trajectory
- Ability to leverage previous work experience

Why consider a career in industry?

- Make a difference on a macro level
- You can be a part of bring science to the clinic
 - Dont have to secure grant support or generate salary by other means
- You will publish
- Interaction with physicians/scientists around the world
- Interact with health authorities around the world
- Interact with smart colleagues
- Job changing less cumbersome/faster
- It is a noble cause and is **not** the “DARK SIDE”

Industry and academia have common goals

- Conduct groundbreaking research
- Improve quality of life
- Improve survival
- Cure cancer
- Both are noble causes
- Exception: revenue/profit

Industry and academia have different deliverables

- **Academia**

- Research and PUBLISH, PUBLISH, PUBLISH
- Direct patient care
- Education (grad and med students, residents, fellows, etc)
- Research and PUBLISH, PUBLISH, PUBLISH
- Write grants

- **Industry is Drug Development**

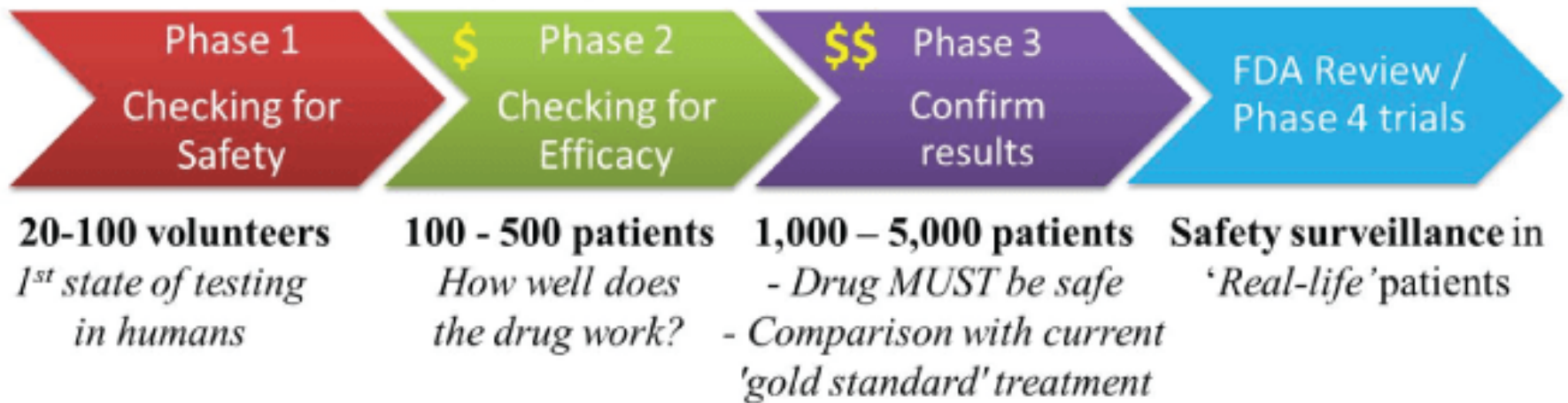
- Research AND development
- Identify a target → develop a new molecule → conduct preclinical studies → conduct clinical studies → **bring it across the “finish line”**

Challenges

- **Drug development is highly regulated and publicly scrutinized**
 - SOPs, SOPs, SOPs....
 - Much more documentation
- **Need to learn to manage up and down**
- **The bottom line is a business bottom line**
 - Doing what is right for patients is best business model
BUT.....decisions not always straight forward and depends on decision maker

Drug development:

from birth to patient to market



What does one “do” in Industry?

- **Broad spectrum of roles (R&D vs clinical)**
 - Scientist (Chemistry, Biology, Engineering)
 - Physician (Clin trials, biomarkers, drug safety)
- **Pipeline work (Early stage)**
 - Partner with scientist to prioritize key targets
 - Work with translational researchers to better understand biology; help select predict prognostic biomarkers
 - Take new molecules thru IND, Phase 1 stage (FIH)

What does one “do” in Industry?

- **Design and implement clinical trials**
 - Collaborative effort with Biostats, Regulatory, data management and Clin Operations
 - Appreciate costs of conducting trials, timelines, regulations, manufacturing implications
- **Late stage development**
 - Conduct “pivotal” trials
 - Typically, phase 3 trial that will lead to registration/approval

Big pharma

Pros

- More resources
- More support
- Stability
- Establish credibility
- One trial failure has less impact

Cons

- Bureaucracy (meetings and more meetings)
- Silos
- More politics

Start up biotech

Pros

- Wear multiple hats
- Learn many functions
- Nimble
- Build something from scratch
- Larger voice
- Potential for large financial reward

Cons

- RISK
- Less resources
- Shorter runway

My observations

- Accountability
- The team vs the individual
- More process driven...lots of SOPs
- Exercise different “muscles”
- Different tools are needed to succeed and thrive

Some of my biggest changes

- No longer knew what was around every corner
- Gave up status as an expert in my field
- It was/is a steep learning curve
- No patient care
- I don't have to work holidays or weekends anymore

Tips for your current and future career

- With any job decision, there should be more of a **PULL** rather than a push
- The perfect job does not exist
- Your first job is rarely your last job
- It is a small world

All told...

- **Working in drug development is highly rewarding**
 - The environment can be academic
 - You can be an integral part of bringing new drugs to the clinic
 - There can be tremendous financial rewards
- **We are all capable of reinventing ourselves**
- **Industry is not going anywhere**
- **We all have the same goal**

This is why we do what we do...



Facts & Figures 2018: Rate of Deaths From Cancer Continues Decline

Cancer mortality drops another 1.7%

