

# Careers In Industry

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# Outline

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My journey

Reasons to choose industry

Industry vs academia

What does one “do” in industry

Biotech vs big pharma

Observations/Lessons

# My journey

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- 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

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- 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

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

***Do what excites or fulfills you***



# There are multiple ways to be a physician or a scientist

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

# Reasons to choose a career in pharma

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## Industry continues to grow



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

# Reasons to Choose a Career in Pharma

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- 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?

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- 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

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

# Industry and academia have different deliverables

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- **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

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- **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?

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- **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?

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- **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

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## 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

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## 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

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- 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

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- 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

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- 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...

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- **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%

