Life After Academic Medicine: Exploring Careers in Biopharma

Panel Discussion

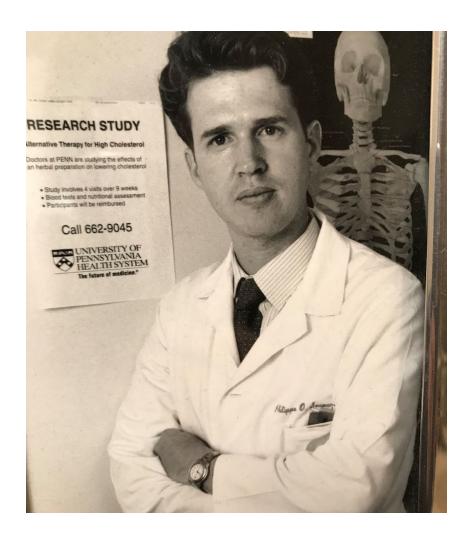
University of Pennsylvania April 16th, 2019



Objectives

- Provide diverse perspectives on scientific career opportunities in the biopharmaceutical industry
- Panel includes physicians and scientists representing:
 - Discovery
 - Translational Medicine
 - Biomarkers
 - Late Development
- Panel will briefly tell you their stories
- Panel mostly here to answer your questions

My Background



- Medical School at University of Chicago
- Residency in Internal Medicine at UCSF
- Assistant Professor on CE track at Penn 1997 - 2005

Important Steps along the Way

- Clinician Educator in DGIM at 9 Penn Tower Internist
- Connected with research mentors
- Got K-23 award & started MSCE





- Wrote grants & papers & saw patients in lipid clinic
- Worked in early development CV/Metabolism at Wyeth
- Worked at Centocor/J&J in late development Immunology



 Now working in Lung Cancer Initiative focused on prevention, early detection and cure of early stage disease

Johnson Johnson innovation

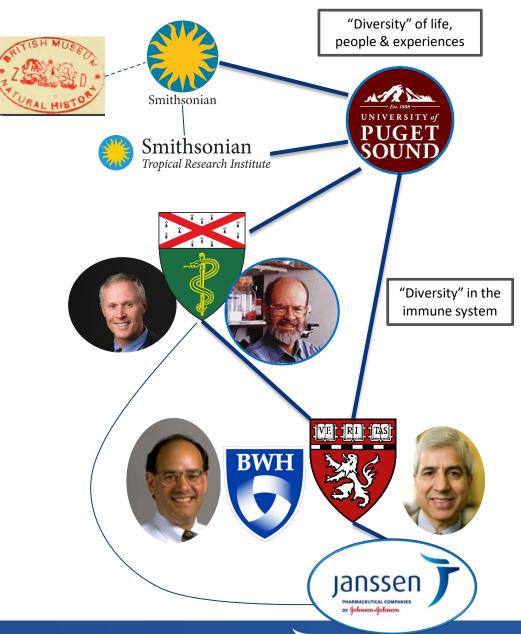
Navin Rao, PhD Senior Scientific Director (Simple Biologist) Immunology Discovery



My Career "Path"



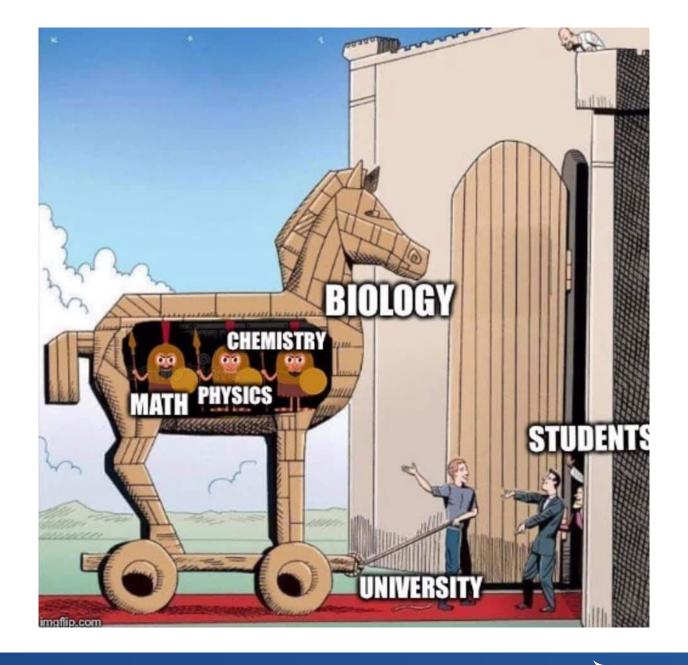
- Cladistics, Smithsonian
- Undergraduate Evolutionary
 Biology, University of Puget Sound
- Introduced to Immunology at Yale
- Ph.D. in Immunology, Harvard University
- Post-doc Janssen, La Jolla, CA
- Scientist Janssen R&D, La Jolla CA and now Springhouse, PA

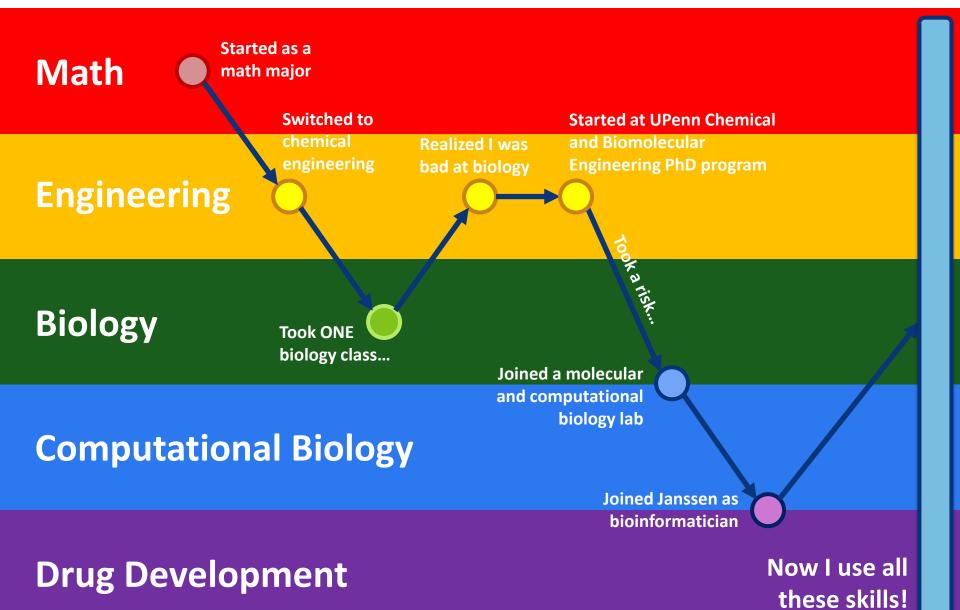




Cal Monast, PhD Associate Director Immunology Biomarkers







Janssen | PHARMACEUTICAL COMPANIES of Johnson

Cal's Group at Janssen: Early GI Biomarkers

- Develop computational and molecular tools to study drug mechanism of action in early clinical studies
 - Does the drug reach the target tissue?
 - Does the drug engage the target?
 - Does target engagement affect the intended biological pathway?
- Multi-disciplinary group: computational biologists and molecular biologists
- Why?
 - Kill programs before running large clinical studies
 - Help choose a dose for future studies
 - Predict which patient populations might respond best



Esi Lamousé, MD, PhD















College of Physicians and Surgeons









Key Takeaways

- Network with people outside of your current field
- Identify multiple mentors willing to guide you
- Follow scientific & health care trends: read & listen
- Be open to new ideas
- Get comfortable working in uncertain environments