



MOLECULE TO PATIENT

ASCPT 2019 ANNUAL MEETING







Transitioning from Big Pharma to a Start-Up: Opportunities and Challenges

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Presentation Overview

- Roles for Clinical Pharmacologist within a start-up/early-stage biotech
- Experience that Clinical Pharmacologists can bring from a large company
- Opportunities and challenges at a start-up/early-stage biotech
- Critical points to evaluate at a (start-up/early-stage biotech) company
- Making the jump When? Why? How? Who/What?

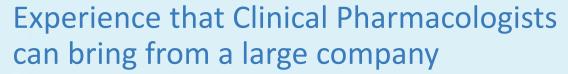


Roles for Clinical Pharmacologist within a start-up/early-stage biotech



- Depends on one's experience, expertise, willingness to grow,
- At large companies, Clinical Pharmacologist can gain experience in
 - Early and Late Clinical Development and Regulatory
 - Different Therapeutic Areas and modalities (eg, biologics, small molecules, ...)
 - Project leadership and management
- At start-up/early-stage companies, roles could expand to include
 - Clinical Pharmacology (study designs, PKPD, DDIs, formulation strategies, ...)
 - Biomarkers, Bioanalytical, CMC, DMPK, Preclinical Safety, Regulatory,
 - Leading project teams and/or management
 - Contribute to building a new company







- "Real-world" drug development know how
- Complex problem solving
- Sound decision making
- Effective collaborations
- Prior experience in building new technical areas/teams is helpful



Opportunities and challenges at a start-up/early-stage biotech



- Opportunities
 - Contribute in a much broader way to a drug development effort
 - Participate in building a new company
 - Expand your expertise beyond Clinical Pharmacology
 - Apply what you have learned from your previous experiences
- Challenges
 - Focus critical that the company has a clear a focus and vision and priorities
 - Organization need to put in place foundational organization and get it right the first time
 - Managing growth people and projects







THE TIME IS RIGHT

SCIENTIFIC DRIVERS:

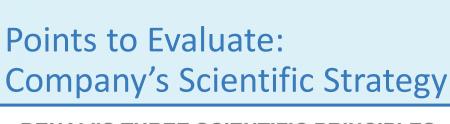
- Science breaking open
 - Human genetics informing Degenogenes
- Crossing the BBB within reach
- Biomarkers informing drug development

BUSINESS PRINCIPLES:

- Learning from oncology
- The right team and approach









DENALI'S THREE SCIENTIFIC PRINCIPLES

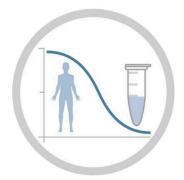
Mining Genetic Pathway Potential



Engineering Brain Delivery



Biomarker-Driven Development



RIGOROUS APPROACH FOR INCREASED PROBABILITY OF SUCCESS



Points to Evaluate: Company's Business Strategy (18 months; 5 years; 10 years)



DENALI BUSINESS PRINCIPLES

Portfolio Approach



- Broad portfolio of programs
- Core and Seed prioritization
- Novel targets in validation

Parallel Investments

Example: LRRK2 program

Molecule	Phase	Status
DNL201		
DNL151		Ph1 HV

- Back-up molecules for all programs
- · Pick best molecules for Ph2/3

Strategic Partnering





- Strong network of partners in industry and academia
- Share cost and risk



Points to Evaluate: Board of Directors, Leadership, Team

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THE DENALI TEAM

SCIENTISTS AND DRUG DEVELOPERS





BOARD OF DIRECTORS





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GRAIL



RYAN J. WATTS, PHD - CEO

- Previously built and led Genentech's neuroscience strategy. portfolio and research department
- · Stanford University, PhD Biological Sciences

ALEXANDER SCHUTH, MD - COO

- · Formerly head of Genentech's BD groups for neuroscience and discovery technologies
- · Previously Merrill Lynch ECM (London)
- · Charite Medical School (Berlin) MD, Wharton MBA

CAROLE HO, MD - CMO

- Formerly VP Early Clinical Development at Genentech
- Previously Medical Director at J&J and clinical neurologist at
- · Cornell Medical School, MD; Neurology Residency, Harvard

STEVE KROGNES - CFO

- · Formerly CFO Genentech and Head of M&A Roche
- · Previously Goldman Sachs and McKinsey
- · Harvard Business School MBA. Wharton



- · Formerly VP and Global Head of Technical Development Project & Portfolio Management, Genentech/Roche
- · Stanford University, PhD Chemical Engineering



















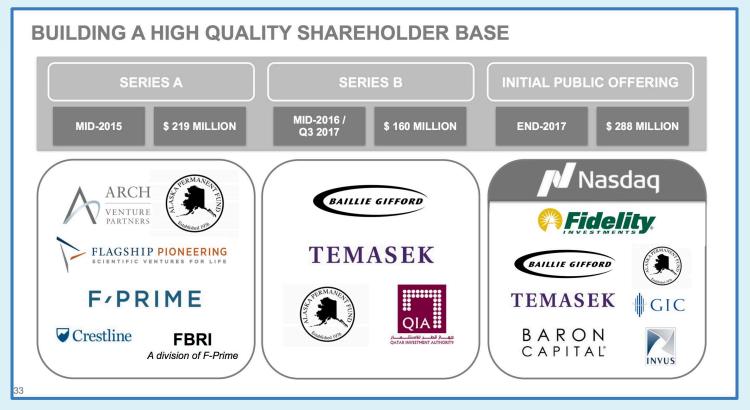


Stanford



Points to Evaluate: Finances and Finance Strategy







Making the jump Why? Who/What? When? How?



 At some point in the future, you may want to consider a move from a large organization to a start-up of a small company

- Recommend thinking carefully about
 - Why?
 - Who/What?
 - When?
 - How?



Acknowledgements



- My colleagues and mentors at
 - Denali Therapeutics
 - Start-up in 2015 => early-stage company in 2018
 - Genentech
 - Large biotech
 - ALZA => Johnson & Johnson
 - Mid-size company acquired by a big pharma