

IIII frequency bio

Creation of Biotech Companies



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Agenda:

How does one create a biotech company?

- Basics of drug development
- Funding stages
- Types of company creation
- Origination of idea
- Intellectual property
- Evaluating and discharging risk
- Case study: Amylon



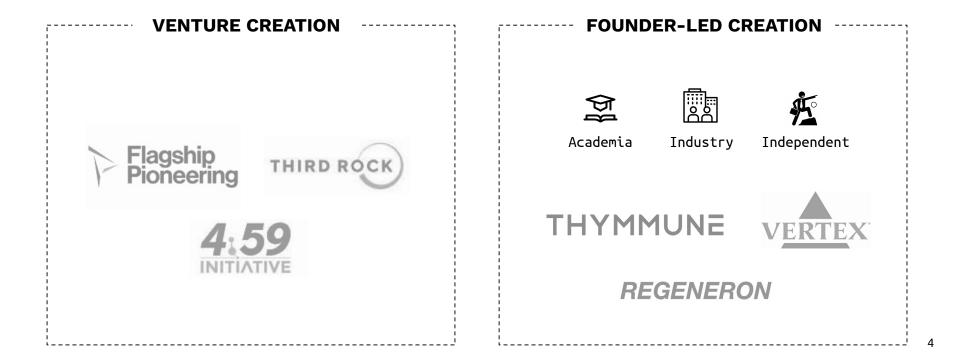
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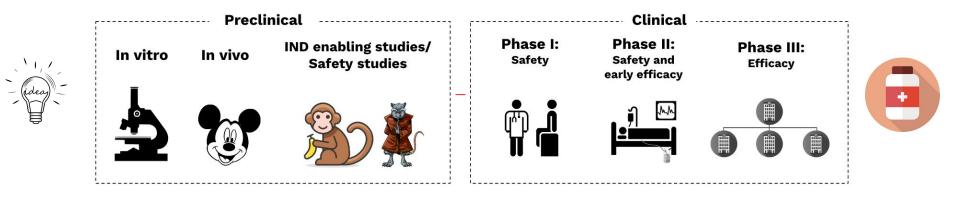
2 types of company creation





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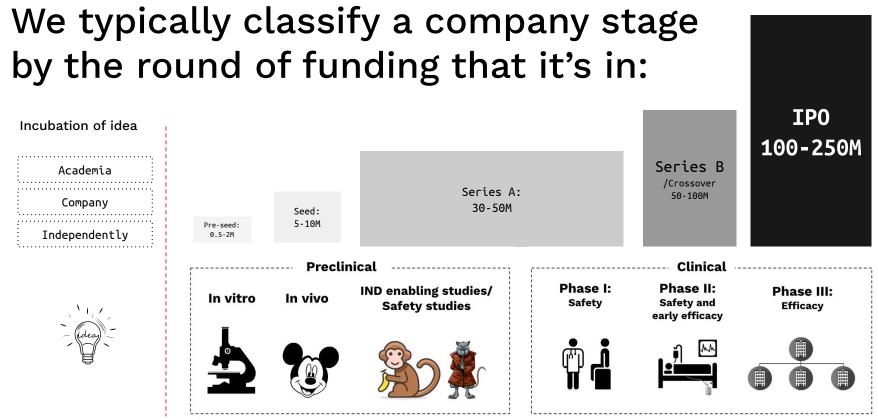
The basics of drug development:



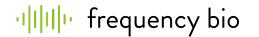


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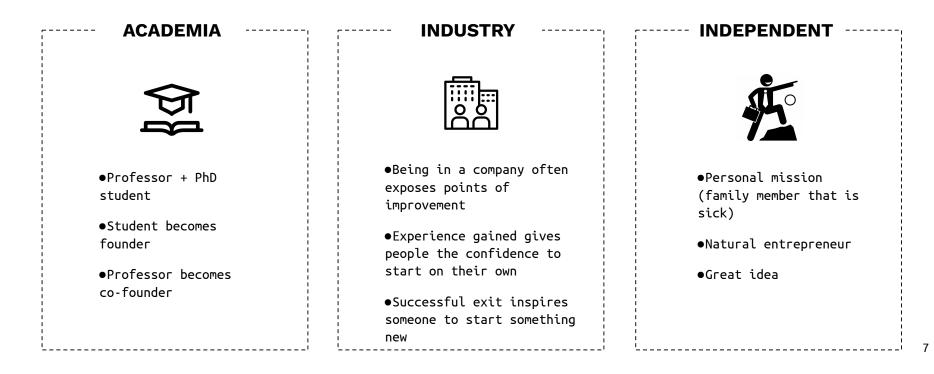


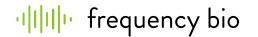
Company creation



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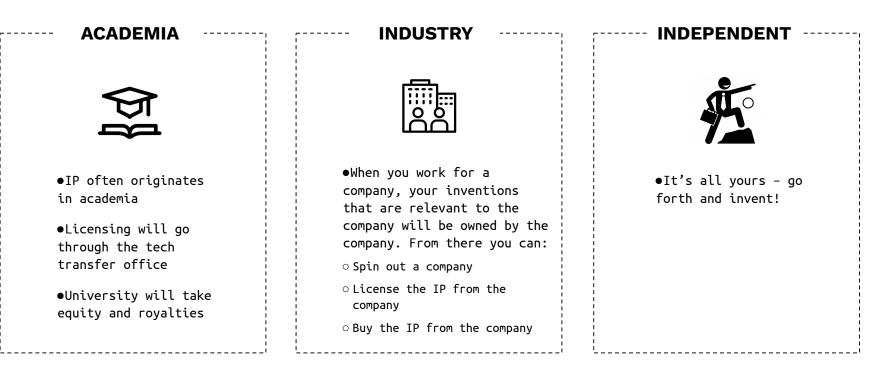
Origination of idea





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Intellectual Property



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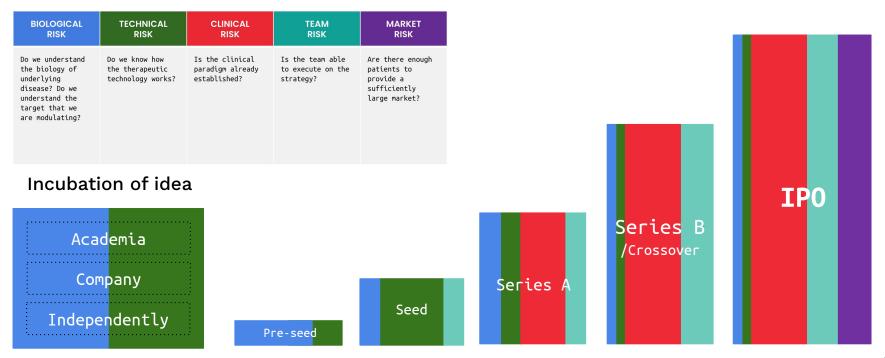
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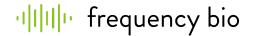
How do we create value? Discharging risk

BIOLOGICAL	TECHNICAL	CLINICAL	TEAM	MARKET
RISK	RISK	RISK	RISK	RISK
Do we understand the biology of underlying disease? Do we understand the target that we are modulating?	Do we know how the therapeutic technology works?	Is the clinical paradigm already established?	Is the team able to execute on the strategy?	Are there enough patients to provide a sufficiently large market?



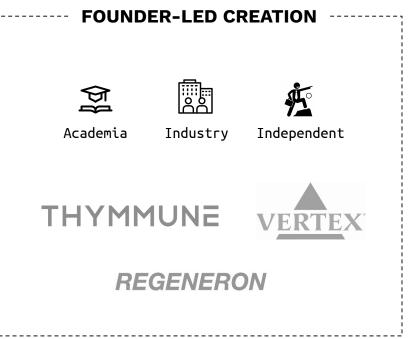
Drug development is all about discharging risk:

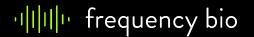




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2 types of company creation

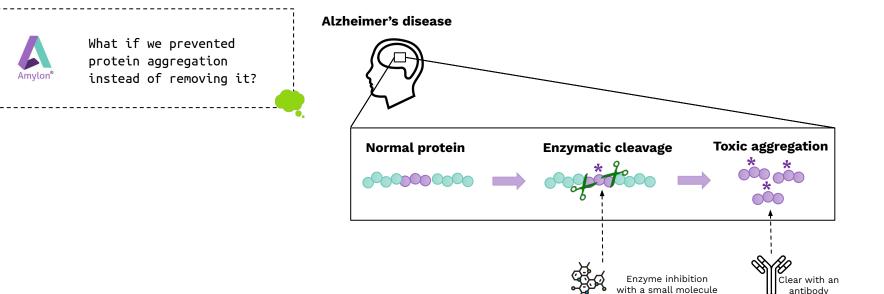


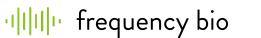


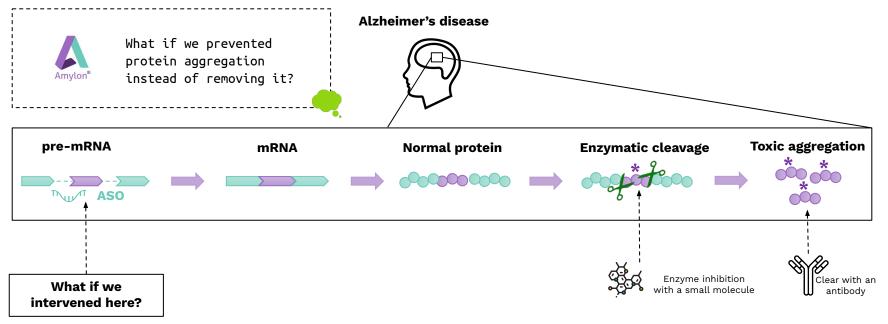
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Amylon Case study: Amylon

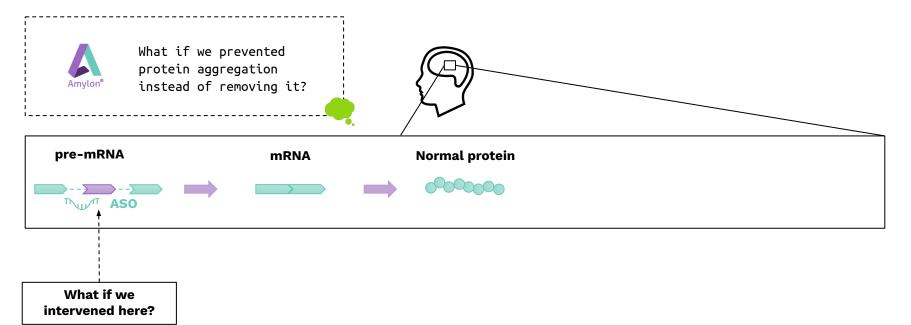














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Origination of idea



INDUSTRY

•Credibility that came with being part of a public company





Innovation lead CNS May 2015 - Sep 2017 · 2 yrs 5 mos

Research Intern 0 Dec 2014 - May 2015 · 6 mos





Amylon Therapeutics Sep 2017 - May 2022 · 4 yrs 9 mos Leiden, the Netherlands



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Intellectual Property



INDUSTRY

•When you work for a company, your inventions that are relevant to the company will be owned by the company. From there you can: • Spin out a company

 \circ License the IP from the company

 \circ Buy the IP from the company

ProQR®	
Antisense oligonucleotides for use in treating alzheimer's disease	
Abstract	
Theinvention relates to oligonucleotides suitable for use in treating human disease. More in particular the inventionrelates to antisense oligonucleotides suitable for the treatment of Alzheimer's disease.	
Inventor: Thomas Petrus Gerardus DE VLAAM, Tsinatkeab	
Tadesse HAILU, Zhana KARNEVA	
Worldwide applications	
2016 - US WO CA EP NZ AU 2022 - AU	
Application PCT/EP2016/074814 events ③	
2016-10-14 • Application filed by Progr Therapeutics Ii B.V.	
2016-10-14 • Priority to CA3000046A	
2017-04-20 • Publication of W02017064308A1	



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between
PROQR THERAPEUTICS II B.V.
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as Licensee

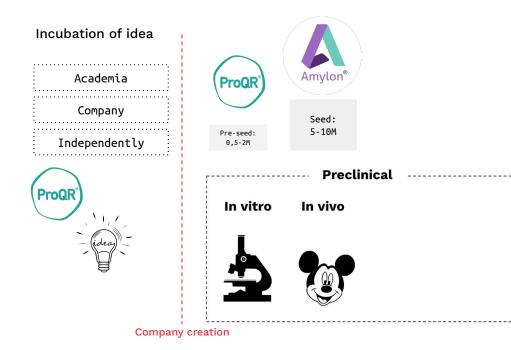
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Company creation



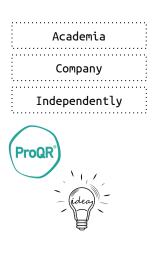
What are the deliverables for each round of funding?



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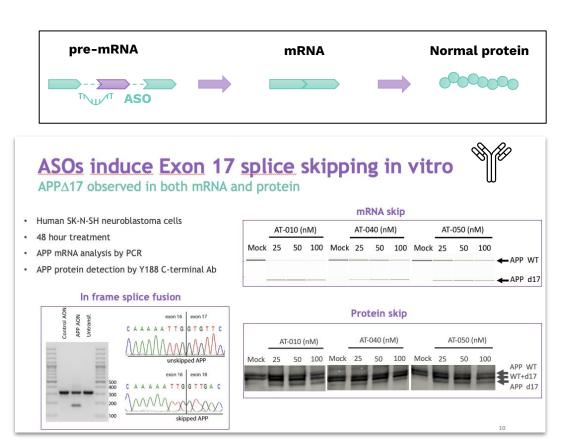
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Pre-seed deliverable:



Incubation of idea





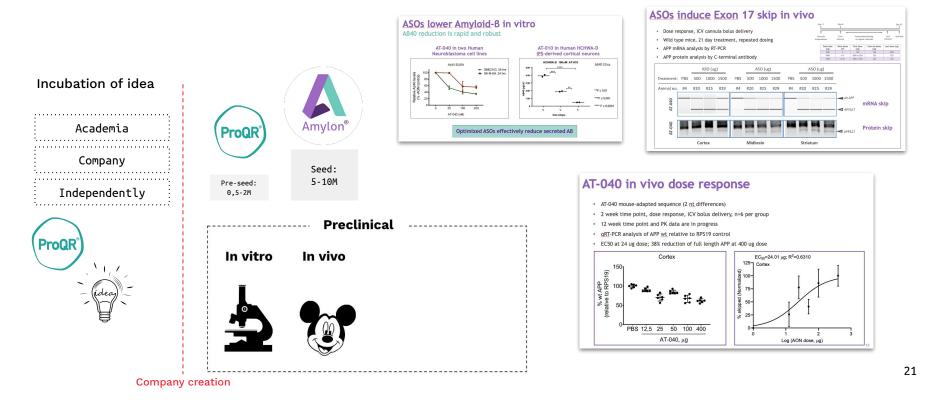
Company creation

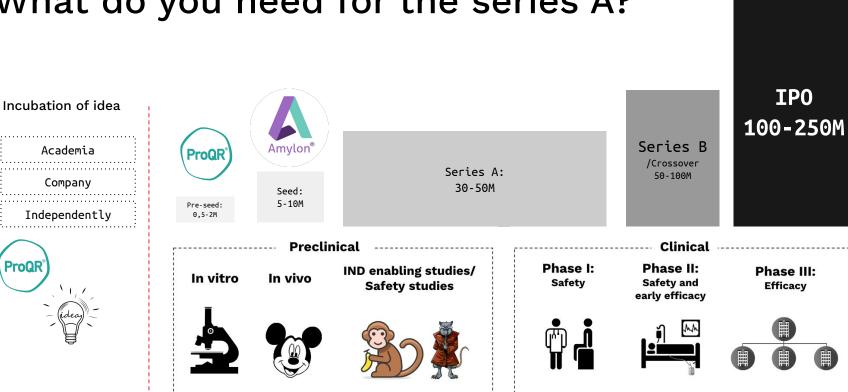
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Seed deliverable:



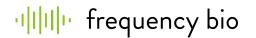


What do you need for the series A?

Company creation

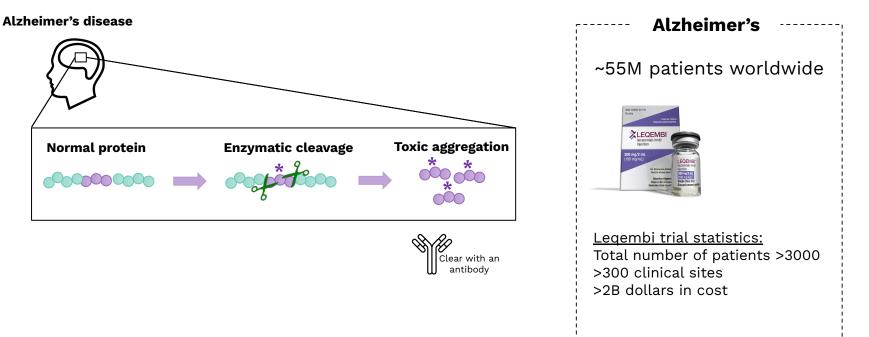
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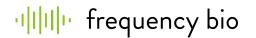
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Development strategy

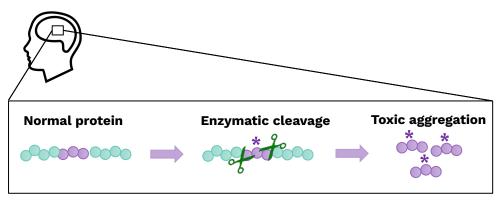


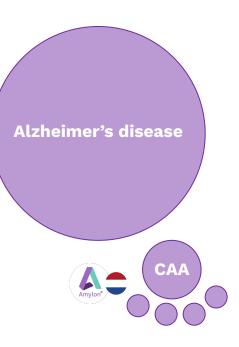


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Development strategy

Alzheimer's disease

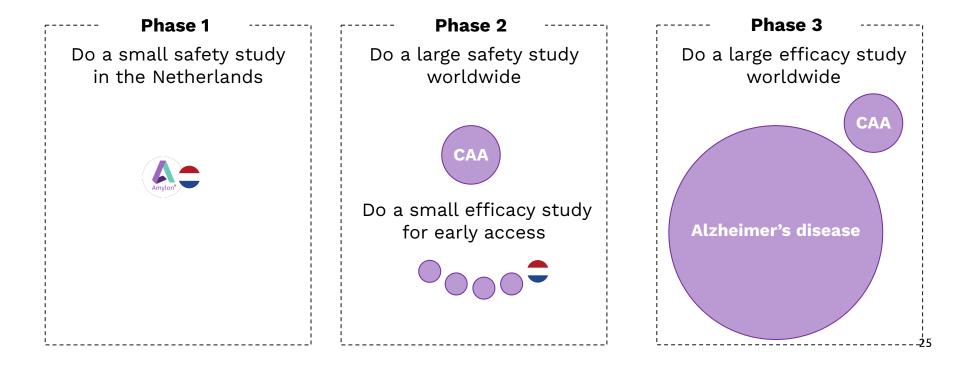






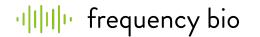
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Development strategy



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Company creation



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2 types of company creation





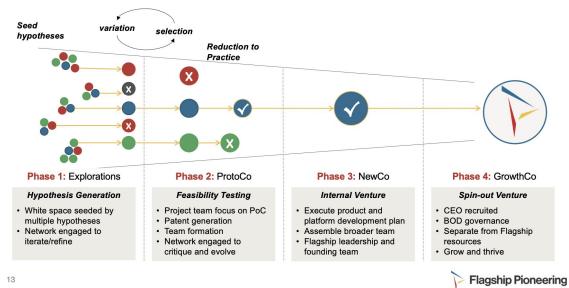
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How does venture creation work?

Venture creation

- You come up with **your own** ideas
- Academics can be co-founders but not always
- Focus on **moonshot** ideas
- You are often in charge of a wide range of things
 - "responsible for developing the science, business strategy, and intellectual property behind new platform companies."
- Companies are funded internally; no need to fundraise in early stages

Our process of institutionalized entrepreneurship



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Venture creation vs Founder-led

Venture creation

Pros:

- Capital
- Infrastructure
- Support system
- Brand/reputation
- Less risk
- Flexibility

Cons

- You lack:
 - Autonomy
 - Control
 - Culture
- More subject to trends and markets
- Seclusion

<u>Founder-led</u>

Pros:

- Autonomy
- Control
- Culture
- You don't need credibility/reputation/track record

Cons

- You have to:
 - Raise capital
 - Build infrastructure
 - Build support system
- Harder to change directions
- More uncertainty

Tony Kulesa @kulesatony

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The biotech startup ecosystem is dominated by a culture that requires every executive team to have done it before. Many companies are even created by VCs internally. But a new model is emerging -- the founderled biotech. Why I think this is the future:

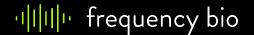
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The future of biotech is founder-led | Tony Kulesa | Pillar VC Ideas, technology, and investment capital are no longer the scarcest resources; the limiting reagent is founders. We can change that.





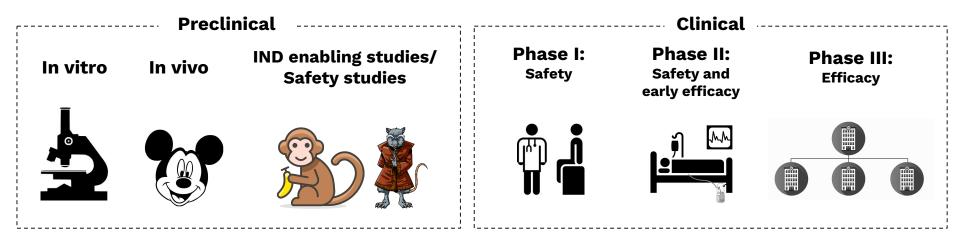
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End for questions



The basics of drug development:

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We typically classify a company stage by the round of funding that it's in:

Incubation of idea

 Academia
 Series B

 Company
 Pre-seed

 Independently
 Pre-seed

IP0