



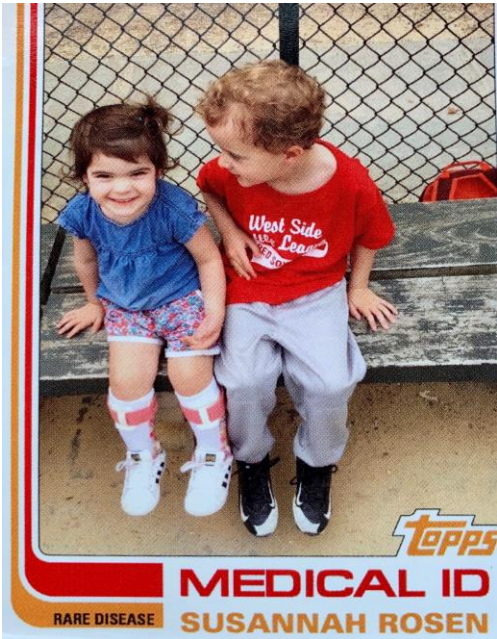
Let's Talk Therapeutics: How Urgency & Collaboration Lead to Therapeutic Strategies

Speaker: Hans Christinger, Ovid Therapeutics

August 17, 2019

Visit kif1a.org/2019Conference to watch a recording of this presentation.





A vertical blue DNA double helix graphic runs along the left side of the slide.

Agenda

- What is biotechnology?
- What does a biotechnology company do?
- Urgent collaboration

What is a Biotechnology?

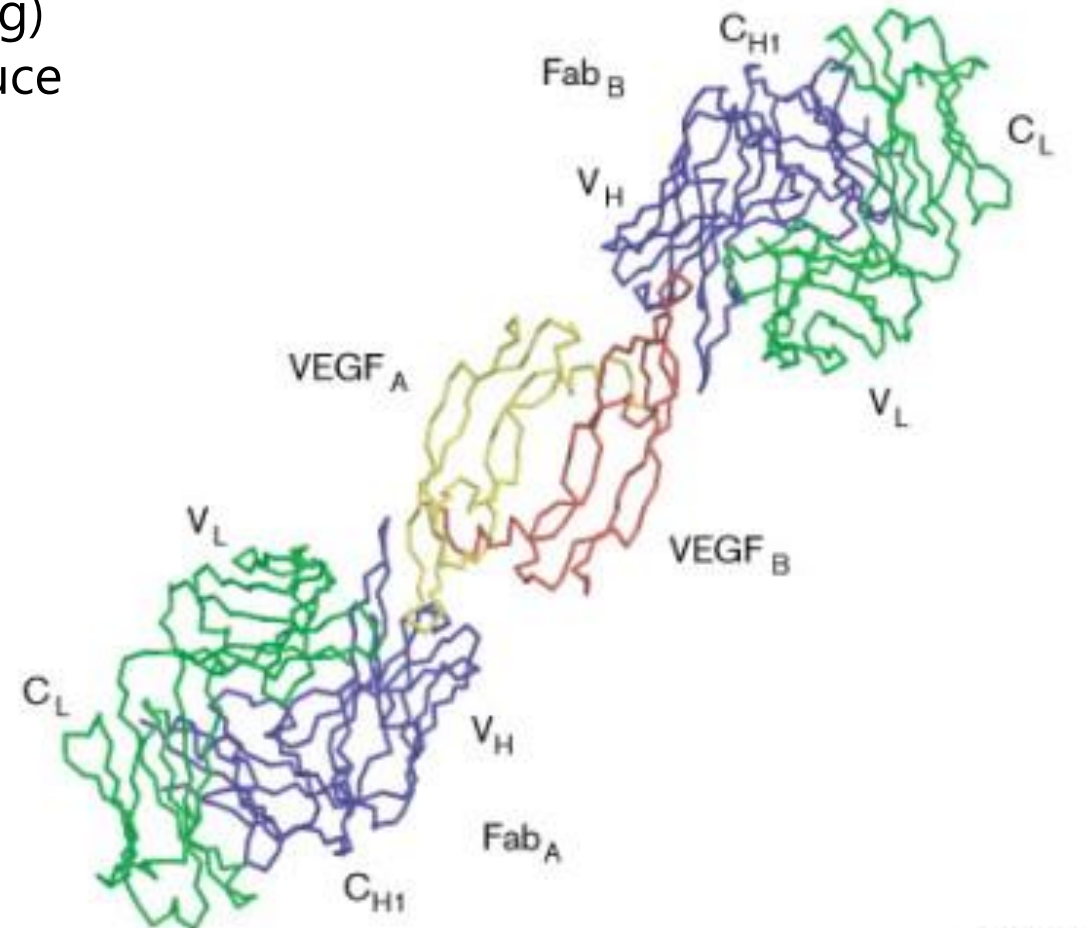
Definition of *biotechnology* (Merriam Webster)

1: the manipulation (as through genetic engineering) of living organisms or their components to produce useful usually commercial products (such as pest resistant crops, new bacterial strains, or novel pharmaceuticals)

also : any of various applications of biological science used in such manipulation

Innovation in Science & Medical Application

The manipulation (as through genetic engineering) of living organisms or their components to produce useful usually commercial products



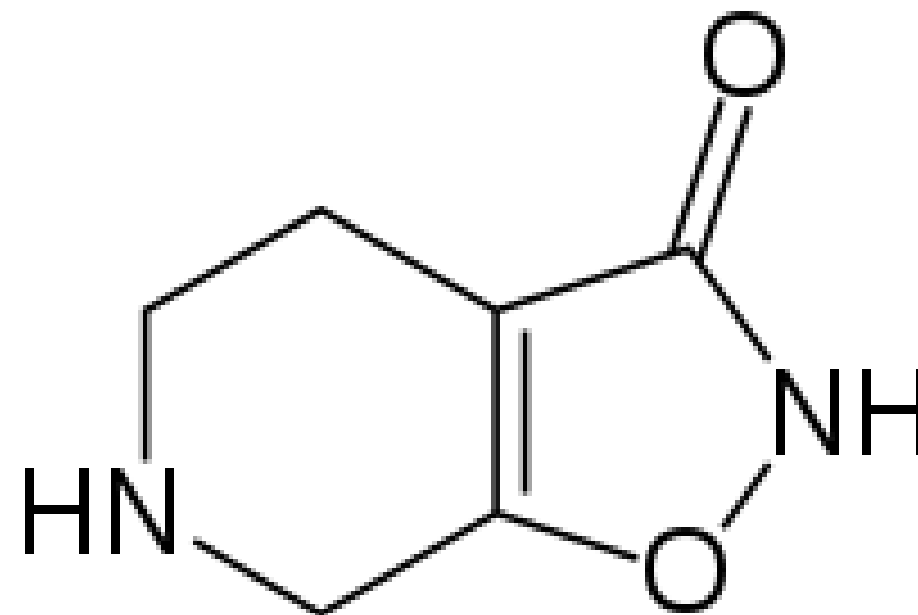
Structure

Innovation in Science & Medical Application

also : any of various applications of biological science used in such manipulation

New understanding of specific receptors & their importance in the brain

New understanding of what is meaningful change in syndromes and how to measure change in clinical trials



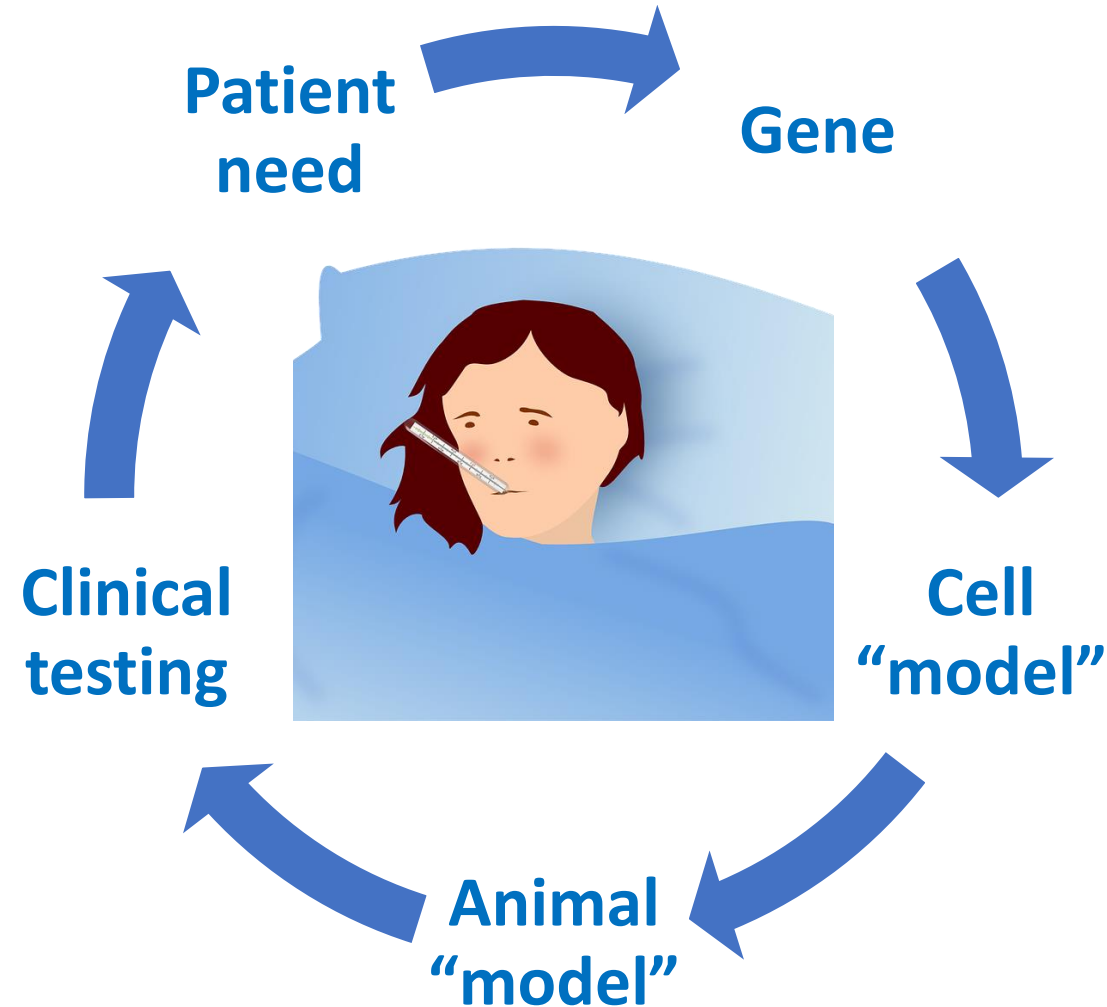
What Were the Rules & Regulations for Developing “Biotechnology” Medicines in 1976?

There were none!

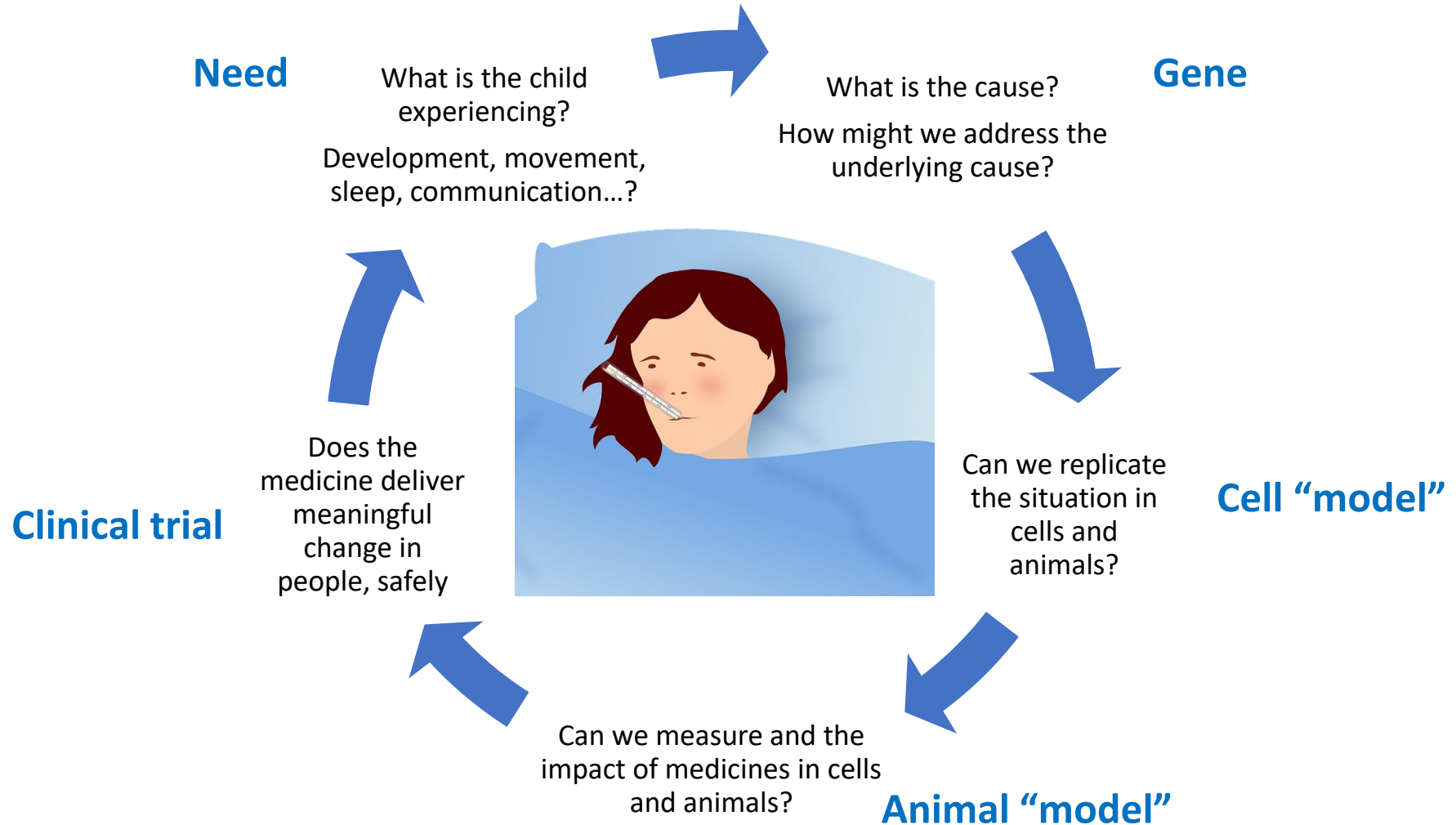
Biotech companies, regulatory agencies,
physicians, and the community
came together and figured it out

What Does A Biotechnology Company Do?

Our Purpose is to Improve Care Through Meaningful Medicines



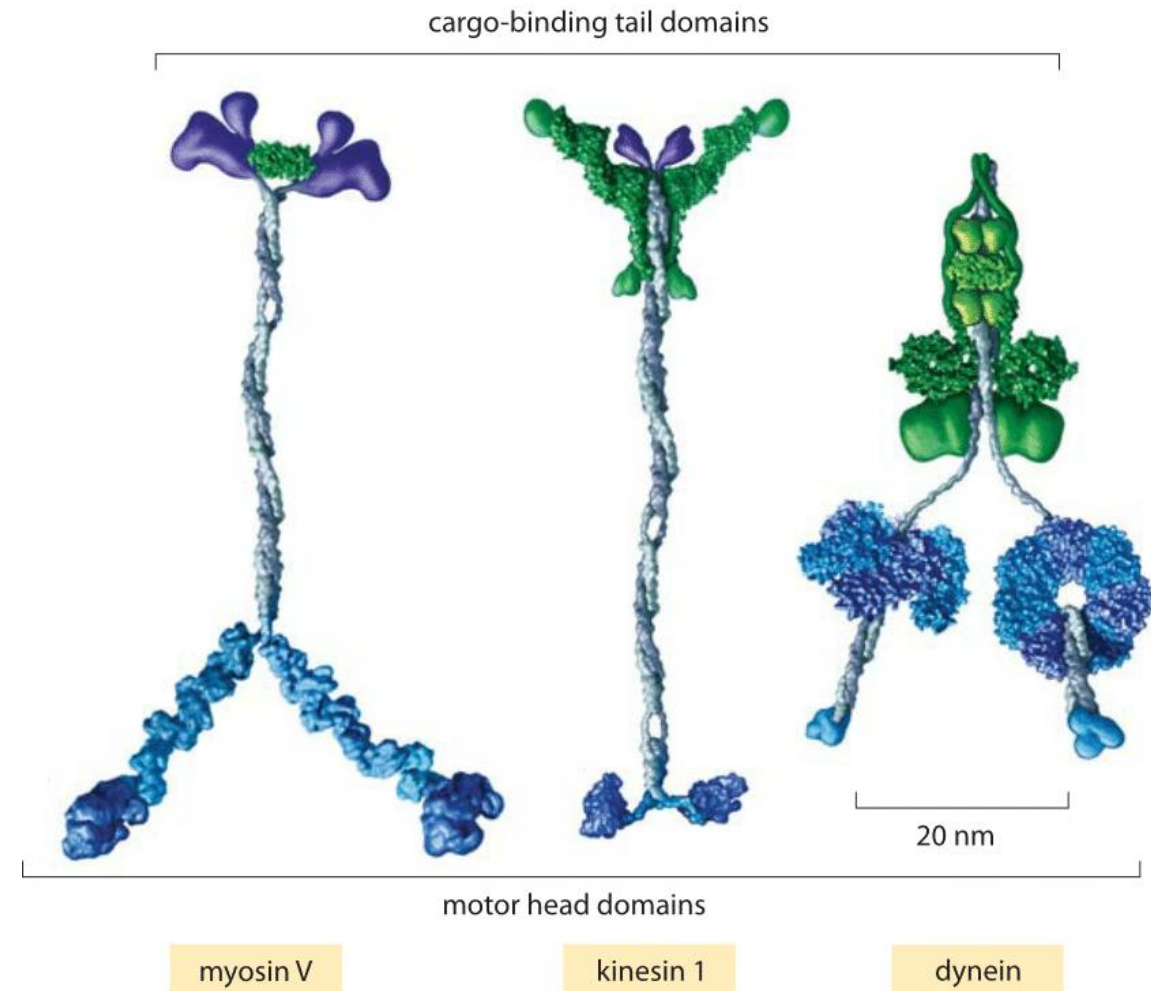
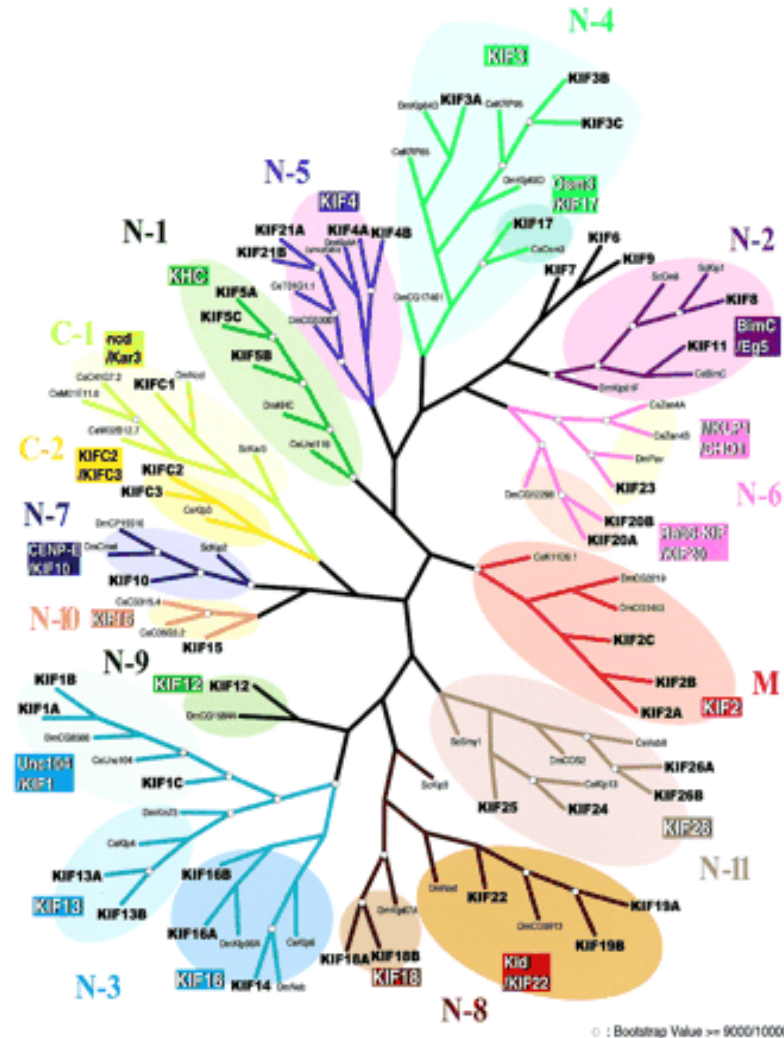
Understand as Much as Possible About A Patient's Experience



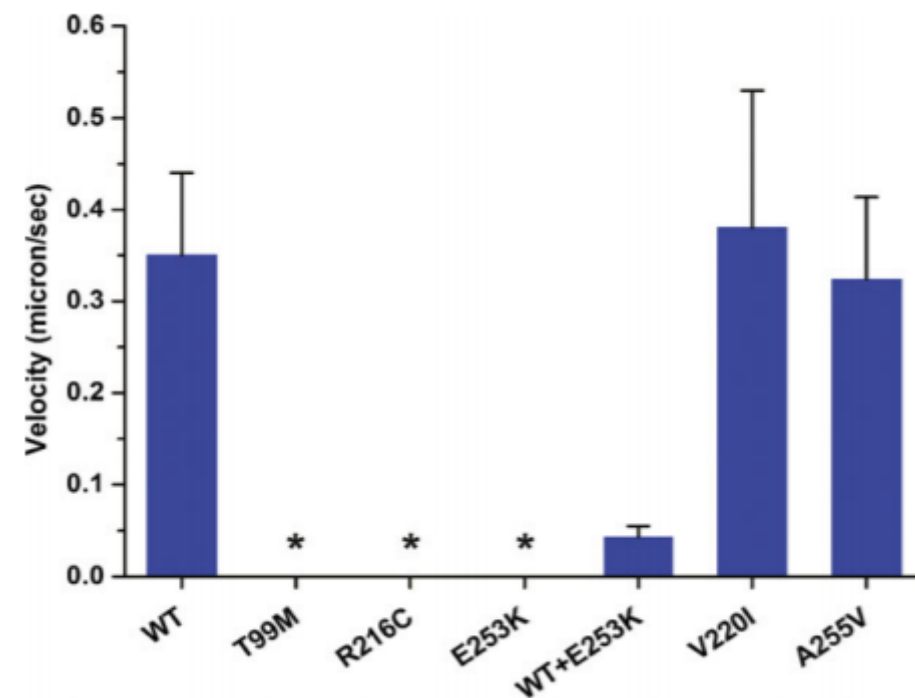
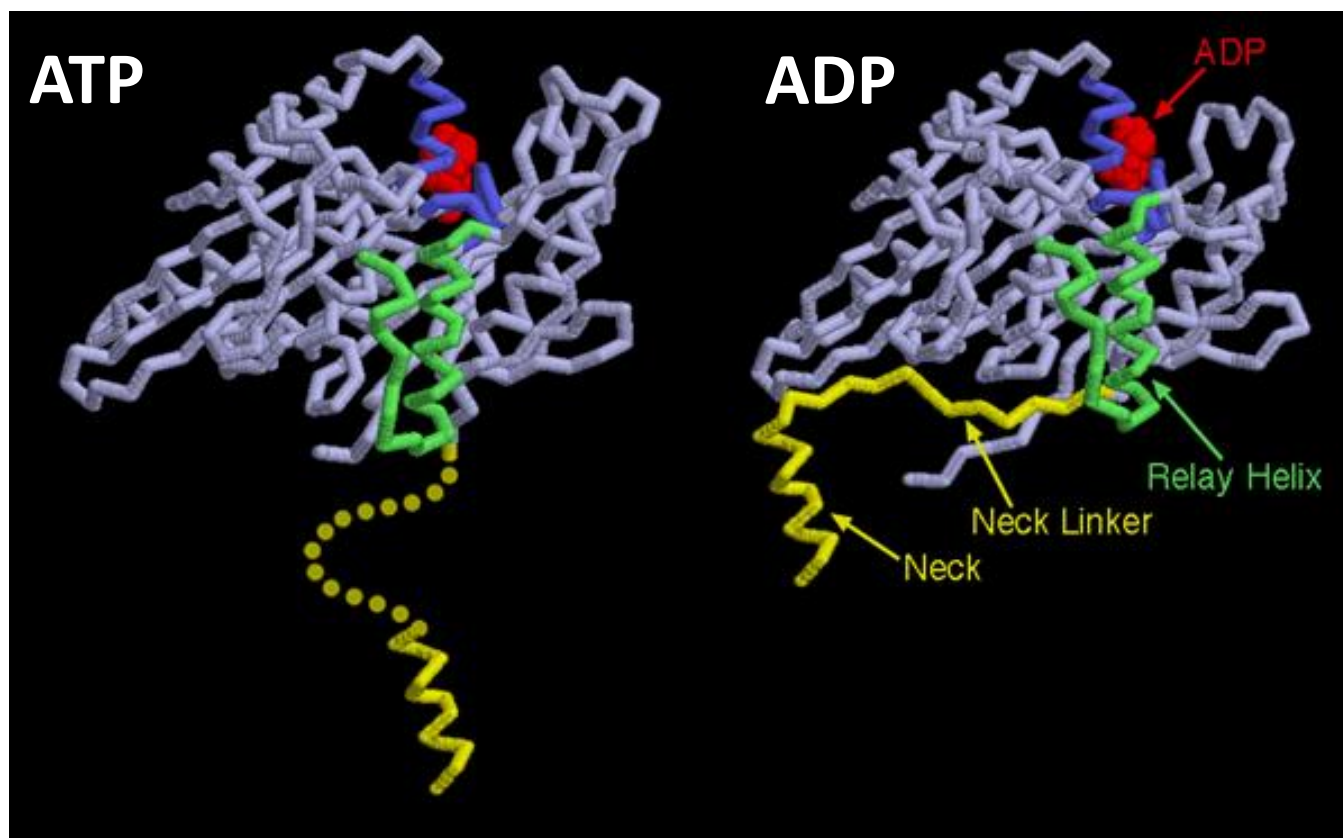
A Community - We Bring Together the Best Resources and Minds to Help Create a Medicine – Ovid Example



Learn from Research into Similar Genes / Proteins, to Expedite Development of a Medicine



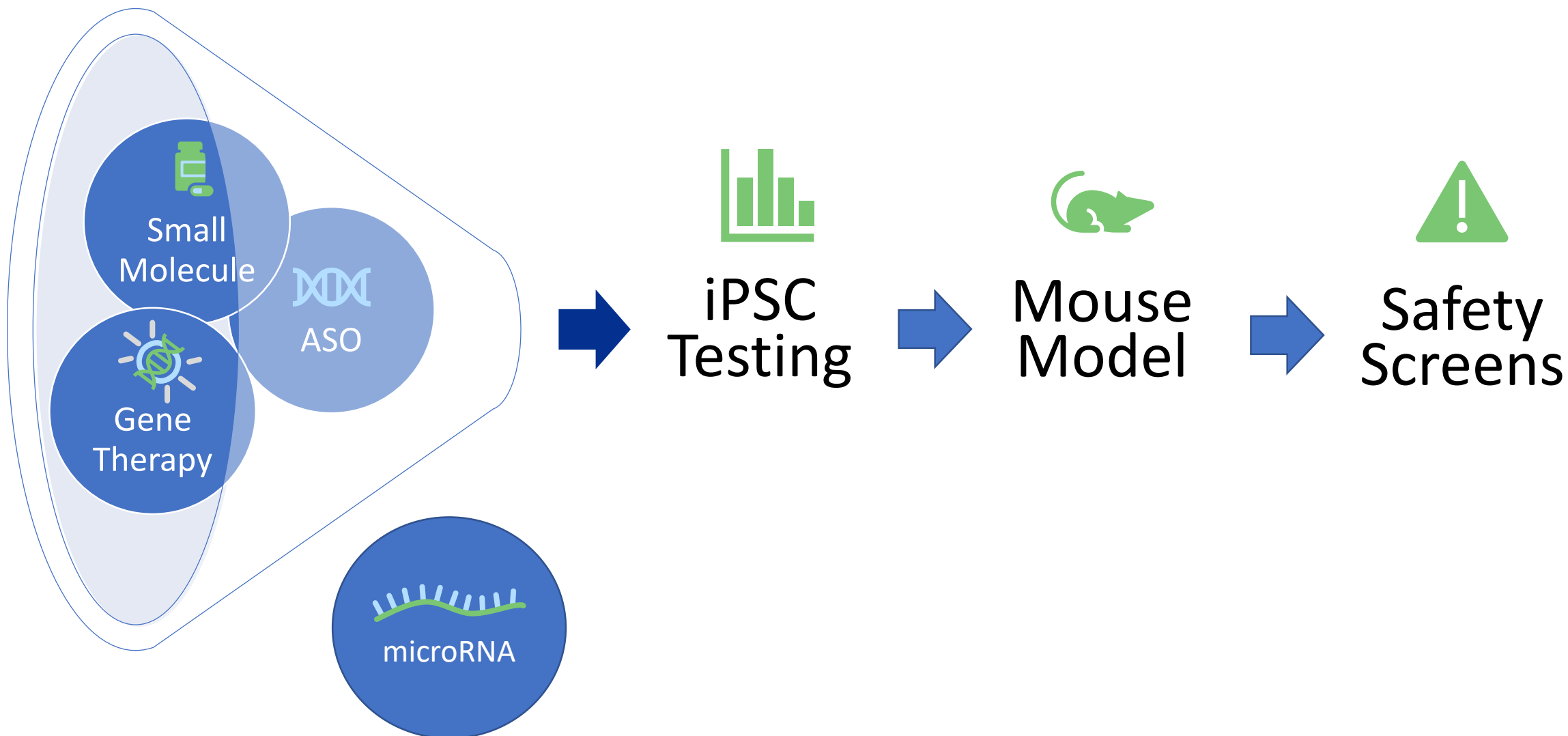
Understand Normal and Atypical Function to Inform Strategies for the Development of Medicines



Approaches to Develop a Medicine

- Replace gene
- Knock down gene
- Modulate KIF1A activities and interactions
- Modulate pathway and compensate for KIF1A

Screen Options to Find a Potential Medicine



Urgent Development Path to a Medicine

