## **Elements of Successful Product Development for Rare Disease**

- Patient/Family Advocacy
  - Awareness
  - Funding
  - Helping establish
    - Investigative network
      - Basic Science
      - Clinical
    - Industry partner(s)
    - Regulatory partnership
  - DEFINING THE CONDITION
    - NATURAL HISTORY
    - PATIENT-CENTRIC OUTCOMES

## **Translational Science**

- Genomics
- Pathogenesis
- Model systems
  - Animal models
  - Cell-based models
- Defining/validating a "drug-able" target
  - Reagent discovery
  - Drug development (including formulation across age spectrum)
- Validating/qualifying biomarkers
- Defining/Validating clinical outcomes
  - The more patient centric, the more likely to yield
    - Meaningful clinical trials
    - Ultimate adherence to therapy