# 2<sup>nd</sup> annual GpGx retreat



# Thank you!



## Integrate and elevate



ITIGIS

Translational Medicine

**Discovery** 

**Preclinical Development** 

Late Development

Internal

**External** 

Internal

**External** 

Internal

**External** 

Innovation Hubs



#### **Translational Medicine (TM)**

- Genetics & Pharmacogenomics (GpGx)
- Translational Biomarkers (tBio)
- Translational Pharmacology (tPharm)

Translational Medicine



# Translational Medicine

- Select targets based on causal human biology
- Develop biomarkers of target modulation
- Test therapeutic hypotheses safely and efficiently

### Genetics & Pharmacogenomics

- Advance targets anchored in human genetics
- Discover novel biomarkers using genomics
- Apply genetics and genomics in clinical trials

### Translational Biomarkers

- Develop and qualify novel biomarkers for (discovery & clinical)
- Deploy biomarkers to inform pipeline decisions
- Develop and deploy companion diagnostic tests

### Translational Pharmacology

- Discover novel targets and biomarkers to start new programs
- Conduct early clinical development trials to test therapeutic hypotheses
- Support late development programs through filing & approval



Causal Human Biology Which targets, when perturbed, have a desired effect on <a href="https://www.numan.com/human.com

Target Modulation Assays

How can we safely test therapeutic hypotheses in <a href="https://humans.com/humans">humans</a> as quickly and efficiently as possible?

Proof-of-concept Clinical Trials

Phase II-III Clinical Trials

**Prediction:** We will increase the success rate in late stage development by several fold



### **Future Innovation**



