2nd annual GpGx retreat
Thank you!
Integrate and elevate
Translational Medicine (TM)

- Genetics & Pharmacogenomics (GpGx)
- Translational Biomarkers (tBio)
- Translational Pharmacology (tPharm)
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
How can we safely test therapeutic hypotheses in *humans* as quickly and efficiently as possible?

**Causal Human Biology**

Which targets, when perturbed, have a desired effect on *human* physiology?

**Target Modulation Assays**

Which biomarkers measure therapeutic modulation in a *human* system?

**Proof-of-concept Clinical Trials**

How can we safely test therapeutic hypotheses in *humans* as quickly and efficiently as possible?

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