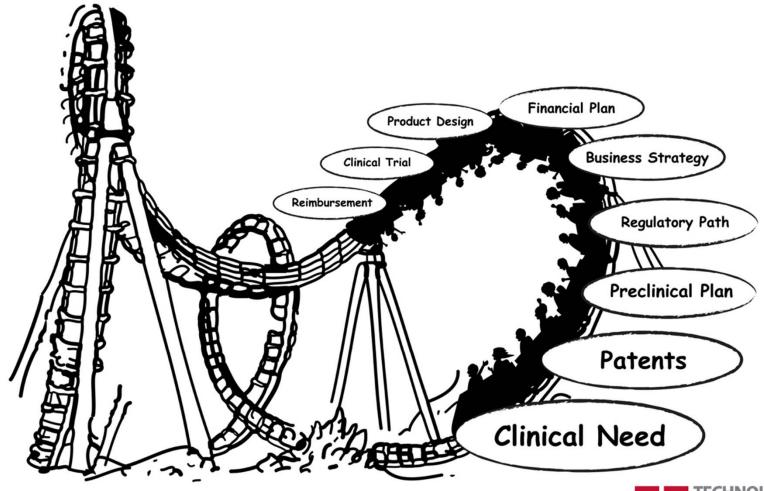
Translational Medicine Symposium 2013: The Roller Coaster Ride to the Clinic







Translational Medicine Connects the Problem to the Solution



• Every step in developing a device or drug must be evaluated in light of the clinical problem

Entrepreneurial Faculty Scholars



Academic Scholarship is Evolving

>Traditional Model

If you get grants, publish in top journals and win awards, other faculty will respect you

Evolving Model

If your scholarship has a positive impact on other people, you will earn their respect

Students are the key to the culture change





Who are the Academic Entrepreneurs?

They are students and faculty who:

- > Identify and solve real world problems
- >Translate basic science to applied technology
- > Create products as well as papers
- >Strive to understand business of science
- >Understand marketing and customers are key





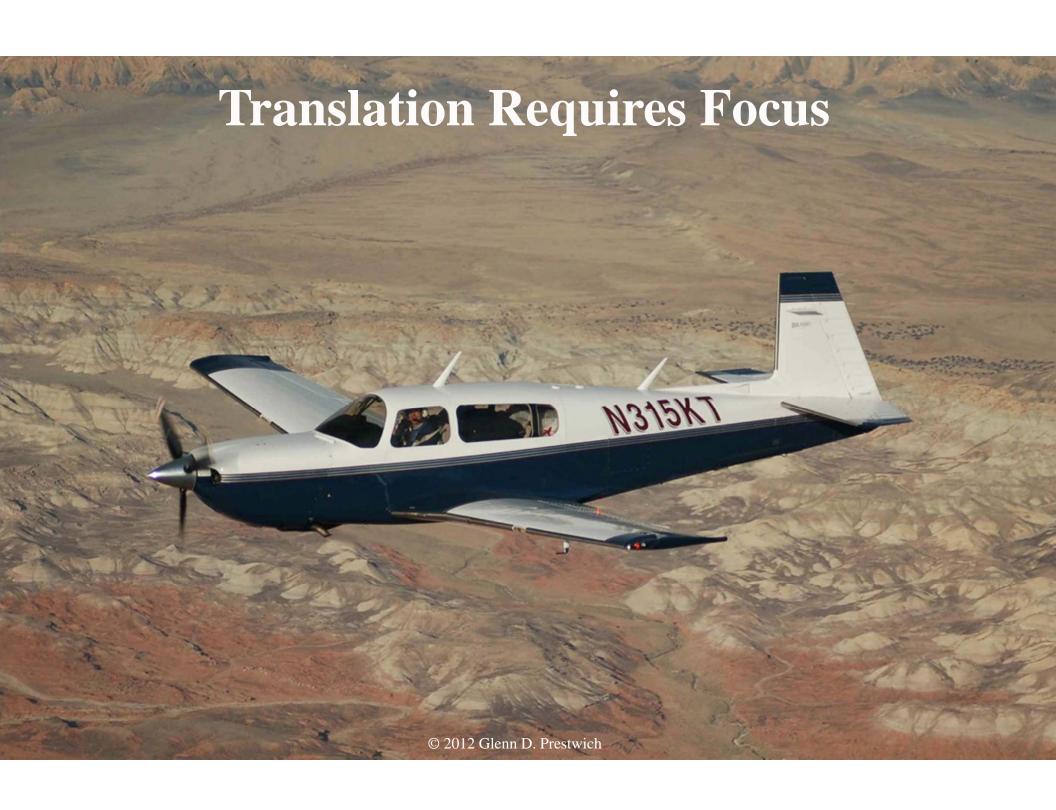
Translational Activities Are Scholarly

- ➤ Translational research applying basic knowledge to real world needs
- ➤ Translational teaching applying educational methods to real world needs
- > Translational service engaging in activities responsive to real world needs

Impact is the unifying feature

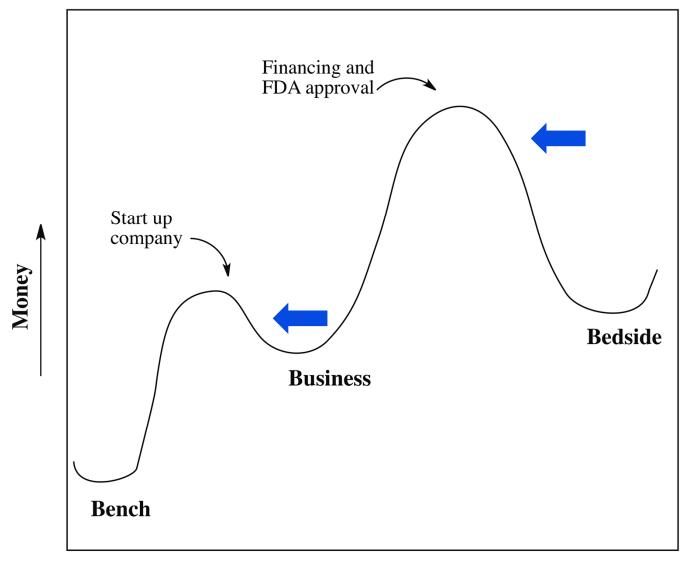








Translation Requires Energy

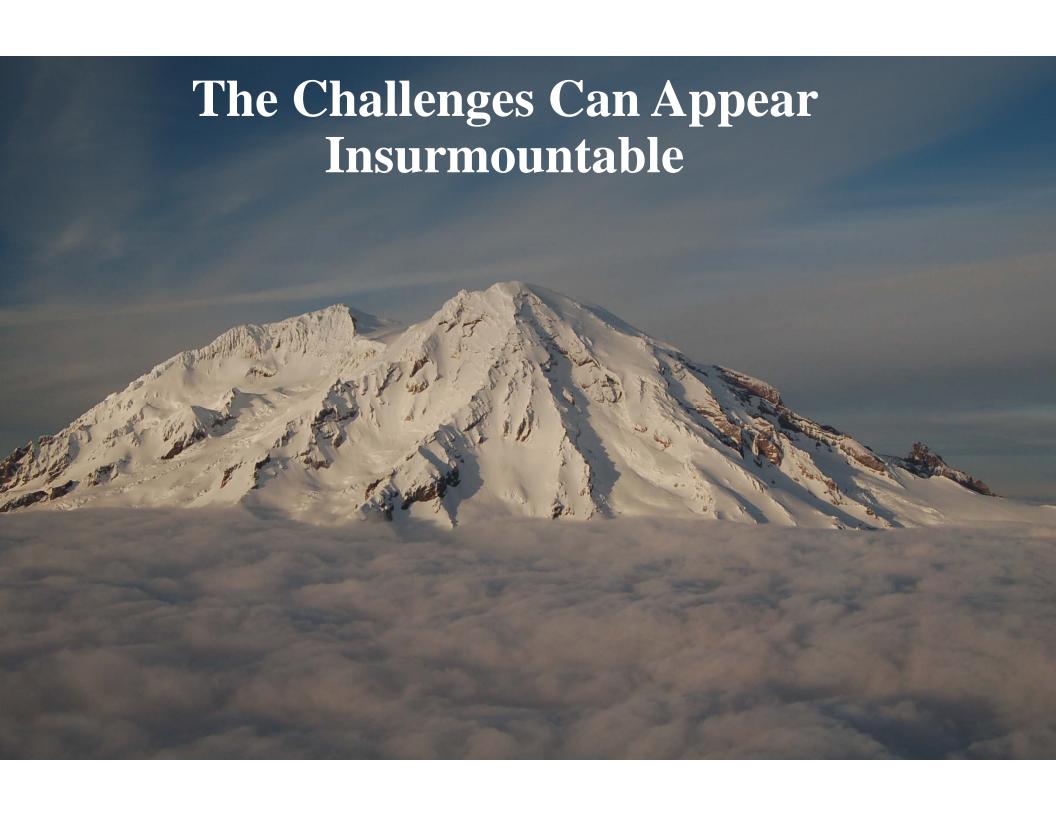










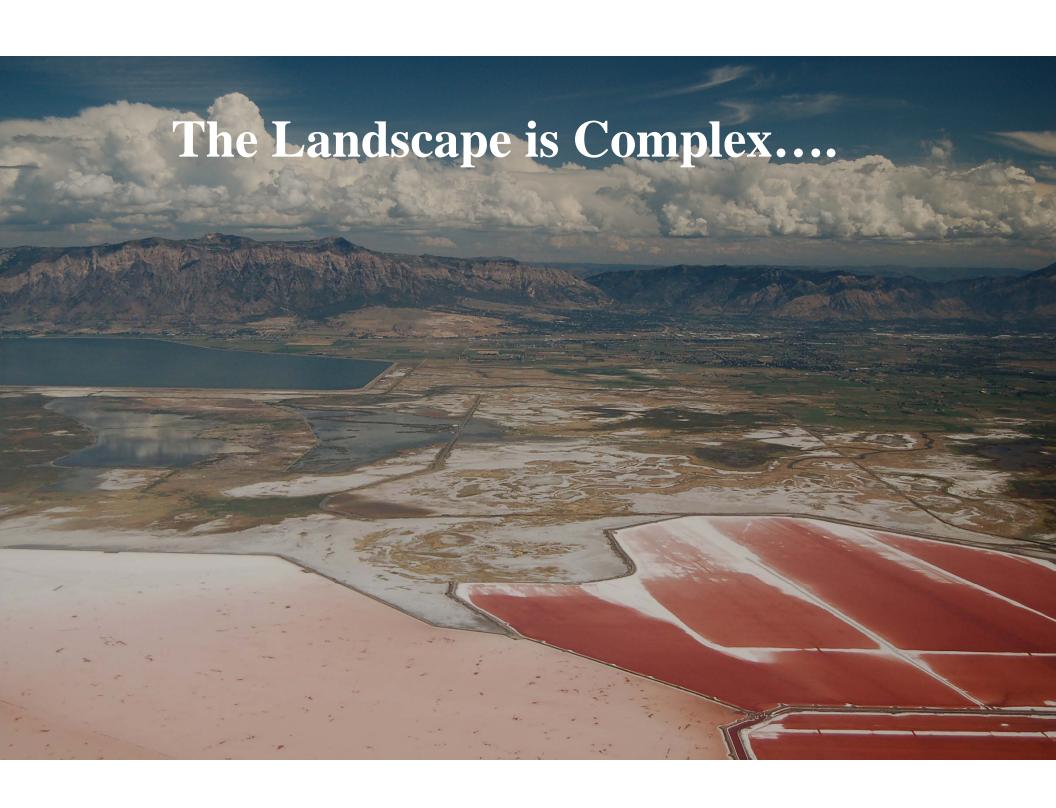


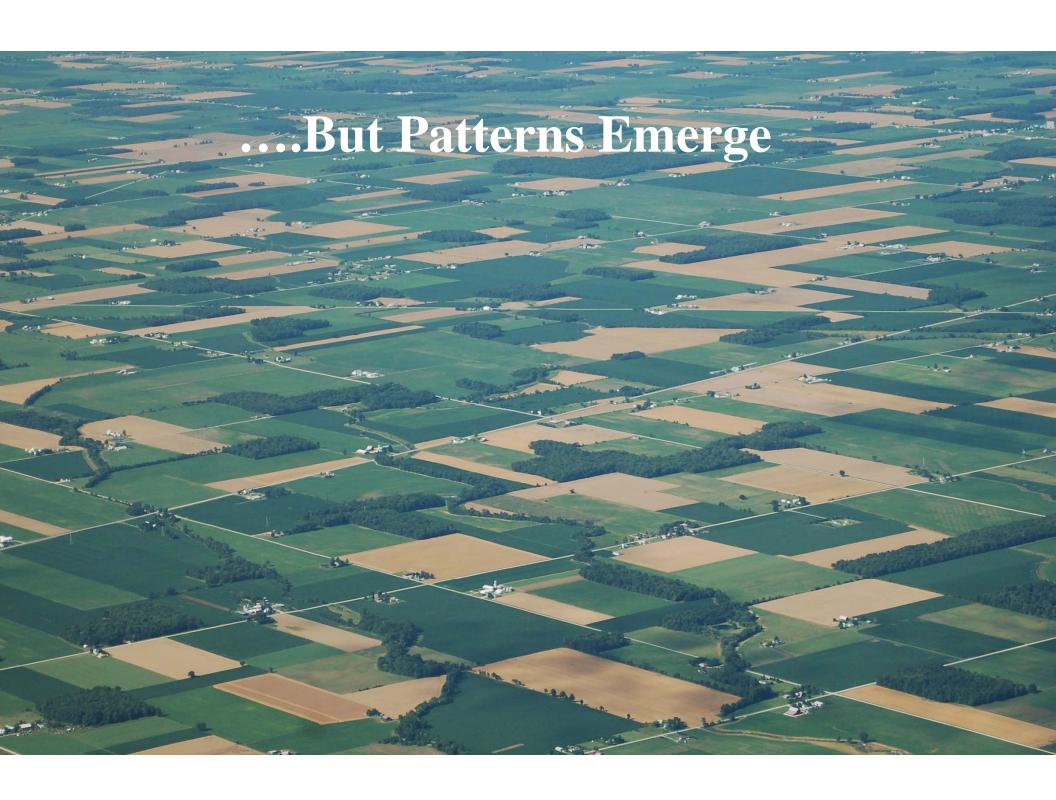
The Competition May Seem Very Close

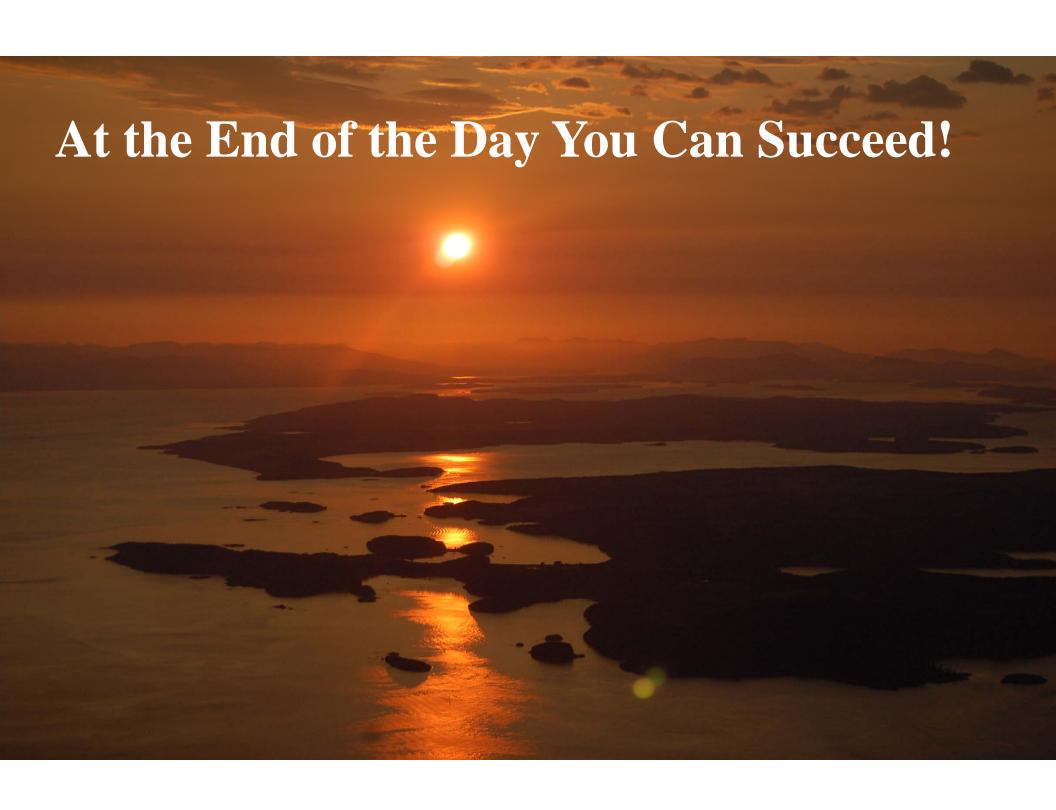










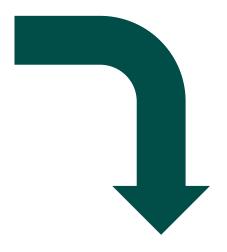


Design Criteria for a Clinical Biomaterial

- **◆** Meet needs of end-users: scientists, patients, physicians
- **♦** Simple, effective composition
- **♦** Simple to use
- **◆** Easy to manufacture under GMP
- ◆ Clear path to regulatory approval
- **♦** Reimbursable by health payers



Clinically useful products



Research use and veterinary products

The Translational Imperative

Embrace complexity

Engineer versatility

Deliver simplicity



Today's Program

```
11:30 – 12:00 Arrive and collect box lunch
12:00 – 12:20 Introduction
12:20 – 1:00 Identifying the Clinical Problem
1:00 - 1:40
             Intellectual Property
1:40 - 2:20
             Preclinical Development
2:20 - 2:40 Break
             Regulatory Pathway
2:40 - 3:20
3:20 - 4:00
             Business Strategy & Financing
             Clinical Development and Trials
4:00 - 4:40
4:40 - 5:20
             Product Development
5:20 - 5:40
             Open discussion and closing remarks
```





Tomorrow's Program

08:15 – 08:45 Continental breakfast

08:45-10:15 First group of student elevator pitches

10:15 – 10:30 Break

10:30 – 12:00 Second group of student pitches



