

Introduction to Translational Science

Tuesday 3-5PM, Rm 106AAB

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Introduction to Translational Science Competencies

1. Define and explain basic principles, processes, and outcomes of translational research across its entire spectrum.
2. Define and identify the resources needed to conduct T1, T2, T3 and T4 research.
3. Display knowledge of T1, T2, T3 and T4; how they interact with each other to improve human health.

Class Assignments and Grades

There will be assigned readings, mostly review articles. Each student will be expected to actively participate in class primarily through discussion. Students will be paired for a final project. Each pair will choose an example of Translational Research and explain how the chosen example meets the requirements of T1, T2, T3 and T4 research. Each pair will have 20 minutes (10 minutes for each partner) and 10 minutes of active discussion from the rest of the class. The presentations will be on the last days of class and be worth 50% of the grade. The other 50% will be based on class participation throughout the semester. Each student will be allowed one unexcused absence. More than one unexcused absence will result in a grade of unsatisfactory. There will be a mandatory sign-in sheet for each class.

<p>January 10 Lecturer-Philip LoVerde</p>	<p>Translational Science (TS), an Evolving Discipline T1 ↔ T2 ↔ T3 ↔ T4 Team Science Funding Resources for TS: NIH,WHO, Foundations, Industry; CTSA infrastructure</p>
<p>January 24 Lecturer-Phil LoVerde</p>	<p>Overview of Responsible Conduct of Research in TS Animals Humans Conflict of Interest Cervical Cancer and Human Papilloma Virus (HPV)</p>
<p>February 7 Lecturer-Phil LoVerde</p>	<p>Bench to Bedside (T1 → T2) Causal relationship between HPV and Cervical Cancer; Development of a vaccine</p>
<p>February 21 Lecturer-Phil LoVerde</p>	<p>Clinical Trials (T2) Phase I (T2), Phase II (T2), Phase III (T2) Phase IV (T3) HPV Clinical Trials</p>
<p>March 14 Lecturer-Phil LoVerde</p>	<p>Regulations and Agencies <i>What led to the use of research regulations and phase trials, e.g., polio, stent, HIV, HPV?</i></p>
<p>March 21 Lecturer-Phil LoVerde</p>	<p>T3: Implementation Research Health Services Research Practice-based Research Networks (PBRN) Community-based participatory research HPV Vaccine / Industry / Clinical Trials</p>
<p>April 4 Lecturer - Leonid Bunegin and Phil LoVerde</p>	<p>Industry and Business Industry vs. Academia Industry ↔ Science Conflict of Interest (COI)</p>

	Patents Marketing and Bias <i>HPV Vaccine Use / Marketing</i>
April 18 Lecturer-Phil LoVerde Students	T4: Policy, Politics and Society <i>HPV Vaccine / Politics and Society</i> student presentations
May 2 Students	Student presentations