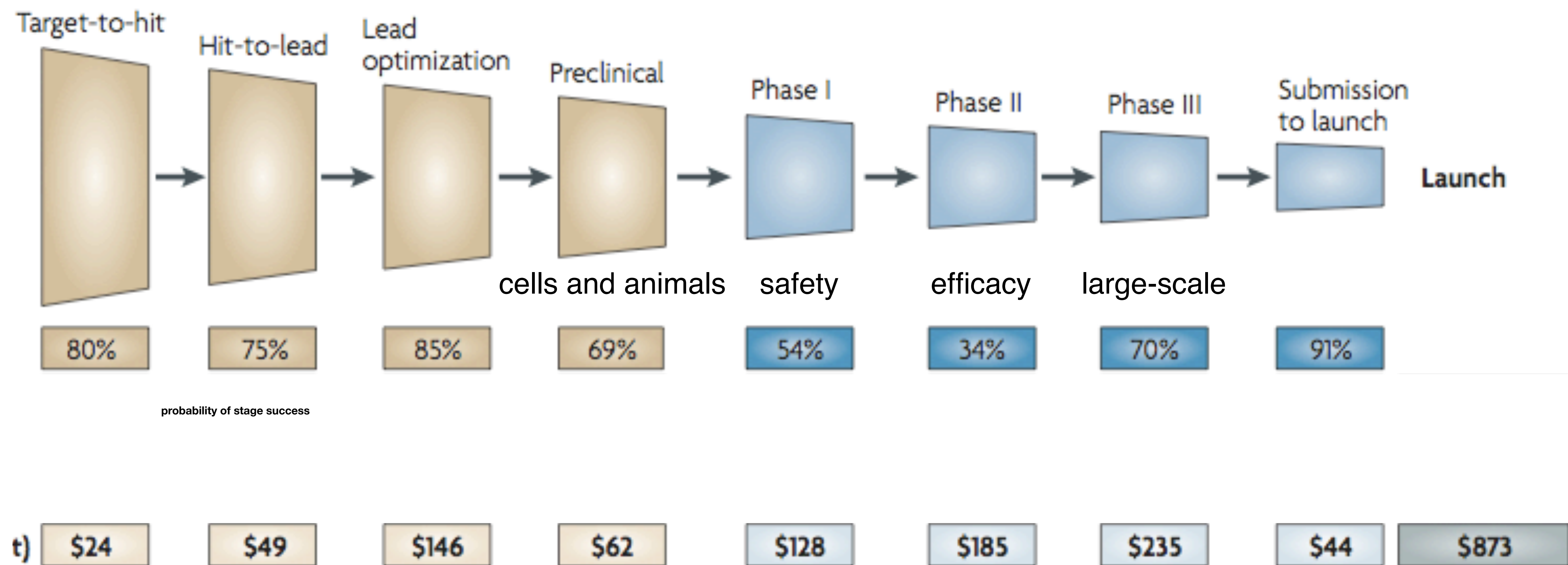


Week 1 Module 1

Principles of Structure-Based Drug Design

- This module will consist of a mini-lecture, an interactive structural visualization exercise, and a review
- At the end of this module, you should be able to, at least at a very basic level, answer the following questions:
 - Why is there interest in structure-based drug design?
 - What are the physiological functions of the biological macromolecules targeted by drugs?
 - What are biological macromolecules made of?
 - What does it mean for a biological macromolecule to be folded?
 - How do most drugs interact with their targets?

Drug discovery is expensive and often fails



Chodera et al. Curr. Op. Struct. Bio. 2011, 21 (2), 150–160.
for updated numbers see

Pammolli et al. bioRxiv 2019, 670471. <https://doi.org/10.1101/670471>.