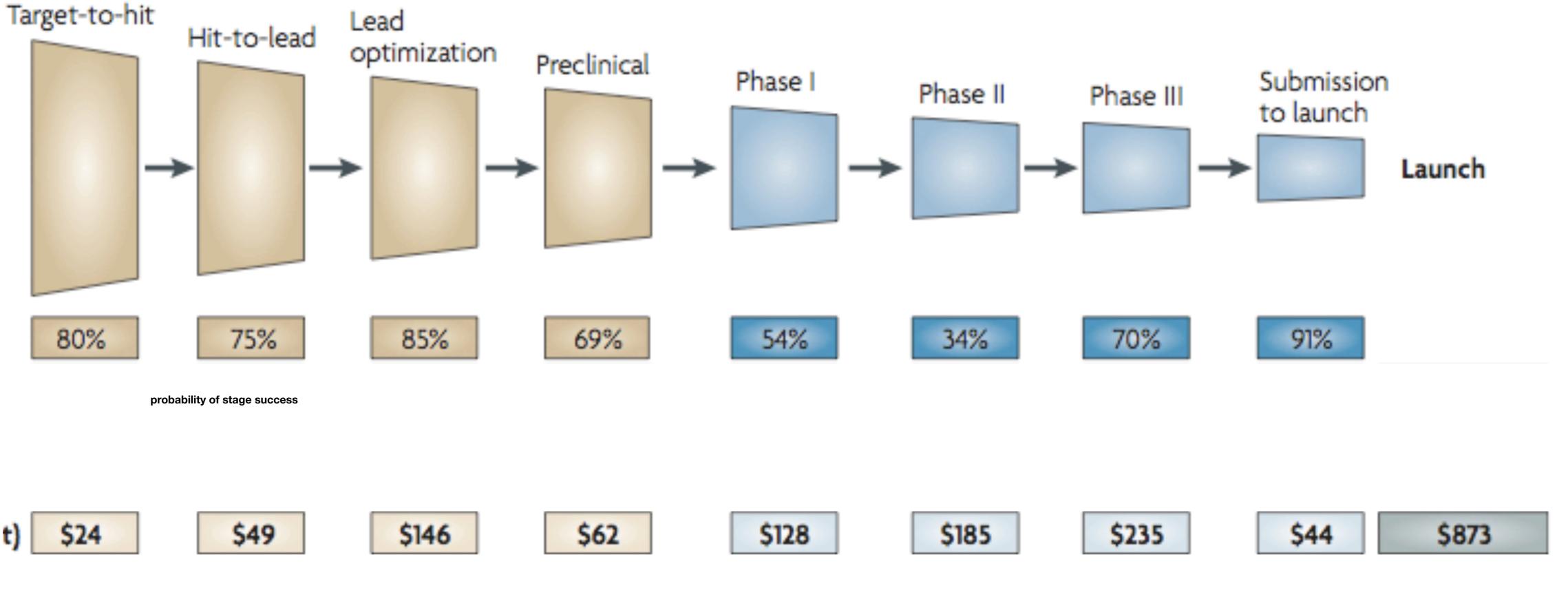
# Drug discovery is expensive and often fails



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.

### safetv

### efficacy

#### large-scale

#### cells and animals

### THE

"A high-stakes tale of adventure and intrigue. Barbarians at the Lab."
—The Washington Post

## BILLION-

THE QUEST FOR THE PERFECT DRUG

### DOLLAR

**BARRY WERTH** 

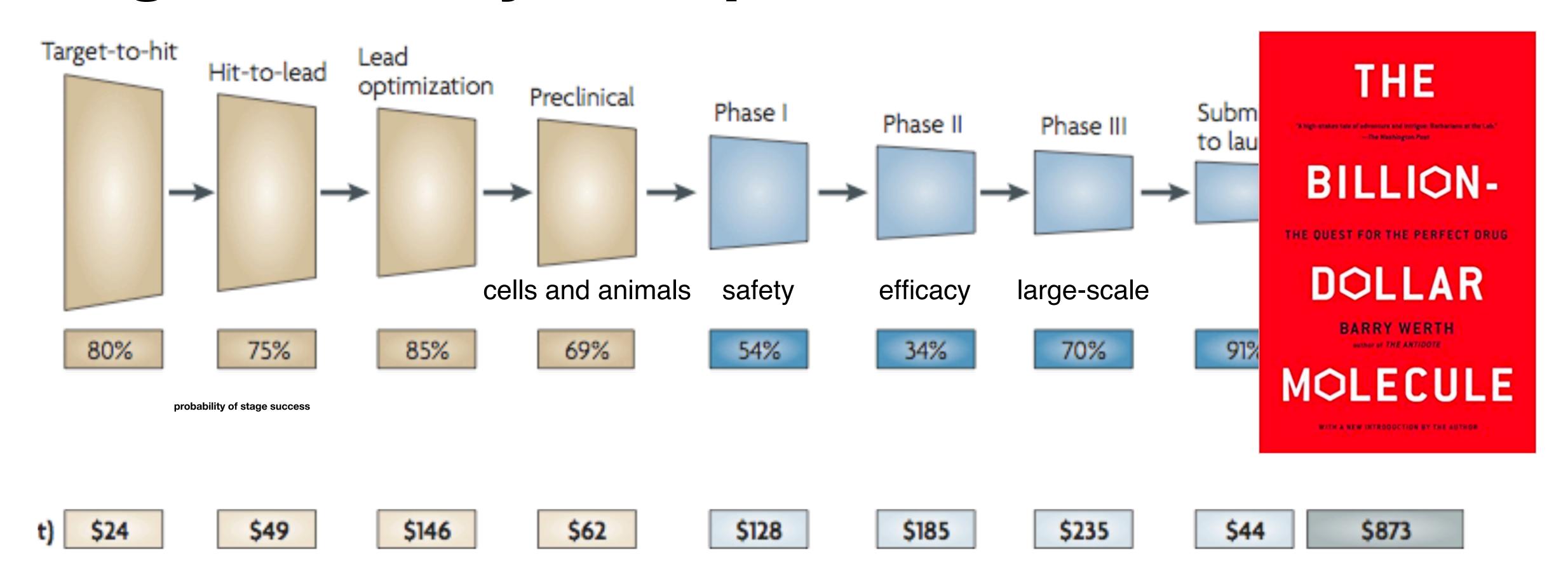
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# MOLECULE

WITH A NEW INTRODUCTION BY THE AUTHOR

### Much drug design is still by trial-and-error. Can we do better with a more rational approach?

# Drug discovery is expensive and often fails



Much drug design is still by trial-and-error.

Can we do better with a more rational approach?

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# Drug targets are biological macromolecules