

Pharmaceutical Patents

Separating Myth from Reality

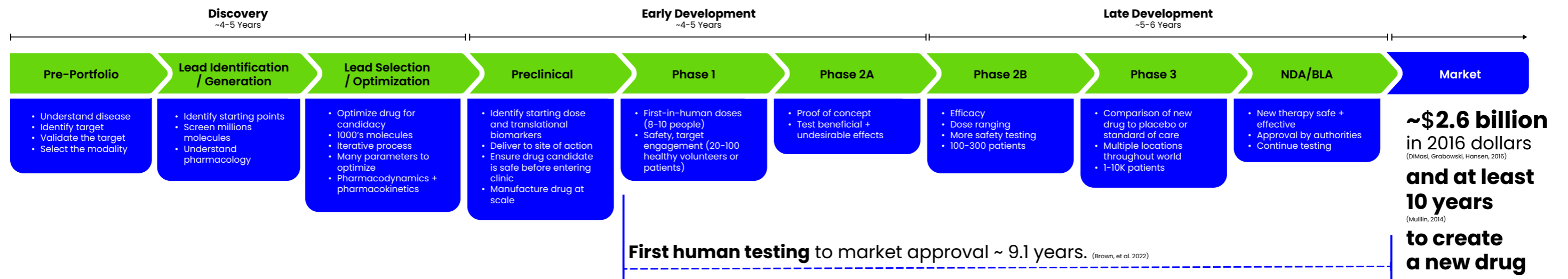
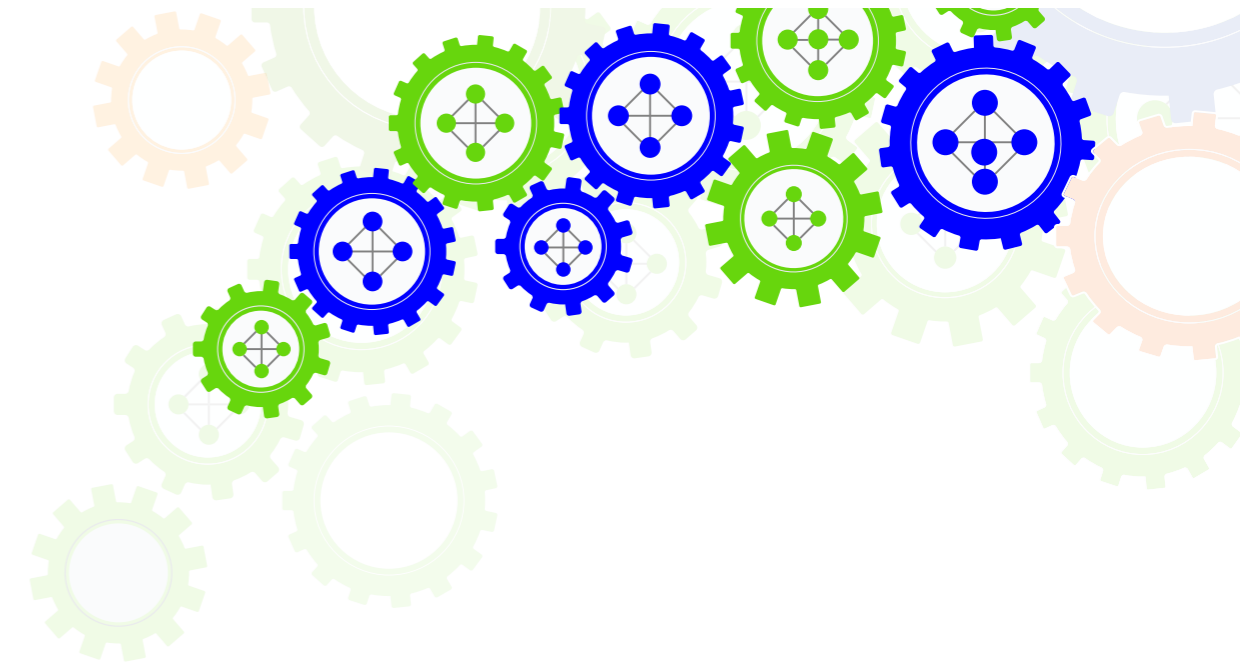
Drug Discovery and Development Overview



Less than 10% of drugs make it through clinical trials

This < 10 % success rate does not account for the numerous candidates that never make it to clinical trials

Current estimates suggest that only 7.87% of drugs that enter clinical trials successfully reach market
(Mikulic, 2021)



Brown, D. G., et al. (2022). Clinical development times for innovative drugs. *Nature Reviews Drug Discovery*, 21(11), 793-794. <https://doi.org/10.1038/d41573-021-00190-9>
 DiMasi, J. A., Grabowski, H. G., & Hansen, R. W. (2016). Innovation in the pharmaceutical industry: New estimates of R&D costs. *Journal of Health Economics*, 47, 20-33. <https://doi.org/10.1016/j.jhealeco.2016.01.012>
 Mikulic, M. (2021, February). Probability of success for drugs in the U.S. in different development phases between 2011 and 2020. *Statista*. <https://www.statista.com/>
 Mullin, R. (2014, November 24). Cost to develop new pharmaceutical drug now exceeds \$2.5B. *Scientific American*. <https://www.scientificamerican.com/>
 The NDA (New Drug Application) and BLA (Biologics License Application) are requests for approval to market a new pharmaceutical or biological product in the United States.