From Lab Bench to Your Medicine Cabinet

Week 2 - Natural Products

Helpful Review
Better antibiotics through chemistry.
Simon Frantz
and
Drug discovery and natural products: end of an era or an endless frontier?
Li JW, Vederas JC.

In-class Discussion Questions

1. What general class of therapeutics is the author’s synthesizing? Why?
2. What specific scaffolding is being used? Why?
3. What are the properties of the scaffold?
4. Which derivatives were the most potent?
5. What is your assessment of the inhibitory results of the synthesized compounds?
6. Can you propose an analog based on their results that might be better?
7. Do you think knowing what the target (e.g. mechanism of action) would help design a better derivative? Why?