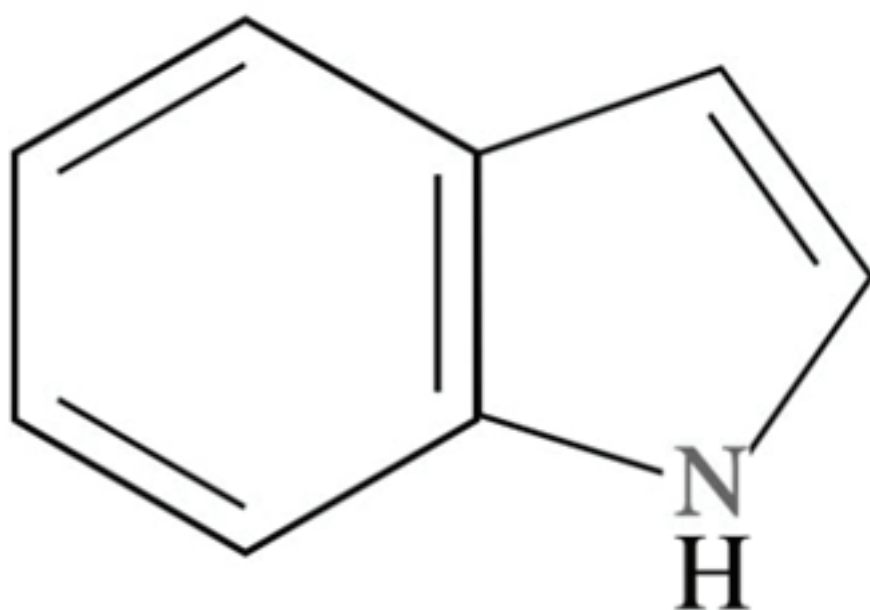


Chris Riemann

California Institute of Technology

Synthetic Organic Chemistry: The Art and Science of Molecular LEGOs



Aliso Hall
Room 150

1PM, Friday
September 7,
2018

Free & open
to the public

ABSTRACT: Total synthesis—the construction of complex molecules from simple, commercially available materials—is an established yet relevant area of modern chemical research. The process of constructing nature's secondary metabolites in a stepwise manner frequently inspires the discovery of new drugs and reactions, while challenging the researcher to develop strategic, efficient, and creative methods of problem-solving. Using an ongoing total synthesis of a dimeric indole alkaloid, we hope to provide insight into the planning and execution of these routes, along with some of the unexpected discoveries that inspired new directions of research.