

# CHEMISTRY AND BIOCHEMISTRY COLLOQUIUM

## Lessons in Process Chemistry: the Importance of Organic Synthesis in Pharmaceutical Development

**Abstract.** In an effort to bring new medicines in pharmaceutical development to patients, process chemists and engineers generate efficient and cost effective syntheses for the preparation of complex molecular targets. The process chemist must decide on a route (or routes) capable of delivering materials for toxicological studies, clinic trials, and eventually commercial manufacturing. Additional considerations, such as the environmental impact of the process, the availability of materials used, and the safety of the synthesis will be discussed.



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