



2012-2013 POCC Lecture Series

May 23, 2013, 8:00 PM

≈ **POCC Student Choice Lecture** ≈

Prof. Uttam K. Tambar

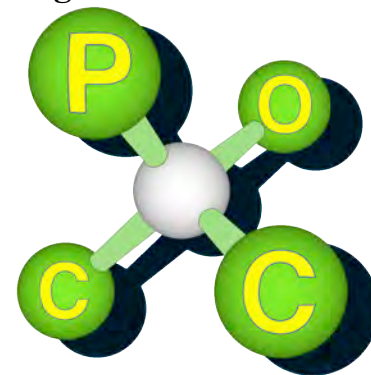
UT Southwestern Medical Center

Catalytic Asymmetric Molecular Rearrangements

Carolyn Hoff Lynch Lecture Hall

Chemistry Building, University of Pennsylvania

The Philadelphia
Organic Chemists' Club



POCClub.org

To join us for dinner before the lecture please contact POCC's assistant secretary Simon Golec (SimonG1326@aol.com) at least one week ahead of time.

Uttam Tambar received his A.B. degree from Harvard University in 2000, and his Ph.D. from the California Institute of Technology in 2006 with Brian Stoltz. He was an NIH Postdoctoral Fellow at Columbia University with James Leighton (2006-2009). He began his independent research career in 2009 at UT Southwestern Medical Center in Dallas.

The Tambar Group at UT Southwestern Medical Center is interested in three general areas of research: (1) the synthesis of biologically active natural products (especially polycyclic alkaloids); (2) the development of new catalytic stereoselective reactions (with an interest in enantioselective molecular rearrangements); and (3) the integration of discoveries in these two areas into medicinal chemistry collaborations with biologists at the Medical Center.

Abstract: [2,3]- and [3,3]-rearrangements are synthetically powerful chemical transformations for the assembly of complex molecules. Our group is interested in developing catalytic asymmetric variants of these processes. Our efforts in this area are guided by the mechanistic hypothesis that reactive zwitterionic intermediates can be subjected to catalytic stereoselective rearrangements, despite their propensity to undergo facile thermal sigmatropic rearrangements.