

We are involved in developing new synthetic methods and the synthesis of biologically active molecules, especially, antimalarial compounds; some of our lab's recent works are highlighted here.

## Research Interests Our Lab:

### I. Syntheses of Bioactive Molecules:

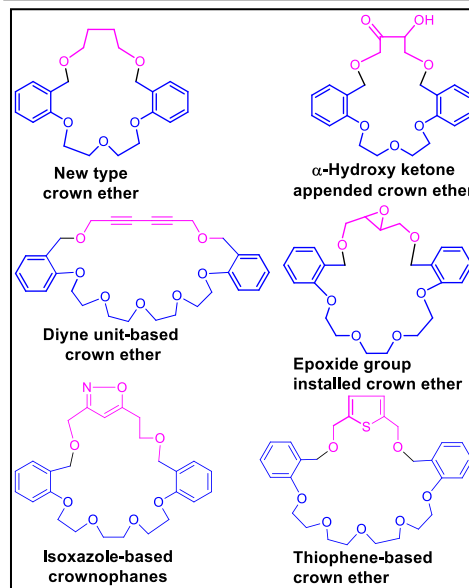
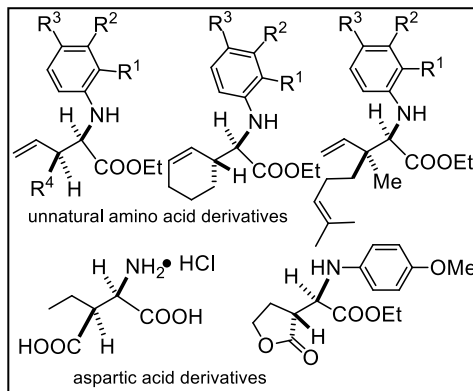
Synthetic Mimics for Malaria / Cancer  
Sugar Mimics  
Sesquiterpenoid / Alkaloid Mimics  
Rigid Unnatural  $\beta$ - &  $\gamma$ -Amino Acid Mimics

### II. Synthetic Methodology:

Transition Metal-Catalyzed C-H Activation  
Stereoselective C-C Bond Construction  
Magnetic Catalysts & Green Organic Reactions  
Synthesis of Crown- and Aza Crown Ethers

### Recent Publications:

*Tetrahedron* **2014**, In press.  
*Synlett* **2014**, In press.  
*RSC Advances* **2014**, Under revision.  
*Synlett* **2014**, 25, 1395.  
*RSC Advances* **2014**, 4, 18904.  
*Synlett* **2014**, 25, 835.  
*J. Org. Chem.* **2013**, 78, 11911.  
*Org. Lett.* **2013**, 15, 3238.  
*Indian J. Chem., Sect A* **2013**, 52A, 1113.  
*Tetrahedron* **2013**, 69, 6598.  
*Eur. J. Org. Chem.* **2013**, 2362.  
*Tetrahedron Lett.* **2013**, 54, 2255.  
*Recent Patents Catal.* **2013**, 2, 47.  
*Tetrahedron Lett.* **2013**, 54, 1738.  
*Catal. Commun.* **2012**, 29, 118.  
*Eur. J. Org. Chem.* **2012**, 4395.  
*Synlett* **2012**, 23, 549.



### Patent Applications:

Patent Application No. 2811/DEL/2011. Patent Application No. 3532/DEL/2012. Patent Application No. 295/DEL/2013. Patent Application No. 1102/DEL/2013. Patent Application No. 1240/DEL/2013. Patent Application No. 2152/DEL/2013. Patent Application No. 3400/DEL/2013.

