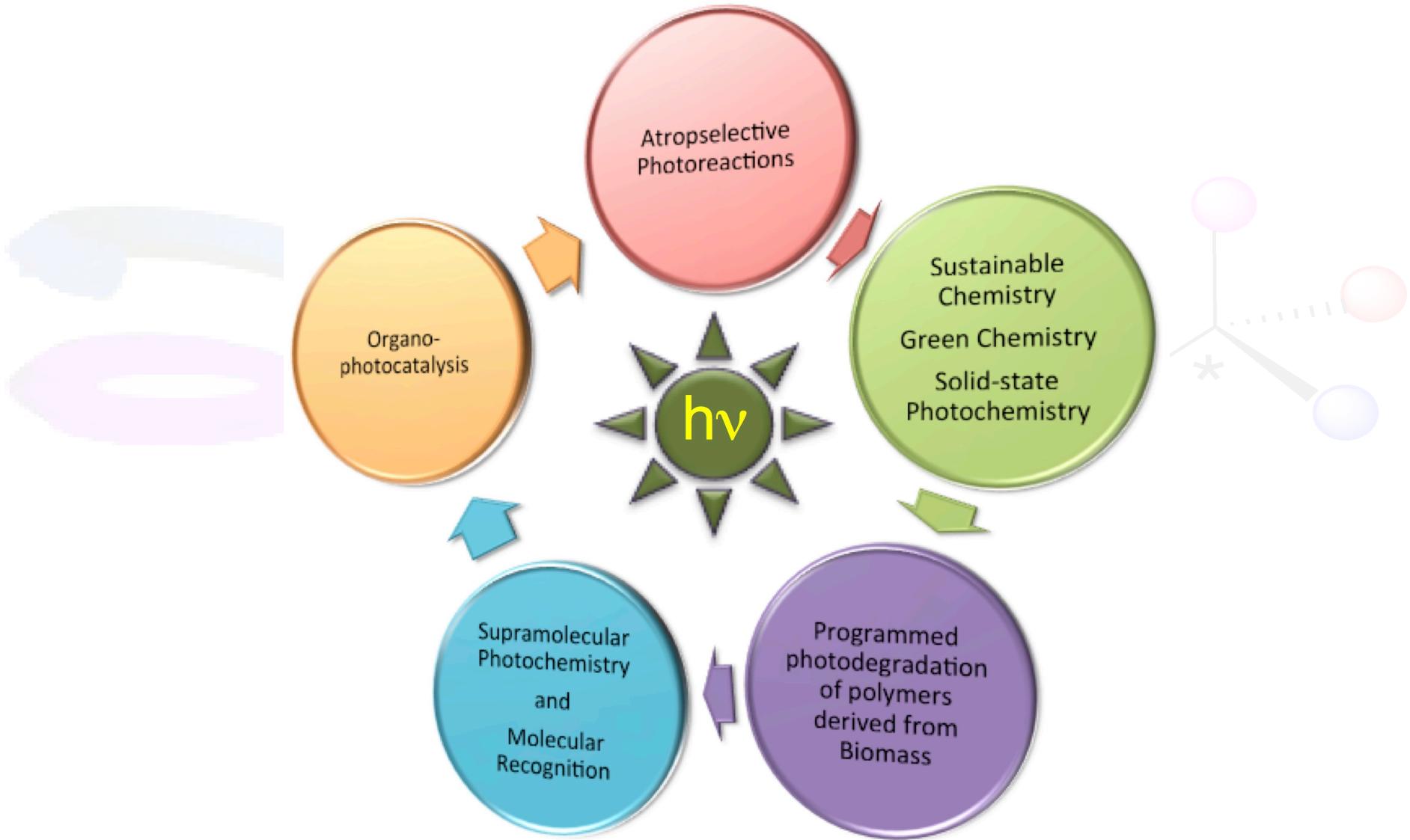


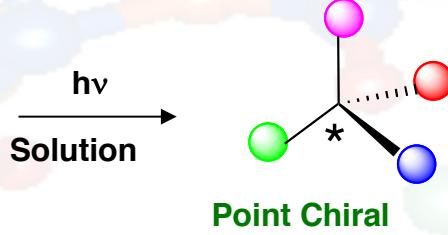
## Sivagroup – Current Research Themes / Interest



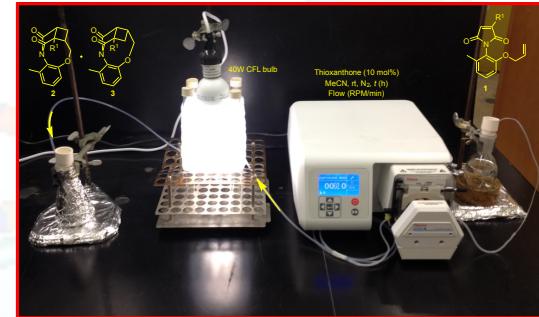
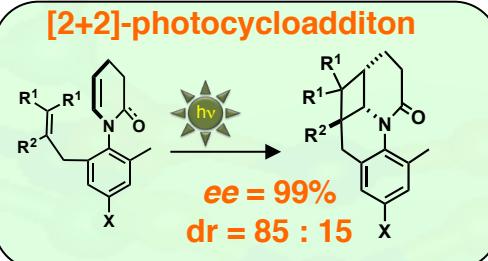
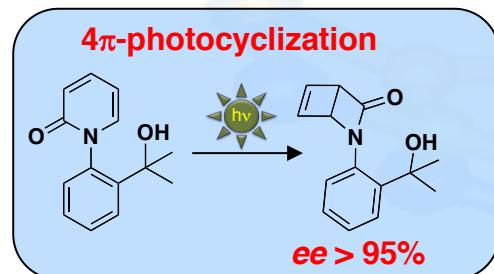
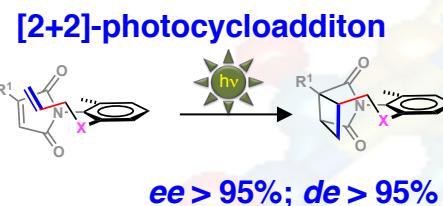
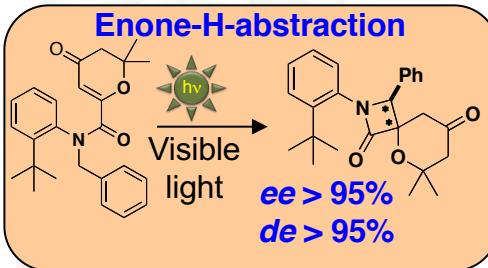
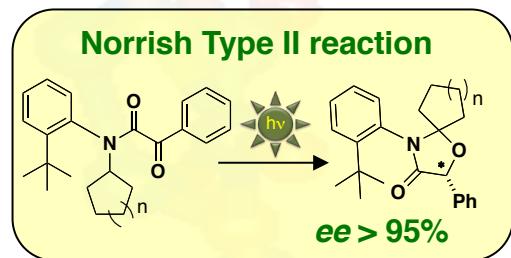
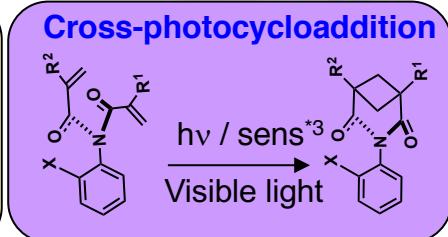
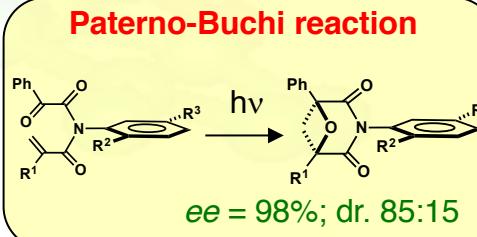
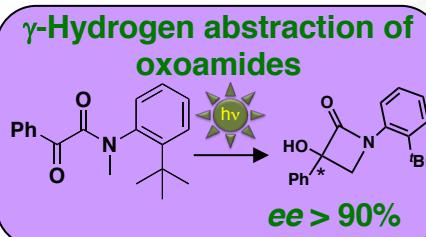
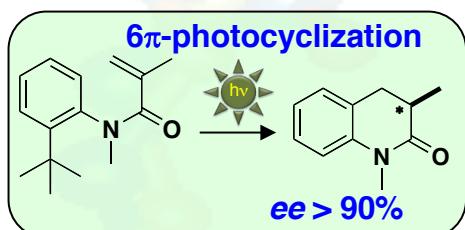
# Atropselective Photoreactions with UV and/or Visible light

## Molecular to Point Chiral Transfer

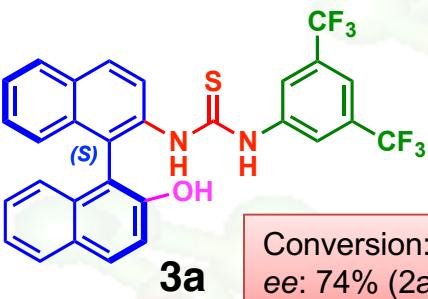
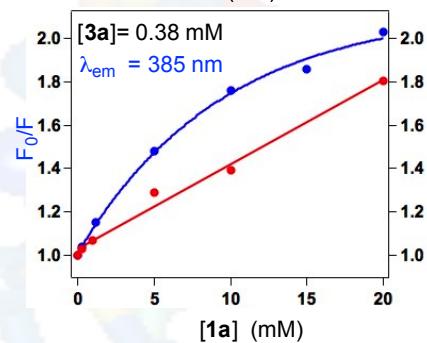
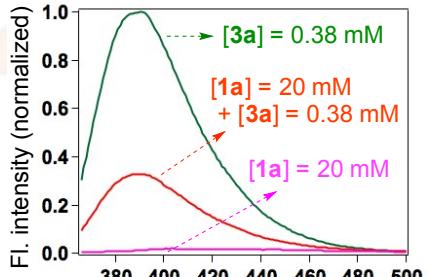
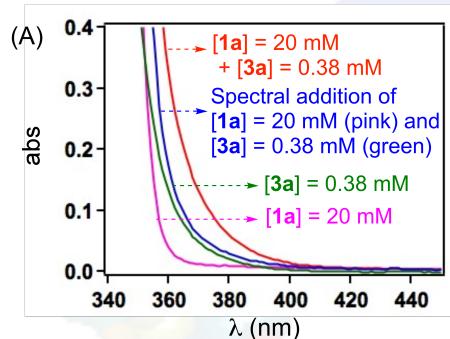
  
Molecularly  
Chiral



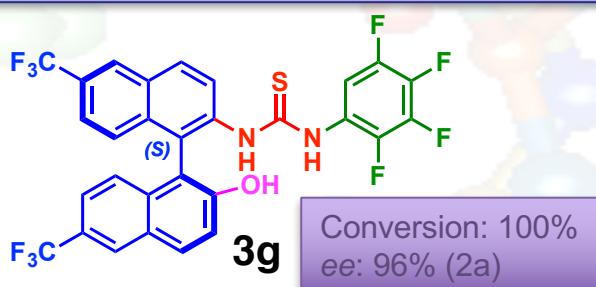
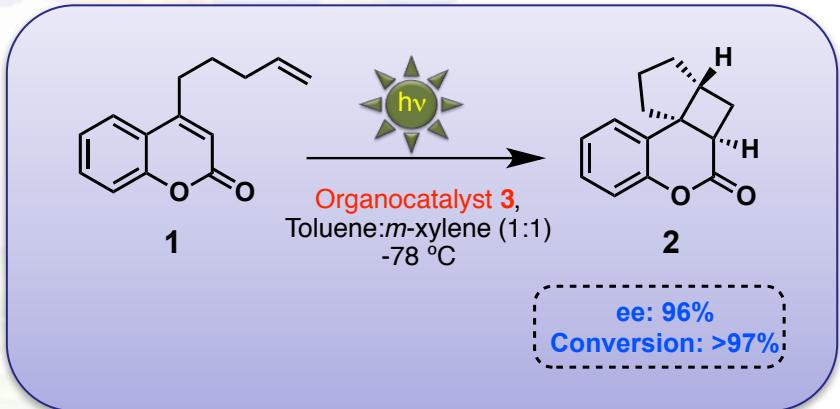
- Reactions from Excited state
- Can be performed in gram scale under flow
- Methodology for accessing enantiopure products



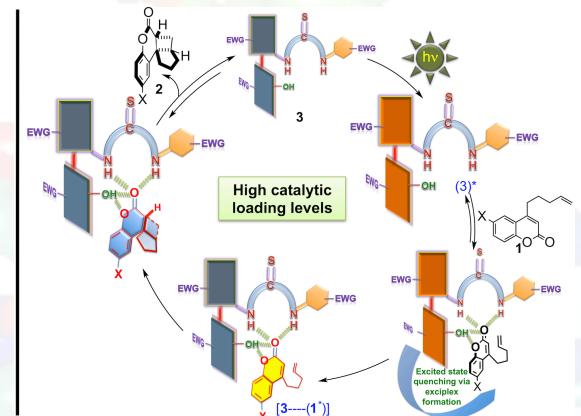
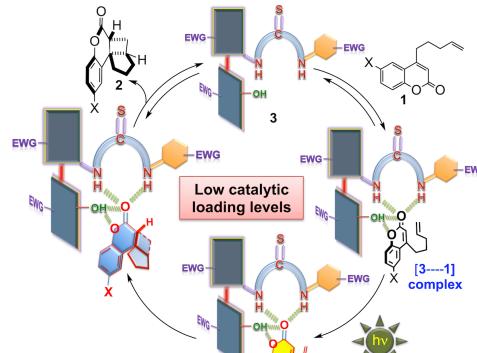
# Enantioselective Organophotocatalysis



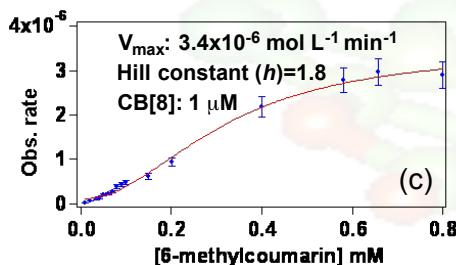
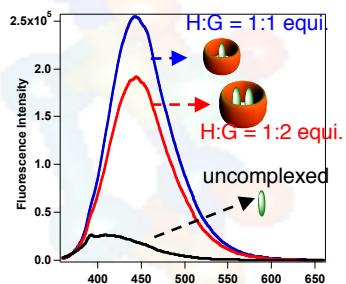
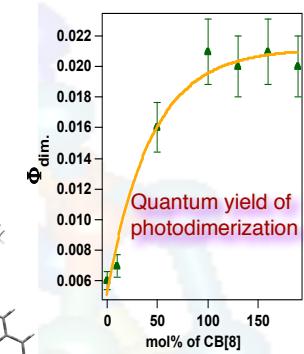
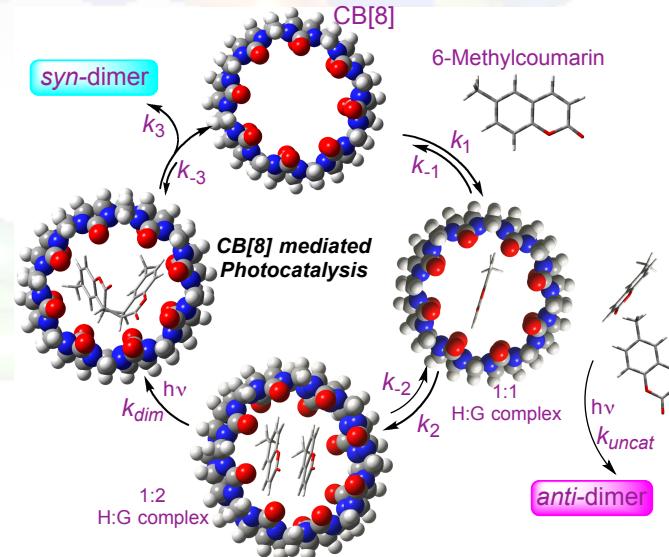
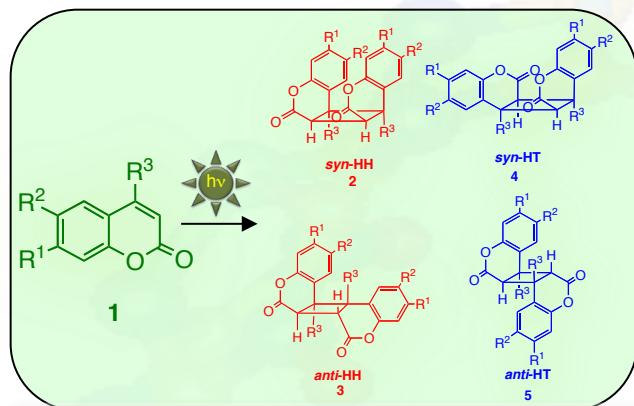
Conversion: 84%  
ee: 74% (2a)



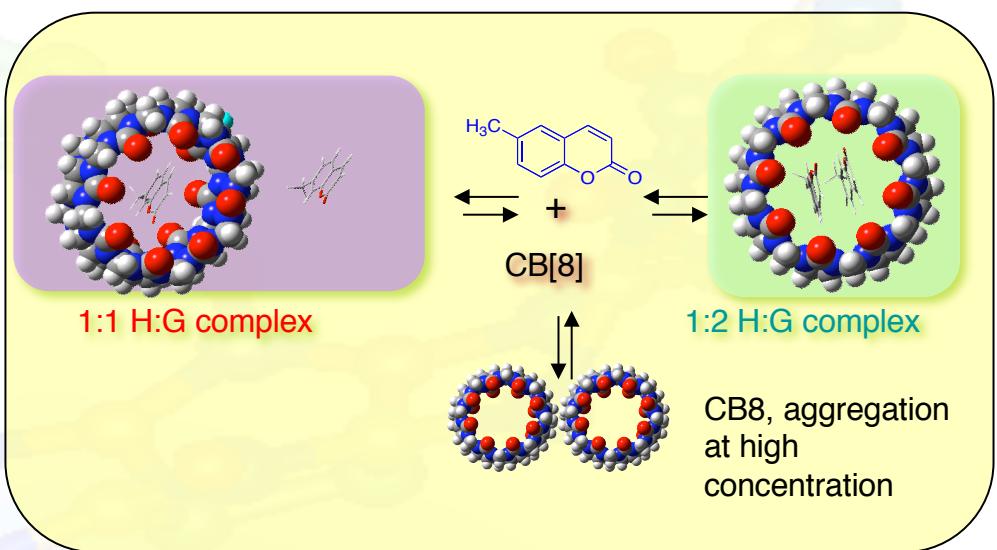
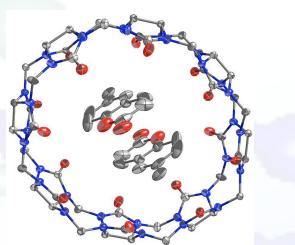
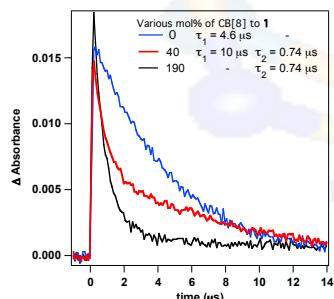
Conversion: 100%  
ee: 96% (2a)



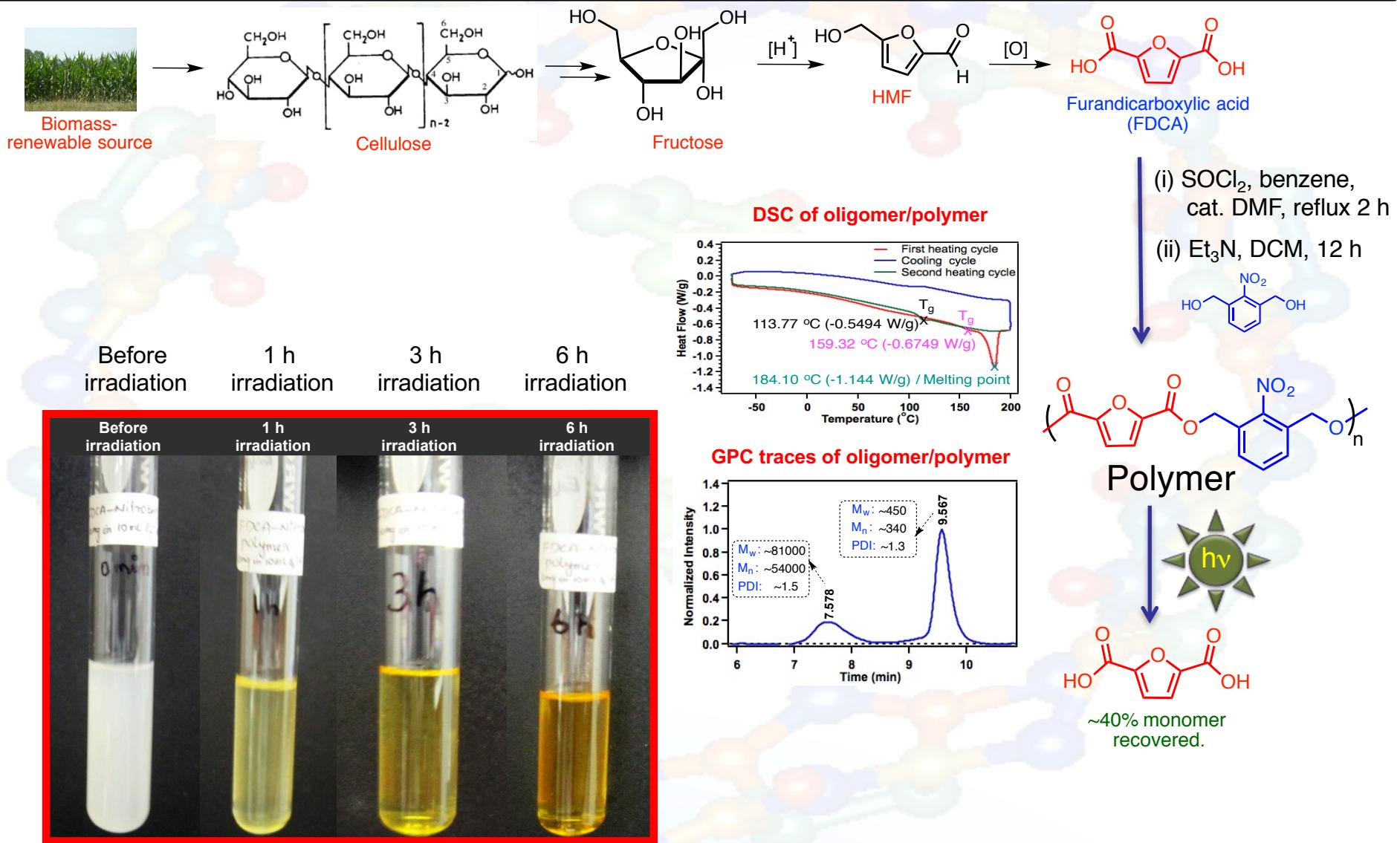
# Supramolecular Photocatalysis



Allosteric response



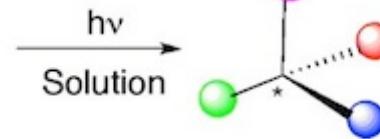
# Programmed Degradation of Polymers Derived from Biomass



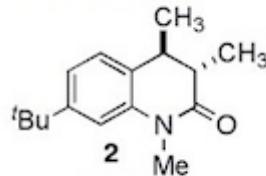
## Sivagroup Research Themes Summary

### Enantiospecific light induced transformations in solution

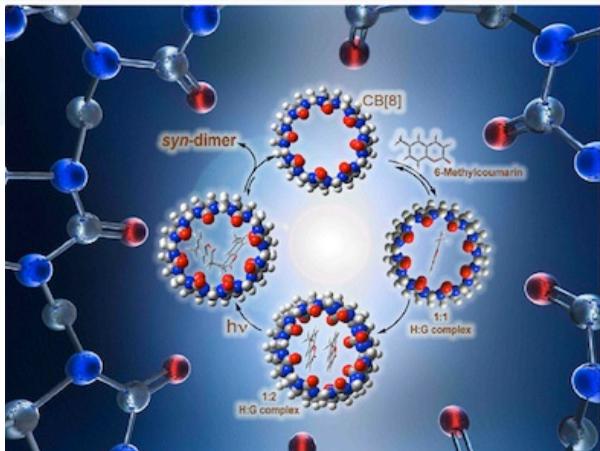
Molecularly Chiral



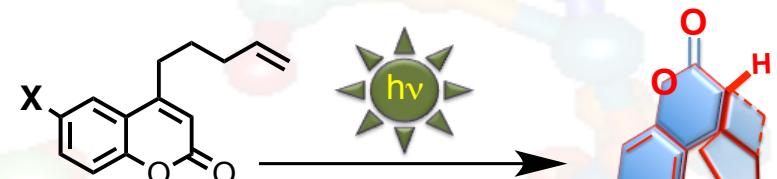
Point Chiral



### Supramolecular photocatalysis



### Organophotocatalysis



ee: 96%  
Conversion: >97%

### Programmed photo degradation of bio-based polymers / renewable materials

