

## Switching the reaction pathways !!

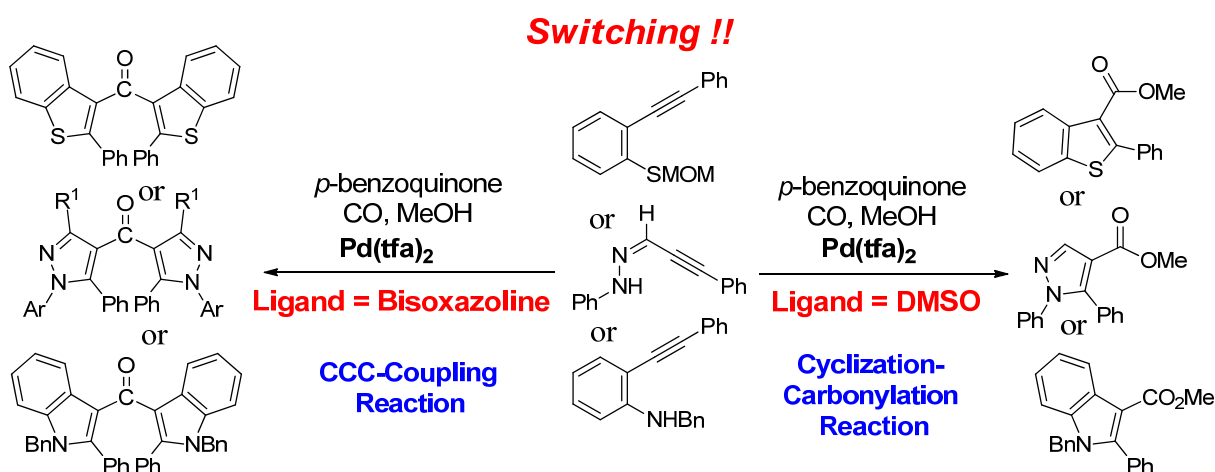
### Organic Chemistry Laboratory (薬化学教室)

Professor Keisuke Kato, Associate Professor Keisuke Takahashi, Lecturer Taichi Kusakabe

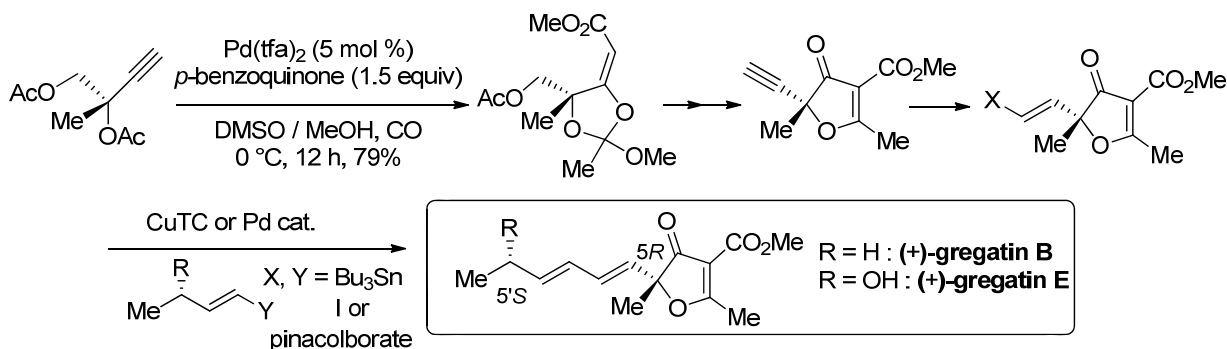
Our research interests focus on two topics:

- (1) Development of new synthetic method based on palladium catalyzed carbonylation reaction.  
 (2) Total synthesis of natural products.

- (1) A simple change of ligand and solvent allows controlled, effective switching between cyclization-carbonylation-cyclization-coupling (CCC-coupling) and cyclization-carbonylation reactions.  
 (*Organic & Biomolecular Chemistry*, **2014**, *12*, 8619, and references cited therein.)



- (2) Total synthesis of (+)-gregatin B and E. (*Organic Letters*, **2013**, *15*, 5102)



Selected Publications:

- Angew. Chem. Int. Ed.* **2013**, *52*, 7845-7849. (10.1002/anie.201303684)
- Angew. Chem. Int. Ed.* **2011**, *50*, 3912-3915. (10.1002/anie.201008139)
- Angew. Chem. Int. Ed.* **2009**, *48*, 3326-3328. (10.1002/anie.200806080)