

平成22年度 研究業績

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1. 発表論文等 (査読付き論文、著書、総説等の発表状況)

- (1) Iron-Catalyzed Sulfonyl Radical Formations from Sulfonylhydrazides and Oxidative Addition to Alkenes  
Taniguchi, T.\*; Idota, A.; Ishibashi, H. *Org. Biomol. Chem.* in press.
- (2) A Mild Oxidative Aryl Radical Addition into Alkenes Using Aerobic Oxidation of Arylhydrazines  
Taniguchi, T.\*; Zaimoku, H.; Ishibashi, H. *Chem. Eur. J.* in press.
- (3) Iron-Mediated One-Pot Formal Nitrocyclization onto Unactivated Alkenes  
Taniguchi, T.\*; Fujii, T.; Ishibashi, H. *Org. Biomol. Chem.* in press.
- (4) Iron-Catalyzed Oxidative Addition of Alkoxy carbonyl Radical to Alkenes with Carbazates and Air  
Taniguchi, T.\*; Sugiura, Y.; Zaimoku, H.; Ishibashi, H. *Angew. Chem. Int. Ed.* **2010**, *49*, 10154-10157.
- (5) Iron-Mediated Radical Halo-Nitration of Alkenes  
Taniguchi, T.\*; Fujii, T.; Ishibashi, H. *J. Org. Chem.* **2010**, *75*, 8126-8132.
- (6) Asymmetric Synthesis of 2,3-Dihydro-4-pyranones by Reaction of Chiral 3-Alkoxy cyclobutanone and Aldehyde  
Negishi, S.; Ishibashi, H.; Matsuo, J.\* *Org. Lett.* **2010**, *12*, 4984-4987.
- (7) Titanium(IV) Chloride-Mediated Carbon-Carbon Bond-Forming Reaction Between 3,3-Dialkyl cyclobutanones and Aldehydes  
Matsuo, J.\*; Kawano, M.; Okuno, R.; Ishibashi, H. *Org. Lett.* **2010**, *12*, 960-962.
- (8) Asymmetric Reduction of Aliphatic Ketones and Acyl Silanes Using Chiral *anti*-Pentane-4-diol and A Catalytic Amount of 2,4-Dinitrobenzenesulfonic Acid  
Matsuo, J.\*; Hattori, Y.; Hashizume, M.; Ishibashi, H. *Tetrahedron* **2010**, *66*, 6062-6069 .
- (9) A New Synthesis of 2,3-Di- or 2,3,3-Trisubstituted 2,3-Dihydro-4-pyridones by Reaction of 3-Ethoxycyclobutanones and *N-p*-Toluenesulfonyl Imines Using Titanium(IV) Chloride: Synthesis of (±)-Bremazocine  
Matsuo, J.\*; Okado, R.; Ishibashi, H. *Org. Lett.* **2010**, *12*, 3266-3268.
- (10) An Efficient Procedure for Preparation of 2-Monoalkyl or 2-Monoaryl-3-ethoxycyclobutanones  
Matsuo, J.\*; Okuno, R.; Takeuchi, K.; Kawano, M.; Ishibashi, H. *Tetrahedron Lett.* **2010**, *51*, 3736-3737.
- (11) Brønsted Acid-Catalyzed Asymmetric Reduction of Ketones and Acyl Silanes Using Chiral *anti*-Pentane-2,4-diol  
Matsuo, J.\*; Hattori, Y.; Ishibashi, H. *Org. Lett.* **2010**, *12*, 2294-2297.

- (12) Identification of Stemonamide Synthetic Intermediates as a Novel Potent Anti-Cancer Drug with an Apoptosis-Inducing Ability  
Li, Y.-Y.; Wang, Y.-Y.; Taniguchi, T.; Kawakami, T.; Baba, T.; Ishibashi, H.; Mukaida, N.\*  
*Int. J. Cancer* **2010**, *127*, 474-484.
- (13) Trialkylamine-Mediated Intramolecular Acylation of Alkenes with Carboxylic Acid Chlorides  
Matsuo, J.\*; Hoshikawa, T.; Sasaki, S.; Ishibashi, H. *Chem. Pharm. Bull.* **2010**, *58*, 591-592.
- (14) Intramolecular Formal [4+2] Cycloaddition of 3-Ethoxycyclobutanones and Alkenes  
Matsuo, J.\*; Sasaki, S.; Hoshikawa, T.; Ishibashi, H. *Chem. Commun.* **2010**, 934-936.
- (15) Iron-Mediated Radical Nitro-Cyclization Reaction of 1,6-Diene  
Taniguchi, T.; Ishibashi, H.\* *Org. Lett.* **2010**, *12*, 124-126.
- (16) Iron-Catalyzed Redox Radical Cyclizations of 1,6-Dienes and Enynes  
Taniguchi, T.; Goto, N.; Nishibata, A.; Ishibashi, H.\* *Org. Lett.* **2010**, *12*, 112-115.
- (17) Water in Amine-Mediated Single Electron Transfer Reaction of *N*-Allylic Trichloroacetamides  
Taniguchi, T.; Sasaki, M.; Ishibashi, H.\* *Heterocycles* **2010**, *80*, 657-662.

## 2. 学会発表等（国内外の招待講演および国際会議での発表状況）

なし

## 3. 特許

光学活性アルコールの製造方法

国立大学法人金沢大学，石橋弘行，松尾淳一，美濃島徹，高梨一也

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## 4. 学会・シンポジウム等の開催状況

なし

## 5. 受賞等

### (1) 杉浦祐基（修士1年）

大学院優秀発表賞 日本薬学会北陸支部第122回例会，2010.11.21

6. 新聞報道等

なし

7. 領域内の共同研究の準備・実施状況とその成果

なし

8. その他特記事項

なし