

平成23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) Double C-H Functionalization in Sequential Order: Direct Synthesis of Polycyclic Compounds by a Palladium-Catalyzed C-H Alkenylation–Arylation Cascade
Ohno, H.*; Iuchi, M.; Kojima, N.; Yoshimitsu, T.; Fujii, N.; Tanaka, T.* *Chem. Eur. J.* in press.
- (2) Structure-Based Design of Novel Potent CK2 Inhibitors with Phenyl-azole Scaffolds
Hou, Z.; Nakanishi, I.*; Kinoshita, T.; Yasue, M.; Suzuki, Y.; Kanemitsu, M.; Kure, T.; Ohno, H.; Murata, K.; Kitaura, K.; Hirasawa, A.; Tsujimoto, G.; Oishi, S.*; Fujii, N. *J. Med. Chem.* in press.
- (3) Efficient Synthesis of Aminomethylated Azaindoles and Corresponding Pyrrole-Fused Derivatives by Copper-Catalyzed Domino Multicomponent Coupling and Cyclization
Hou, Z.; Suzuki, Y.; Oishi, S.; Fujii, N.*; Ohno, H.* *Tetrahedron* **2012**, *68*, 1695–1703.
- (4) Gold-Catalyzed Three-Component Annulation: Efficient Synthesis of Highly Functionalized Dihydropyrazoles from Alkynes, Hydrazines, and Aldehydes or Ketones
Suzuki, Y.; Naoe, S.; Oishi, S.; Fujii, N.*; Ohno, H.* *Org. Lett.* **2012**, *14*, 326–329.
- (5) Gold(I)-Catalyzed Polycyclizations of Poly(enyne)anilines Based on Hydroamination and Consecutive Hydroarylation Cascade
Hirano, K.; Inaba, Y.; Takasu, K.; Oishi, S.; Takemoto, Y.; Fujii, N.; Ohno, H.* *J. Org. Chem.* **2011**, *76*, 9068–9080.
- (6) Palladium-Catalyzed Construction of Polycyclic Heterocycles by an Alkyne Insertion and Direct Arylation Cascade
Ohno, H.*; Yamamoto, M.; Iuchi, M.; Fujii, N.; Tanaka, T.* *Synthesis* **2011**, 2567–2578 (招待論文).
- (7) Formal Total Synthesis of (+)-Lysergic Acid via Zinc(II)-Mediated Regioselective Ring-Opening Reduction of 2-Alkynyl-3-indolyloxirane
Iwata, A.; Inuki, S.; Oishi, S.; Fujii, N.*; Ohno, H.* *J. Org. Chem.* **2011**, *76*, 5506–5512.
- (8) Direct Synthesis of Highly Fused Perimidines by Copper(I)-Catalyzed Hydroamination of 2-Ethynylbenzaldehydes
Tokimizu, Y.; Ohta, Y.; Chiba, H.; Oishi, S.; Fujii, N.*; Ohno, H.* *Tetrahedron* **2011**, *67*, 5168–5175.

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）

- (1) Gold-Catalyzed Three-Component Annulation: an Efficient Synthesis of 1,2,3,5-Tetra-substituted Dihydropyrazoles from Alkynes, Aldehydes, and Hydrazines
Suzuki, Y.; Oishi, S.; Fujii, N.; Ohno, H. 242nd American Chemical Society National Meeting & Exposition, Denver, USA, 2011.8.28-9.2（ポスター発表）.
- (2) Total Synthesis of (+)-Lysergic Acid by Palladium-Catalyzed Domino Cyclization of Amino Allenes Bearing a Bromoindolyl Group
Ohno, H.; Inuki, S.; Iwata, A.; Oishi, S.; Fujii, N. AIMECS11, Tokyo, 2011.11.29-12.2（ポスター発表）.
- (3) Efficient Synthesis of Highly Functionalized Dihydropyrazoles via Gold-Catalyzed Three-Component Annulation
Suzuki, Y.; Oishi, S.; Fujii, N.; Ohno, H. AIMECS11, Tokyo, 2011.11.29-12.2（ポスター発表）.
- (4) Synthetic Study of Quinocarcin
Chiba, H.; Oishi, S.; Fujii, N.; Ohno, H. AIMECS11, Tokyo, 2011.11.29-12.2（ポスター発表）.
- (5) Efficient Synthesis of Pyrimido[1,2-*c*]benzothiazin-6-imine and Related Tricyclic Heterocycles by Cu(II)-mediated C–H Functionalization and Aromatic Nucleophilic Substitution
Mizuhara, T.; Oishi, S.; Fujii, N.; Ohno, H. AIMECS11, Tokyo, 2011.11.29-12.2（ポスター発表）.
- (6) Direct Synthesis of Quinazolines through Copper-Catalyzed Reactions of Aniline-Derived Benzamidines
Tokimizu, Y.; Ohta, Y.; Oishi, S.; Fujii, N.; Ohno, H. AIMECS11, Tokyo, 2011.11.29-12.2（ポスター発表）.
- (7) Synthetic Study of Quinocarcin
Chiba, H.; Oishi, S.; Fujii, N.; Ohno, H. 243rd American Chemical Society National Meeting & Exposition, San Diego, USA, 2012.3.25-29（ポスター発表）.

3. 特許

該当事項はありません。

4. 学会・シンポジウム等の開催状況

該当事項はありません。

5. 受賞等

(1) 井貫晋輔 (2011年3月博士後期課程修了)

Springer Theses Award ドイツ Springer 社、2011.6.20

(2) 鈴木大和 (D3)

第37回反応と合成の進歩シンポジウム優秀発表賞、2011.11.8

(3) 岩田顕 (M2)

第37回反応と合成の進歩シンポジウム優秀発表賞、2011.11.8

6. 新聞報道等

該当事項はありません。

7. 国民との科学・技術対話

該当事項はありません。

8. 領域内の共同研究の準備・実施状況とその成果

該当事項はありません。