

## 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) An unexpected disproportional reaction of 2*H*-azirines giving (1*E*,3*Z*)-2-aza-1,3-dienes and aromatic nitriles in the presence of nickel catalysts  
Okamoto, K.; Mashida, A.; Watanabe, M.; Ohe, K.\* *Chem. Commun.* **2012**, 48, 3554-3556.
- (2) Practical synthesis of aromatic nitriles via gallium-catalysed electrophilic cyanation of aromatic C–H bonds  
Okamoto, K. Watanabe, M.; Murai, M.; Hatano, R.; Ohe, K.\* *Chem. Commun.* **2012**, 48, 3127-3129.
- (3) Influence of Side Chain Length on Fluorescence Intensity of ROMP-Based Polymeric Nanoparticles and Their Tumor Specificity in In Vivo Tumor Imaging  
Miki, K.; Oride, K.; Kimura, A.; Kuramochi, Y.; Matsuoka, H.; Harada, H.; Hiraoka, M.; Ohe, K.\* *Small* **2011**, 5, 3536-3547.
- (4) Palladium-catalyzed Decarboxylative Intramolecular Aziridination from 4*H*-Isoxazol-5-ones Leading to 1-Azabicyclo[3.1.0]hex-2-enes  
Okamoto, K.; Oda, T.; Kohigashi, S.; Ohe, K.\* *Angew. Chem. Int. Ed.* **2011**, 50, 11470-11473.
- (5) High-Contrast Fluorescence Imaging of Tumors In Vivo Using Nanoparticles of Amphiphilic Brush-Like Copolymers Produced by ROMP  
Miki, K.; Kimura, A.; Oride, K.; Kuramochi, Y.; Matsuoka, H.; Harada, H.; Hiraoka, M.; Ohe, K.\* *Angew. Chem. Int. Ed.* **2011**, 50, 6567-6570.
- (6) Near-infrared BODIPY dyes modulated with spirofluorene moieties  
Kowada, T.; Yamaguchi, S.; Fujinaga, H.; Ohe, K.\* *Tetrahedron* **2011**, 67, 3105-3110.

### 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) Preparation of Amphiphilic Brush-Like Copolymers Based on Ring-Opening Metathesis Polymerization and Their Application to In Vivo Fluorescence Tumor Imaging  
Ohe, K. Asia Core Program New Phase of Cutting-Edge Organic Chemistry in Asia: Lectureship Tour in Korea, Yonsei University, Seoul, Korea, 2011.11.1（招待講演）.
- (2) Preparation of Amphiphilic Brush-Like Copolymers Based on Ring-Opening Metathesis Polymerization and Their Application to In Vivo Fluorescence Tumor Imaging  
Ohe, K. Asia Core Program New Phase of Cutting-Edge Organic Chemistry in Asia:

Lectureship Tour in Korea, KAIST, Daejeon, Korea, 2011.11.2 (招待講演) .

- (3) Preparation of Amphiphilic Brush-Like Copolymers Based on Ring-Opening Metathesis Polymerization and Their Application to In Vivo Fluorescence Tumor Imaging  
Ohe, K. Asia Core Program New Phase of Cutting-Edge Organic Chemistry in Asia: Lectureship Tour in Korea, POSTECH, Pohang, Korea, 2011.11.3 (招待講演) .
- (4) Preparation of Amphiphilic Brush-Like Copolymers Based on Ring-Opening Metathesis Polymerization and Their Application to In Vivo Fluorescence Tumor Imaging  
Ohe, K. Asia Core Program New Phase of Cutting-Edge Organic Chemistry in Asia: Lectureship Tour in Korea, Ewha Womans University, Seoul, Korea, 2011.11.4 (招待講演) .
- (5) Palladium-catalyzed Decarboxylative Transformation of Cyclic Oxime Esters  
Okamoto, K.; Oda, T.; Kohigashi, S.; Ohe, K. The Seventh International Symposium on Integrated Synthesis (ISIS-7), Kobe, Japan, 2011.10.9-10 (ポスター発表) .
- (6) Synthesis and Evaluation of Amino Acid-grafted Brush-like Copolymers for Optical Tumor Imaging  
Miki, K.; Nakano, K.; Matsuoka, H.; Harada, H.; Hiraoka, M.; Ohe, K. The Seventh International Symposium on Integrated Synthesis (ISIS-7), Kobe, Japan, 2011.10.9-10 (ポスター発表) .

### 3. 特許

該当無し

### 4. 学会・シンポジウム等の開催状況

該当無し

### 5. 受賞等

該当無し

### 6. 新聞報道等

該当無し

### 7. 国民との科学・技術対話

該当無し

**8. 領域内の共同研究の準備・実施状況とその成果**

該当無し