

Publication List

Original Papers

- 1) Total Synthesis of (+)- and (-)-Tryptoquivaline G by Biomimetic Double Cyclization. Masako Nakagawa, Mikio Taniguchi, Mikiko Sodeoka, Manabu Ito, Keiichi Yamaguchi, and Tohru Hino. *J. Am. Chem. Soc.*, **105**, 3709-3710 (1983).
- 2) Oxidation of 2,3-Disubstituted Indoles with *m*-Chloroperbenzoic Acid. Formation of *o*-Aminophenol Derivatives and a Dimeric Product. Tohru Hino, Hitoshi Yamaguchi, Kenji Matsuki, Kumiko Nakano, Mikiko Sodeoka, and Masako Nakagawa. *J. Chem. Soc. Perkin Trans. I*, 141-146 (1983).
- 3) Synthesis of the Imidazo[1,2-*a*]indole-spirolactone Ring System by Oxidative Double Cyclization. A Synthetic Approach to Tryptoquivalines. Masako Nakagawa, Mikiko Sodeoka, Keiichi Yamaguchi, and Tohru Hino. *Chem. Pharm. Bull.*, **32**, 1373-1384 (1984).
- 4) Total Synthesis of (+)- and (-)-Tryptoquivalin G and L by Biomimetic Double Cyclization. Masako Nakagawa, Mikio Taniguchi, Mikiko Sodeoka, Manabu Ito, Keiichi Yamaguchi, and Tohru Hino. *Heterocycles*, **21**, 406-406 (1984).
- 5) Practical Synthesis of (+)-9(O)-methano- $\Delta^{6(9\alpha)}$ -PGI₁. The Highly Potent Carbon Analog of Prostacyclin. Mikiko Sodeoka, and Masakatsu Shibasaki. *Chem. Lett.*, 579-582 (1984).
- 6) An Efficient Synthesis of Isocarbacyclin Starting from Furfural. Toshiaki Mase, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **25**, 5087-5090 (1984).
- 7) Stereospecific Synthesis of Exo-trisubstituted Olefins. The Highly Efficient Synthesis of Carbacyclins. Masakatsu Shibasaki, Mikiko Sodeoka, and Yuji Ogawa. *J. Org. Chem.*, **49**, 4096-4098 (1984).
- 8) New Function of (Arene)tricarbonylchromium(0) Complexes as Hydrogenation Catalysts: Stereospecific Semihydrogenation of Alkynes and Highly Chemoselective Hydrogenation of α,β -unsaturated Carbonyl Compounds. Mikiko Sodeoka, and Masakatsu Shibasaki. *J. Org. Chem.*, **50**, 1147-1149 (1985).
- 9) Stereospecific Construction of Exo-tetrasubstituted Olefins. The Efficient Synthesis of Cyano-carbacyclins. Masakatsu Shibasaki, and Mikiko Sodeoka. *Tetrahedron Lett.*, **26**, 3491-3494 (1985).
- 10) Stereospecific Synthesis of Exo-allylic Alcohol. An Efficient Asymmetric Synthesis of (*R*)-(-)-2-acetyl-5,8-dimethoxy-1,2,3,4-tetrahydro-2-naphthol. Mikiko Sodeoka, Takamasa Iimori, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **26**, 6497-6500 (1985).
- 11) Asymmetric Synthesis of (2*R*)-2-Hydroxy-2-(2-(*Z*)-octenyl)-1-cyclopentanone. Genji Iwasaki, Mami Sano, Mikiko Sodeoka, Kiyoshi Yoshida, and Masakatsu Shibasaki. *J. Org. Chem.*, **53**, 4864-4867 (1988).
- 12) Highly Efficient Synthesis of Carbacyclin Analogue. Stereospecific Synthesis of Aryl-Substituted Exocyclic Olefin. Mikiko Sodeoka, Shoji Satoh, and Masakatsu Shibasaki. *J. Am. Chem. Soc.*, **110**, 4823-4824 (1988).
- 13) Highly Stereoselective Synthesis of Exocyclic Tetrasubstituted Enol Ethers and Olefins. A Synthesis of Nileprost. Atsuo Takahashi, Yoshie Kirio, Mikiko Sodeoka, Hiroaki Sasai, and Masakatsu Shibasaki. *J. Am. Chem. Soc.*, **111**, 643-647 (1989).
- 14) Efficient Synthesis of Isocarbacyclins. Mikiko Sodeoka, Yuji Ogawa, Toshiaki Mase, and Masakatsu Shibasaki. *Chem. Pharm. Bull.*, **37**, 586-598 (1989).

- 15) Synthetic Studies of Azadirachtin. Synthesis of the Cyclic Acetal Intermediate in Naturally Occuring Form. Yuji Nishikimi, Takamasa Iimori, Mikiko Sodeoka, and Masakatsu Shibasaki. *J. Org. Chem.*, **54**, 3354-3359 (1989).
- 16) Catalytic Asymmetric C-C Bond Formation: Asymmetric Synthesis of *cis*-Decalin Derivatives by Palladium-Catalyzed Cyclization of Prochiral Alkenyl Iodides. Yoshihiro Sato, Mikiko Sodeoka, and Masakatsu Shibasaki. *J. Org. Chem.*, **54**, 4738-4739 (1989).
- 17) A New Method for the Stereocontrolled Synthesis of Silyl Dienol Ethers Using (Naphthalene)chromium Tricarbonyl Catalyzed Isomerization. Mikiko Sodeoka, Hiroyoshi Yamada, and Masakatsu Shibasaki. *J. Am. Chem. Soc.*, **112**, 4906-4911 (1990).
- 18) On the Role of Silver Salts in Asymmetric Heck-type Reaction. A Greatly Improved Catalytic Asymmetric Synthesis of *cis*-Decalin Derivatives. Yoshihiro Sato, Mikiko Sodeoka, and Masakatsu Shibasaki. *Chem. Lett.*, 1953-1954 (1990).
- 19) Stereocontrolled Synthesis of Exocyclic Olefins Using Arene Tricarbonyl Chromium Complex Catalyzed Hydrogenation: 1. Efficient Synthesis of Carbacyclin and Its Analogs. Mikiko Sodeoka, Yuji Ogawa, Yoshie Kirio, and Masakatsu Shibasaki. *Chem. Pharm. Bull.*, 309-322 (1991).
- 20) Stereocontrolled Synthesis of Exocyclic Olefins Using Arene Tricarbonyl Chromium Complex Catalyzed Hydrogenation: 2. A Catalytic Asymmetric Synthesis of the Anthracycline Intermediate. Mikiko Sodeoka, Takamasa Iimori, and Masakatsu Shibasaki. *Chem. Pharm. Bull.*, 323-327 (1991).
- 21) Control of Ring Junction Stereochemistry via Radical Cyclization. A New Construction of *trans*-Hydrindan System. Shoji Satoh, Mikiko Sodeoka, Hiroaki Sasai, and Masakatsu Shibasaki. *J. Org. Chem.*, **56**, 2278-2280 (1991).
- 22) A New Method for the Stereocontrolled Synthesis of Dienamine Derivatives Using (Naphthalene)chromium Tricarbonyl Catalyzed Isomerization. Hiroyoshi Yamada, Mikiko Sodeoka, and Masakatsu Shibasaki. *J. Org. Chem.*, **56**, 4569-4574 (1991).
- 23) An Effective System for Epoxide-Initiated Cation-Olefin Cyclization. E. J. Corey and Mikiko Sodeoka. *Tetrahedron Lett.*, **32**, 7005-7008 (1991).
- 24) Synthesis of *cis*-Decalin Derivative via π -Allylpalladium Intermediate and Its Transformation to Usefully Functionalized *trans*-Decalin Derivative. Toshiyasu Takemoto, Yuji Nishikimi, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **33**, 3527-3530 (1992).
- 25) A Catalytic Asymmetric Synthesis of *cis*-Decalin Derivatives via π -Allylpalladium Intermediates. Toshiyasu Takemoto, Yuji Nishikimi, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **33**, 3531-3532 (1992).
- 26) A Multifunctional Plasmid for Protein Expression by ECPCR: Overproduction of the p50 Subunit of NF- κ B. Mikiko Sodeoka, Christopher J. Larson, Lin Chen, Kenneth P. LeClair, and Gregory L. Verdine. *Bioorg. Med. Chem. Lett.*, **3**, 1089-1094 (1993).
- 27) Limited Proteolysis and Site-Directed Mutagenesis of the NF- κ B p50 DNA-Binding Subunit. Mikiko Sodeoka, Christopher J. Larson, Lin Chen, William S. Lane, and Gregory L. Verdine. *Bioorg. Med. Chem. Lett.*, **3**, 1095-1100 (1993).
- 28) Asymmetric Heck Reaction. A Catalytic Asymmetric Synthesis of the Key Intermediate for Vernolepin. Kazuhiro Kondo, Mikiko Sodeoka, Miwako Mori, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **34**, 4219-4222 (1993).
- 29) Catalytic Asymmetric Synthesis of a Functionalized Indolizidine Derivative. A Useful Intermediate Suitable for the Synthesis of Various Glycosidase Inhibitors. Seiji Nukui, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **34**, 4965-4968 (1993).

- 30) Catalytic Asymmetric Synthesis of Benzylic Quaternary Carbon Centers. An Efficient Synthesis of (-)-Eptazocine. Toshiyasu Takemoto, Mikiko Sodeoka, Hiroaki Sasai, and Masakatsu Shibasaki. *J. Am. Chem. Soc.*, **115**, 8477-8478 (1993).
- 31) Asymmetric Heck Reaction. Catalytic Asymmetric Syntheses of Bicyclic Enones, Dienones and the Key Intermediate for Vernolepin. Kazuhiro Kondo, Mikiko Sodeoka, Miwako Mori, and Masakatsu Shibasaki. *Synthesis*, 920-930 (1993).
- 32) Manganese(III)-Based Oxidative Free-Radical Reaction of α -Allyl- β -Keto Ester with Molecular Oxygen. Takashi Ohshima, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **34**, 8509-8512 (1993).
- 33) Palladium-Catalyzed Asymmetric Arylation of 4,7-Dihydro-1,3-dioxepin. Catalytic Asymmetric Synthesis of γ -Butyrolactone Derivatives. Yuichi Koga, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **35**, 1227-1231 (1994).
- 34) Asymmetric Heck Reaction of Alkenyl Iodides in the Presence of Silver Salts. Catalytic Asymmetric Synthesis of Decalin and Functionalized Indolizidine Derivatives. Yoshihiro Sato, Seiji Nukui, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron*, **50**, 371-382 (1994).
- 35) Carbon-Carbon Bond-Forming Reaction Through a η^5 -Pentadienylchromium Complex. Mikiko Sodeoka, Hiroyoshi Yamada, Toshiyuki Shimizu, Susumu Watanuki, and Masakatsu Shibasaki. *J. Org. Chem.*, **59**, 712-714 (1994).
- 36) Evidence for a Non- α -helical DNA-binding Motif in the Rel Homology Region. Jia Liu, Mikiko Sodeoka, William S. Lane, Gregory L. Verdine. *Proc. Natl. Acad. Sci. USA*, **91**, 908-912 (1994).
- 37) DNA Binding by an Amino Acid Residue in the C-terminal Half of the Rel Homology Region. Jia Liu, Qing R. Fan, Mikiko Sodeoka, William S. Lane, Gregory L. Verdine. *Chem. & Biol.*, **1**, 47-55 (1994).
- 38) Asymmetric Heck-Type Reaction Utilizing Hypervalent Alkenyliodonium Salt. Yuji Kurihara, Mikiko Sodeoka, and Masakatsu Shibasaki. *Chem. Pharm. Bull.*, **42**, 2357-2359 (1994).
- 39) Effects of Solvent and Additives in the Asymmetric Heck Reaction of Alkenyl Triflates: Catalytic Asymmetric Synthesis of Decalin Derivatives and Determination of the Absolute Stereochemistry of (+)-Vernolepin. Kazuhiko Ohrai, Kazuhiro Kondo, Mikiko Sodeoka, and Masakatsu Shibasaki. *J. Am. Chem. Soc.*, **116**, 11737-11748 (1994).
- 40) Regio- and Stereoselective Functionalization of the Optically Active Tetrahydroindolizine Derivative. Catalytic Asymmetric Synthesis of Lentiginosine, 1,2-Diepileptiginosine, and Geraphyrotxin 209D. Seiji Nukui, Mikiko Sodeoka, Hiroaki Sasai, and Masakatsu Shibasaki. *J. Org. Chem.*, **60**, 398-404 (1995).
- 41) Structure of the NF- κ B p50 Homodimer Bound to DNA. Christoph W. Müller, Félix A. Rey, Mikiko Sodeoka, Gregory L. Verdine, and Stephen C. Harrison. *Nature*, **373**, 311-317 (1995).
- 42) Stereocontrolled Syntheses of Phorbol Analogs and Evaluation of Their Binding Affinity to PKC. Kazuyuki Sugita, Charles F. Neville, Mikiko Sodeoka, Hiroaki Sasai, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **36**, 1067-1070 (1995).
- 43) Catalytic Asymmetric Aldol Reaction via Chiral Pd(II) Enolate in Wet DMF. Mikiko Sodeoka, Kazuhiko Ohrai, and Masakatsu Shibasaki. *J. Org. Chem.*, **60**, 2648-2649 (1995).
- 44) Regioselective Olefin Insertion in Asymmetric Heck Reaction. Catalytic Asymmetric Synthesis of a Versatile Intermediate for Diterpene Syntheses. Kazuhiro Kondo, Mikiko Sodeoka, and Masakatsu Shibasaki. *J. Org. Chem.*, **60**, 4322-4323 (1995).

- 45) Catalytic Asymmetric Synthesis of a Versatile Intermediate for Diterpene Syntheses. Regioselective Olefin Insertion in Asymmetric Heck Reaction. Kazuhiro Kondo, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron: Asymmetry* **6**, 2453-2464 (1995).
- 46) Synthesis and Crystal Structure of a New C₂-Symmetric Chiral Bis-sulfoxide Ligand and Its Palladium(II) Complex. Ryosuke Tokunoh, Mikiko Sodeoka, Kei-ichi Aoe, and Masakatsu Shibasaki. *Tetrahedron Lett.* **36**, 8035-8038 (1995).
- 47) Photoaffinity Labeling of PKC with a Phorbol Derivative: Importance of the 13-Acyl Group in Phorbol Ester-PKC Interaction. Mikiko Sodeoka, Koichiro Uotsu, and Masakatsu Shibasaki. *Tetrahedron Lett.* **36**, 8795-8798 (1995).
- 48) Determination of the C-7,9,12,13,17 and 18 Stereochemistry of Tautomycetin. Synthesis of the Tautomycetin Degradation Product. Jian-Ping Dai, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **37**, 491-494 (1996).
- 49) Novel Phorbol Analogs Which Bind to Protein Kinase C (PKC) without Activation. Kazuyuki Sugita, Daisuke Sawada, Mikiko Sodeoka, Hiroaki Sasai, and Masakatsu Shibasaki. *Chem. Pharm. Bull.*, **44**, 463-465 (1996).
- 50) Catalytic Asymmetric Intramolecular Cyclopropanation of Enol Silyl Ether. Synthesis of the Phorbol CD-Ring Skeleton. Ryosuke Tokunoh, Hiroshi Tomiyama, Mikiko Sodeoka, and Masakatsu Shibasaki. *Tetrahedron Lett.*, **37**, 2449-2452 (1996).
- 51) Catalytic Asymmetric Synthesis of Halenaquinone and Halenaquinol. Akihiko Kojima, Toshiyasu Takemoto, Mikiko Sodeoka, and Masakatsu Shibasaki. *J. Org. Chem.*, **61**, 4876-4877 (1996).
- 52) Asymmetric Heck Reaction-Carbanion Capture Process. Catalytic Asymmetric Total Synthesis of (-)- $\Delta^{9(12)}$ -Capnellene. Takashi Ohshima, Katsuji Kagechika, Midori Adachi, Mikiko Sodeoka, and Masakatsu Shibasaki. *J. Am. Chem. Soc.*, **118**, 7108-7116 (1996).
- 53) Asymmetric Synthesis of RK-682 and Its Analogs, and Evaluation of Their Protein Phosphatase Inhibitory Activities. Mikiko Sodeoka, Rumiko Sampe, Terumi Kagamizono, and Hiroyuki Osada. *Tetrahedron Lett.*, **37**, 8775-8778 (1996).
- 54) Stable Diaqua Palladium(II) Complexes of BINAP and Tol-BINAP as Highly Efficient Catalysts for Asymmetric Aldol Reactions. Mikiko Sodeoka, Ryosuke Tokunoh, Futoshi Miyazaki, Emiko Hagiwara, and Masakatsu Shibasaki. *SYNLETT*, 463-466 (1997).
- 55) Structure-Activity Relationship of Cantharidin Derivatives to Protein Phosphatases 1, 2A₁, and 2B. Mikiko Sodeoka, Yoshiyasu Baba, Satoko Kobayashi, and Nozomu Hirukawa. *Bioorg. Med. Chem. Lett.*, **7**, 1833-1836 (1997).
- 56) Rational Design, Synthesis and Evaluation of a New Type of PKC Inhibitor. Mikiko Sodeoka, Midori A. Arai, Koji Adachi, Koichiro Uotsu, and Masakatsu Shibasaki. *J. Am. Chem. Soc.*, **120**, 457-458 (1998).
- 57) Enantioselective Addition of Enol Silyl Ethers to Imines Catalyzed by Palladium Complexes: A Novel Way to Optically Active Acylalanine Derivatives. Emiko Hagiwara, Akio Fujii, and Mikiko Sodeoka. *J. Am. Chem. Soc.*, **120**, 2474-2475 (1998).
- 58) Catalytic Asymmetric Synthesis of Halenaquinone and Halenaquinol. Akihiko Kojima, Toshiyasu Takemoto, Mikiko Sodeoka, and Masakatsu Shibasaki. *Synthesis*, 581-589 (1998).
- 59) Photoaffinity Labeling of PKC Isozymes by Phorbol Ester Derivatives. Koichiro Uotsu, Mikiko Sodeoka, and Masakatsu Shibasaki. *Bioorg. Med. Chem.*, **6**, 1117-1126 (1998).
- 60) Polymer-Bound N-hydroxysuccinimide Esters: A Column-Free Fluorescent-Labeling Method. Miho Katoh and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.*, **9**, 881-884 (1999).

- 61) (2*E*,6*R*)-8-Hydroxy-2,6-dimethyl-2-octenoic Acid, a Novel Anti-osteoporotic Monoterpene, Isolated from *Cistanche salsa*. Koji Yamaguchi, Chikara Shinohara, Sachiko Kojima, Mikiko Sodeoka, Tomoko Tsuji. *Biosci. Biotech. Biochem.* **63**, 731-735 (1999).
- 62) Mechanism of Palladium Complex-Catalyzed Enantioselective Mannich-Type Reaction: Characterization of A Novel Binuclear Palladium Enolate Complex. Akio Fujii, Emiko Hagiwara, and Mikiko Sodeoka. *J. Am. Chem. Soc.*, **121**, 5450-5458 (1999).
- 63) Palladium Diaqua and Hydroxo Complexes with Polymer-supported BINAP Ligands and Their Use for Catalytic Enantioselective Reactions. Akio Fujii and Mikiko Sodeoka. *Tetrahedron Lett.*, **40**, 8011-8014 (1999).
- 64) Novel α -Glucosidase Inhibitors with a Tetrachlorophthalimide Skeleton. Sonei Sou, Satoshi Mayumi, Hiroyasu Takahashi, Ryu Yamasaki, Shizuo Kadoya, Mikiko Sodeoka, and Yuichi Hashimoto. *Bioorg. Med. Chem. Lett.*, **10**, 1081-1084 (2000).
- 65) Identification of Protein Disulfide Isomerase as a Phorbol Ester-Binding Protein. Satoshi Mayumi, Akihiko Azuma, Hisayoshi Kobayashi, Mikiko Sodeoka, Keiichi Yano, Seiji Sugimoto, Yasuyuki Endo, and Yuichi Hashimoto. *Biol. Pharm. Bull.*, **23**, 1111-1113 (2000).
- 66) α -Glucosidase Inhibitors with a Tetrachlorophthalimide Skeleton; Structure-Activity Relationship Study. Hiroyasu Takahashi, Sonei Sou, Ryu Yamasaki, Mikiko Sodeoka, and Yuichi Hashimoto. *Chem. Pharm. Bull.*, **48**, 1494-1499 (2000).
- 67) Anti-Androgenic Activity of Substituted Azo- and Azoxy-Benzene Derivatives. Hiroyasu Takahashi, Toshiyasu Ishioka, Yoshiko Koiso, Mikiko Sodeoka, and Yuichi Hashimoto. *Biol. Pharm. Bull.*, **23**, 1387-1390 (2000).
- 68) Asymmetric Synthesis of a 3-Acyltetronic Acid Derivative, RK-682, and Formation of Its Calcium Salt during Silica Gel Column Chromatography. Mikiko Sodeoka, Ruriko Sampe, Sachiko Kojima, Yoshiyasu Baba, Naoko Morisaki, and Yuichi Hashimoto. *Chem. Pharm. Bull.*, **49**, 206-212 (2001).
- 69) Synthesis of a Tetronic Acid Library Focused on Inhibitors of Tyrosine and Dual-Specificity Protein Phosphatases and Its Evaluation Regarding VHR and Cdc25B Inhibition. Mikiko Sodeoka, Ruriko Sampe, Sachiko Kojima, Yoshiyasu Baba, Takeo Usui, Kazunori Ueda, and Hiroyuki Osada. *J. Med. Chem.*, **44**, 3216-3222 (2001).
- 70) Design and Synthesis of a Dimeric Derivative of RK-682 with Increased Inhibitory Activity against VHR, a Dual-Specificity ERK Phosphatase: Implications for Molecular Mechanism of the Inhibition. Takeo Usui, Sachiko Kojima, Shun-ichi Kidokoro, Kazunori Ueda, Hiroyuki Osada, and Mikiko Sodeoka. *Chem. & Biol.*, **8**, 1209-1220 (2001).
- 71) Direct Generation of Nucleophilic Chiral Palladium Enolate from 1,3-Dicarbonyl Compounds: Catalytic Enantioselective Michael Reaction with Enones. Yoshitaka Hamashima, Daido Hotta, and Mikiko Sodeoka. *J. Am. Chem. Soc.*, **124**, 11240-11241 (2002).
- 72) Solution-Phase Parallel Synthesis of Carbamates Using Polymer-bound *N*-Hydroxysuccinimide. Hirokazu Sumiyoshi, Takafumi Shimizu, Miho Katoh, Yoshiyasu Baba, and Mikiko Sodeoka. *Org. Lett.*, **4**, 3923-3926 (2002).
- 73) An Efficient Enantioselective Fluorination of Various β -Ketoesters Catalyzed by Chiral Palladium Complexes. Yoshitaka Hamashima, Kenji Yagi, Hisashi Takano, László Tamás, and Mikiko Sodeoka. *J. Am. Chem. Soc.*, **124**, 14530-14531 (2002).
- 74) Structure-Based Design of Highly Selective Catalytic Site-Directed Inhibitor of Ser/Thr Protein Phosphatase 2B (Calcineurin). Yoshiyasu Baba, Nozomu Hirukawa, Naoto Tanohira, and Mikiko Sodeoka. *J. Am. Chem. Soc.*, **125**, 9740-9749 (2003).

- 75) Immobilization and Reuse of Pd Complexes in Ionic Liquid: Efficient Catalytic Asymmetric Fluorination and Michael Reactions with β -Ketoesters. Yoshitaka Hamashima, Hisashi Takano, Daido Hotta, and Mikiko Sodeoka. *Org. Lett.* **5**, 3225-3228 (2003).
- 76) Conversion of Ca^{2+} Salt of an Organic Compound to Its Li^+ Salt to Simplify the Fast Atom Bombardment Mass Spectrum. Naoko Morisaki, Hisayoshi Kobayashi, Kazuo Nagasawa, Yoshiyasu Baba, Mikiko Sodeoka, and Yuichi Hashimoto. *Chem. Pharm. Bull.* **51**, 1341-1344 (2003).
- 77) Design, Synthesis, and Structure-Activity Relationship of New Isobenzofuranone Ligands of Protein Kinase C. Yoshiyasu Baba, Yosuke Ogoshi, Go Hirai, Takeshi Yanagisawa, Kumiko Nagamatsu, Satoshi Mayumi, Yuichi Hashimoto, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **14**, 2963-2967 (2004).
- 78) Evaluation of Series of Isobenzofuranone Dimers as PKC α Ligands: Implication for the Distance between the Two Ligand Binding Sites. Yoshiyasu Baba, Satoshi Mayumi, Go Hirai, Hidekazu Kawasaki, Yosuke Ogoshi, Takeshi Yanagisawa, Yuichi Hashimoto, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **14**, 2969-2972 (2004).
- 79) Amine-salt-controlled, Catalytic Asymmetric Conjugate Addition of Various Amines and Asymmetric Protonation. Yoshitaka Hamashima, Hidenori Somei, Yuta Shimura, Toshihiro Tamura, and Mikiko Sodeoka. *Org. Lett.* **6**, 1861-1864. (2004).
- 80) Structure-based Design of a Selective Heparanase Inhibitor as an Antimetastatic Agent. Keisuke Ishida, Go Hirai, Koji Murakami, Takayuki Teruya, Siro Simizu, Mikiko Sodeoka, and Hiroyuki Osada. *Mol. Cancer Therapeutics*, **3**, 1069-1077 (2004).
- 81) Catalytic Asymmetric Addition of β -Ketoesters to Various Imines Using Chiral Pd Complexes. Yoshitaka Hamashima, Naoki Sasamoto, Daido Hotta, Hidenori Somei, Natsuko Umebayashi, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.* **44**, 1525-1529 (2005).
- 82) An Efficient Catalytic Enantioselective Fluorination of β -Ketophosphonates Using Chiral Palladium Complexes. Yoshitaka Hamashima, Toshiaki Suzuki, Yuta Shimura, Tadashi Shimizu, Natsuko Umebayashi, Toshihiro Tamura, Naoki Sasamoto, and Mikiko Sodeoka. *Tetrahedron Lett.* **46**, 1447-1450 (2005).
- 83) Structure-Activity Relationship of *N*-Methyl-Bisindolylmaleimide Derivatives as Cell Death Inhibitors. Miho Katoh, Kosuke Dodo, Mikako Fujita, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **15**, 3109-3113 (2005).
- 84) Inhibition of Hydrogen Peroxide-Induced Necrotic Cell Death with 3-Amino-2-Indolylmaleimide Derivatives. Kosuke Dodo, Miho Katoh, Tadashi Shimizu, Masahiro Takahashi, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **15**, 3114-3118 (2005).
- 85) Asymmetric Total Synthesis of (-)-Spirofungin A and (+)-Spirofungin B. Takeshi Shimizu, Tomoharu Sato, Katsunori Murakoshi, and Mikiko Sodeoka. *Org. Lett.* **7**, 5573-5576 (2005).
- 86) Optically Active Cantharidin Analogues Possessing Selective Inhibitory Activity on Ser/Thr Protein Phosphatase 2B (Calcineurin): Implications for the Binding Mode. Yoshiyasu Baba, Nozomu Hirukawa, and Mikiko Sodeoka. *Bioorg. Med. Chem.* **13**, 5164-5170 (2005).
- 87) Catalytic Enantioselective Fluorination of Oxindoles. Yoshitaka Hamashima, Toshiaki Suzuki, Hisashi Takano, Yuta Shimura, and Mikiko Sodeoka. *J. Am. Chem. Soc.* **127**, 10164-10165 (2005).
- 88) Catalytic Enantioselective Michael Reaction of 1,3-Dicarbonyl Compounds via Formation of Chiral Palladium Enolate. Yoshitaka Hamashima, Daido Hotta, Natsuko Umebayashi, Yasunori Tsuchiya, Takeyuki Suzuki, and Mikiko Sodeoka. *Adv. Synth. Cat.* **347**, 1576-1586 (2005).
- 89) Highly enantioselective fluorination reactions of β -ketoesters and β -ketophosphonates catalyzed by chiral palladium complexes. Yoshitaka Hamashima, Toshiaki Suzuki, Hisashi Takano, Yuta Shimura,

- Yasunori Tsuchiya, Ken-ichi Moriya, Tomomi Goto, and Mikiko Sodeoka. *Tetrahedron*, **62**, 7168-7179 (2006).
- 90) A New Entry to Pd-H Chemistry: Catalytic Asymmetric Conjugate Reduction of Enones with EtOH, and a Highly Enantioselective Synthesis of Warfarin. Yasunori Tsuchiya, Yoshitaka Hamashima, and Mikiko Sodeoka. *Org. Lett.* **8**, 4851-4854 (2006).
- 91) Pd(II)-Catalyzed Asymmetric Addition of Malonates to Dihydroisoquinolines. Naoki Sasamoto, Christian Dubs, Yoshitaka Hamashima, and Mikiko Sodeoka. *J. Am. Chem. Soc.* **128**, 14010-14011 (2006).
- 92) Enantioselective Fluorination of *tert*-Butoxycarbonyl Lactones and Lactams Catalyzed by Chiral Pd(II)-Bisphosphine Complexes. Toshiaki Suzuki, Tomomi Goto, Yoshitaka Hamashima, and Mikiko Sodeoka. *J. Org. Chem.* **72**, 246-250 (2007).
- 93) Catalytic Asymmetric Aldol Reactions of Enolizable Carbon Pronucleophiles with Formaldehyde and Ethyl Glyoxylate. Isao Fukuchi, Yoshitaka Hamashima, and Mikiko Sodeoka. *Adv. Synth. Cat.* **349**, 509-512 (2007).
- 94) Pd(II)-Catalyzed Asymmetric Fluorination of α -Aryl- α -Cyanophosphonates with the Aid of 2,6-Lutidine. Ken-ichi Moriya, Yoshitaka Hamashima, and Mikiko Sodeoka. *SYNLETT* 1139-1142 (2007).
- 95) Importance of interaction between C1 domain and lipids in protein kinase C α activation: Hydrophobic side chain direction in isobenzofuranone ligands controls enzyme activation level. Go Hirai, Tadashi Shimizu, Toru Watanabe, Yosuke Ogoshi, Megumi Ohkubo and Mikiko Sodeoka. *ChemMedChem* **2**, 1006-1009 (2007).
- 96) Asymmetric Fluorination of α -Aryl Acetic Acid Derivatives with the Novel Catalytic System Consisting of NiCl₂-Binap/R₃SiOTf/2,6-Lutidine. Toshiaki Suzuki, Yoshitaka Hamashima, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.* **46**, 5435-5439 (2007).
- 97) A Novel Bisindolylmaleimide Derivative Enhances Functional Recovery of Heart After Long-Term Hypothermic Heart Preservation. Rajesh Gopalrao Katare, Zou Zhitian, Mikiko Sodeoka, and Shiro Sasaguri. *Transplantation*, **83**, 1588-1594 (2007).
- 98) Stereo-controlled and Convergent Entry to CF₂-Sialosides: Synthesis of CF₂-linked Ganglioside GM4. Go Hirai, Toru Watanabe, Kazunori Yamaguchi, Taeko Miyagi, and Mikiko Sodeoka. *J. Am. Chem. Soc.* **129**, 15420-15421 (2007).
- 99) A Novel Bisindolylmaleimide Derivative Inhibit Mitochondrial Permeability Transition Pore and Protect the Heart from Reperfusion Injury. Rajesh Gopalrao Katare, Zou Zhitian, Mikiko Sodeoka, and Shiro Sasaguri. *Canadian Journal of Physiology and Pharmacology*, **85**, 979-985 (2007).
- 100) Convenient Method for the Preparation of Carbamates, Carbonates, and Thiocarbonates. Mamoru Shimizu and Mikiko Sodeoka. *Organic Letters*, **9**, 5231-5234 (2007).
- 101) Catalytic Asymmetric Conjugate Reduction with Ethanol: A More Reactive System Pd(II)-ⁱPr-DUPHOS Complex with Molecular Sieves 4A. Daiki Monguchi, Christine Beemelmans, Daisuke Hashizume, Yoshitaka Hamashima, and Mikiko Sodeoka. *J. Organomet. Chem.* **693**, 867-873 (2008).
- 102) Catalytic Enantioselective Aldol-type Reaction of β -Ketoesters with Acetals. Natsuko Umebayashi, Yoshitaka Hamashima, Daisuke Hashizume, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.* **47**, 4196-4199 (2008).
- 103) Mechanistic Studies on the Catalytic Asymmetric Mannich-type Reaction with Dihydroisoquinolines and Development of Oxidative Mannich-type Reaction Starting from Tetrahydroisoquinolines. Christian Dubs, Yoshitaka Hamashima, Naoki Sasamoto, Thomas M. Seidel, Shoko Suzuki, Daisuke Hashizume, and Mikiko Sodeoka. *J. Org. Chem.* **73**, 5859-5871 (2008).

- 104) Development of Column-free Alkoxy carbonyl, Aryloxy carbonyl, and Acyl Transfer Reagents. Mamoru Shimizu and Mikiko Sodeoka. *Heterocycles*, **76**, 1301-1312 (2008).
- 105) Pd^{II}-catalyzed Asymmetric Addition Reactions of 1,3-Dicarbonyl Compounds: Mannich-type Reactions with *N*-Boc Imines and Three-component Aminomethylation. Yoshitaka Hamashima, Naoki Sasamoto, Natsuko Umabayashi, and Mikiko Sodeoka. *Chem. Asian J.* **3**, 1443-1455 (2008).
- 106) Synthesis and Biological Activities of Reveromycin A and Spirofungin A Derivatives. Takeshi Shimizu, Takeo Usui, Makoto Fujikura, Makoto Kawatani, Tomoharu Satoh, Kiyotaka Machida, Naoki Kanoh, Je-Tae Woo, Hiroyuki Osada, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **18**, 3756-3760 (2008).
- 107) A New Route for the Preparation of the Succinates. Takeshi Shimizu, Katsunori Murakoshi, Koji Yasui, Mikiko Sodeoka. *Synthesis*, 3209-3218 (2008).
- 108) Synthesis of CH₂-linked α (2,3)sialylgalactose analogue: On the stereoselectivity of the key Ireland-Claisen rearrangement. Toru Watanabe, Go Hirai, Marie Kato, Daisuke Hashizume, Taeko Miyagi, and Mikiko Sodeoka. *Organic Letters*, **10**, 4167-4170 (2008).
- 109) Limited Inhibitory Effects of Oseltamivir and Zanamivir on Human Sialidases. Keiko Hata, Koichi Koseki, Kazunori Yamaguchi, Setsuko Moriya, Yasuo Suzuki, Sangchai Yingsakmongkon, Go Hirai, Mikiko Sodeoka, Mark von Itzstein, and Taeko Miyagi. *Antimicrobial Agents and Chemotherapy* **52**, 3484-3491 (2008).
- 110) Ginkgolic acid inhibits protein SUMOylation by blocking formation of the E1-SUMO intermediate. Isao Fukuda, Akihiro Ito, Go Hirai, Shinichi Nishimura, Hisashi Kawasaki, Hisato Saitoh, Ken-ichi Kimura, Mikiko Sodeoka, and Minoru Yoshida. *Chemistry & Biology*, **16**, 133-140 (2009).
- 111) Asymmetric synthesis of isobenzofuranone derivatives and their unique character as protein kinase C α (PKC α) activators. Go Hirai, Yosuke Ogoshi, Megumi Ohkubo, Yuki Tamura, Toru Watanabe, Tadashi Shimizu, and Mikiko Sodeoka. *Tetrahedron Letters*, **50**, 3609-3612 (2009).
- 112) Enantioselective Protonation in Aza-Michael Reaction Using the Combination of Chiral Pd- μ -hydroxo Complex with Amine Salts. Yoshitaka Hamashima, Toshihiro Tamura, Shoko Suzuki, and Mikiko Sodeoka. *SYNLETT*, 1631-1634 (2009).
- 113) Synthesis of DFGH-ring System of Type B Physalins: A Characteristic Highly Oxygen-functionalized and Cage-shaped Molecule. Megumi Ohkubo, Go Hirai, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.* **48**, 3862-3866 (2009).
- 114) Diastereo- and Enantioselective Conjugate Addition of α -Ketoesters to Nitroalkenes Catalyzed by Chiral Ni(OAc)₂ Complex under Mild Conditions. Ayako Nakamura, Sylvain Lectard, Daisuke Hashizume, Yoshitaka Hamashima, and Mikiko Sodeoka. *J. Am. Chem. Soc.* **132**, 4036-4037 (2010).
- 115) Total Synthesis of (+)-Chaetocin and its Analogs: Their Histone Methyltransferase G9a Inhibitory Activity. Eriko Iwasa, Yoshitaka Hamashima, Shinya Fujishiro, Eisuke Higuchi, Akihiro Ito, Minoru Yoshida, and Mikiko Sodeoka. *J. Am. Chem. Soc.* **132**, 4078-4079 (2010).
- 116) Asymmetric conjugate addition of α -keto esters to nitroolefins catalyzed by chiral Cu^{II} hydroxo complexes. Ayako Nakamura, Sylvain Lectard, Ryo Shimizu, Yoshitaka Hamashima, and Mikiko Sodeoka. *Tetrahedron Asymmetry*, **21**, 1682-1687 (2010).
- 117) Unnatural enantiomer of chaetocin shows strong apoptosis-inducing activity through caspase-8/caspase-3 activation. Yuou Teng, Katsuya Iuchi, Eriko Iwasa, Shinya Fujishiro, Yoshitaka Hamashima, Kosuke Dodo, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **20**, 5085-5088 (2010).
- 118) Direct C2-trifluoromethylation of indole derivatives catalyzed by copper acetate. Ryo Shimizu, Hiromichi Egami, Tatsuya Nagi, Jungha Chae, Yoshitaka Hamashima, Mikiko Sodeoka. *Tetrahedron Lett.* **51**, 5947-5949 (2010).

- 119) Scope and Mechanism of Tandem Aza-Michael Reaction–Enantioselective Protonation Using a Pd- μ -hydroxo Complex under Mild Conditions Buffered with Amine Salts. Yoshitaka Hamashima, Shoko Suzuki, Toshihiro Tamura, Hidenori Somei, and Mikiko Sodeoka. *Chem. Asian J.* **6**, 658-668 (2011).
- 120) Imaging of EdU, an Alkyne-tagged Cell Proliferation Probe, by Raman Microscopy. Hiroyuki Yamakoshi, Kosuke Dodo, Masaya Okada, Jun Ando, Almar Palonpon, Katsumasa Fujita, Satoshi Kawata, and Mikiko Sodeoka. *J. Am. Chem. Soc.* **133**, 6102-6105 (2011).
- 121) Development of a Selective *Vaccinia* H1-Related (VHR) Phosphatase Inhibitor with Nonacidic Phosphate Mimicking Core Structure. Go Hirai, Ayako Tsuchiya, Yusuke Koyama, Yuko Otani, Kana Oonuma, Kosuke Dodo, Siro Simizu, Hiroyuki Osada, and Mikiko Sodeoka. *ChemMedChem* **6**, 617-622 (2011).
- 122) Design and Synthesis of Protein Kinase C α Activators Based on “Out of Pocket” Interactions. Go Hirai, Megumi Ohkubo, Yuki Tamura, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **21**, 3587-3590 (2011).
- 123) Catalytic Asymmetric α -Chlorination of 3-Acyl-oxazolidin-2-one under Trinary Catalytic System. Yoshitaka Hamashima, Tatsuya Nagi, Ryo Shimizu, Teruhisa Tsuchimoto, and Mikiko Sodeoka. *Eur. J. Org. Chem.* 3675-3678 (2011).
- 124) Total syntheses of chaetocin and *ent*-chaetocin. Eriko Iwasa, Yoshitaka Hamashima, Shinya Fujishiro, Daisuke Hashizume, Mikiko Sodeoka. *Tetrahedron* **67**, 6585-6599 (2011).
- 125) Studies on the Selectivity between Glycosylation and Intermolecular Aglycone Transfer of Thioglucoside in Synthesis of Lactose Derivatives. Marie Kato, Go Hirai, and Mikiko Sodeoka. *Chem. Lett.* **40**, 877-879 (2011).
- 126) Catch & release of alkyne-tagged molecules in water by polymer-supported cobalt complex. Hiromichi Egami, Shinji Kamisuki, Kosuke Dodo, Miwako Asanuma, Yoshitaka Hamashima and Mikiko Sodeoka. *Organic & Biomolecular Chemistry* **9**, 7667-7670 (2011).
- 127) Label-free Raman Observation of Cytochrome C Dynamics During Apoptosis. Masaya Okada, Nicholas Isaac Smith, Almar Flotildes Palonpon, Hiromi Endo, Satoshi Kawata, Mikiko Sodeoka, and Katsumasa Fujita. *Proc. Nat. Acad. Sci.* **109**, 28-32 (2012).
- 128) Synthesis and Biological Activities of Chaetocin and its Derivatives. Mikiko Sodeoka, Kosuke Dodo, Yuou Teng, Katsuya Iuchi, Yoshitaka Hamashima, Eriko Iwasa, and Shinya Fujishiro. *Pure & Appl. Chem.* **84**, 1369-1378 (2012).
- 129) Dual-specificity Protein Phosphatase CDC25A/B Inhibitor Identified from a Focused Library with Non-electrophilic Enamine Core Structure. Ayako Tsuchiya, Go Hirai, Yusuke Koyama, Kana Oonuma, Yuko Otani, Hiroyuki Osada, and Mikiko Sodeoka. *ACS Med. Chem. Lett.* **3**, 294-298 (2012).
- 130) Synthesis of Optically Pure Norcantharidin Analog NCA-01, a Highly Selective Protein Phosphatase 2B Inhibitor, and Its Derivatives. Tadashi Shimizu, Masato Iizuka, Hiroko Matsukura, Daisuke Hashizume, and Mikiko Sodeoka. *Chem. Asian J.* **7**, 1221-1230 (2012).
- 131) Copper-Catalyzed Trifluoromethylation of Allylsilanes. Ryo Shimizu, Hiromichi Egami, Yoshitaka Hamashima, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.* **51**, 4577-4580 (2012).
- 132) Catalytic Asymmetric Mono-Fluorination of α -Keto Esters: Synthesis of Optically Active β -Fluoro- α -Hydroxy and β -Fluoro- α -Amino Acid Derivatives. Shoko Suzuki, Yuki Kitamura, Sylvain Lectard, Yoshitaka Hamashima, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.* **51**, 4581-4585 (2012).

- 133) Kinetically Controlled One-pot Formation of DEFGH-rings of Type B Physalins through Domino-type Transformations. Masaki Morita, Go Hirai, Megumi Ohkubo, Hiroyuki Koshino, Daisuke Hashizume, Keiji Maruoka, and Mikiko Sodeoka. *Org. Lett.* **14**, 3432-3437 (2012).
- 134) Oxytrifluoromethylation of Styrene Derivatives Using Copper Catalyst. Hiromichi Egami, Ryo Shimizu, and Mikiko Sodeoka. *Tetrahedron Lett.* **53**, 5503-5506 (2012).
- 135) Small-molecular inhibitors of Ca²⁺-induced mitochondrial permeability transition (MPT) derived from muscle relaxant dantrolene. Shinpei Murasawa, Katsuya Iuchi, Shinichi Sato, Tomomi Noguchi-Yachide, Mikiko Sodeoka, Tsutomu Yokomatsu, Kosuke Dodo, Yuichi Hashimoto, Hiroshi Aoyama. *Bioorg. Med. Chem.* **20**, 6384-6393 (2012).
- 136) Rapid Trifluoromethylation of Indole Derivatives. Ayako Miyazaki, Ryo Shimizu, Hiromichi Egami, and Mikiko Sodeoka. *Heterocycles*, **86**, 979-983 (2012).
- 137) Alkyne-tag Raman imaging for visualization of mobile small molecules in live cells. Hiroyuki Yamakoshi, Kosuke Dodo, Almar Palonpon, Jun Ando, Katsumasa Fujita, Satoshi Kawata, and Mikiko Sodeoka. *J. Am. Chem. Soc.* **134**, 20681-20689 (2012).
- 138) Epidithiodiketopiperazine as a pharmacophore for protein lysine methyltransferase G9a inhibitors: Reducing cytotoxicity by structural simplification. Shinya Fujishiro, Kosuke Dodo, Eriko Iwasa, Yuou Teng, Yoshihiro Sohtome, Yoshitaka Hamashima, Akihiro Ito, Minoru Yoshida, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **23**, 733-736 (2013).
- 139) Synthesis and evaluation of 2, 3-dinorprostaglandins: dinor-PGD₁ and 13-*epi*-dinor-PGD₁ are selective agonists of peroxisome proliferator-activated receptor alpha. Ayato Sato, Kosuke Dodo, Makoto Makishima, Yuichi Hashimoto, and Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **23**, 3013-3017 (2013).
- 140) Raman and SERS microscopy for molecular imaging of live cells. Almar Palonpon, Jun Ando, Hiroyuki Yamakoshi, Kosuke Dodo, Mikiko Sodeoka, Satoshi Kawata, and Katsumasa Fujita. *Nature Protocol*, **8**, 677-692 (2013).
- 141) CDC25A-inhibitory RE Derivatives Bind to Pocket Adjacent to the Catalytic Site. Ayako Tsuchiya, Miwako Asanuma, Go Hirai, Kana Oonuma, Muhammad Muddassar, Eri Nishizawa, Yusuke Koyama, Yuko Otani, Kam Y. J. Zhang, and Mikiko Sodeoka. *Molecular BioSystems*, **9**, 1026-1034 (2013).
- 142) Alkene Trifluoromethylation Coupled with C-C Bond Formation: Construction of Trifluoromethylated Carbocycles and Heterocycles. Hiromichi Egami, Ryo Shimizu, Shintaro Kawamura, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.* **52**, 4000-4003 (2013).
- 143) Concise synthesis of oxindole derivatives bearing a trifluoromethyl group: Copper-catalyzed trifluoromethylation of acryloanilides. Hiromichi Egami, Ryo Shimizu, and Mikiko Sodeoka. *J. Fluorine Chemistry*, **152**, 51-55 (2013).
- 144) Trifluoromethylation Reactions for the Synthesis of β -Trifluoromethylamines. Hiromichi Egami, Shintaro Kawamura, Ayako Miyazaki, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.*, **52**, 7841-7844 (2013).
- 145) Contribution of Cage-shaped Structure of Physalins to their Mode of Action in Inhibition of NF- κ B Activation. Masaaki Ozawa, Masaki Morita, Go Hirai, Satoru Tamura, Masao Kawai, Ayako Tsuchiya, Kana Oonuma, Keiji Maruoka, and Mikiko Sodeoka. *ACS Med. Chem. Lett.* **4**, 730-735 (2013).
- 146) Unexpected Diels-Alder/Carbonyl-ene Cascade toward the Biomimetic Synthesis of Chloropupekeananin. Takahiro Suzuki, Yuria Miyajima, Kaname Suzuki, Kanako Iwakiri, Masaki Koshimizu, Go Hirai, Mikiko Sodeoka, and Susumu Kobayashi. *Organic Letters* **15**, 1748-1751 (2013).

- 147) Iron-catalyzed trifluoromethylation with concomitant C–C bond formation via 1,2-migration of an aryl group. Hiromichi Egami, Ryo Shimizu, Yoshihiko Usui, and Mikiko Sodeoka. *Chem. Commun.*, **49**, 7346 – 7348 (2013).
- 148) Development of bis-unsaturated ester aldehydes as amino-glue probes: sequential double azaelectrocyclization as a promising strategy for bioconjugation. Katsunori Tanaka, Yuka Nakamoto, Eric R. O. Siwu, Ambara R. Pradipta, Koji Morimoto, Takeshi Fujiwara, Suguru Yoshida, Takamitsu Hosoya, Yuki Tamura, Go Hirai, Mikiko Sodeoka, and Koichi Fukase. *Org. Biomol. Chem.* **11**, 7326-7333 (2013).
- 149) Turn-ON Fluorescent Affinity Labeling Using a Small Bifunctional *O*-Nitrobenzoxadiazole Unit: Selective Labeling and Imaging of Target Protein. Takao Yamaguchi, Miwako Asanuma, Shuichi Nakanishi, Yohei Saito, Masateru Okazaki, Kosuke Dodo, and Mikiko Sodeoka. *Chem. Sci.* **5**, 1021-1029 (2014).
- 150) Simultaneous imaging of protonated and deprotonated carbonylcyanide *p*-trifluoromethoxy-phenylhydrazone in live cells by Raman microscopy. Hiroyuki Yamakoshi, Almar F. Palonpon, Kosuke Dodo, Jun Ando, Satoshi Kawata, Katsumasa Fujita, and Mikiko Sodeoka. *Chem. Commun.* **50**, 1341-1343 (2014).
- 151) A Catch and Release Protocol of Alkyne-Tagged Molecules Based on a Resin-Bound Cobalt Complex for Peptide Enrichment in Aqueous Media. Ayako Miyazaki, Miwako Asanuma, Kosuke Dodo, Hiromichi Egami, and Mikiko Sodeoka. *Chem. Eur. J.* **20**, 8116-8128 (2014).
- 152) RE12 derivatives displaying *Vaccinia* H1-related phosphatase (VHR) inhibition in the presence of detergent and their anti-proliferative activity against HeLa cells. Frédéric Thuaud^a, Shuntaro Kojima, Go Hirai, Kana Oonuma, Ayako Tsuchiya, Takako Uchida, Teruhisa Tsuchimoto, and Mikiko Sodeoka. *Bioorg. Med. Chem.* **22**, 2771-2782 (2014).
- 153) Oxy-trifluoromethylation of alkenes and its application to the synthesis of β -trifluoromethylstyrene derivatives. Hiromichi Egami, Ryo Shimizu, Yoshihiko Usui, and Mikiko Sodeoka. *J. Fluor. Chem.* **167**, 172-178 (2014).
- 154) Dual Catalysis with Copper and Rhenium for Trifluoromethylation of Propargylic Alcohols: Efficient Synthesis of α -Trifluoromethylated Enones. Hiromichi Egami, Takafumi Ide, Masashi Fujita, Toshifumi Tojo, Yoshitaka Hamashima, and Mikiko Sodeoka. *Chem. Eur. J.* **20**, 12061-12065 (2014).
- 155) A Selenium-Based *S*-adenosylmethionine Analogue Reveals the Mammalian Seven-Beta-Strand Methyltransferase METTL10 to Be an EF1A1 Lysine Methyltransferase. Tadahiro Shimazu, Joaquin Barjau, Yoshihiro Sohtome, Mikiko Sodeoka, and Yoichi Shinkai. *PLoS One* **9**, e105394 (2014).
- 156) Dual-Polarization Raman Spectral Imaging to Extract Overlapping Molecular Fingerprints of Living Cells. Liang-da Chiu, Almar F. Palonpon, Nicholas I. Smith, Satoshi Kawata, Mikiko Sodeoka, and Katsumasa Fujita. *J. Biophotonics*, **8**, 546-554 (2015).
- 157) Sphingomyelin distribution in lipid rafts of artificial monolayer membranes visualized by Raman microscopy. Jun Ando, Masanao Kinoshita, Jin Cui, Hiroyuki Yamakoshi, Kosuke Dodo, Katsumasa Fujita, Michio Murata, Mikiko Sodeoka. *Proc. Nat. Acad. Sci.* **112**, 4558-4563 (2015).
- 158) A sensitive and specific Raman probe based on bisarylbutydiyne for live cell imaging of mitochondria. Hiroyuki Yamakoshi, Almar Palonpon, Kosuke Dodo, Jun Ando, Satoshi Kawata, Katsumasa Fujita, Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **25**, 664-667 (2015).
- 159) Aminotrifluoromethylation of Olefins via Cyclic Amine Formation: Its Mechanistic Study and Application to Synthesis of Trifluoromethylated Pyrrolidines. Shintaro Kawamura, Hiromichi Egami, and Mikiko Sodeoka. *J. Am. Chem. Soc.* **137**, 4865-4873 (2015).

- 160) Saccharothriolides A-C, Novel Phenyl-substituted 10-Membered Macrolides from a Rare Actinomycete *Saccharothrix* sp. Shan Lu, Shinichi Nishimura, Go Hirai, Masashi Ito, Teppei Kawahara, Miho Izumikawa, Mikiko Sodeoka, Kazuo Shin-ya, Toshio Tsuchida, and Hideaki Kakeya. *Chem. Commun.* **51**, 8074-8077 (2015).
- 161) Product Control in Alkene Trifluoromethylation: Hydro-trifluoromethylation, Vinylic Trifluoromethylation, and Iodo-trifluoromethylation Using Togni Reagent. Hiromichi Egami, Yoshihiko Usui, Shintaro Kawamura, Sayoko Nagashima, and Mikiko Sodeoka. *Chem. Asian J.* **10**, 2190-2199 (2015).
- 162) Novel Raman-tagged sphingomyelin that closely mimics original raft-forming behavior. Jin Cui, Shigeru Matsuoka, Masanao Kinoshita, Nobuaki Matsumori, Fuminori Sato, Michio Murata, Jun Ando, Hiroyuki Yamakoshi, Kosuke Dodo, Mikiko Sodeoka. *Bioorg. Med. Chem. Lett.* **23**, 2989-2994 (2015).
- 163) Unique features of chiral palladium enolates derived from β -ketoamide: Structure and catalytic asymmetric Michael and fluorination reactions. Kenji Hayamizu, Naoki Terayama, Daisuke Hashizume, Kosuke Dodo, and Mikiko Sodeoka. *Tetrahedron*, **71**, 6594-6601 (2015), Tsuji special issue.
- 164) VDAC3 gating is activated by suppression of disulfide-bond formation between the N-terminal region and the bottom of the pore. Masateru Okazaki, Katsue Kurabayashi, Miwako Asanuma, Yohei Saito, Kosuke Dodo, Mikiko Sodeoka. *Biochim. Biophys. Acta (Biomembranes)*, **1848**, 3188-3196 (2015).
- 165) A unique S_N2' -type reaction of allylic alcohols with organolithium reagent accelerated by a proximal trifluoromethyl group. Hiromichi Egami, Yoshihiko Usui, Shintaro Kawamura, Ryo Shimizu, Sayoko Nagashima, and Mikiko Sodeoka. *J. Fluor. Chem.* **179**, 121-128 (2015). Govers special issue.
- 166) Reactions of Carbonyl Compounds with Phosphorus Ylide Generated from Tribromofluoromethane and Tris(dimethylamino)phosphine. Go Hirai, Eri Nishizawa, Daiki Kakumoto, Masaki Morita, Mitsuaki Okada, Daisuke Hashizume, Sayoko Nagashima, and Mikiko Sodeoka. *Chem. Lett.*, **44**, 1389-1391 (2015).
- 167) Photo-induced formation of cyclopropanols from α -ketoamides via γ -C-H bond activation. Eisuke Ota, Yu Mikame, Go Hirai, Hiroyuki Koshino, Shigeru Nishiyama, and Mikiko Sodeoka. *Tetrahedron Lett.* **56**, 5991-5994 (2015).
- 168) Dual function of coronatine as a bacterial virulence factor against plants: possible COI1-JAZ-independent role. Syusuke Egoshi, Yousuke Takaoka, Hiroaki Saito, Yuuki Nukadzuka, Kengo Hayashi, Yasuhiro Ishimaru, Hiroyuki Yamakoshi, Kosuke Dodo, Mikiko Sodeoka and Minoru Ueda. *RSC Adv.*, **6**, 19404-19412 (2016).
- 169) Photochemical and Additive-free Coupling Reaction of α -Cumyl α -Ketoesters via Intermolecular C-H Bond Activation. Eisuke Ota, Yu Mikame, Go Hirai, Shigeru Nishiyama, and Mikiko Sodeoka. *Synlett* **27**, 1128-1132 (2016).
- 170) Identification of Nitrogen Signaling Factors that regulate adaptive nitrogen metabolism in fission yeast. Xiaoying Sun, Go Hirai, Masashi Ueki, Hiroshi Hirota, Qianqian Wang, Yayoi Hongo, Takemichi Nakamura, Yuki Hitora, Hidekazu Takahashi, Mikiko Sodeoka, Hiroyuki Osada, Makiko Hamamoto, Minoru Yoshida, and Yoko Yashiroda. *Scientific Report* **6**, 20856 (2016).
- 171) Platinum-Catalyzed Friedel-Crafts-Type C-H Coupling-Allylic Amination Cascade to Synthesize 3,4-Fused Tricyclic Indoles. Yuta Suzuki, Yuito Tanaka, Shun-ichi Nakano, Kasuke Dodo, Natsumi Yada, Ken-ichi Shinohara, Kazuko Kita, Atsushi Kaneda, Mikiko Sodeoka, Yasumasa Hamada, Tetsuhiro Nemoto. *Chem. Eur. J.* **22**, 4418-4421 (2016).

- 172) Perfluoroalkylation of Unactivated Alkenes with Acid Anhydrides as the Perfluoroalkyl Source. Shintaro Kawamura, and Mikiko Sodeoka. *Angew. Chem. Int. Ed.* **55**, 8740-8743 (2016).
- 173) Structure-activity relationship study of 3-amino-2-indolylactam derivatives: Development of inhibitors of oxidative stress-induced necrosis. Kosuke Dodo, Kenji Hayamizu, Tadashi Shimizu, and Mikiko Sodeoka. *Chem. Pharm. Bull.* **64**, 886-898 (2016).
- 174) Alkyne-tag SERS screening and identification of small-molecule-binding sites in protein. Jun Ando, Miwako Asanuma, Kosuke Dodo, Hiroyuki Yamakoshi, Satoshi Kawata, Katsumasa Fujita, Mikiko Sodeoka. *J. Am. Chem. Soc.* **138**, 13901-13910 (2016).
- 175) Solvent-Dependent Copper-Catalyzed Synthesis of Pyrazoles Under Aerobic Conditions. Florian Pünner, Yoshihiro Sohtome and Mikiko Sodeoka. *Chem. Commun.* **52**, 14093-14096 (2016).
- 176) A new carbamidemethyl-linked lanthanoid chelating tag for PCS NMR spectroscopy of proteins in living HeLa cells. Yuya Hikone, Go Hirai, Masaki Mishima, Kosuke Inomata, Tappei Ikeya, Souichiro Arai, Masahiro Shirakawa, Mikiko Sodeoka, Yutaka Ito. *J. Biomol. NMR*, **66**, 99-110 (2016).
- 177) Total synthesis of natural derivatives and artificial analogs of 13-oxingenol and their biological evaluation. Takayuki Ohyoshi, Yuki Tamura, Ichiro Hayakawa, Go Hirai, Yamato Miyazawa, Shota Funakubo, Mikiko Sodeoka, and Hideo Kigoshi. *Org. Biomol. Chem.* **14**, 11426-11437 (2016).
- 178) Comparative Characterization of the Leaf Tissue of *Physalis alkekengi* and *Physalis peruviana* Using RNA-seq and Metabolite Profiling. Atsushi Fukushima, Michimi Nakamura, Hideyuki Suzuki, Mami Yamazaki, Eva Knoch, Tetsuya Mori, Naoyuki Umemoto, Masaki Morita, Go Hirai, Mikiko Sodeoka, Kazuki Saito. *Frontiers in Plant Science*, **7**, article 1883 (2016).
- 179) Reversibility of 3-Phenyl-2-oxindole Dimer Formation: Application to Construct Compounds with Two Distinct Vicinal All-carbon Quaternary Centers. Yoshihiro Sohtome, Masumi Sugawara, Daisuke Hashizume, Daiki Hojo, Miki Sawamura, Atsuya Muranaka, Masanobu Uchiyama, and Mikiko Sodeoka. *Heterocycles*. **95**, 1030-1040 (2017).
- 180) Synthesis of the Right-Side Structure of Type B Physalins. Masaki Morita, Shuntaro Kojima, Megumi Ohkubo, Hiroyuki Koshino, Daisuke Hashizume, Go Hirai, Keiji Maruoka, and Mikiko Sodeoka. *Israel J. Chem.* **57**, 309-318 (2017).
- 181) Naked d-orbital in a centrochiral Ni(II) complex as a catalyst for asymmetric [3+2] cycloaddition. Yoshihiro Sohtome, Genta Nakamura, Atsuya Muranaka, Daisuke Hashizume, Sylvain Lectard, Teruhisa Tsuchimoto, Masanobu Uchiyama, and Mikiko Sodeoka. *Nature Comm.* **8**, 14875 (2017).
- 182) Noncanonical Function of a Small-Molecular Virulence Factor Coronatine against Plant Immunity: An *In Vivo* Raman Imaging Approach. Minoru Ueda, Syusuke Egoshi, Kosuke Dodo, Yasuhiro Ishimaru, Hiroyuki Yamakoshi, Takeshi Nakano, Yousuke Takaoka, Shinya Tsukiji, Mikiko Sodeoka. *ACS Central Science*, **3**, 462-472 (2017).
- 183) Catalytic Enantioselective [3+2] Cycloaddition of α -Keto Ester Enolates and Nitrile Oxides. Samuel L. Bartlett, Yoshihiro Sohtome, Daisuke Hashizume, Peter S. White, Miki Sawamura, Jeffrey S. Johnson, Mikiko Sodeoka. *J. Am. Chem. Soc.* **139**, 8661-8666 (2017).
- 184) Crystal structural characterization reveals novel oligomeric interactions of human voltage-dependent anion channel 1. Toshiaki Hosaka, Masateru Okazaki, Tomomi Kimura-Someya, Yoshiko Ishizuka-Katsura, Kaori Ito, Shigeyuki Yokoyama, Kosuke Dodo, Mikiko Sodeoka, and Mikako Shirouzu. *Protein Science*, **26**, 1749-1758 (2017).
- 185) Convergent synthesis of the *ent*-ZA'B'C'D'-ring system of maitotoxin. Tatsuo Saito, Masayuki Morita, Hiroyuki Koshino, Mikiko Sodeoka, Tadashi Nakata. *Org. Lett.* **19**, 3203-3206 (2017).

- 186) Synthesis of Polyunsaturated Fatty Acid-Containing Glucuronosyl-diacylglycerol through Direct Glycosylation. Qianqian Wang, Yuta Kuramoto, Yozo Okazaki, Eisuke Ota, Masaki Morita, Go Hirai, Kazuki Saito, and Mikiko Sodeoka. *Tetrahedron. Lett.* **58**, 2915-2918 (2017).
- 187) Hyperoxidation of ether-linked phospholipids accelerates neutrophil extracellular trap formation. Satoshi Yotsumoto, Yuito Muroi, Tatsuya Chiba, Rio Ohmura, Maki Yoneyama, Megumi Magarisawa, Kosuke Dodo, Naoki Terayama, Mikiko Sodeoka, Ryohei Aoyagi, Makoto Arita, Satoko Arakawa, Shigeomi Shimizu and Masato Tanaka. *Scientific Report*, **7**, 16026 (2017).
- 188) Specific fluorescence labeling of target proteins by using a ligand-4-azidophthalimide conjugate. Kosuke Chiba, Miwako Asanuma, Minoru Ishikawa, Yuichi Hashimoto, Kosuke Dodo, Mikiko Sodeoka, and Takao Yamaguchi. *Chem. Comm.* **53**, 8751-8754 (2017).
- 189) *N*-Heterocycle-forming amino/carboperfluoroalkylations of aminoalkene by using perfluoro acid anhydrides: mechanistic studies and applications directed toward perfluoroalkylated compound libraries. Shintaro Kawamura, Kento Dosei, Elena Valverde, Kiminori Ushida, and Mikiko Sodeoka. *J. Org. Chem.* **82**, 12539-12553 (2017).
- 190) Synthesis of CF₃-Containing Oxazolines via Trifluoromethylation of Allylamides with Togni Reagent in the Presence of Alkali Metal Iodides. Shintaro Kawamura, Daisuke Sekine, and Mikiko Sodeoka. *J. Fluor. Chem.* **203**, 115-121 (2017).
- 191) Indolylmaleimide Derivative IM-17 Shows Cardioprotective Effects in Ischemia-Reperfusion Injury. Kosuke Dodo, Tadashi Shimizu, Jun Sasamori, Kazuyuki Aihara, Naoki Terayama, Shuhei Nakao, Katsuya Iuchi, Masahiro Takahashi, and Mikiko Sodeoka. *ACS Med. Chem. Lett.* **9**, 182-187 (2018).
- 192) Thienyl-substituted α -Ketoamide: A Less Hydrophobic Reactive Group for Photo-Affinity Labeling. Eisuke Ota, Kazuteru Usui, Kana Oonuma, Hiroyuki Koshino, Shigeru Nishiyama, Go Hirai, and Mikiko Sodeoka. *ACS Chem. Biol.* **13**, 876-880 (2018).
- 193) The alkyne-tag Raman imaging of coronatine, a plant pathogen virulence factor, in *Commelina communis* and the possible mode of action. Minoru Ueda, Kengo Hayashi, Syusuke Egoshi, Yasuhiro Ishimaru, Yousuke Takaoka, Hiroyuki Yamakoshi, Kosuke Dodo and Mikiko Sodeoka. *Org. Biomol. Chem.* **16**, 3305-3496 (2018).
- 194) Unveiling Epidithiodiketopiperazine as a Non-Histone Arginine Methyltransferase Inhibitor by Chemical Protein Methylome Analyses. Yoshihiro Sohtome, Tadahiro Shimazu, Joaquin Barjau, Shinya Fujishiro, Mai Akakabe, Naoki Terayama, Kosuke Dodo, Akihiro Ito, Minoru Yoshida, Yoichi Shinkai, and Mikiko Sodeoka. *Chem. Commun.* **54**, 9202-9205 (2018).
- 195) Metal-free alkene oxy- and amino-perfluoroalkylations via carbocation formation by using perfluoro acid anhydrides: unique reactivity between styrenes and perfluoro diacyl peroxides. Elena Valverde, Shintaro Kawamura, Daisuke Sekine, and Mikiko Sodeoka. *Chem. Sci.* **8**, 7115-7121 (2018).
- 196) Reactivity and property of bis(chlorodifluoroacetyl) peroxide generated *in-situ* from chlorodifluoroacetic anhydride for chlorodifluoromethylation reactions. Shintaro Kawamura, Cassandra J. Henderson, Yuma Aoki, Daisuke Sekine, Shū Kobayashi, and Mikiko Sodeoka. *Chem. Commun.* **54**, 11276-11279 (2018).
- 197) Tri-methylation of ATF7IP by G9a/GLP recruits a chromodomain protein MPP8. Takeshi Tsusaka, Masaki Kikuchi, Tadahiro Shimazu, Takehiro Suzuki, Yoshihiro Sohtome, Mai Akakabe, Mikiko Sodeoka, Naoshi Dohmae, Takashi Umehara and Yoichi Shinkai. *Epigenetics & Chromatin*, **11**, 56 (2018).
- 198) A translation inhibitor targets a bimolecular cavity between eIF4A and polypurine RNA. Shintaro Iwasaki, Wakana Iwasaki, Mari Takahashi, Ayako Sakamoto, Chiduru Watanabe, Yuichi Shichino, Stephen N. Floor, Koichi Fujiwara, Mari Mito, Kosuke Dodo, Mikiko Sodeoka, Hiroaki Imataka, Teruki Honma, Kaori Fukuzawa, Takuhiro Ito, and Nicholas T. Ingolia. *Mol. Cell*, **73**, 738-748 (2019).

- 199) Control of site selectivity in trifluoromethylation of alkenes bearing a pendant indolyl group: synthesis of CF₃-containing tetrahydrocarbazoles. Ryo Murakami, Daisuke Sekine, Yuma Aoki, Shintaro Kawamura, and Mikiko Sodeoka. *Tetrahedron*, **75**, 1327-1335 (2019).
- 200) Synthesis of All Stereoisomers of RK460 and Evaluation of Activity and Selectivity as Abscisic Acid Receptor Antagonists. Yu Mikame, Kazuko Yoshida, Daisuke Hashizume, Go Hirai, Kazuo Nagasawa, Hiroyuki Osada and Mikiko Sodeoka. *Chem. Eur. J.* **25**, 3496-3500 (2019).
- 201) Detection of esterase activity by chromogenic and fluorogenic probe based on an *O*-nitrobenzoxazole (*O*-NBD) unit. Kana Okada, Takao Yamaguchi, Kosuke dodo, Mikiko Sodeoka, Satoshi Obika. *Bioorg. Med. Chem.* **27**, 1444-1448 (2019).

Selected Review Papers (in English)

- 202) Arene Chromium Tricarbonyl Catalyzed Reactions in Organic Synthesis. Mikiko Sodeoka and Masakatsu Shibasaki. *Synthesis*, 643-658 (1993).
- 203) Asymmetric Heck Reaction: Catalytic Asymmetric Syntheses of Bioactive Molecules. Masakatsu Shibasaki, Mikiko Sodeoka. *J. Synth. Org. Chem. Jpn.* **52**, 956-967 (1994).
- 204) Asymmetric Synthesis Using Palladium Catalysts. Mikiko Sodeoka and Masakatsu Shibasaki. *Pure & Appl. Chem.*, **70**, 411-414 (1998).
- 205) Development of Protein Phosphatases Inhibitors: A Focused Library Approach. Mikiko Sodeoka, Yoshiyasu Baba. *J. Synth. Org. Chem. Jpn.* **59**, 1095-1102 (2001).
- 206) Acid-Base Catalysis Using Chiral Palladium Complexes. Mikiko Sodeoka and Yoshitaka Hamashima. *Pure & Applied Chem.* **78**, 477-494 (2006).
- 207) Enantioselective Fluorination Reactions Catalyzed by Chiral Palladium Complexes. Yoshitaka Hamashima and Mikiko Sodeoka. *SYNLETT* 1467-1478 (2006).
- 208) Development of Catalytic Asymmetric Reactions via Chiral Palladium Enolate. Yoshitaka Hamashima and Mikiko Sodeoka. *Chemical Record*, **4**, 231-242 (2004).
- 209) Development of Catalytic Enantioselective Reactions via Palladium Enolates as Key Intermediates. Mikiko Sodeoka, Yoshitaka Hamashima. *Bull. Chem. Soc. Jpn.*, **78**, 941-956 (2005).
- 210) Catalytic Enantioselective α -Fluorination of Carbonyl Compounds Using Chiral Transition Metal Complexes. Yoshitaka Hamashima, Mikiko Sodeoka. *J. Synth. Org. Chem. Jpn.* **65**, 1099-1107 (2007).
- 211) Synthesis of Optically Active Heterocyclic Compounds Using Pd-catalyzed Asymmetric Reactions As A Key Step. Mikiko Sodeoka and Yoshitaka Hamashima. *Pure & Applied Chemistry*, **80**, 763-776 (2008).
- 212) A strategy for constructing *C*-sialosides based on Ireland-Claisen rearrangement and its application for synthesis of CF₂-linked ganglioside GM4 analogue. Mikiko Sodeoka, Go Hirai, Toru Watanabe, and Taeko Miyagi. *Pure & Appl. Chem.* **81**, 205-215 (2009).
- 213) Chiral Pd aqua complex-catalyzed asymmetric C-C bond-forming reactions: a Brønsted acid-base cooperative system. Mikiko Sodeoka and Yoshitaka Hamashima. *Chem. Commun.* 5787-5798 (2009).
- 214) Development of Selective Inhibitors of Necrosis. Mikiko Sodeoka and Kosuke Dodo. *Chemical Record*, **10**, 308-314 (2010).
- 215) Recent Advances in Catalytic Enantioselective Fluorination Reactions. Sylvain Lectard, Yoshitaka Hamashima, and Mikiko Sodeoka. *Adv. Synth. Cat.* **352**, 2708-2732 (2010).

- 216) Epipolythiodiketopiperazine Alkaloids: Total Syntheses and Biological Activities. Eriko Iwasa, Yoshitaka Hamashima, and Mikiko Sodeoka. *Israel J. Chem.* **51**, 420-433 (2011).
- 217) Efficient Fluorination of Organic Molecules with Chiral Anions. Mikiko Sodeoka. *Science*, **334**, 1651-1152 (2011). (Perspective)
- 218) Molecular imaging of live cells by Raman microscopy. Almar F. Palonpon, Mikiko Sodeoka, and Katsumasa Fujita. *Curr. Opin. Chem. Biol.* **17**, 708-715 (2013).
- 219) Metal-catalyzed synthesis of heterocycles bearing a trifluoromethyl group. Mikiko Sodeoka and Hiromichi Egami. *Pure & Appl. Chem.* **86**, 1247-1256 (2014).
- 220) Recent Progress on Trifluoromethylation of Alkenes with Concomitant Introduction of Additional Functional Groups. Hiromichi Egami and Mikiko Sodeoka. *Angew. Chem. Int. Ed.*, **53**, 8294-8308 (2014).
- 221) Focused Library with Core Structure Extracted from Natural Products and Modified: Application to Phosphatase Inhibitors and Several Biochemical Findings. Go Hirai and Mikiko Sodeoka. *Acc. Chem. Res.* **48**, 1464-1473 (2015).
- 222) High-speed Raman imaging of cellular processes. Jun Ando, Almar F. Palonpon, Mikiko Sodeoka, and Katsumasa Fujita. *Curr. Opin. Chem. Biol.* **33**, 16-24 (2016).
- 223) Modern Approaches for Asymmetric Construction of Carbon-Fluorine Quaternary Stereogenic Centers; Synthetic Challenges and Pharmaceutical Needs. Yi Zhu, Jianlin Han, Jiandong Wang, Norio Shibata, Mikiko Sodeoka, Vadim A. Soloshonok, Jaime A. S. Coelho, F. Dean Toste. *Chem. Rev.* **118**, 3887-3964 (2018).
- 224) Development of chaetocin and S-adenosylmethionine analogues as tools for studying protein methylation. Yoshihiro Sohtome and Mikiko Sodeoka. *Chemical Record*, **18**, 1660-1671 (2018).

日本語総説等

- 225) (アレーン)トリカルボニルクロム(0) 錯体を触媒とする還元反応 -カルバサイクリン類合成への応用を中心として-. 柴崎正勝, 袖岡幹子. 有機合成化学協会誌, **43**, 877-890 (1985).
- 226) (アレーン)トリカルボニルクロム(0) 錯体を触媒とする還元反応. 柴崎正勝, 袖岡幹子. ファルマシア, **22**, 463-469 (1986).
- 227) (アレーン)トリカルボニルクロム(0) 錯体を用いる有機合成. 柴崎正勝, 袖岡幹子. *Organometallic News*, No 2, 2-5 (1989).
- 228) クロムカルボニル錯体触媒の配位機能を利用した立体制御法. 袖岡幹子. 化学と工業, 216-220 (1990).
- 229) 遷移金属を活用した新反応の開発研究 -生物活性物質合成への応用-. 袖岡幹子. 薬学研究所の進歩. 研究成果報告集 **9**, 1-14 (1993).
- 230) アレーントリカルボニルクロム 錯体を用いる高選択的合成法の開発とその医薬合成への応用. 袖岡幹子. 薬学雑誌, **114**, 219-232 (1994).
- 231) 細胞中での遺伝子のスイッチon-offを可能にした化学. 袖岡幹子. 化学, **49**, 61 (1994).
- 232) NF- κ B p50-DNA 複合体の結晶構造. 袖岡幹子. 実験医学, **13**, 1168-1171 (1995).
- 233) 医薬のターゲットとしてのプロテインホスファターゼ -日陰から日向へ-. 袖岡幹子. バイオサイエンスとインダストリー, **56**, 47-48 (1998).
- 234) パラジウム. 袖岡幹子. ファルマシア, **36**, 630-631 (2000).

- 235) パラジウム触媒を用いる不斉マンニッヒ型反応. 藤井章雄, 萩原恵美子, 袖岡幹子. 有機合成化学協会誌, **58**, 728-735 (2000).
- 236) 有機合成化学から生命科学へのアプローチ. 袖岡幹子. 有機合成化学協会誌, **59**, 480-481 (2001).
- 237) 不斉アルドール反応の新たなステージ. 馬場良泰, 袖岡幹子. 化学, **56**, 61-63 (2001).
- 238) 副作用の少ない新しい免疫抑制剤の開発をめざす研究- プロテインホスファターゼ2B選択的な単独阻害剤の設計・合成・評価-. 袖岡幹子. 医科学応用研究財団研究報告 (Research paper of the Suzuken Memorial Foundation) **20**, 151-154 (2001).
- 239) Fluorine in the Life Sciences. 袖岡幹子. ファルマシア, **39**, 1205 (2003).
- 240) エナンチオ選択的フッ素化反応の新展開. 濱島義隆, 袖岡幹子. ファルマシア, **40**, 507-511 (2004).
- 241) Development of intracellular signal transduction modulators. Mikiko Sodeoka. 日本農芸化学会誌, **78**, 1156-1157 (2004).
- 242) 低分子阻害剤によるタンパク質リン酸化の制御: 構造変化と選択性. 平井剛, 鬮鬮孝介, 袖岡幹子. 実験医学増刊, **23**, No.4, 199-204 (651-656) (2005).
- 243) プロテインキナーゼC (PKC)の構造と活性化機構の解明を目指した新規C1ドメインリガンドの創製. 平井剛, 清水忠, 袖岡幹子. 有機合成化学協会誌, **64**, 515-527 (2006).
- 244) パラジウム触媒による不斉フッ素化反応. 袖岡幹子, 濱島義隆. 触媒, **49**, 20-24 (2007).
- 245) ネクロシス阻害剤の開発 - 細胞死メカニズムの解明をめざして-. 鬮鬮孝介, 袖岡幹子. 化学と生物 **46**, 478-482 (2008).
- 246) カチオン性10族金属錯体を用いた不斉触媒反応の新展開: パラジウムエノラートを鍵とする反応を中心にして. 濱島義隆, 袖岡幹子. TCIメール, No. 140, 2-21 (2008).
- 247) ヒストンメチル化酵素阻害剤(+)-Chaetocinおよび類縁体の合成と構造活性相関. 岩佐江梨子, 濱島義隆, 藤城信哉, 樋口瑛介, 伊藤昭博, 吉田稔, 袖岡幹子. *Chemical Biology*, vol. 3, No. 2, 8-9 (2010).
- 248) 急進する芳香族トリフルオロメチル化反応開発. 袖岡幹子, 江上寛道. 化学, Vol.66, No.8, 68-69 (2011).
- 249) 遷移金属錯体の酸・塩基作用を利用する触媒的不斉反応の開発. 濱島義隆, 袖岡幹子. 有機合成化学協会誌, **69**, 972-983 (2011).
- 250) ラマン顕微鏡を用いたDNA合成プローブEdUの生細胞イメージング. 山越博幸, 鬮鬮孝介, Palonpon Almar, 岡田昌也, 安藤潤, 藤田克昌, 河田聡, 袖岡幹子. *Chemical Biology*, **4**, No. 2, 2-5 (2011).
- 251) アルキン標識を用いた低分子化合物のラマンイメージング. 山越博幸, 鬮鬮孝介, 安藤潤, 藤田克昌, 袖岡幹子. 実験医学 **30**, No. 7, 202-208 (1220-1226) (増刊) (2012).
- 252) 微小タグとラマン顕微鏡による小分子イメージング. 藤田克昌, 袖岡幹子. 生物物理 **52**, No. 1, 34-35 (2012).
- 253) 有機合成・遷移金属触媒・ケミカルバイオロジー 垣根を越えて人と出会い. 袖岡幹子. 化学と工業 Vol. 66-10, 808-810 (2013).
- 254) 炭素-炭素二重結合のトリフルオロメチル化反応の新展開. 江上寛通, 袖岡幹子. ファルマシア Vol. 50, No.1, 24-28 (2014).

- 255) ラマン散乱顕微鏡による生体分子イメージング. 岡田昌也, 袖岡幹子, 藤田克昌. 生化学, **86**, No. 2, 137-144 (2014).
- 256) C-シアロシド結合を有する糖鎖アナログ: その合成と利用価値. Go Hirai, Eisuke Ota, Motonari Sakai, Shigeru Nishiyama, and Mikiko Sodeoka. *Trends in Glycoscience and Glycotechnology*, **127**, No. 154, 47-60 (2015).
- 257) 超原子価ヨウ素試薬を用いるアルケンの求電子的トリフルオロメチル化反応. 河村伸太郎, 袖岡幹子. *Organometallic News*, No 2, 54-59 (2015).
- 258) アルキン標識ラマンイメージング 生体内の低分子化合物を見る, 安藤潤, どど孝介, 藤田克昌, 袖岡幹子. *バイオサイエンスとインダストリー* Vol. 73, No. 5, 369-373 (2015).
- 259) ラマン散乱を利用した細胞分子イメージング. 安藤潤, 袖岡幹子, 藤田克昌. *日本分子イメージング学会誌* **9**, 3-11 (2016).
- 260) 目的志向型ライブラリー戦略による両特異性プロテインホスファターゼ阻害剤の開発: コア構造の改変とユニークな阻害メカニズム. 平井剛, 浅沼三和子, 土屋綾子, 袖岡幹子. *有機合成化学協会誌*, **74**, 532-540 (2016).
- 261) 酸化ストレスによるネクロシス選択的阻害剤: 細胞死研究への阻害剤の活用. 圃圃孝介, 袖岡幹子. *実験医学*, **34**, No. 7, 47-54 (1055-1062). 増刊 (2016).
- 262) さきがけとなる研究を. 袖岡幹子. *有機合成化学協会誌*, **77**, 1 (2019).
- 263) 虚血最灌流障害の細胞障害機序とその対策. 中尾周平, 圃圃孝介, 袖岡幹子. *Coronary Intervention*, **14**(6), 27-33 (2019).