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*Publication List by Yasuyuki Kita  
(1970-2021)*

1. Y. Tamura, Y. Kita, Y. Matsutaka, M. Terashima  
Novel Synthesis of Hexahydroazepine 2,4-diones: Synthesis and Rearrangement of 3-Alkoxy-2-cyclohexen-1-one Oxime  
*Chem. Ind. (London, United Kingdom)*, 1350 (1970).
2. Y. Tamura, Y. Kita, Y. Matsutaka, M. Terashima  
Rearrangement in Dihydroresorcinol Derivatives. II. Synthesis of 3-Alkoxy and Hydroxy-2-cyclohexen-1-one Oximes  
*Chem. Pharm. Bull.*, **19**, 523-528 (1971).
3. Y. Tamura, Y. Kita and M. Terashima  
Rearrangement in Dihydroresorcinol Derivatives. III. Beckmann Rearrangement of 3-Alkoxy-, 3-Hydroxy- and 3-Chloro-2-cyclohexen-1-one Oximes  
*Chem. Pharm. Bull.*, **19**, 529-534 (1971).
4. Y. Tamura, Y. Kita, M. Shimagaki, M. Terashima  
Rearrangements in Dihydroresorcinol Derivatives. IV. Claisen Rearrangement of 3-Allyloxy-2-cyclohexen-1-ones  
*Chem. Pharm. Bull.*, **19**, 571-575 (1971).
5. Y. Tamura, Y. Yoshimura and Y. Kita  
Imine-Enamine Tautomerism and Ring Contraction of 2-Methoxy-4,5,6,7-tetrahydro-1H-azepin-4-ones  
*Chem. Pharm. Bull.*, **19**, 1068-1070 (1971).
6. Y. Tamura and Y. Kita  
Rearrangement in Dihydroresorcinol Derivatives. VI. Schmidt Rearrangement of 3-Chloro-2-cyclohexen-1-ones  
*Chem. Pharm. Bull.*, **19**, 1735-1736 (1971).
7. Y. Tamura, Y. Kita, H. Ishibashi, M. Ikeda  
Intramolecular Photocycloaddition of 3-Allyloxy- and 3-Allylamino-cyclohex-2-enones: Formation of Oxa- and Aza-bicyclo[2,1,1]hexanes  
*J. Chem. Soc. D: Chem. Commun.*, 1167 (1971).
8. Y. Tamura, Y. Yoshimura and Y. Kita  
Rearrangement in Dihydroresorcinol Derivatives. VII. Curtius Rearrangement of 3-Azido-2-cyclohexen-1-ones and a Ring Contraction of 2-Alkoxy-4,5,6,7-tetrahydro-1H-azepin-4-ones  
*Chem. Pharm. Bull.*, **20**, 871-875 (1972).
9. Y. Tamura, Y. Kita and J. Uraoka  
Rearrangement in Dihydroresorcinol Derivatives. VIII. Beckmann Rearrangement *versus* Semmler-Wolff Aromatization of 3-Acylamino-2-cyclohexen-1-ones Oximes  
*Chem. Pharm. Bull.*, **20**, 876-880 (1972).
10. Y. Tamura, Y. Kita, H. Ishibashi, M. Ikeda  
Some Reactions of 2-Aza- and 2-Oxa-bicyclo[2,1,1]hexanes  
*Tetrahedron Lett.*, **13**, 1977-1980 (1972).
11. Y. Tamura, H. Fujiwara, K. Sumoto, M. Ikeda, Y. Kita  
A Facile Method for Beckmann and Neber Rearrangements  
*Synthesis*, 215-216 (1973).

12. Y. Tamura, J. Minamikawa, Y. Kita, J. H. Kim, M. Ikeda  
N-Amination of Tertiary Amines: A Novel Method for 1,1,1-Trisubstituted Hydrazinium Salts  
*Tetrahedron*, **29**, 1063-1068 (1973).
13. Y. Tamura, Y. Yoshimura, T. Nishimura, S. Kato, Y. Kita  
Photolysis and Thermolysis of 3-Azido-2-cyclohexen-1-ones  
*Tetrahedron Lett.*, **14**, 351-354 (1973).
14. Y. Tamura, H. Ishibashi, Y. Kita, M. Ikeda  
Intramolecular Photocycloaddition of 3-(But-3-enyl)oxy- and 3-(Pent-4-enyl)oxy-cyclohex-2-enones: Stereospecific Formation of 2-Oxabicyclo-[3,2,0]heptane and -[4,2,0]octane Systems  
*J. Chem. Soc., Chem. Commun.*, 101-102 (1973).
15. Y. Tamura, J. Uraoka, S. Fukumori, Y. Kita  
Rearrangement in Dihydroresorcinol Derivatives. IX. Photo-Fries Rearrangement of 3-Acetamido-2-cyclohexen-1-ones  
*Chem. Pharm. Bull.*, **21**, 1372-1375 (1973).
16. Y. Tamura, T. Miyamoto, T. Nishimura, Y. Kita  
Pyrolysis of Dimethylsulfoxonium (3-Oxo-1-cyclohexen-1-yl)methylides  
*Tetrahedron Lett.*, **14**, 2351-2354 (1973).
17. Y. Tamura, T. Miyamoto, T. Nishimura, J. Eiho, Y. Kita  
Structure and Some Reactions of Dimethyloxosulphonio-(3-oxocyclohex-1-enyl)methanide  
*J. Chem. Soc., Perkin Trans. 1*, 102-104 (1974).
18. Y. Tamura, T. Miyamoto, J. Eiho, H. Taniguchi, T. Nishimura, Y. Kita  
Synthesis of Ylides Stabilized by the 3-Oxocyclohex-1-enyl Group  
*J. Chem. Soc., Perkin Trans. 1*, 105-107 (1974).
19. Y. Tamura, T. Miyamoto, H. Kiyokawa, Y. Kita  
Michael Addition of Dimethyloxosulphonio-(3-oxocyclohex-1-enyl)methanides to  $\alpha,\beta$ -Unsaturated Compounds: Preparation of Some Vinylcyclopropanes  
*J. Chem. Soc., Perkin Trans. 1*, 1125-1127 (1974).
20. Y. Tamura, S. Kato, Y. Yoshimura, T. Nishimura, Y. Kita  
Rearrangement in Dihydroresorcinol Derivatives. XI. Photolysis and Thermolysis of 3-Azido-2-cyclohexen-1-ones and 2-Cyclopenten-1-ones  
*Chem. Pharm. Bull.*, **22**, 1291-1296 (1974).
21. Y. Tamura, S. Fukumori, S. Kato, Y. Kita  
Photocyclisation of 2-(*o*-Methoxyaryl)-3-methylcyclohex-2-enones with Elimination of *ortho*-Methoxy-group  
*J. Chem. Soc., Chem. Commun.*, **8**, 285-286 (1974).
22. Y. Tamura, T. Miyamoto and Y. Kita  
Reaction of Dimethyloxosulphonio-(3-oxocyclohex-1-enyl)methanide with Aromatic Aldehydes  
*J. Chem. Soc., Chem. Commun.*, **14**, 531 (1974).
23. Y. Tamura, T. Miyamoto, H. Kiyokawa, Y. Kita  
Reaction of Dimethyloxosulphonio- and Triphenylphosphonio-(3-oxocyclohex-1-enyl)methanides with Diphenylcyclopropanone  
*J. Chem. Soc., Perkin Trans. 1*, 2053-2054 (1974).
24. Y. Tamura, T. Sakaguchi, T. Kawasaki, Y. Kita  
Reaction of 3-Amino-2-cyclohexen-1-ones with Dibenzoyl ethylene: Regioselective Synthesis of 4-Oxotetrahydroindoles and 5-Oxotetrahydroquinolines  
*Heterocycles*, **2**, 645-648 (1974).

25. Y. Tamura, H. Ishibashi, M. Hirai, Y. Kita, M. Ikeda  
Photochemical Syntheses of 2-Aza- and 2-Oxabicyclo[2.1.1]hexane Ring Systems  
*J. Org. Chem.*, **40**, 2702-2710 (1975).
26. Y. Tamura, T. Sakaguchi, T. Kawasaki, Y. Kita  
A Regioselective Synthesis of Pyrrolo- and Pyrido[2,3-*d*]pyrimidine-2,4-diones  
*Heterocycles*, **3**, 183-186 (1975).
27. Y. Tamura, O. Nishikawa, T. Shimizu, M. Akita, Y. Kita  
Novel Semmler-Wolff Aromatisation for 4-Amino-oxindole and 5- and 7-Amino-3,4-dihydrocarbostyrils  
*Chem. Ind. (London, United Kingdom)*, 922-923 (1975).
28. Y. Tamura, T. Sakaguchi, T. Kawasaki, Y. Kita  
Reactions of Cyclic-enaminoketones with Diacylethylenes. Regioselective Synthesis of 4-Oxotetrahydroindole, 5-Oxotetrahydroquinoline, Pyrrolo- and Pyrido[2,3-*d*]pyrimidines  
*Chem. Pharm. Bull.*, **24**, 1160-1164 (1976).
29. Y. Tamura, T. Kawasaki, M. Adachi, M. Tanio, Y. Kita  
Thiocyanation and Cyanation Using a New Combined Reagent of Triphenylphosphine and Thiocyanogen  
*Tetrahedron Lett.*, **18**, 4417-4420 (1977).
30. Y. Tamura, T. Kawasaki, M. Tanio, Y. Kita  
Isothiocyanation of Carboxylic Acids with Combined Reagent,  $\text{Ph}_3\text{P}(\text{SCN})_2$ : A New One-step Synthesis of 2-Thioxo-3,4-dihydro-2*H*-1,3-benzoxazin-4-ones and Related Compounds  
*Chem. Ind. (London, United Kingdom)*, 806-807 (1978).
31. Y. Tamura, M. Adachi, T. Kawasaki, Y. Kita  
New Method for Converting Amines into 1,1-Disubstituted Thioureas by Using a Combined Reagent of Triphenylphosphine and Thiocyanogen  
*Tetrahedron Lett.*, **19**, 1753-1754 (1978).
32. Y. Tamura, J. Haruta, S. Okuyama, Y. Kita  
Preparation and Reactions of Alkyl and Aryl Isopropenyl Carbonates Novel Alkoxy- and Aryloxycarbonylations of Amines  
*Tetrahedron Lett.*, **19**, 3737-3740 (1978).
33. Y. Tamura, T. Kawasaki, M. Tanio, Y. Kita  
A New Convenient Synthesis of 2-Thioxo-1,2-dihydroquinazolines  
*Synthesis*, 120-121 (1979).
34. Y. Tamura, H. Kiyokawa and Y. Kita  
Photo-reaction of  $\beta$ -Ketovinyl Sulfur Compounds  
*Chem. Pharm. Bull.*, **27**, 676-681 (1979).
35. Y. Tamura, T. Kawasaki, N. Gohda, Y. Kita  
A Synthesis and Some Reactions of 2-Thiocyanato-2-ethylenic Carbonyl Compounds  
*Tetrahedron Lett.*, **20**, 1129-1132 (1979).
36. Y. Tamura, T. Kawasaki, M. Adachi, Y. Kita  
Reactions of Thiocarbamoylaminophosphonium Salts obtained from Amines and the Combined Reagent, Triphenylphosphine-thiocyanogen (TPPT): Preparation of Thioureas, Acylthioureas and Amides  
*Chem. Pharm. Bull.*, **27**, 1636-1640 (1979).
37. Y. Tamura, M. Adachi, T. Kawasaki, Y. Kita  
Selenocyanation Using a Combined Reagent of Triphenylphosphine and Selenocyanogen. A New and Simple Synthesis of Alkyl Selenocyanates and Symmetrical Alkyl Diselenides

- from Alcohols *Tetrahedron Lett.*, **20**, 2251-2252 (1979).
38. Y. Tamura, L. C. Chen, M. Fujita, H. Kiyokawa, Y. Kita  
A New and Effective Synthesis of Enaminones Derived from *N*-Benzyl- and  
*N*-Acetylpiperidine-3,5-diones  
*Chem. Ind. (London, United Kingdom)*, 668-669 (1979).
39. Y. Tamura, T. Kawasaki, M. Adachi, Y. Kita  
Reaction of Grignard Reagents with the Combined Reagent Triphenylphosphine Thiocyanate; A  
Versatile Route to *N*-Unsubstituted Thioamides  
*Synthesis*, 887-889 (1979).
40. Y. Kita, J. Haruta, J. Segawa, Y. Tamura  
Ketene Methyl Trialkylsilyl Acetals as Effective Silylating Agents for Alcohols, Carboxylic  
Acids, Mercaptans and Amides  
*Tetrahedron Lett.*, **20**, 4311-4314 (1979).
41. Y. Tamura, L. C. Chen, M. Fujita, Y. Kita  
Synthesis of 1-Substituted 3-Anilino-4-diethylaminomethyl-5-oxo-3,4-dehydropiperidines and  
2-Substituted 1,2,3,5,6,11-Hexahydro-5-phenyl-4*H*-pyrido[3,4-*b*][1,5]benzodiazepin-4-ones  
*J. Heterocyclic Chem.*, **17**, 1-4 (1980).
42. Y. Tamura, M. Adachi, T. Kawasaki, H. Yasuda, Y. Kita  
Cyanation Using the Combined Reagent, Triphenylphosphine-Thiocyanogen (TPPT):  
A New General Route to Indole and Pyrrole Carbonitriles  
*J. Chem. Soc., Perkin Trans. 1*, 1132-1135 (1980).
43. Y. Tamura, Y. Yoshimoto, K. Sakai, Y. Kita  
A New, Convenient Method for Semmler-Wolff Aromatization  
*Synthesis*, 483-484 (1980).
44. Y. Kita, J. Segawa, J. Haruta, T. Fujii, Y. Tamura  
*O*-Silylated Ketene Acetal Chemistry;  $\beta$ -(Alkoxy-carbonyl)methyl *O*-Silyl Enolates, Useful  
Synthons for  $\alpha$ -Substituted- $\beta$ -(alkoxy-carbonyl)methylalkanones  
*Tetrahedron Lett.*, **21**, 3779-3782 (1980).
45. Y. Tamura, Y. Yoshimoto, K. Sakai, J. Haruta, Y. Kita  
A Mild and Efficient Method for Semmler-Wolff Aromatization; A Versatile Route to  
*m*-Alkoxy-, *m*-Halogeno-, and *m*-Thiocyanato-acetanilides  
*Synthesis*, 887-889 (1980).
46. Y. Kita, J. Haruta, H. Tagawa, Y. Tamura  
Facile and Efficient Carboalkoxylation and Carboaryloxylation of Amines  
*J. Org. Chem.*, **45**, 4519-4522 (1980).
47. Y. Tamura, Y. Kita and T. Kawasaki  
A Novel Combined Reagent, Triphenylphosphine-Thiocyanogen (TPPT)  
*Yuki Gosei Kagaku Kyokaiishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **38**, 891-898 (1980).
48. Y. Tamura, M. Fujita, L. C. Chen, H. Kiyokawa, K. Ueno, Y. Kita  
Studies on 3,5-Dioxopiperidines: Novel and Facile Synthetic Routes to 3-Amino-5-  
hydroxypyridine Derivatives  
*Heterocycles*, **15**, 871-874 (1981). (Tetsuji Kametani's Special Issue)
49. Y. Tamura, T. Kawasaki, H. Yasuda, N. Gohda, Y. Kita  
Reaction of Epoxides with Triphenylphosphine-Thiocyanogen (TPPT): Preparation of  
 $\alpha$ -Thiocyanatovinyl Ketones, *vic*-Dithiocyanates, and *vic*-Dithiocyanatohydrins  
*J. Chem. Soc., Perkin Trans. 1*, 1577-1581 (1981)

50. Y. Tamura, M. Fujita, L. C. Chen, K. Ueno, Y. Kita  
N-Alkylation of Ethyl 1,4-Dihydro-4-oxopyridine-3-carboxylates *via* Their Thallium(I) Salts  
*Chem. Pharm. Bull.*, **29**, 739-743 (1981).
51. Y. Tamura, A. Wada, S. Okuyama, S. Fukumori, Y. Hayashi, N. Gohda, Y. Kita  
Synthesis and Photocyclization of 2-Aroyl-3-methylcyclohex-2-enones  
*Chem. Pharm. Bull.*, **29**, 1312-1320 (1981).
52. Y. Kita, J. Haruta, T. Fujii, J. Segawa, Y. Tamura  
O-Silylated Ketene Acetal Chemistry; A Mild and Efficient *t*-Butyldimethylsilylating Agent  
*Synthesis*, 451-452 (1981).
53. Y. Tamura, L. C. Chen, M. Fujita, H. Kiyokawa, Y. Kita  
Studies on 3,5-Dioxopiperidines and Related Compounds: Synthesis of 5-(3-*tert*-Butylamino-2-hydroxy)propoxy-1,2,3,4-tetrahydro-2-oxo-1,7-naphthyridine  
*Chem. Pharm. Bull.*, **29**, 2460-2464 (1981).
54. Y. Tamura, M. Fujita, L. C. Chen, M. Inoue, Y. Kita  
Regioselective Metalation of the 4-Position of Pyridine. New and Convenient Alkylation and Acylation of 3-Amino-5-methoxypyridine  
*J. Org. Chem.*, **46**, 3564-3567 (1981).
55. Y. Tamura, M. Inoue, A. Wada, M. Fujita, Y. Kita  
Reaction of 2-Aroylcyclohex-2-enones with Hydroxylamine. Isoxazole Ring Formation  
*Chem. Pharm. Bull.*, **29**, 3226-3231 (1981).
56. Y. Tamura, A. Wada, Y. Hayashi, M. Inoue, Y. Kita  
Photochemical and Thermal Behavior of 2-Benzoyl-3-ethoxycarbonylmethylcyclohex-2-enone and Its Derivatives  
*Chem. Pharm. Bull.*, **29**, 3232-3237 (1981).
57. Y. Tamura, A. Wada, M. Sasho, Y. Kita  
Cycloaddition of Homophthalic Anhydride: A New and Simple Route to Linearly Condensed Phenolic Compounds  
*Tetrahedron Lett.*, **22**, 4283-4286 (1981).
58. Y. Kita  
Reagents for Syntheses by Enol-Keto Reactions under Neutral Conditions  
*Seisan to Gijutsu (Manufacturing & Technology) (Japanese)*, **33**, 33-35 (1981).
59. Y. Tamura, M. Fujita, L. C. Chen, K. Ueno, Y. Kita  
A Synthesis of 5-Amino- and 5-Hydroxy-1-ethyl-1,4-dihydro-4-oxo-3-quinolinecarboxylic Acids and Their Derivatives  
*J. Heterocyclic Chem.*, **19**, 289-296 (1982).
60. Y. Tamura, L. C. Chen, M. Fujita, Y. Kita  
Synthetic Application of Lithiation Reactions: A Convenient Synthesis of 3,4-Dihydro-5-hydroxycarbostyryl, 1,2,3,4-Tetrahydro-5-hydroxy-2-oxo-1,7-naphthyridine, and Methyl 3-Methoxypyridine-4-carboxylate  
*Chem. Pharm. Bull.*, **30**, 1257-1262 (1982).
61. Y. Kita, J. Segawa, J. Haruta, H. Yasuda, Y. Tamura  
Ketene Silyl Acetal Chemistry; Simple Synthesis of Methyl Jasmonate and Related Compounds by Utilising Ketene Methyl Dimethyl-*t*-butylsilyl Acetal  
*J. Chem. Soc., Perkin Trans. 1*, 1099-1104 (1982).
62. Y. Tamura, S. Fukumori, A. Wada, S. Okuyama, J. Adachi, Y. Kita  
Photochemical Dealkylation of 2-Acyl-3-alkylamino-5,5-dimethyl-2-cyclohexen-1-ones  
*Chem. Pharm. Bull.*, **30**, 1692-1696 (1982).

63. Y. Kita  
Silylation Reagents  
*Farumashia (Japanese)*, **18**, 700-703 (1982).
64. Y. Kita, J. Haruta, H. Yasuda, K. Fukunaga, Y. Shirouchi, Y. Tamura  
Amino-Protecting Reagents: New Promising Reagents for *tert*-Butoxycarbonylation, (Benzyloxy)carbonylation, and [ $\beta$ -(Trimethylsilyl)ethoxy]carbonylation  
*J. Org. Chem.*, **47**, 2697-2700 (1982).
65. Y. Kita, H. Yasuda, J. Haruta, J. Segawa, Y. Tamura  
The Chemistry of *O*-Silylated Ketene Acetals; A Mild and Facile Preparation of Trimethylsilyl Enol Ethers and of Cyclic *O,O*-, *O,S*-, and *S,S*-Acetals from Enolizable Carbonyl Compounds  
*Synthesis*, 1089-1091 (1982).
66. Y. Tamura, A. Wada, M. Sasho, K. Fukunaga, H. Maeda, Y. Kita  
A New General Regiocontrolled Synthesis of Anthracyclonones Using Cycloaddition of Homophthalic Anhydrides to 2-Chloro-6-oxo-5,6,7,8-tetrahydro-1,4-naphthoquinone 1,2-Ethanediy Acetal  
*J. Org. Chem.*, **47**, 4376-4378 (1982).
67. Y. Tamura, A. Wada, M. Sasho, Y. Kita  
Reactions of 2-Benzoyl-3-chloro-2-cyclohexen-1-ones with Some Organometallic Compounds  
*Chem. Pharm. Bull.*, **31**, 52-56 (1983).
68. Y. Kita, H. Yasuda, Y. Sugiyama, F. Fukata, J. Haruta, Y. Tamura  
*O*-Silylated Ketene Acetal Chemistry; Divinyloxysilane Derivatives as Novel and Useful Bifunctional Protecting Agents for H-Acidic Materials  
*Tetrahedron Lett.*, **24**, 1273-1276 (1983).
69. Y. Tamura, A. Wada, M. Sasho, Y. Kita  
Linearly Condensed *peri*-Hydroxy Aromatic Compounds Derived from the Cycloaddition Reaction of Homophthalic Anhydrides with Dienophiles  
*Chem. Pharm. Bull.*, **31**, 2691-2697 (1983).
70. Y. Tamura, M. Sasho, K. Nakagawa, T. Tsugoshi, Y. Kita  
Strong Base Induced Cycloaddition of Homophthalic Anhydrides Leading to *peri*-Hydroxy Polycyclic Compounds  
*J. Org. Chem.*, **49**, 473-478 (1984).
71. Y. Tamura, S. Mohri, H. Maeda, T. Tsugoshi, M. Sasho, Y. Kita  
Strong Base Induced Cycloaddition of 3-Carboxy-1-methylindole-2-acetic Anhydride and 2-Carboxybenzo[b]furan-3-acetic Anhydride: Synthesis of Polycyclic *peri*-Hydroxylated Indole and Benzofuran Compounds  
*Tetrahedron Lett.*, **25**, 309-312 (1984).
72. Y. Tamura, S. Akai, M. Sasho, Y. Kita  
A Brief and Regiospecific Synthesis of the Late-Stage Intermediate to 11-Deoxyanthracyclonones  
*Tetrahedron Lett.*, **25**, 1167-1170 (1984).
73. Y. Kita, H. Yasuda, O. Tamura, Y. Tamura  
Cycloaddition of Silylene Protecting Dihydroxystyrene Derived from *ortho*-Hydroxyacetophenone: One-Step Synthesis of *peri*-Hydroxylated Polycyclic Compounds  
*Tetrahedron Lett.*, **25**, 1813-1816 (1984).
74. Y. Tamura, T. Tsugoshi, Y. Nakajima, Y. Kita  
A Convenient Synthesis of Alkyl 2-Alkoxy carbonyl-3-pyridineacetates  
*Synthesis*, 930-933 (1984).

75. Y. Tamura, F. Fukata, T. Tsugoshi, M. Sasho, Y. Nakajima, Y. Kita  
Synthesis of 8-Methoxy- and 8-Methoxy-6-methylhomophthalic Anhydrides, Key Intermediates for the Synthesis of Anthracyclonones and *peri*-Hydroxylated Polycyclic Aromatic Compounds  
*Chem. Pharm. Bull.*, **32**, 3259-3262 (1984).
76. Y. Tamura, M. Sasho, S. Akai, A. Wada, Y. Kita  
Anthracyclonone Syntheses Using Strong Base Induced Cycloaddition of Homophthalic Anhydrides and Related Compounds  
*Tetrahedron*, **40**, 4539-4548 (1984).
77. Y. Kita, H. Yasuda, O. Tamura, F. Itoh, Y. Tamura  
The Chemistry of *O*-Silylated Ketene Acetal; Pummerer Rearrangement of Sulfoxides into  $\alpha$ -Siloxysulfides  
*Tetrahedron Lett.*, **25**, 4681-4682 (1984).
78. Y. Kita, S. Akai, M. Yoshigi, Y. Nakajima, H. Yasuda, Y. Tamura  
A Mild and Facile Synthesis of Carboxylic Anhydrides  
*Tetrahedron Lett.*, **25**, 6027-6030 (1984).
79. Y. Tamura, M. Sasho, H. Maeda, T. Tsugoshi, Y. Kita  
Strong Base Induced Cycloaddition of Homophthalic Anhydrides and Their Heteroaromatic Analogues Leading to Polycyclic Aromatic Compounds  
*Heterocycles*, **21**, 724 (1984).
80. Y. Kita and Y. Tamura  
Diels-Alder Reaction Utilizing Novel Diene Systems (Review)  
*Yuki Gosei Kagaku Kyokaiishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **42**, 860-875 (1984).
81. Y. Tamura, M. Sasho, H. Ohe, S. Akai, Y. Kita  
A Short and Efficient Synthesis of 11-Deoxyanthracyclonones: Strong Base-Induced Cycloaddition of the Suitably Substituted Tetrahydrohomophthalic Anhydride  
*Tetrahedron Lett.*, **26**, 1549-1552 (1985).
82. Y. Tamura, T. Tsugoshi, S. Mohri, Y. Kita  
Michael Addition to 1,3-Bis(alkoxycarbonyl)allenes: Synthesis of Heterocyclic Compounds Having Glutaconate Structure in the Molecules  
*J. Org. Chem.*, **50**, 1542-1544 (1985).
83. C. S. Chien, T. Kawasaki, M. Sakamoto, Y. Tamura, Y. Kita  
Stereospecific Epoxidation of *cis*-2-Butene-1,4-diones to *cis*-2,3-Epoxybutane-1,4-diones with Oxodiperoxomolybdenum(VI), MoO<sub>5</sub>·H<sub>2</sub>O·HMPA  
*Chem. Pharm. Bull.*, **33**, 2743-2749 (1985).
84. Y. Tamura, T. Tsugoshi, S. Mohri, Y. Nakajima, Y. Kita  
Cycloaddition to 1,3-Dialkoxycarbonylallenes: One-Step Synthesis of Heterocyclic Compounds Containing a Dialkyl Glutaconate Structure  
*Chem. Pharm. Bull.*, **33**, 3257-3262 (1985).
85. Y. Tamura, T. Yakura, J. Haruta, Y. Kita  
An Efficient Conversion of Keto Groups into Dihydroxyacetone Groups: Oxidation of Ethynylcarbinol Intermediates by Using Hypervalent Iodine Reagent  
*Tetrahedron Lett.*, **26**, 3837-3840 (1985).
86. Y. Tamura, F. Fukata, M. Sasho, T. Tsugoshi, Y. Kita  
Synthesis of Antibiotic SS-228R. Strong Base Induced Cycloaddition of Homophthalic Anhydrides  
*J. Org. Chem.*, **50**, 2273-2277 (1985).

87. Y. Kita, O. Tamura, H. Yasuda, F. Itoh, Y. Tamura  
Chemistry of *O*-Silylated Ketene Acetals: Preparation of  $\alpha$ -Siloxy Phenyl Sulfides and Methyl 3-(Phenylthio)butyrates from Alkyl Phenyl Sulfoxides  
*Chem. Pharm. Bull.*, **33**, 4235-4241 (1985).
88. Y. Kita, S. Mohri, T. Tsugoshi, H. Maeda, Y. Tamura  
Reaction of Heteroaromatic Analogs of Homophthalic Anhydride: Synthesis of Hetero Analogs of *peri*-Hydroxy Polycyclic Aromatic Compounds, Isocoumarins, Isoquinolinones, and Related Compounds  
*Chem. Pharm. Bull.*, **33**, 4723-4731 (1985).
89. Y. Kita, H. Yasuda, O. Tamura, F. Itoh, Y. Y. Ke, Y. Tamura  
The Chemistry of *O*-Silylated Ketene Acetals; Diastereoselective Aldol Reaction of 2,3-*O*-Isopropylidene-D-(and L)-glyceraldehydes Leading to 2-Deoxy-D-(and L)- riboses  
*Tetrahedron Lett.*, **26**, 5777-5780 (1985).
90. Y. Tamura, T. Tsugoshi, S. Mohri, S. Akai, M. Yoshigi, Y. Kita  
Heterocyclic Synthesis with 1,3-Dicarboalkoxyallenes: Synthesis and Reaction of Heterocyclic Compounds Having Glutaconic Anhydride Structure in the Molecules  
*Heterocycles*, **23**, 217 (1985).
91. Y. Tamura, M. Sasho, S. Akai, H. Kishimoto, J. Sekihachi, Y. Kita  
A Highly Convergent Strategy for the Synthesis of 4-Demethoxydaunomycinone and Daunomycinone: A Novel Synthesis of C<sub>4</sub>-Acetoxyated Homophthalic Anhydrides  
*Tetrahedron Lett.*, **27**, 195-198 (1986).
92. Y. Kita, S. Akai, N. Ajimura, M. Yoshigi, T. Tsugoshi, H. Yasuda, Y. Tamura  
Facile and Efficient Syntheses of Carboxylic Anhydrides and Amides Using (Trimethylsilyl)ethoxyacetylene  
*J. Org. Chem.*, **51**, 4150-4158 (1986).
93. Y. Tamura, T. Tsugoshi, S. Mohri, M. Sasho, S. Akai, M. Kirihara, Y. Kita  
Studies on the Synthesis of Heteroanthracyclines  
*Heterocycles*, **24**, 244 (1986).
94. Y. Kita  
Development of Acyl and Silyl Group Transfer Reactions of Ketene Acetal Derivatives Utilizing Enol-Keto Transformation and Their Applications to the Synthesis of Natural Products  
*YAKUGAKU ZASSHI*, **106**, 269-285 (1986).
95. Y. Kita, O. Tamura and Y. Tamura  
Ketene Silyl Acetals in Organic Synthesis (Review)  
*Yuki Gosei Kagaku Kyokaiishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **44**, 1118-1133 (1986).
96. Y. Kita, O. Tamura, F. Itoh, H. Yasuda, T. Miki, Y. Tamura  
Chemistry of *O*-Silylated Ketene Acetals. Novel Chemical Transformation of Vinyl Sulfoxides and Related Sulfoxides  
*Chem. Pharm. Bull.*, **35**, 562-569 (1987).
97. Y. Tamura, T. Yakura, H. Terashi, J. Haruta, Y. Kita  
Hypervalent Iodine Oxidation of  $\alpha,\beta$ -Unsaturated Carbonyl Compounds  
*Chem. Pharm. Bull.*, **35**, 570-577 (1987).
98. Y. Kita, F. Itoh, O. Tamura, Y. Y. Ke, Y. Tamura  
The Chemistry of *O*-Silylated Ketene Acetals: An Efficient Stereocontrolled Synthesis of *N*-Benzoyl-L-daunosamine  
*Tetrahedron Lett.*, **28**, 1431-1434 (1987).

99. Y. Tamura, M. Sasho, S. Akai, H. Kishimoto, J. Sekihachi, Y. Kita  
An Efficient, Regiospecific Synthesis of 4-Demethoxydaunomycinone and Daunomycinone  
*Chem. Pharm. Bull.*, **35**, 1405-1412 (1987).
100. Y. Tamura, T. Yakura, J. Haruta, Y. Kita  
Hypervalent Iodine Oxidation of *p*-Alkoxyphenols and Related Compounds: A General Route to *p*-Benzoquinone Monoacetals and Spiro Lactones  
*J. Org. Chem.*, **52**, 3927-3930 (1987).
101. Y. Tamura, M. Kirihara, J. Sekihachi, R. Okunaka, S. Mohri, T. Tsugoshi, S. Akai, M. Sasho, Y. Kita  
A New Synthetic Strategy for Heteroanthracyclines: Total Synthesis of D-Ring Thiophene Analogs of Daunomycin  
*Tetrahedron Lett.*, **28**, 3971-3974 (1987).
102. Y. Tamura, S. Akai, H. Kishimoto, M. Kirihara, M. Sasho, Y. Kita  
Practical Total Synthesis of 11-Deoxydaunomycinone and the First Total Synthesis of 11-Deoxydaunomycin  
*Tetrahedron Lett.*, **28**, 4583-4586 (1987).
103. Y. Tamura, M. Kirihara, M. Sasho, S. Akai, J. Sekihachi, R. Okunaka, Y. Kita  
Total Synthesis of a D-Ring Indole Analogue of Daunomycin  
*J. Chem. Soc., Chem. Commun.*, 1474-1476 (1987).
104. Y. Tamura, H. Annoura, H. Yamamoto, H. Kondo, Y. Kita, H. Fujioka  
Asymmetric Synthesis of Anthracyclines Using Chiral Acetal: Synthesis of a New Chiral AB-Synthon, (-)-2-Bromo-6-ethynyl-6-hydroxy-5,6,7,8-tetrahydro-1,4-naphthoquinone, and Its Application for (-)-7-Deoxydaunomycinone  
*Tetrahedron Lett.*, **28**, 5709-5712 (1987).
105. Y. Kita, O. Tamura, T. Miki, Y. Tamura  
Chemistry of *O*-Silylated Ketene Acetals: An Efficient Synthesis of  $\alpha$ -Thio-*N*-heterocycles from  $\omega$ -Amidosulfoxides by a Novel Intramolecular Pummerer-type Rearrangement  
*Tetrahedron Lett.*, **28**, 6479-6480 (1987).
106. Y. Kita, S. Akai and Y. Tamura  
Mild Dehydrative Condensation of Carboxylic Acids and H-Acidic Materials Using (Trimethylsilyl)ethoxyacetylene  
*J. Pharmaceutical Sci. (Japanese)*, **76**, 11, s226 (1987).
107. Y. Tamura, S. Akai, H. Kishimoto, M. Sasho, M. Kirihara, Y. Kita  
Total Synthesis of 11-Deoxydaunomycin  
*J. Pharmaceutical Sci. (Japanese)*, **76**, 11, s227 (1987).
108. Y. Kita, O. Tamura, F. Itoh, H. Yasuda, H. Kishino, Y. Y. Ke, Y. Tamura  
The Chemistry of *O*-Silylated Ketene Acetals: Stereocontrolled Synthesis of 2-Deoxy- and 2-Deoxy-2-*C*-alkyl-*erythro*-pentoses  
*J. Org. Chem.*, **53**, 554-561 (1988).
109. Y. Kita, O. Tamura, F. Itoh, H. Kishino, T. Miki, M. Kohno, Y. Tamura  
Ketene Silyl Acetal Chemistry; Diastereofacial Selectivity of 1,3-Addition of Chiral Nitrones  
*J. Chem. Soc., Chem. Commun.*, 761-763 (1988).
110. Y. Tamura, S. Akai, H. Kishimoto, M. Sasho, M. Kirihara, Y. Kita  
Total Synthesis of 11-Deoxyanthracyclines: 4-Demethoxy-11-deoxydaunomycin, 11-Deoxydaunomycin, and Their Analogues  
*Chem. Pharm. Bull.*, **36**, 3897-3914 (1988).
111. Y. Kita, R. Okunaka, M. Sasho, M. Taniguchi, T. Honda, Y. Tamura

- Strong Base Induced Intramolecular Cycloaddition of Homophthalic Anhydrides Leading to Polycyclic *peri*-Hydroxy Aromatic Compounds  
*Tetrahedron Lett.*, **29**, 5943-5944 (1988).
112. Y. Tamura and Y. Kita  
Synthesis of Anthracycline Antibiotics —Cycloaddition Reaction of Homophthalic Anhydrides and Their Related Compounds  
*Yuki Gosei Kagaku Kyokaishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **46**, 205-217 (1988).
113. H. Fujioka, M. Fuji, Y. Okaichi, T. Yoshida, H. Annoura, Y. Kita, Y. Tamura  
Asymmetric Synthesis Using Chiral Acetals: Highly Diastereoselective Addition of Organocerium Reagents to Chiral  $\alpha$ -Aldoxime-Ether Acetal  
*Chem. Pharm. Bull.*, **37**, 602-605 (1989).
114. Y. Kita, T. Yakura, H. Terashi, J. Haruta, Y. Tamura  
Hypervalent Iodine Oxidation of Ethynylcarbinols: A Short and Efficient Conversion of Dihydroxyacetyl Groups from Keto Groups  
*Chem. Pharm. Bull.*, **37**, 891-894 (1989).
115. Y. Kita, O. Tamura, T. Miki, H. Tono, N. Shibata, Y. Tamura  
Chemistry of *O*-Silylated Ketene Acetals: Biomimetic Synthesis of *cis*- $\beta$ -Lactams  
*Tetrahedron Lett.*, **30**, 729-730 (1989).
116. Y. Kita, F. Itoh, O. Tamura, Y. Y. Ke, T. Miki, Y. Tamura  
The Chemistry of *O*-Silylated Ketene Acetals: Synthesis of *N*-Benzoyl-L-daunosamine  
*Chem. Pharm. Bull.*, **37**, 1446-1451 (1989).
117. Y. Kita, T. Yakura, H. Tohma, K. Kikuchi, Y. Tamura  
A Synthetic Approach to Discorhabdin Alkaloids: Hypervalent Iodine Oxidation of *p*-Substituted Phenol Derivatives to Azacarbocyclic Spirodienones  
*Tetrahedron Lett.*, **30**, 1119-1120 (1989).
118. Y. Tamura, T. Yakura, H. Tohma, K. Kikuchi, Y. Kita  
Hypervalent Iodine Oxidation of *p*-Alkoxy- and Related Phenols: A Facile and Efficient Synthesis of *p*-Quinones  
*Synthesis*, 126-127 (1989).
119. H. Fujioka, H. Kondo, H. Annoura, H. Yamamoto, T. Ko, Y. Kita, Y. Tamura, K. Aoe  
Asymmetric Synthesis Using Chiral Acetals: Highly Diastereoselective Nucleophilic Addition of Grignard Reagents to Chiral 1-Oxo- $\beta$ -tetralone 1-Acetals  
*Chem. Pharm. Bull.*, **37**, 1488-1492 (1989).
120. Y. Kita, S. Akai, M. Yamamoto, M. Taniguchi, Y. Tamura  
(Trimethylsilyl)ethoxyacetylene. An Effective Reagent for Mild Dehydrative Condensation of Carboxylic Acids and *H*-Acidic Materials  
*Synthesis*, 334-337 (1989).
121. Y. Kita, O. Tamura, F. Itoh, H. Kishino, T. Miki, M. Kohno, Y. Tamura  
Chemistry of *O*-Silylated Ketene Acetals: Stereocontrolled Synthesis of 3-Benzoylamino- 2,3-dideoxypentoses by a 1,3-Addition to Chiral Nitrones  
*Chem. Pharm. Bull.*, **37**, 2002-2007 (1989).
122. Y. Kita, R. Okunaka, T. Honda, M. Shindo, O. Tamura  
A Novel Intramolecular [4+2] Cycloaddition of Silylene Protecting Dihydroxystyrene Derivatives: A Versatile Synthesis of Linearly Condensed *peri*-Hydroxy Aromatic Compounds  
*Tetrahedron Lett.*, **30**, 3995-3998 (1989).
123. H. Fujioka, H. Annoura, K. Murano, Y. Kita, Y. Tamura  
Asymmetric Synthesis Using Chiral Acetals: Highly Stereoselective Reduction of Chiral

- $\alpha$ -Keto- $\beta,\gamma$ -unsaturated Acetals and Its Application for the Syntheses of (*R*)-(-) and (*S*)-(+)-3'-Methoxy-4'-*O*-methyljoubertiamine  
*Chem. Pharm. Bull.*, **37**, 2047-2052 (1989).
124. J. Haruta, K. Nishi, K. Kikuchi, S. Matsuda, Y. Tamura, Y. Kita  
Synthesis of 2-(Heteroarylthiomethyl)-1 $\beta$ -methylcarbapenem *via* Propargylation of 4-Acetoxy-2-azetidinone with 3-Methyl-1-tributylstannylallene  
*Chem. Pharm. Bull.*, **37**, 2338-2343 (1989).
125. Y. Kita, O. Tamura, N. Shibata, T. Miki  
Chemistry of *O*-Silylated Ketene Acetals: A Synthesis of  $\beta$ -Lactam Antibiotics  
*J. Chem. Soc., Perkin Trans. 1*, 1862-1864 (1989).
126. J. Haruta, K. Nishi, S. Matsuda, Y. Tamura, Y. Kita  
TiCl<sub>4</sub>-Mediated Conjugate Addition Reactions of Stannylallenes to  $\alpha,\beta$ -Unsaturated Carbonyl Compounds  
*J. Chem. Soc., Chem. Commun.*, 1065-1066 (1989).
127. H. Fujioka, H. Yamamoto, H. Kondo, H. Annoura, Y. Kita  
Regio- and Stereo-selective Construction of Anthracyclines: Total Synthesis of (-)- $\gamma$ -Rhodomycinone  
*J. Chem. Soc., Chem. Commun.*, 1509-1511 (1989).
128. Y. Kita, J. Sekihachi, Y. Hayashi, Y. Z. Da, M. Yamamoto, S. Akai  
An Efficient Synthesis of  $\alpha$ -Silylacetates Having Various Types of Functional Groups in the Molecules  
*J. Org. Chem.*, **55**, 1108-1112 (1990).
129. Y. Kita, M. Kirihara, M. Sasho, Y. Fujii, J. Sekihachi, R. Okunaka, Y. Tamura, K. Shimooka  
Synthetic Anthracyclines: Regiospecific Total Synthesis of a D-Ring Indole Analogue of Daunomycin  
*Chem. Pharm. Bull.*, **38**, 585-589 (1990).
130. Y. Kita, M. Kirihara, Y. Fujii, R. Okunaka, S. Akai, H. Maeda, Y. Tamura  
Synthetic Anthracyclines: Regiospecific Total Synthesis of a D-Ring Pyridine Analogue of 11-Deoxydaunomycin  
*J. Chem. Soc., Chem. Commun.*, 136-138 (1990).
131. Y. Kita, O. Tamura, N. Shibata, T. Miki  
Chemistry of *O*-Silylated Ketene Acetals: A Novel Intramolecular Pummerer-type Reaction of  $\omega$ -Carbamoylsulfoxides Leading to  $\alpha$ -Thiolactams  
*Chem. Pharm. Bull.*, **38**, 1473-1478 (1990).
132. Y. Kita, M. Kirihara, J. Sekihachi, R. Okunaka, M. Sasho, S. Mohri, T. Honda, S. Akai, Y. Tamura, K. Shimooka  
Synthetic Anthracyclines: Regiospecific Total Synthesis of D-Ring Thiophene Analogues of Daunomycin  
*Chem. Pharm. Bull.*, **38**, 1836-1843 (1990).
133. H. Fujioka, H. Yamamoto, H. Annoura, M. Miyazaki, Y. Kita  
Asymmetric Synthesis of Anthracyclines: Regio- and Stereoselective Synthesis of (-)-7-Deoxydaunomycinone through Direct Asymmetric Introduction of an Alkynyl Unit into C9 Ketone  
*Chem. Pharm. Bull.*, **38**, 1872-1876 (1990).
134. Y. Kita, N. Shibata, T. Miki, Y. Takemura, O. Tamura  
Chemistry of *O*-Silylated Ketene Acetals: A Stereoselective Synthesis of Chiral Thienamycin Intermediate  
*J. Chem. Soc., Chem. Commun.*, 727-729 (1990).

135. J. Haruta, K. Nishi, S. Matsuda, S. Akai, Y. Tamura, Y. Kita  
An Effective and Selective Conjugate Propargylation Reaction of Stannylallenes to  $\alpha,\beta$ -Unsaturated Carbonyl Compounds and  $\alpha$ -Nitro Olefins  
*J. Org. Chem.*, **55**, 4853-4859 (1990).
136. H. Fujioka, M. Miyazaki, T. Yamanaka, H. Yamamoto, Y. Kita  
Beckmann Fragmentation and Successive Carbon-Carbon Bond Formation of  $\alpha$ -Alkoxy cycloalkanone Oximes Catalyzed by Trimethylsilyl Trifluoromethanesulfonate  
*Tetrahedron Lett.*, **31**, 5951-5954 (1990).
137. Y. Kita, H. Maeda, M. Kirihara, Y. Fujii, T. Nakajima, H. Yamamoto, H. Fujioka  
The First Total Synthesis of a Potent  $\beta$ -Rhodomycin, Oxaunomycin: Regioselective Glycosidation of the C-7 Hydroxyl Group of  $\beta$ -Rhodomycinone  
*Tetrahedron Lett.*, **31**, 7173-7174 (1990).
138. Y. Kita *et al.*  
Protection and Deprotection of Ketones and Aldehydes  
*Yuki Gosei Jikkenhoh Handbook (Japanese)*, Chap. 15. 2. 4, 406-410,  
*Ed. by The Society of Synthetic Organic Chemistry, Japan,*  
*Maruzen Publishing Co., Ltd.*, ISBN: 4621034537 (1990).
139. Y. Kita, R. Okunaka, T. Honda, M. Shindo, M. Taniguchi, M. Kondo, M. Sasho  
Strong-Base-Induced Intramolecular Cycloaddition of Homophthalic Anhydrides: An Efficient Synthesis of Polycyclic *peri*-Hydroxy Aromatic Compounds  
*J. Org. Chem.*, **56**, 119-125 (1991).
140. Y. Kita, H. Tohma, K. Kikuchi, M. Inagaki, T. Yakura  
Hypervalent Iodine Oxidation of *N*-Acetyltyramines: Synthesis of Quinol Ethers, Spirohexadienones, and Hexahydroindol-6-ones  
*J. Org. Chem.*, **56**, 435-438 (1991).
141. Y. Kita, M. Kirihara, Y. Fujii, R. Okunaka, S. Akai, H. Maeda, Y. Tamura, K. Shimooka, H. Ohishi, T. Ishida  
Synthetic Anthracyclines: Total Synthesis of D-Ring Pyridine and Pyrazine Analogues of 11-Deoxydaunomycin  
*Chem. Pharm. Bull.*, **39**, 857-864 (1991).
142. R. Okunaka, T. Honda, M. Kondo, Y. Tamura, Y. Kita  
Strong Base-Induced Cycloaddition Reaction of Homophthalic Anhydride with Aldehydes  
*Chem. Pharm. Bull.*, **39**, 1298-1301 (1991).
143. H. Fujioka, T. Yamanaka, K. Takuma, M. Miyazaki, Y. Kita  
Organic Synthesis Utilizing Beckmann Fragmentation: New Carbon-Carbon Bond Formation by the Reaction of  $\alpha$ -Alkoxy cycloalkanone Oxime Acetates with Organoaluminium Reagents  
*J. Chem. Soc., Chem. Commun.*, 533-534 (1991).
144. Y. Kita, H. Tohma, M. Inagaki, K. Hatanaka, K. Kikuchi, T. Yakura  
Hypervalent Iodine Oxidation of *O*-Silylated Phenol Derivatives to Azacarbocyclic Spirodienones; Synthetic Approach to the Anticancer Marine Alkaloid, Discorhabdin C  
*Tetrahedron Lett.*, **32**, 2035-2038 (1991).
145. Y. Kita, N. Shibata, N. Yoshida, T. Tohjo  
A Novel Substitution Reaction of 4-Sulfinylazetid-2-one with Silylated Heteronucleophiles: An Efficient Synthesis of 4-Heterofunction Substituted 3-(1-Hydroxy)ethylazetid-2-ones  
*Tetrahedron Lett.*, **32**, 2375-2378 (1991).
146. Y. Kita, R. Okunaka, T. Honda, M. Kondo, O. Tamura, Y. Tamura  
A Novel Oxidative Intramolecular [4+2]Cycloaddition of Silylene-Protected Dihydroxystyrene Derivatives Leading to *peri*-Hydroxy Polycyclic Aromatic Compounds: A Synthesis of the

- ABCD Ring System of Fredericamycin A  
*Chem. Pharm. Bull.*, **39**, 2106-2114 (1991).
147. Y. Kita, S. Matsuda, S. Kitagaki, Y. Tsuzuki, S. Akai  
Chemistry of Silylketene: A One-Pot Synthesis of  $\alpha$ -Silyl Ketones  
*Synlett*, 401-402 (1991).
148. Y. Kita, H. Tohma, M. Inagaki, K. Hatanaka, T. Yakura  
A Novel Oxidative Azidation of Aromatic Compounds with Hypervalent Iodine Reagent, Phenyliodine(III) Bis(trifluoroacetate) (PIFA) and Trimethylsilyl Azide  
*Tetrahedron Lett.*, **32**, 4321-4324 (1991).
149. Y. Kita, N. Shibata, O. Tamura, T. Miki  
Chemistry of *O*-Silylated Ketene Acetals: A Mild and Convenient Synthesis of  $\beta$ -Lactam Antibiotics  
*Chem. Pharm. Bull.*, **39**, 2225-2232 (1991).
150. H. Fujioka, H. Yamamoto, M. Miyazaki, T. Yamanaka, K. Takuma, Y. Kita  
Reductive Beckmann Fragmentation of  $\alpha$ -Alkoxy-cycloalkanone Oxime Acetates  
*Tetrahedron Lett.*, **32**, 5367-5368 (1991).
151. Y. Kita, S. Akai, H. Fujioka, Y. Tamura, H. Tone, Y. Taniguchi  
Total Synthesis of a New Inhibitor of Superoxide Anion Generation, OPC-15161  
*Tetrahedron Lett.*, **32**, 6019-6020 (1991).
152. S. Akai, Y. Tsuzuki, S. Matsuda, S. Kitagaki, Y. Kita  
*syn*-Selective Reformatsky-type Reaction of  $\alpha$ -Silyl- $\alpha$ -stannylacetic Esters with Aldehydes: Stereoselective Synthesis of (*E*)- and (*Z*)-  $\alpha,\beta$ -Unsaturated Esters  
*Synlett*, 911-912 (1991).
153. Y. Kita *et al.*  
Electrophilic and Nucleophilic Reagents  
*Zoku Iyakuhi no Kaihatsu (Japanese)*, **13**. *Synthetic Reagents*, Chap. 2, 63-129, *Superv. Hiroaki Yajima, Ed. by Akira Kanematsu, Hirokawa Shoten Co., Ltd.*, ISBN: 4-567-39630-8 (1991).
154. Y. Kita, N. Shibata, T. Miki, Y. Takemura, O. Tamura  
Chemistry of *O*-Silylated Ketene Acetals: A Stereoselective Synthesis of Optically Active Carbapenem Antibiotics, (+)-Thienamycin and (+)-PS-5  
*Chem. Pharm. Bull.*, **40**, 12-20 (1992).
155. H. Fujioka, H. Yamamoto, H. Annoura, H. Maeda, Y. Kita  
Asymmetric Synthesis of Anthracyclines: Synthesis of a New Chiral AB-Synthon, (5*R*,6*R*)-6-Ethyl-5,6-dihydroxy-5,6,7,8-tetrahydro-1,4-naphthoquinone, and Its Application for a Novel Regioselective Synthesis of (-)- $\gamma$ -Rhodomycinone  
*Chem. Pharm. Bull.*, **40**, 32-35 (1992).
156. Y. Kita, H. Maeda, M. Kirihara, Y. Fujii, T. Nakajima, H. Yamamoto, Y. Tamura, H. Fujioka  
Synthesis of a Potent Rhodomycin, Oxaunomycin, and Its Analogs  
*Chem. Pharm. Bull.*, **40**, 61-65 (1992).
157. Y. Kita, H. Tohma, M. Inagaki, K. Hatanaka, T. Yakura  
Total Synthesis of Discorhabdin C: A General Aza Spiro Dienone Formation from *O*-Silylated Phenol Derivatives Using a Hypervalent Iodine Reagent  
*J. Am. Chem. Soc.*, **114**, 2175-2180 (1992).
158. H. Fujioka, T. Yamanaka, N. Matsunaga, M. Fuji, Y. Kita  
Asymmetric Synthesis of Carbapenems Using Chiral Acetals: Synthesis of a Key Intermediate to (+)-PS-5

- Synlett*, 35-36 (1992).
159. Y. Kita, N. Shibata, N. Yoshida, T. Tohjo  
A Novel Method for the Alkoxylation of Azetidin-2-ones at the 4-Position  
*Chem. Pharm. Bull.*, **40**, 1044-1046 (1992).
160. Y. Kita, H. Tohma, M. Inagaki, K. Hatanaka  
A General Formation of Quinone Imines and Quinone Imine Acetals: An Efficient Synthesis of 5-Oxygenated Indoles  
*Heterocycles*, **33**, 503-506 (1992). (Masatomo Hamana's Special Issue)
161. Y. Kita, R. Okunaka, M. Kondo, H. Tohma, M. Inagaki, K. Hatanaka  
Hypervalent Iodine Induced Cyclisation of  $\alpha$ -(Aryl)alkyl  $\beta$ -Dicarbonyl Derivatives  
*J. Chem. Soc., Chem. Commun.*, 429-430 (1992).
162. Y. Kita, N. Shibata, N. Yoshida, T. Tohjo  
An Efficient Synthesis of 4-Heterofunction-Substituted 3-(1-Hydroxy)ethylazetidin-2-ones from 3-(1-Hydroxy)ethyl-4-phenylsulfinylazetidin-2-one by Reaction with Silylated Heteronucleophiles  
*Chem. Pharm. Bull.*, **40**, 1733-1736 (1992).
163. Y. Kita, N. Shibata, T. Tohjo, N. Yoshida  
Chemistry of *O*-Silylated Ketene Acetals: An Efficient Synthesis of Carbapenem and 1 $\beta$ -Methylcarbapenem Intermediates  
*J. Chem. Soc., Perkin Trans. 1*, 1795-1799 (1992).
164. Y. Kita, N. Shibata, T. Tohjo, N. Yoshida  
Synthesis of *cis*- $\beta$ -Lactams Using a Pummerer-type Reaction: Studies on the Biomimetic Synthesis of Penicillin  
*J. Pharmacobio-Dyn.*, **15**, s-37 (1992).
165. H. Fujioka, M. Miyazaki, T. Yamanaka, H. Yamamoto, K. Takuma, H. Kitagawa, Y. Kita  
Organic Synthesis Utilizing the Intermediates in Beckmann Fragmentation of  $\alpha$ -Alkoxyketoximes  
*J. Pharmacobio-Dyn.*, **15**, s-40 (1992).
166. H. Fujioka, H. Kitagawa, T. Yamanaka, Y. Kita  
Organic Synthesis Utilizing Beckmann Fragmentation: Asymmetric Carbon-Carbon Bond Formation *via* Chiral Acetal Intermediates  
*Chem. Pharm. Bull.*, **40**, 3118-3120 (1992).
167. S. Akai, Y. Tsuzuki, S. Matsuda, S. Kitagaki, Y. Kita  
Chemistry of Silylketenes: A Simple Preparation of  $\alpha$ -Silyl- $\alpha$ -stannylacetic Esters and Their Stereoselective Reformatsky-type Reaction with Aldehydes or Aldimines  
*J. Chem. Soc., Perkin Trans. 1*, 2813-2820 (1992).
168. Y. Kita, H. Tohma and T. Yakura  
Hypervalent Iodine Reagents in Organic Synthesis: Development of Novel Reactions and Their Application to Biologically Active Natural Products (Review)  
*Trends in Org. Chem.*, **3**, 113-128 (1992).
169. Y. Kita and H. Tohma  
Hypervalent Iodine Reagents in Organic Synthesis  
*Farumashia (Japanese)*, **28**, 984-989 (1992).
170. Y. Kita, H. Maeda, K. Omori, T. Okuno, Y. Tamura  
A Novel Efficient Synthesis of 1-Ethoxyvinyl Esters and Their Use in Acylation of Amines and Alcohols: Synthesis of Water-Soluble Oxaunomycin Derivatives  
*Synlett*, 273-274 (1993).

171. Y. Kita, H. Maeda, F. Takahashi, S. Fukui  
A Convenient Synthesis of Dicarboxylic Monoesters Using Isopropenyl Esters: Synthesis of Oxaunomycin Derivatives  
*J. Chem. Soc., Chem. Commun.*, 410-412 (1993).
172. T. Ogawa, K. Matsumoto, M. Yoshimura, K. Hatayama, K. Kitamura, Y. Kita  
Stereochemistry of the 2-Hydroxy-1,2,3,4-tetrahydropyridine Intermediate of Hantzsch Cyclization  
*Tetrahedron Lett.*, **34**, 1967-1970 (1993).
173. H. Fujioka, H. Kitagawa, M. Kondo, N. Matsunaga, S. Kitagaki, Y. Kita  
Reaction of Diols and Triols with Trialkyl Orthoesters: Facile One-Pot Formation of Oxacyclic Compounds from Triols  
*Heterocycles*, **35**, 665-669 (1993). (Edward C. Taylor's Special Issue)
174. Y. Kita, N. Shibata and N. Yoshida  
The First Highly Asymmetric Pummerer-type Reaction in Chiral Acyclic Sulfoxides; Chemistry of *O*-Silylated Ketene  
*Tetrahedron Lett.*, **34**, 4063-4066 (1993).
175. H. Fujioka, M. Miyazaki, H. Kitagawa, T. Yamanaka, H. Yamamoto, K. Takuma, Y. Kita  
Organic Synthesis Utilizing Beckmann Fragmentation: Highly Stereoselective C-C Bond Formation in the Reaction of 2,3-Isopropylidenedioxycyclohexanone Oxime Esters with Organoaluminium Reagents  
*J. Chem. Soc., Chem. Commun.*, 1634-1636 (1993).
176. Y. Kita, H. Maeda, F. Takahashi, S. Fukui  
Convenient Synthesis of Alcohol *O*-Hemiester Using Isopropenyl Esters as Acylating Reagents: Synthesis of Hydrophilic Oxaunomycin 10-*O*-Hemiester Derivatives  
*J. Chem. Soc., Perkin Trans. 1*, 2639-2649 (1993).
177. Y. Kita, H. Maeda, K. Omori, T. Okuno, Y. Tamura  
Novel Efficient Synthesis of 1-Ethoxyvinyl Esters Using Ruthenium Catalysts and Their Use in Acylation of Amines and Alcohols: Synthesis of Hydrophilic 3'-*N*-Acylated Oxaunomycin Derivatives  
*J. Chem. Soc., Perkin Trans. 1*, 2999-3005 (1993).
178. T. Ogawa, K. Matsumoto, K. Hatayama, K. Kitamura, Y. Kita  
Chemistry of Hantzsch Cyclization: Stereochemistry of the 2-Hydroxy-1,2,3,4-tetrahydropyridine Intermediate of Hantzsch Cyclization. X-Ray Molecular Structure of Diastereoisomers of 5-(2-Cyanoethyl) 3-Methyl 2-Dimethoxymethyl-2-hydroxy-6-methyl-4-(3-nitrophenyl)-1,2,3,4-tetrahydropyridine-3,5-dicarboxylates  
*J. Chem. Soc., Perkin Trans. 1*, 3033-3039 (1993).
179. Y. Kita, H. Maeda, F. Takahashi, S. Fukui, T. Ogawa, K. Hatayama  
Protecting Group for Carboxyl Function: Mild and Facile Cleavage of 2-Cyanoethyl Ester under Non-hydrolytic Conditions  
*Chem. Pharm. Bull.*, **42**, 147-150 (1994).
180. Y. Kita, Y. Tsuzuki, S. Kitagaki, S. Akai  
Chemistry of Silylketenes: Simple Preparation of Silylallenes by the Reaction of Silylketenes with Phosphorus Ylides  
*Chem. Pharm. Bull.*, **42**, 233-236 (1994).
181. H. Fujioka, H. Kitagawa, M. Kondo, Y. Kita  
Direct Regioselective Formation of Polysubstituted Tetrahydrofurans from Unprotected Polyols  
*Heterocycles*, **37**, 743-746 (1994). (Alan R. Katritzky's Special Issue)

182. Y. Kita, N. Shibata, N. Yoshida, S. Fukui, C. Fujimori  
Mechanistic Studies of Pummerer Reaction in Acyclic Sulfoxides Induced by *O*-Silylated Ketene Acetals  
*Tetrahedron Lett.*, **35**, 2569-2572 (1994).
183. Y. Kita, N. Shibata, N. Yoshida, N. Kawano, K. Matsumoto  
An Unprecedented Cleavage of the  $\beta$ -Lactam Ring: Stereoselective Synthesis of Chiral  $\beta$ -Amido Cyanides  
*J. Org. Chem.*, **59**, 938-939 (1994).
184. Y. Kita, H. Ueno, S. Kitagaki, K. Kobayashi, K. Iio, S. Akai  
Oxidative Intramolecular [4+2] Cycloaddition of Silylene-protected 2-Pyridone Derivatives – A Short and Efficient Synthesis of the *DEF*-Ring of Fredericamycin A  
*J. Chem. Soc., Chem. Commun.*, 701-702 (1994).
185. Y. Kita, T. Okuno, H. Tohma, S. Akai, K. Matsumoto  
Preparation of Bis(arylthio)iodobenzene and Reaction with 1-Alkynes. A Novel Route to 1,2-Bis(arylthio)alkenes  
*Tetrahedron Lett.*, **35**, 2717-2720 (1994).
186. H. Fujioka, S. Kitagaki, N. Ohno, H. Kitagawa, Y. Kita, K. Matsumoto  
Diastereotopic Group Selective Intramolecular Conjugate Addition of 4-(2-Hydroxyethyl)-*p*-Quinol Derivatives: Synthesis of the Optically Pure *cis*-7-Oxabicyclo[4.3.0]non-2-en-4-one Skeleton  
*Tetrahedron Asym.*, **5**, 333-336 (1994).
187. Y. Kita, S. Akai, H. Fujioka, Y. Tamura, H. Tone, Y. Taniguchi  
Synthesis of 2,5-Dioxygenated Pyrazine 4-Oxides: Total Synthesis of a New Inhibitor of Superoxide Anion Generation, OPC-15161  
*J. Chem. Soc., Perkin Trans. 1*, 875-884 (1994).
188. Y. Kita, H. Tohma, K. Hatanaka, T. Takada, S. Fujita, S. Mitoh, H. Sakurai, S. Oka  
Hypervalent Iodine-Induced Nucleophilic Substitution of *para*-Substituted Phenol Ethers. Generation of Cation Radicals as Reactive Intermediates  
*J. Am. Chem. Soc.*, **116**, 3684-3691 (1994).
189. T. Ogawa, K. Hatayama, H. Maeda, Y. Kita  
Mild and Facile Cleavage of 2-Cyanoethyl Ester Using Sodium Sulfide or Tetrabutylammonium Fluoride. Synthesis of 1,4-Dihydropyridine Monocarboxylic Acids and Unsymmetrical 1,4-Dihydropyridine Dicarboxylates  
*Chem. Pharm. Bull.*, **42**, 1579-1589 (1994).
190. Y. Kita, N. Shibata, N. Kawano, T. Tohjo, C. Fujimori, H. Ohishi  
Pummerer-type Cyclization of Arnstein Tripeptide Analogues Induced by *O*-Silylated Ketene Acetals: Studies of Penicillin Biosynthesis  
*J. Am. Chem. Soc.*, **116**, 5116-5121 (1994).
191. Y. Kita, N. Shibata, N. Kawano, S. Fukui, C. Fujimori  
A Novel Asymmetric Pummerer Reaction Induced by Ethoxy Vinyl Ester  
*Tetrahedron Lett.*, **35**, 3575-3576 (1994).
192. Y. Kita, H. Tohma, T. Takada, S. Mitoh, S. Fujita, M. Gyoten  
A Novel and Direct Alkyl Azidation of *p*-Alkylanisoles Using Phenyl Iodine(III) Bis(trifluoroacetate) (PIFA) and Trimethylsilyl Azide  
*Synlett*, 427-428 (1994).
193. Y. Kita, N. Shibata, S. Fukui, S. Fujita  
Enantioselective Pummerer-type Rearrangement by Reaction of *O*-Silylated Ketene Acetal with Enantiopure  $\alpha$ -Substituted Sulfoxides

- Tetrahedron Lett.*, **35**, 9733-9736 (1994).
194. Y. Kita, N. Shibata, N. Yoshida, S. Fujita  
First Highly Asymmetric Pummerer-type Reaction in Chiral, Non-racemic Acyclic Sulfoxides Induced by *O*-Silylated Ketene Acetal  
*J. Chem. Soc., Perkin Trans. 1*, 3335-3341 (1994).
195. Y. Kita, T. Okuno, M. Egi, K. Iio, Y. Takeda, S. Akai  
An Effective *p*-Thiocyanation of Phenols Using Phenyliodine Dichloride-Lead(II) Thiocyanate  
*Synlett*, 1039-1040 (1994).
196. Y. Kita and N. Shibata  
Asymmetric Pummerer-type Reaction Induced by *O*-Silylated Ketene Acetals  
*Yuki Gosei Kagaku Kyokaiishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **52**, 746-753 (1994).
197. H. Fujioka and Y. Kita  
Asymmetric Synthesis Using Chiral Acetals from C<sub>2</sub>-Symmetric Diols and Its Application to Natural Product Synthesis  
*Studies in Natural Products Chemistry*, **14** (*Stereoselective Synthesis Part I*), 469-516, Ed. by Atta-ur-Rahman, Elsevier B. V., ISBN: 978-0-444-81780-8 (1994).
198. Y. Kita, T. Takada, S. Mihara, H. Tohma  
A Novel and Direct Sulfenylation of Phenol Ethers Using Phenyl Iodine(III) Bis(trifluoroacetate) (PIFA) and Various Thiophenols  
*Synlett*, 211-212 (1995).
199. S. Akai, Y. Takeda, K. Iio, Y. Yoshida, Y. Kita  
An Efficient Synthesis of *p*-Quinones Utilizing a Novel Pummerer-type Rearrangement of *p*-Sulfinylphenols  
*J. Chem. Soc., Chem. Commun.*, 1013-1014 (1995).
200. N. Shibata, S. Fujita, M. Gyoten, K. Matsumoto, Y. Kita  
A Novel Diastereoselective Synthesis of Chiral, Non-Racemic Unsymmetrical Thioacetals Using Silicon-induced Pummerer-type Reaction  
*Tetrahedron Lett.*, **36**, 109-112 (1995).
201. Y. Kita, N. Shibata, N. Kawano, T. Tohjo, C. Fujimori, K. Matsumoto  
A Highly Asymmetric Pummerer-type Cyclization of Chiral, Non-Racemic  $\beta$ -Amidosulfoxides Induced by *O*-Silylated Ketene Acetals  
*Tetrahedron Lett.*, **36**, 115-118 (1995).
202. H. Fujioka, S. Kitagaki, R. Imai, M. Kondo, S. Okamoto, Y. Yoshida, S. Akai, Y. Kita  
Asymmetric Synthesis of Chiral Spirocyclanes: Selective Formation of 2-Acyloxy-1-oxospiro[4.*n*]alkanes by Regio- and Stereoselective Rearrangement of  $\alpha,\beta$ -Epoxy Acylates in Bicyclo[*n*.3.0]alkane Systems  
*Tetrahedron Lett.*, **36**, 3219-3222 (1995).
203. Y. Kita, N. Shibata, N. Kawano, T. Tohjo, C. Fujimori, K. Matsumoto, S. Fujita  
Highly Asymmetric Pummerer-type Cyclization of Chiral, Non-racemic  $\beta$ -Amido Sulfoxides  
*J. Chem. Soc., Perkin Trans. 1*, 2405-2410 (1995).
204. Y. Kita, N. Shibata, N. Yoshida, N. Kawano, C. Fujimori, N. Yoshikawa, S. Fujita  
Mechanistic Studies of a Pummerer-type Reaction in Acyclic and Rigid Cyclic Sulfoxides Induced by Ketene *tert*-Butyldimethylsilyl Methyl Acetal  
*J. Chem. Soc., Perkin Trans. 1*, 2829-2834 (1995).
205. H. Fujioka, H. Kitagawa, Y. Nagatomi, Y. Kita  
Asymmetric Synthesis Using C<sub>2</sub>-Symmetric Diols: Use of (5*R*,6*R*)-2,3-Diacetoxy-5,6-diphenyl-1,4-dioxane as a Chiral Synthetic Equivalent of 1,2-Ethanediol 1,2-Dicarbocation

- Tetrahedron Asym.*, **6**, 2113-2116 (1995).
206. H. Fujioka, N. Matsunaga, H. Kitagawa, Y. Nagatomi, M. Kondo, Y. Kita  
Asymmetric Synthesis Using C<sub>2</sub>-Symmetric Diols: Use of (5*R*,6*R*)-3-Acetoxy-5,6-diphenyl-1,4-dioxan-2-one as a Chiral Synthetic Equivalent of 1,2-Ethanediol 1,2-Dicarbocation  
*Tetrahedron Asym.*, **6**, 2117-2120 (1995).
207. Y. Kita, T. Takada, S. Mihara, B. A. Whelan, H. Tohma  
Novel and Direct Nucleophilic Sulfenylation and Thiocyanation of Phenol Ethers Using a Hypervalent Iodine(III) Reagent  
*J. Org. Chem.*, **60**, 7144-7148 (1995).
208. S. Akai, K. Iio, Y. Takeda, H. Ueno, K. Yokogawa, Y. Kita  
Pummerer-type Rearrangement on Aromatic Rings: an Unprecedented *ipso*-Substitution of the Sulfinyl Group of *p*-Sulfinylphenyl Ethers into Oxygen Functional Groups leading to Protected Dihydroquinone Derivatives  
*J. Chem. Soc., Chem. Commun.*, 2319-2320 (1995).
209. Y. Kita and H. Tohma  
Hypervalent Iodine Reagents in Organic Synthesis  
*Seisan to Gijutsu (Manufacturing & Technology) (Japanese)*, **47**, 40-42 (1995).
210. Y. Kita and H. Fujioka  
Asymmetric Synthesis Using Organometallic Reagents. Chiral Protective Groups—Chiral Acetal and Chiral Acetal-type Protective Groups  
*Kikan Kagaku Sosetsu (Japanese)* **19**. *Asymmetric Chemical Synthesis Using Metal Reagents*, Chap. 13, 157-168, Ed. by Chemical Society of Japan, Conference Publishing Center, ISBN: 978-4-7622-6735-2 (4-7622-6735-X) (1995).
211. S. Akai, T. Okuno, M. Egi, T. Takada, H. Tohma, Y. Kita  
Preparation of Novel Cyclic Hypervalent Iodine(III) Compounds Having Azido, Cyano, and Nitrate Ligands  
*Heterocycles*, **42**, 47-51 (1996). (Yoshio Ban's Memorial Issue)
212. Y. Kita, T. Takada, M. Ibaraki, M. Gyoten, S. Mihara, S. Fujita, H. Tohma  
An Intramolecular Cyclization of Phenol Derivatives Bearing Aminoquinones Using a Hypervalent Iodine Reagent  
*J. Org. Chem.*, **61**, 223-227 (1996).
213. Y. Kita, S. Kitagaki, R. Imai, S. Okamoto, S. Mihara, Y. Yoshida, S. Akai, H. Fujioka  
Asymmetric Synthesis of Chiral Spirocyclanes: A New Route to the Optically Active Spiro[cyclopentane-1,1'-indan]-2,5-dione System  
*Tetrahedron Lett.*, **37**, 1817-1820 (1996).
214. H. Fujioka, H. Kitagawa, N. Matsunaga, Y. Nagatomi, Y. Kita  
Remote Asymmetric Induction for Chiral 1,4-Diols Using a Chiral Acetal Derived from Chiral Hydrobenzoin  
*Tetrahedron Lett.*, **37**, 2245-2248 (1996).
215. Y. Kita, N. Shibata, N. Kawano, N. Yoshida, K. Matsumoto, Y. Takebe  
An Unprecedented Cleavage of the  $\beta$ -Lactam Ring: A Novel Synthesis of Acyclic *N,O*- and *N,S*-Acetals  
*J. Chem. Soc., Perkin Trans. 1*, 2321-2329 (1996).
216. N. Shibata, C. Fujimori, S. Fujita, Y. Kita  
Enantioselective Additive Pummerer-type Reaction in Chiral, Non-racemic Vinyl Sulfoxides Induced by *O*-Silylated Ketene Acetal  
*Chem. Pharm. Bull.*, **44**, 892-894 (1996).

217. S. Akai, S. Kitagaki, T. Naka, K. Yamamoto, Y. Tsuzuki, K. Matsumoto, Y. Kita  
Reaction of Ynolate Anions Derived from Silylketenes with Electrophiles: A Facile  
Preparation of Silyl Ynol Ethers and Functionalized Silylketenes  
*J. Chem. Soc., Perkin Trans. 1*, 1705-1709 (1996).
218. Y. Kita, M. Gyoten, M. Ohtsubo, H. Tohma, T. Takada  
Non-Phenolic Oxidative Coupling of Phenol Ether Derivatives Using Phenyliodine(III)  
Bis(trifluoroacetate)  
*Chem. Commun.*, 1481-1482 (1996).
219. Y. Kita, M. Egi, A. Okajima, M. Ohtsubo, T. Takada, H. Tohma  
Hypervalent Iodine(III) Induced Intramolecular Cyclization of Substituted Phenol Ethers  
Bearing an Alkyl Azido Sidechain: A Novel Synthesis of Quinone Imine Ketals  
*Chem. Commun.*, 1491-1492 (1996).
220. Y. Kita, T. Takada, M. Gyoten, H. Tohma, M. H. Zenk, J. Eichhorn  
An Oxidative Intramolecular Phenolic Coupling Reaction for the Synthesis of Amaryllidaceae  
Alkaloids Using a Hypervalent Iodine(III) Reagent  
*J. Org. Chem.*, **61**, 5857-5864 (1996).
221. H. Fujioka, H. Kitagawa, Y. Nagatomi, Y. Kita  
Asymmetric Induction via an Intramolecular Haloetherification Reaction of Chiral Ene Acetals:  
A Novel Approach to Optically Active 1,4- and 1,5-Diols  
*J. Org. Chem.*, **61**, 7309-7315 (1996).
222. Y. Kita, M. Egi, M. Ohtsubo, T. Saiki, T. Takada, H. Tohma  
Novel and Efficient Synthesis of Sulfur-containing Heterocycles Using a Hypervalent  
Iodine(III) Reagent  
*Chem. Commun.*, 2225-2226 (1996).
223. Y. Kita, Y. Takebe, K. Murata, T. Naka, S. Akai  
1-Ethoxyvinyl Acetate as a Novel, Highly Reactive, and Reliable Acyl Donor for Enzymatic  
Resolution of Alcohols  
*Tetrahedron Lett.*, **37**, 7369-7372 (1996).
224. Y. Kita, Y. Takeda, K. Iio, K. Yokogawa, K. Takahashi, S. Akai  
An Efficient Preparation of *peri*-Hydroxy Dihydroquinone Derivatives through a Pummerer-  
type Rearrangement of Silylene-protected *peri*-Hydroxy Aromatic Sulfoxides  
*Tetrahedron Lett.*, **37**, 7545-7548 (1996).
225. Y. Kita and N. Shibata  
Asymmetric Pummerer-type Reactions Induced by *O*-Silylated Ketene Acetals (Account)  
*Synlett*, 289-296 (1996).
226. Y. Kita, T. Takada and H. Tohma  
Hypervalent Iodine Reagents in Organic Synthesis: Nucleophilic Substitution of *p*-Substituted  
Phenol Ethers  
*Pure & Appl. Chem.*, **68**, 627-630 (1996) (Printed in Great Britain).
227. Y. Kita, Y. Takeda, M. Matsugi, K. Iio, K. Gotanda, K. Murata, S. Akai  
Isolierung der Chinonmono-*O,S*-acetal-Intermediate der Pummerer-artigen Umlagerung von  
*p*-Sulfinylphenolen mit 1-Ethoxyvinylestern  
*Angew. Chem.*, **109**, 1525-1527 (1997).
228. N. Shibata, M. Matsugi, N. Kawano, S. Fukui, C. Fujimori, K. Gotanda, K. Murata, Y. Kita  
Highly Asymmetric Pummerer-type Reaction Induced by Ethoxy Vinyl Esters  
*Tetrahedron Asym.*, **8**, 303-310 (1997).
229. Y. Kita, S. Kitagaki, Y. Yoshida, S. Mihara, D. F. Fang, H. Fujioka

- Acid-promoted Rearrangement of  $\alpha,\beta$ -Epoxy Acylates: Remarkable Effects of an Acyl Group and a Lewis Acid  
*Tetrahedron Lett.*, **38**, 1061-1064 (1997).
230. S. Akai, K. Iio, Y. Takeda, H. Ueno, Y. Kita  
Oxidative Intramolecular [4+2]Cycloaddition of *o*-[( $\omega$ -Phenylthioethynyl)acyl]phenols Followed by the Aromatic Pummerer-type Reaction: A Novel Preparation of the *peri*- Hydroxy Dihydroquinone Structure  
*Synlett*, 310-312 (1997).
231. Y. Kita, N. Shibata, S. Fukui, M. Bando, S. Fujita  
Enantioselective Pummerer-type Rearrangement by Reaction of *O*-Silylated Ketene Acetal with Enantiopure  $\alpha$ -Substituted Sulfoxides  
*J. Chem. Soc., Perkin Trans. 1*, 1763-1767 (1997).
232. Y. Kita, S. Kitagaki, Y. Yoshida, S. Mihara, D. F. Fang, M. Kondo, S. Okamoto, R. Imai, S. Akai, H. Fujioka  
Acid-Promoted Rearrangement of Cyclic  $\alpha,\beta$ -Epoxy Acylates: Stereoselective Synthesis of Spirocyclanes and Quaternary Carbon Centers  
*J. Org. Chem.*, **62**, 4991-4997 (1997).
233. Y. Kita, Y. Takeda, M. Matsugi, K. Iio, K. Gotanda, K. Murata, S. Akai  
Isolation of the Quinone Mono *O,S*-Acetal Intermediates of the Aromatic Pummerer-type Rearrangement of *p*-Sulfinylphenols with 1-Ethoxyvinyl Esters  
*Angew. Chem. Int. Ed.*, **36**, 1529-1531 (1997).
234. S. Akai, S. Kitagaki, S. Matsuda, Y. Tsuzuki, T. Naka, Y. Kita  
Reaction of Silylketenes with Carbanions: Simple Preparation of  $\alpha$ -Silylketones Using Organocerium Reagents  
*Chem. Pharm. Bull.*, **45**, 1135-1139 (1997).
235. Y. Kita, A. Sano, T. Yamaguchi, M. Oka, K. Gotanda, M. Matsugi  
Additions of Malononitrile Radicals to Alkenes under Mild Conditions using 2,2'-Azobis-(2,4-dimethyl-4-methoxyvaleronitrile) (V-70) as an Initiator  
*Tetrahedron Lett.*, **38**, 3549-3552 (1997).
236. S. Akai, T. Naka, Y. Takebe, Y. Kita  
Enzyme-catalyzed Asymmetrization of 2,2-Disubstituted 1,3-Propanediols Using 1-Ethoxyvinyl Esters  
*Tetrahedron Lett.*, **38**, 4243-4246 (1997).
237. S. Akai, Y. Takeda, K. Iio, K. Takahashi, N. Fukuda, Y. Kita  
Novel *ipso*-Substitution of *p*-Sulfinylphenols through the Pummerer-Type Reaction: A Selective and Efficient Synthesis of *p*-Quinones and Protected *p*-Dihydroquinones  
*J. Org. Chem.*, **62**, 5526-5536 (1997).
238. M. Matsugi, K. Gotanda, K. Murata, Y. Kita  
A Novel Efficient Sulfenylation Method Using Quinone Mono-*O,S*-acetals under Mild Conditions  
*Chem. Commun.*, 1387-1388 (1997).
239. Y. Kita, Y. Takeda, T. Okuno, M. Egi, K. Iio, K. Kawaguchi, S. Akai  
An Efficient *p*-Thiocyanation of Phenols and Naphthols Using a Reagent Combination of Phenyliodine Dichloride and Lead(II) Thiocyanate  
*Chem. Pharm. Bull.*, **45**, 1887-1890 (1997).
240. Y. Kita, K. Gotanda, C. Fujimori, K. Murata, R. Wakayama, M. Matsugi  
Polonovski-type Reaction Induced by *O*-Silylated Ketene Acetals  
*J. Org. Chem.*, **62**, 8268-8270 (1997).

241. H. Fujioka, Y. Nagatomi, H. Kitagawa, Y. Kita  
Highly Enantioselective Asymmetrization of *meso*-1,2-Diols through a Novel and Efficient Reaction Cycle  
*J. Am. Chem. Soc.*, **119**, 12016-12017 (1997).
242. Y. Kita, Y. Yoshida, S. Mihara, D. F. Fang, K. Higuchi, A. Furukawa, H. Fujioka  
Efficient Pinacol Rearrangement Mediated by Trimethyl Orthoformate  
*Tetrahedron Lett.*, **38**, 8315-8318 (1997).
243. Y. Kita, K. Gotanda, A. Sano, M. Oka, K. Murata, M. Suemura, M. Matsugi  
A Highly Stereoselective Synthesis of  $\alpha$ -Linked C-Glycopyranosides Using 2,2'-Azobis-(2,4-dimethyl-4-methoxyvaleronitrile)(V-70)  
*Tetrahedron Lett.*, **38**, 8345-8348 (1997).
244. Y. Kita  
Some Recent Advances in Pummerer-type Reactions (Review)  
*Phosphorus, Sulfur & Silicon*, 120 & 121, 145-164 (1997).
245. Y. Kita  
Some Recent Advances in Pummerer-type Reactions (Review)  
*YAKUGAKU ZASSHI*, **117**, 282-297 (1997).
246. Y. Kita and Y. Takeda  
Development of Synthetic Methods of Antitumor *peri*-Hydroxy Aromatic Compounds  
*Kagaku to Kogyo -Chemistry & Chemical Industry- (Japanese)*, **71**, 298-309 (1997).
247. M. Kirihara and Y. Kita  
Synthetic Studies on Heteroanthracyclines (Review)  
*Heterocycles*, **46**, 705-726 (1997). (Shun-ichi Yamada's Memorial Issue)
248. H. Tohma, M. Egi, M. Ohtsubo, H. Watanabe, S. Takizawa, Y. Kita  
A Novel and Direct  $\alpha$ -Azidation of Cyclic Sulfides Using a Hypervalent Iodine(III) Reagent  
*Chem. Commun.*, 173-174 (1998).
249. Y. Kita, H. Watanabe, M. Egi, T. Saiki, Y. Fukuoka, H. Tohma  
Novel and Efficient Synthesis of Pyrroloiminoquinones Using a Hypervalent Iodine(III) Reagent  
*J. Chem. Soc., Perkin Trans. 1*, 635-636 (1998).
250. Y. Kita, K. Iio, A. Okajima, Y. Takeda, K. Kawaguchi, B. A. Whelan, S. Akai  
An Efficient Synthesis of *peri*-Hydroxy Aromatic Compounds: A Strong Base-Induced [4+2]Cycloaddition of 4-Phenylthio-Substituted Homophthalic Anhydrides with Various Sulfinyl-Substituted Dienophiles  
*Synlett*, 292-294 (1998).
251. J. Eichhorn, T. Takada, Y. Kita, M. H. Zenk  
Biosynthesis of the Amaryllidaceae Alkaloid Galanthamine  
*Phytochemistry*, **49**, 1037-1047 (1998).
252. Y. Kita, K. Gotanda, K. Murata, M. Suemura, A. Sano, T. Yamaguchi, M. Oka, M. Matsugi  
Practical Radical Additions under Mild Conditions Using 2,2'-Azobis(2,4-dimethyl-4-methoxyvaleronitrile) [V-70] as an Initiator  
*Org. Proc. Res. Dev.*, **2**, 250-254 (1998).
253. Y. Kita, T. Naka, M. Imanishi, S. Akai, Y. Takebe, M. Matsugi  
Asymmetric Diels-Alder Reaction *via* Enzymatic Kinetic Resolution Using Ethoxyvinyl Methyl Fumarate  
*Chem. Commun.*, 1183-1184 (1998).

254. H. Tohma, S. Takizawa, H. Watanabe, Y. Kita  
Hypervalent Iodine(III) Oxidation Catalyzed by Quaternary Ammonium Salt in Micellar Systems  
*Tetrahedron Lett.*, **39**, 4547-4550 (1998).
255. Y. Kita, M. Arisawa, M. Gyoten, M. Nakajima, R. Hamada, H. Tohma, T. Takada  
Oxidative Intramolecular Phenolic Coupling Reaction Induced by a Hypervalent Iodine(III) Reagent: Leading to Galanthamine-Type Amaryllidaceae Alkaloids  
*J. Org. Chem.*, **63**, 6625-6633 (1998).
256. T. Takada, M. Arisawa, M. Gyoten, R. Hamada, H. Tohma, Y. Kita  
Oxidative Biaryl Coupling Reaction of Phenol Ether Derivatives Using a Hypervalent Iodine(III) Reagent  
*J. Org. Chem.*, **63**, 7698-7706 (1998).
257. H. Fujioka, Y. Nagatomi, N. Kotoku, H. Kitagawa, Y. Kita  
Desymmetrization of Unsaturated *meso*-1,2-Diols *via* an Intramolecular Haloetherification of Ene Acetals: A Remarkable Kinetic Control  
*Tetrahedron Lett.*, **39**, 7309-7312 (1998).
258. N. G. Ramesh, K. Iio, A. Okajima, S. Akai, Y. Kita  
A Strong-base Induced [4+2] Cycloaddition of Homophthalic Anhydrides with Enolizable Enones: A Direct and Efficient Synthesis of *peri*-Hydroxy Aromatic Compounds  
*Chem. Commun.*, 2741-2742 (1998).
259. Y. Kita, Y. Yoshida, S. Mihara, A. Furukawa, K. Higuchi, D. F. Fang, H. Fujioka  
Non-Dehydrative Pinacol Rearrangement Using a Lewis Acid-Trialkyl Orthoester Combined System  
*Tetrahedron*, **54**, 14689-14704 (1998).
260. Y. Kita, Y. Nagatomi, H. Kitagawa, H. Fujioka  
Asymmetric Induction *via* an Intramolecular Haloetherification Reaction of Chiral Ene Acetals  
*ECHET98: Electronic Conference on Heterocyclic Chemistry*,  
*Ed. by Henry S. Rzepa, C. Oliver Kappe, Christopher Leach, Article No. 11* (1998).
261. S. Akai and Y. Kita  
Recent Progress in the Synthesis of *p*-Quinones and *p*-Dihydroquinones through Oxidation of Phenol Derivatives. A Review  
*Organic Preparations and Procedures Int.*, **30**, 603-629 (1998).
262. N. Shibata and Y. Kita  
Research on the Correlation between the Pummerer Reaction and Penicillin Biosynthesis (Review)  
*Chem. Heterocycl. Compd.*, **34**, 1237-1248 (1998).
263. Y. Kita, S. Akai and H. Fujioka  
Studies on Asymmetric Total Synthesis of Antitumor Antibiotic, Fredericamycin A  
*Yuki Gosei Kagaku Kyokaiishi (J. Synth. Org. Chem. Jpn.) (English)*, **56**, 963-974 (1998).
264. Y. Kita  
New Construction of Optically Active Spiro Compounds  
*Farumashia (Japanese)*, **34**, 969-971 (1998).
265. Y. Kita *et al.*  
*Asymmetric Synthesis-Graphical Abstracts and Experimental Methods (Japanese)*,  
*Kodansha Ltd.*, ISBN: 4-06-208950-5 (1998).
266. N. Shibata and Y. Kita  
Research on the Correlation between the Pummerer Reaction and Penicillin Biosynthesis

*Khimiya Geterotsiklicheskikh Soedinenlii, Latvian Inst. Org. Synth. (English)*, **34**, 1463-1474 (1998).

267. Y. Kita, M. Egi, M. Ohtsubo, T. Saiki, A. Okajima, T. Takada, H. Tohma  
Hypervalent Iodine(III)-induced Intramolecular Cyclization Reaction of Substituted Phenol Ethers with an Alkyl Azido Side-chain: A Novel and Efficient Synthesis of Quinone Imine Derivatives  
*Chem. Pharm. Bull.*, **47**, 241-245 (1999).
268. Y. Kita, A. Sano, T. Yamaguchi, M. Oka, K. Gotanda, M. Matsugi  
Radical Addition Reaction of Brominated Active Methylene Compounds to Enol Ethers Using 2,2'-Azobis(2,4-dimethyl-4-methoxyvaleronitrile) (V-70) as an Initiator  
*J. Org. Chem.*, **64**, 675-678 (1999).
269. Y. Kita, K. Higuchi, Y. Yoshida, K. Iio, S. Kitagaki, S. Akai, H. Fujioka  
Asymmetric Total Synthesis of Fredericamycin A  
*Angew. Chem. Int. Ed.*, **38**, 683-686 (1999).
270. Y. Kita, M. Egi and H. Tohma  
Total Synthesis of Sulfur-Containing Pyrroloiminoquinone Marine Product, ( $\pm$ )-Makaluvamine F Using Hypervalent Iodine(III)-Induced Reactions  
*Chem. Commun.*, 143-144 (1999).
271. M. Arisawa, S. Utsumi, M. Nakajima, N. G. Ramesh, H. Tohma, Y. Kita  
An Unexpected Intermolecular Chiral Biaryl Coupling Reaction Induced by a Hypervalent Iodine(III) Reagent: Synthesis of Potential Precursor for Ellagitannin  
*Chem. Commun.*, 469-470 (1999).
272. Y. Kita, K. Higuchi, Y. Yoshida, K. Iio, S. Kitagaki, S. Akai, H. Fujioka  
Asymmetrische Totalsynthese von Fredericamycin A  
*Angew. Chem.*, **111**, 731-734 (1999).
273. Y. Kita, M. Egi, T. Takada, H. Tohma  
Development of Novel Reactions Using Hypervalent Iodine(III) Reagents: Total Synthesis of Sulfur-Containing Pyrroloiminoquinone Marine Product, ( $\pm$ )-Makaluvamine F  
*Synthesis*, 885-897 (1999).
274. H. Tohma, S. Takizawa, H. Watanabe, Y. Fukuoka, T. Maegawa, Y. Kita  
Hypervalent Iodine(V)-Induced Asymmetric Oxidation of Sulfides to Sulfoxides Mediated by Reversed Micelles: Novel Nonmetallic Catalytic System  
*J. Org. Chem.*, **64**, 3519-3523 (1999).
275. Y. Kita, Y. Yoshida, S. Kitagaki, S. Mihara, D. F. Fang, A. Furukawa, K. Higuchi, H. Fujioka  
Regio- and Stereoselective Rearrangement Reactions of Various  $\alpha,\beta$ -Epoxy Acylates: Suitable Combination of Acyl Groups and Lewis Acids  
*Tetrahedron*, **55**, 4979-4998 (1999).
276. H. Tohma, H. Watanabe, S. Takizawa, T. Maegawa, Y. Kita  
Novel One-Pot Preparation of 5-Methoxylated Indoline and Indole Derivatives Using a Hypervalent Iodine(III) Reagent  
*Heterocycles*, **51**, 1785-1788 (1999).
277. M. Matsugi, K. Gotanda, C. Ohira, M. Suemura, A. Sano, Y. Kita  
Highly Stereoselective Synthesis of Carbocycles *via* a Radical Addition Reaction Using 2,2'-Azobis(2,4-dimethyl-4-methoxyvaleronitrile) [V-70L]  
*J. Org. Chem.*, **64**, 6928-6930 (1999).
278. K. Gotanda, M. Matsugi, M. Suemura, C. Ohira, A. Sano, M. Oka, Y. Kita  
Efficient Stereoselective Synthesis of  $\alpha$ -C-Glycopyranosides Using

- 2,2'-Azobis(2,4-dimethyl-4-methoxyvaleronitrile) [V-70]  
*Tetrahedron*, **55**, 10315-10324 (1999).
279. Y. Nagatomi, H. Fujioka and Y. Kita  
Has Chemical Asymmetric Method Already Exceeded Enzymatic Methods? —Highly Stereoselective Asymmetric Desymmetrization of  $\sigma$ -Symmetric Diols  
*Kagaku (Japanese)*, **54**, No.4, 72-73 (1999).
280. Y. Kita, Y. Takebe, K. Murata, T. Naka, S. Akai  
Convenient Enzymatic Resolution of Alcohols Using Highly Reactive, Nonharmful Acyl Donors, 1-Ethoxyvinyl Esters  
*J. Org. Chem.*, **65**, 83-88 (2000).
281. K. Iio, N. G. Ramesh, A. Okajima, K. Higuchi, H. Fujioka, S. Akai, Y. Kita  
An Efficient Synthesis of *peri*-Hydroxy Aromatic Compounds via a Strong-Base-Induced [4+2] Cycloaddition of Homophthalic Anhydrides with Enolizable Enones  
*J. Org. Chem.*, **65**, 89-95 (2000).
282. H. Tohma, S. Takizawa, H. Morioka, T. Maegawa, Y. Kita  
Novel Catalytic Asymmetric Sulfoxidation in Water Using the Hypervalent Iodine Reagent Iodoxybenzene  
*Chem. Pharm. Bull.*, **48**, 445-446 (2000).
283. H. Fujioka, N. Kotoku, Y. Nagatomi, Y. Kita  
Optical Resolution of Racemic Norbornene Aldehydes: Kinetically Controlled Intramolecular Haloetherification of Ene Acetals  
*Tetrahedron Lett.*, **41**, 1829-1832 (2000).
284. Y. Kita, A. Furukawa, J. Futamura, K. Higuchi, K. Ueda, H. Fujioka  
Acid-promoted Rearrangement of 2-Aryl-2,3-epoxy Acylates: Construction of Chiral Benzylic Quaternary Carbon Centers  
*Tetrahedron Lett.*, **41**, 2133-2136 (2000).
285. H. Tohma, S. Takizawa, T. Maegawa, Y. Kita  
Facile and Clean Oxidation of Alcohols in Water Using Hypervalent Iodine(III) Reagents  
*Angew. Chem. Int. Ed.*, **39**, 1306-1308 (2000).
286. S. Akai, N. Morita, K. Iio, Y. Nakamura, Y. Kita  
Ambident Effect of a *p*-Sulfinyl Group for the Introduction of Two Carbon Substituents to Phenol Rings: A Convergent Synthesis of Diverse Benzofuran Neolignans  
*Org. Lett.*, **2**, 2279-2282 (2000).
287. H. Fujioka, Y. Nagatomi, N. Kotoku, H. Kitagawa, Y. Kita  
Asymmetric Desymmetrization of Saturated and Unsaturated *meso*-1,2-Diols  
*Tetrahedron*, **56**, 10141-10151 (2000).
288. H. Tohma, S. Takizawa, T. Maegawa, Y. Kita  
Facile and Clean Oxidation of Alcohols in Water Using Hypervalent Iodine(III) Reagents  
*Angew. Chem.*, **112**, 1362-1364 (2000).
289. S. Akai, T. Naka, Y. Takebe, Y. Kita  
Lipase-Catalyzed Asymmetric Desymmetrization of Prochiral 2,2-Disubstituted 1,3-Propanediols Using 1-Ethoxyvinyl Benzoate  
*Chem. Pharm. Bull.*, **48**, 1519-1523 (2000).
290. Y. Kita, K. Iio, K. Kawaguchi, N. Fukuda, Y. Takeda, H. Ueno, R. Okunaka, K. Higuchi, T. Tsujino, H. Fujioka, S. Akai  
Total Synthesis of the Antitumor Antibiotic ( $\pm$ )-Fredericamycin A by a Linear Approach

- Chem. Eur. J.*, **6**, 3897-3905 (2000).
291. S. Akai, T. Naka, T. Fujita, Y. Takebe, Y. Kita  
1-Ethoxyvinyl 2-Furoate, An Efficient Acyl Donor for the Lipase-catalyzed Enantioselective Desymmetrization of Prochiral 2,2-Disubstituted Propane-1,3-diols and meso-1,2-diols  
*Chem. Commun.*, 1461-1462 (2000).
292. M. Matsugi, N. Shibata and Y. Kita  
Assymmetric Pummerer Rearrangement and Related Reactions  
*Advances in Sulfur Chemistry*, **2**, 215-248 (2000).
293. Y. Kita, S. Akai and H. Fujioka  
Total Synthesis of Fredericamycin A  
*Gendai Kagaku Zokan (Japanese)*, **36**, 102-116, *Tokyo Kagaku Dojin* (2000).
294. M. Arisawa, H. Tohma and Y. Kita  
Development of Intramolecular Oxidative Phenolic Coupling Reactions Using Hypervalent Iodine(III) Reagents and Their Application to the Synthesis of *Amaryllidaceae* Alkaloids  
*YAKUGAKU ZASSHI*, **120**, 1061-1073 (2000).
295. Y. Kita *et al.*  
*Total Synthesis of Natural Products— Today, Tomorrow and Beyond*,  
*Kikan Kagaku Sosetsu (Japanese)*, **45**, Ed. by The Chemical Society of Japan,  
Conference Publishing Center, ISBN-10: 4762229482/ISBN-13: 978-4762229480 (2000).
296. Y. Kita, K. Gotanda, M. Oka, A. Sano  
Low Temperature Radical Initiator: Stereoselective Radical Reactions Using Low Temperature Radical Initiators V-70 and V-70L  
*Wako Pure Chemical Daily (Japanese)*, **68**, 6-8 (2000).
297. H. Tohma, H. Morioka, S. Takizawa, M. Arisawa, Y. Kita  
Efficient Oxidative Biaryl Coupling Reaction of Phenol Ether Derivatives Using Hypervalent Iodine(III) Reagents  
*Tetrahedron*, **57**, 345-352 (2001).
298. Y. Kita, A. Furukawa, J. Futamura, K. Higuchi, K. Ueda, H. Fujioka  
Study of the Lewis Acid-promoted Rearrangement of 2-Aryl-2,3-epoxy Acylates  
*Tetrahedron*, **57**, 815-825 (2001).
299. M. Arisawa, N. G. Ramesh, M. Nakajima, H. Tohma, Y. Kita  
Hypervalent Iodine(III)-Induced Intramolecular Cyclization of  $\alpha$ -(Aryl)alkyl- $\beta$ -dicarbonyl Compounds: A Convenient Synthesis of Benzannulated and Spirobenzannulated Compounds  
*J. Org. Chem.*, **66**, 59-65 (2001).
300. Y. Kita, K. Higuchi, Y. Yoshida, K. Iio, S. Kitagaki, K. Ueda, S. Akai, H. Fujioka  
Enantioselective Total Synthesis of a Potent Antitumor Antibiotic, Fredericamycin A  
*J. Am. Chem. Soc.*, **123**, 3214-3222 (2001).
301. M. Matsugi, K. Murata, H. Nambu, Y. Kita  
An Efficient Sulfenylation of Aromatics Using Highly Active Quinone Mono *O,S*-Acetal Bearing a Pentafluorophenylthio Group  
*Tetrahedron Lett.*, **42**, 1077-1080 (2001).
302. M. Matsugi, K. Murata, K. Gotanda, H. Nambu, G. Anilkumar, K. Matsumoto, Y. Kita  
Facile and Efficient Sulfenylation Method Using Quinone Mono-*O,S*-Acetals under Mild Conditions  
*J. Org. Chem.*, **66**, 2434-2441 (2001).
303. Y. Kita, H. Nambu, N. G. Ramesh, G. Anilkumar, M. Matsugi

- A Novel and Efficient Methodology for the C-C Bond Forming Radical Cyclization of Hydrophobic Substrates in Water  
*Org. Lett.*, **3**, 1157-1160 (2001).
304. Y. Iwata, M. Arisawa, R. Hamada, Y. Kita, M. Y. Mizutani, N. Tomioka, A. Itai, S. Miyamoto  
Discovery of Novel Aldose Reductase Inhibitors Using a Protein Structure-Based Approach:  
3D-Database Search Followed by Design and Synthesis  
*J. Med. Chem.*, **44**, 1718-1728 (2001).
305. Y. Kita, A. Furukawa, J. Futamura, K. Ueda, Y. Sawama, H. Hamamoto, H. Fujioka  
Remarkable Effect of Aluminum Reagents on Rearrangements of Epoxy Acylates via Stable  
Cation Intermediates and Its Application to the Synthesis of (*S*)-(+)-Sporochinol A  
*J. Org. Chem.*, **66**, 8779-8786 (2001).
306. H. Tohma, H. Morioka, Y. Harayama, M. Hashizume, Y. Kita  
Novel and Efficient Synthesis of *p*-Quinones in Water via Oxidative Demethylation of Phenol  
Ethers Using Hypervalent Iodine(III) Reagents  
*Tetrahedron Lett.*, **42**, 6899-6902 (2001).
307. M. Matsugi, K. Itoh, M. Nojima, Y. Hagimoto, Y. Kita  
Determination of Absolute Configuration of *trans*-2-Arylcyclohexanols Using Remarkable  
Aryl-induced <sup>1</sup>H NMR Shifts in Diastereomeric Derivatives  
*Tetrahedron Lett.*, **42**, 6903-6905 (2001).
308. S. Akai, T. Tsujino, T. Naka, K. Tanimoto, Y. Kita  
Lipase-catalyzed Enantioselective Desymmetrization of Prochiral  
3,3-Bis(hydroxymethyl)oxindoles  
*Tetrahedron Lett.*, **42**, 7315-7317 (2001).
309. M. Matsugi, K. Itoh, M. Nojima, Y. Hagimoto, Y. Kita  
A Novel Determination Method of the Absolute Configuration of 1-Aryl-1-alkylalcohols and  
Amines by an Intramolecular CH/ $\pi$  Shielding Effect in <sup>1</sup>H NMR  
*Tetrahedron Lett.*, **42**, 8019-8022 (2001).
310. M. Matsugi, M. Nojima, Y. Hagimoto, Y. Kita  
Determination of Stereochemistry and Separation of Diastereomeric Derivatives of  
*trans*-2-Pyridylcyclohexanols by Extraction  
*Tetrahedron Lett.*, **42**, 8039-8042 (2001).
311. M. Matsugi, K. Murata, G. Anilkumar, H. Nambu, Y. Kita  
Regioselective Nucleophilic Addition of Methoxybenzene Derivatives to the  $\beta$ -Carbon of  
*p*-Benzoquinone Mono *O,S*-Acetal  
*Chem. Pharm. Bull.*, **49**, 1658-1659 (2001).
312. S. Akai, T. Tsujino, N. Fukuda, K. Iio, Y. Takeda, K. Kawaguchi, T. Naka, K. Higuchi,  
Y. Kita  
Enantiodivergent Synthesis of Either Enantiomer of ABCDE-Ring Analogue of Antitumor  
Antibiotic Fredericamycin A via Intramolecular [4+2] Cycloaddition Approach  
*Org. Lett.*, **3**, 4015-4018 (2001).
313. S. Akai and Y. Kita  
Development of Lipase-Catalyzed Novel Asymmetric Synthesis  
*Seisan to Gijutsu (Manufacturing & Technology) (Japanese)*, **53**, 57-60 (2001).
314. Y. Kita and M. Matsugi  
Radical Initiators  
*Radicals in Organic Synthesis*, Chap. 1.1, 1-10, Ed. by Philippe Renaud & Mukund P. Sibi,  
Wiley-VCH Verlag GmbH, DOI: 10.1002/9783527618293 (2001).

315. Y. Kita  
Ethoxy(trimethylsilyl)acetylene  
*e-EROS Encyclopedia of Reagents for Organic Synthesis*,  
John Wiley & Sons, Inc., DOI: 10.1002/047084289X.re036 (2001).
316. Y. Kita  
Bis(1-methoxy-2-methyl-1-propenyloxy)-dimethylsilane  
*e-EROS Encyclopedia of Reagents for Organic Synthesis*,  
John Wiley & Sons, Inc., 1-2, DOI: 10.1002/047084289X.rb169 (2001).
317. M. Matsugi and Y. Kita  
2,2'-Azobis(2-methylpropanimidamide) dihydrochloride  
*e-EROS Encyclopedia of Reagents for Organic Synthesis*,  
John Wiley & Sons, Inc., DOI: 10.1002/047084289X.re036 (2001).
318. M. Matsugi and Y. Kita  
4,4'-Azobis(4-cyanopentanoic acid)  
*e-EROS Encyclopedia of Reagents for Organic Synthesis*,  
John Wiley & Sons, Inc., DOI: 10.1002/047084289X.re036 (2001).
319. S. Akai, T. Naka, T. Fujita, Y. Takebe, T. Tsujino, Y. Kita  
Efficient Lipase-Catalyzed Enantioselective Desymmetrization of Prochiral 2,2-Disubstituted 1,3-Propanediols and Meso 1,2-Diols Using 1-Ethoxyvinyl 2-Furoate  
*J. Org. Chem.*, **67**, 411-419 (2002).
320. H. Tohma, Y. Harayama, M. Hashizume, M. Iwata, M. Egi, Y. Kita  
Synthetic Studies on the Sulfur-Cross-Linked Core of Antitumor Marine Alkaloid, Discorhabdins: Total Synthesis of Discorhabdin A  
*Angew. Chem. Int. Ed.*, **41**, 348-350 (2002).
321. H. Tohma, T. Maegawa, S. Takizawa, Y. Kita  
Facile and Clean Oxidation of Alcohols in Water Using Hypervalent Iodine(III) Reagents  
*Adv. Synth. Catal.*, **344**, 328-337 (2002).
322. H. Hamamoto, G. Anilkumar, H. Tohma, Y. Kita  
A Novel and Efficient Oxidative Biaryl Coupling Reaction of Phenol Ether Derivatives Using a Combination of Hypervalent Iodine(III) Reagent and Heteropoly Acid  
*Chem. Commun.*, 450-451 (2002).
323. S. Akai, T. Naka, S. Omura, K. Tanimoto, M. Imanishi, Y. Takebe, M. Matsugi, Y. Kita  
Lipase-Catalyzed Domino Kinetic Resolution/ Intramolecular Diels-Alder Reaction: One-Pot Synthesis of Optically Active 7-Oxabicyclo[2.2.1]heptenes from Furfuryl Alcohols and  $\beta$ -Substituted Acrylic Acids  
*Chem. Eur. J.*, **8**, 4255-4264 (2002).
324. S. Akai, N. Kawashita, N. Morita, Y. Nakamura, K. Iio, Y. Kita  
Regioselective Synthesis of 2,3,5-Trisubstituted Indoles from *p*-Sulfinylanilines by Dual Use of the Sulfinyl Group  
*Heterocycles*, **58**, 75-78 (2002). (Albert I. Meyers's Special Issue)
325. H. Fujioka, N. Kotoku, Y. Sawama, Y. Nagatomi, Y. Kita  
Concise Asymmetric Synthesis of a Model Compound, (4*S*,5*S*,6*S*)-6-(2,2-Dimethoxy)ethyl-4,5-epoxy-6-hydroxy-2-cyclohexenone, for the Cyclohexenone Core of Scyphostatin  
*Tetrahedron Lett.*, **43**, 4825-4828 (2002).
326. H. Nambu, K. Hata, M. Matsugi, Y. Kita  
The Direct Synthesis of Thioesters Using an Intermolecular Radical Reaction of Aldehydes with Dipentafluorophenyl Disulfide in Water  
*Chem. Commun.*, 1082-1083 (2002).

327. G. Anilkumar, H. Nambu and Y. Kita  
A Simple and Efficient Iodination of Alcohols on Polymer-Supported Triphenylphosphine  
*Org. Proc. Res. Dev.*, **6**, 190-191 (2002).
328. H. Tohma, M. Iwata, T. Maegawa, Y. Kita  
Novel and Efficient Oxidative Biaryl Coupling Reaction of Alkylarenes Using a Hypervalent Iodine(III) Reagent  
*Tetrahedron Lett.*, **43**, 9241-9244 (2002).
329. H. Hamamoto, G. Anilkumar, H. Tohma, Y. Kita  
A Novel and Useful Oxidative Intramolecular Coupling Reaction of Phenol Ether Derivatives on Treatment with a Combination of Hypervalent Iodine(III) Reagent and Heteropoly Acid  
*Chem. Eur. J.*, **8**, 5377-5383 (2002).
330. M. Matsugi, K. Itoh, M. Nojima, Y. Hagimoto, Y. Kita  
<sup>1</sup>H NMR Determination of Absolute Configuration of 1- or 2-Aryl-Substituted Alcohols and Amines by Means of Their Diastereomers: Novel Separation Technique of Diastereomeric Derivatives of Pyridyl Alcohols by Extraction  
*Chem. Eur. J.*, **8**, 5551-5564 (2002).
331. M. Matsugi, R. Shimada, S. Ohata, M. Nojima, N. Fukuda, J. Minamikawa, Y. Kita  
The Improved Synthesis of OPC-29030, a Platelet Adhesion Inhibitor *via* Diastereoselective Oxidation of Chiral Non-racemic Sulfide  
*Chem. Pharm. Bull.*, **50**, 1511-1513 (2002).
332. Y. Kita  
Development of Novel Synthetic Organic Reactions: Synthesis of Antitumor Natural Products and Leading Compounds for New Pharmaceuticals  
*YAKUGAKU ZASSHI*, **122**, 1011-1035 (2002).
333. Y. Kita and H. Tohma  
Hypervalent Iodine-Induced Oxidation Reactions: Total Synthesis of Biologically Important Natural Products  
My Favorite Organic Synthesis: The 60<sup>th</sup> Anniversary of the Society of Synthetic Organic Chemistry, Japan, 76-77, *Ed. by the Society of Synthetic Organic Chemistry, Japan, Kagaku-Dojin Publishing Co., Inc.* (2002).
334. H. Fujioka, N. Kotoku, T. Fujita, R. Inoguchi, K. Murai, Y. Nagatomi, Y. Sawama, Y. Kita  
Kinetically Controlled Optical Resolution of Racemic Norbornene Aldehyde Derivatives  
*Chirality*, **15**, 60-67 (2003).
335. H. Nambu, G. Anilkumar, M. Matsugi, Y. Kita  
An Efficient Methodology for the C-C Bond Forming Radical Cyclization of Hydrophobic Substrates in Water: Effect of Additive on Radical Reaction in Water  
*Tetrahedron*, **59**, 77-85 (2003).
336. Y. Kita, J. Futamura, Y. Ohba, Y. Sawama, J. K. Ganesh, H. Fujioka  
Concise Asymmetric Synthesis of (-)-Herbertenediol  
*Tetrahedron Lett.*, **44**, 411-413 (2003).
337. Y. Kita, J. Futamura, Y. Ohba, Y. Sawama, J. K. Ganesh, H. Fujioka  
The Rearrangement of 2,3-Epoxy-sulfonates and Its Application to Natural Products Syntheses: Formal Synthesis of (-)-Aphanorphine and Total Syntheses of (-)- $\alpha$ -Herbertenol and (-)-Herbertenediol  
*J. Org. Chem.*, **68**, 5917-5924 (2003).
338. M. Matsugi, K. Itoh, M. Nojima, Y. Hagimoto, Y. Kita  
Optical Resolution of ( $\pm$ )-1-Furo[2,3-*c*]pyridin-5-yl-ethanol Using Extraction Technique: Formal Total Synthesis of PNU-142721, HIV-1 Reverse Transcriptase Inhibitor

- Tetrahedron Lett.*, **44**, 3355-3358 (2003).
339. M. Matsugi, Y. Hagimoto, K. Itoh, M. Nojima, Y. Kita  
A Simple Determination Method of the Absolute Configuration of 1-Arylethanthiols by an Intramolecular CH/ $\pi$  Shielding Effect in  $^1\text{H-NMR}$  of Diastereomeric Thiol Esters  
*Chem. Pharm. Bull.*, **51**, 460-462 (2003).
340. M. Matsugi, Y. Hagimoto, M. Nojima, Y. Kita  
Effective Nonenzymatic Kinetic Resolution of ( $\pm$ )-*trans*-2-Arylcyclohexanols Using  $3\beta$ -Acetoxyetienic Acid, DCC, and DMAP  
*Org. Proc. Res. Dev.*, **7**, 583-584 (2003).
341. H. Tohma, T. Maegawa and Y. Kita  
Facile and Efficient Oxidative Transformation of Primary Alcohols to Methyl Esters in Water Using Hypervalent Iodine(III) Reagents  
*Synlett*, 723-725 (2003).
342. H. Tohma, M. Iwata, T. Maegawa, Y. Kiyono, A. Maruyama, Y. Kita  
A Novel and Direct Synthesis of Alkylated 2,2'-Bithiophene Derivatives Using a Combination of Hypervalent Iodine(III) Reagent and  $\text{BF}_3\cdot\text{Et}_2\text{O}$   
*Org. Biomol. Chem.*, **1**, 1647-1649 (2003).
343. H. Tohma, T. Maegawa and Y. Kita  
Facile and Efficient Oxidation of Sulfides to Sulfoxides in Water Using Hypervalent Iodine Reagents  
*ARKIVOC*, Part (vi), 62-70 (2003).
344. K. Iio, A. Okajima, Y. Takeda, K. Kawaguchi, B. A. Whelan, S. Akai, Y. Kita  
Synthesis of *p*-Phenylthio-*peri*-hydroxy Polyaromatic Compounds by Strong-Base-Induced [4+2] Cycloaddition of 4-(Phenylthio)homophthalic Anhydrides with Phenylsulfinyl-Dienophiles  
*ARKIVOC*, Part (viii), 144-162 (2003).
345. H. Hamamoto, H. Tohma and Y. Kita  
Oxidative Coupling Reaction of Phenol Ether Derivatives Using the Activated Hypervalent Iodine(III) Reagent  
*FIU Report (English)*, (6), 113-127 (2003).
346. H. Tohma, Y. Harayama, M. Hashizume, M. Iwata, Y. Kiyono, M. Egi, Y. Kita  
The First Total Synthesis of Discorhabdin A  
*J. Am. Chem. Soc.*, **125**, 11235-11240 (2003).
347. K. Higuchi, K. Sawada, H. Nambu, T. Shogaki, Y. Kita  
A Convenient Synthesis of the Beraprost Intermediate: A Useful Method for Introducing a C3 Unit at the Benzyl Position  
*Org. Lett.*, **5**, 3703-3704 (2003).
348. H. Tohma and Y. Kita  
Synthetic Applications (Total Synthesis and Natural Product Synthesis)  
*Top. Curr. Chem.*, **224** (*Hypervalent Iodine Chemistry*), 209-248, Ed. by Thomas Wirth, Springer-Verlag Berlin Heidelberg New York (2003).
349. H. Fujioka, Y. Yoshida and Y. Kita  
Acid-catalyzed Rearrangement of Epoxy Alcohol Derivatives Having the Electron-withdrawing Protective Groups (Acyl or Sulfonyl): Asymmetric Synthesis of Chiral Quaternary Carbon and Spiro Centers and Its Application to Natural Products Synthesis  
*Yuki Gosei Kagaku Kyokaiishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **61**, 133-143 (2003).

350. Y. Kita and M. Matsugi  
Radical Initiators Pointing to Green Chemistry  
*Fine Chemical (Japanese)*, **32**, No. 5, 7-14, ISBN: 0913-6150 (2003).
351. M. Matsugi, K. Itoh, M. Nojima, Y. Hagimoto, Y. Kita  
A Novel Separation Technique of Diastereomeric Esters of Pyridylethanols by Extraction:  
Formal Total Synthesis of PNU-142721, HIV-1 Reverse Transcriptase Inhibitor  
*Tetrahedron*, **60**, 3311-3317 (2004).
352. H. Fujioka, Y. Ohba, J. Futamura, Y. Kita  
Unexpected Reaction of 2,3-Epoxy Sulfonates: Novel Formation of Two Enones with  
Reversed Substituents at  $\alpha$ - and  $\beta$ -Positions from the Single Isomer  
*Heterocycles*, **62**, 453-462 (2004). (Leo A. Paquette's Special Issue)
353. S. Akai, K. Tanimoto and Y. Kita  
Lipase-Catalyzed Domino Dynamic Kinetic Resolution of Racemic 3-Vinylcyclohex-2-en-  
1-ols/Intramolecular Diels-Alder Reaction: One-Pot Synthesis of Optically Active  
Polysubstituted Decalins  
*Angew. Chem. Int. Ed.*, **43**, 1407-1410 (2004).
354. S. Akai, T. Tsujino, E. Akiyama, K. Tanimoto, T. Naka, Y. Kita  
Enantiodivergent Preparation of Optically Active Oxindoles Having a Stereogenic Quaternary  
Carbon Center at the C3 Position via the Lipase-Catalyzed Desymmetrization Protocol:  
Effective Use of 2-Furoates for Either Enzymatic Esterification or Hydrolysis  
*J. Org. Chem.*, **69**, 2478-2486 (2004).
355. H. Hamamoto, Y. Shiozaki, H. Nambu, K. Hata, H. Tohma, Y. Kita  
The Efficient Synthesis of Morphinandienone Alkaloids by Using a Combination of  
Hypervalent Iodine(III) Reagent and Heteropoly Acid  
*Chem. Eur. J.*, **10**, 4977-4982 (2004).
356. H. Hamamoto, K. Hata, H. Nambu, Y. Shiozaki, H. Tohma, Y. Kita  
A Novel and Direct Synthesis of Chroman Derivatives Using a Hypervalent Iodine(III)  
Reagent  
*Tetrahedron Lett.*, **45**, 2293-2295 (2004).
357. H. Tohma, A. Maruyama, A. Maeda, T. Maegawa, T. Dohi, M. Shiro, T. Morita, Y. Kita  
Preparation and Reactivity of 1,3,5,7-Tetrakis[4-(diacetoxyiodo)phenyl]adamantane, A  
Recyclable Hypervalent Iodine(III) Reagent  
*Angew. Chem. Int. Ed.*, **43**, 3595-3598 (2004).
358. H. Fujioka, T. Fujita, N. Kotoku, Y. Ohba, Y. Nagatomi, A. Hiramatsu, Y. Kita  
Asymmetric Desymmetrization Based on an Intramolecular Haloetherification: A Highly  
Effective and Recyclable Chiral Nonracemic Auxiliary, 2-*exo*-Methyl-3-*endo*-phenyl-5-  
norbornene-2-carboxaldehyde, for *meso*-1,3- and *meso*-1,4-Diols  
*Chem. Eur. J.*, **10**, 5386-5397 (2004).
359. H. Fujioka, Y. Sawama, N. Murata, T. Okitsu, O. Kubo, S. Matsuda, Y. Kita  
Unexpected Highly Chemoselective Deprotection of the Acetals from Aldehydes and Not  
Ketones: TESOTf-2,6-Lutidine Combination  
*J. Am. Chem. Soc.*, **126**, 11800-11801 (2004).
360. H. Hamamoto, Y. Shiozaki, K. Hata, H. Tohma, Y. Kita  
A Novel and Concise Synthesis of Spirodienone Alkaloids Using Hypervalent Iodine(III)  
Reagents  
*Chem. Pharm. Bull.*, **52**, 1231-1234 (2004).
361. S. Akai, N. Kawashita, H. Satoh, Y. Wada, K. Kakiguchi, I. Kuriwaki, Y. Kita  
Highly Regioselective Nucleophilic Carbon-Carbon Bond Formation on Furans and

## Thiophenes Initiated by Pummerer-type Reaction

*Org. Lett.*, **6**, 3793-3796 (2004).

362. H. Nambu, A. H. Alinejad, K. Hata, H. Fujioka, Y. Kita  
A Simple and Efficient Radical Reduction Using Water-Soluble Radical Initiator and Hypophosphorous Acid in Aqueous Alcohol  
*Tetrahedron Lett.*, **45**, 8927-8929 (2004).
363. A. Ito, N. Morita, D. Miura, Y. Koma, T. R. Kataoka, H. Yamasaki, Y. Kitamura, Y. Kita, H. Nojima  
A Derivative of Oleamide Potently Inhibits the Spontaneous Metastasis of Mouse Melanoma BL6 Cells  
*Carcinogenesis*, **25**, 2015-2022 (2004).
364. Y. Kita and S. Akai  
1-Alkoxyvinyl Esters: Renaissance of Half-Century-Old Acyl Donors with Potential Applicability  
*Chem. Rec.*, **4**, 363-372 (2004).
365. H. Tohma and Y. Kita  
Hypervalent Iodine Reagents for the Oxidation of Alcohols and Their Application to Complex Molecule Synthesis  
*Adv. Synth. Catal.*, **346**, 111-124 (2004).
366. H. Tohma and Y. Kita  
Development of Novel Oxidation Reactions in Water Using Hypervalent Iodine Reagents  
*Yuki Gosei Kagaku Kyokaiishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **62**, 116-127 (2004).
367. Y. Kita  
Development of Novel Key Reactions and Synthesis of Antitumor Natural Products  
*Kagaku Kogyo (Japanese)*, **55**, 597-603 (2004).
368. Y. Kita  
*Drug Discovery Science — Approach from Organic Synthesis (Japanese)*, 1-377,  
Ed. by Yasuyuki Kita & Tetsuo Hiraoka, Tokyo Kagaku Dojin (2004).
369. Y. Kita, S. Matsuda, R. Inoguchi, J. K. Ganesh, H. Fujioka  
SnCl<sub>4</sub>-Promoted Rearrangement of 2,3-Epoxy Alcohol Derivatives: Stereochemical Control of the Reaction  
*Tetrahedron Lett.*, **46**, 89-91 (2005).
370. H. Fujioka, Y. Ohba, H. Hirose, K. Murai, Y. Kita  
A Double Iodoetherification of  $\sigma$ -Symmetric Diene Acetals for Installing Four Stereogenic Centers in a Single Operation: Short Asymmetric Total Synthesis of Rubrenolide  
*Angew. Chem. Int. Ed.*, **44**, 734-737 (2005).
371. H. Nambu, K. Hata, M. Matsugi, Y. Kita  
Efficient Synthesis of Thioesters and Amides from Aldehydes by Using an Intermolecular Radical Reaction in Water  
*Chem. Eur. J.*, **11**, 719-727 (2005).
372. Y. Harayama, M. Yoshida, D. Kamimura, Y. Kita  
The Novel and Efficient Direct Synthesis of *N,O*-Acetal Compounds Using a Hypervalent Iodine(III) Reagent: An Improved Synthetic Method for a Key Intermediate of Discorhabdins  
*Chem. Commun.*, 1764-1766 (2005).
373. H. Fujioka, K. Murai, Y. Ohba, A. Hiramatsu, Y. Kita  
A Mild and Efficient One-Pot Synthesis of 2-Dihydroimidazoles from Aldehydes  
*Tetrahedron Lett.*, **46**, 2197-2199 (2005).

374. T. Dohi, K. Morimoto, Y. Kiyono, H. Tohma, Y. Kita  
Novel and Direct Oxidative Cyanation Reactions of Heteroaromatic Compounds Mediated by A Hypervalent Iodine(III) Reagent  
*Org. Lett.*, **7**, 537-540 (2005).
375. T. Dohi, A. Maruyama, M. Yoshimura, K. Morimoto, H. Tohma, M. Shiro, Y. Kita  
A Unique Site-Selective Reaction of Ketones with New Recyclable Hypervalent Iodine(III) Reagents Based on a Tetraphenylmethane Structure  
*Chem. Commun.*, 2205-2207 (2005).
376. S. Akai, K. Tanimoto, Y. Kanao, S. Omura, Y. Kita  
Lipase-Catalyzed Domino Kinetic Resolution of  $\alpha$ -Hydroxynitrones/ Intramolecular 1,3-Dipolar Cycloaddition: A Concise Asymmetric Total Synthesis of (-)-Rosmarinecine  
*Chem. Commun.*, 2369-2371 (2005).
377. K. Hata, H. Hamamoto, Y. Shiozaki, Y. Kita  
A New Synthesis of Dienone Lactones Using a Combination of Hypervalent Iodine(III) Reagent and Heteropoly Acid  
*Chem. Commun.*, 2465-2467 (2005).
378. S. Akai, T. Tsujino, N. Fukuda, K. Iio, Y. Takeda, K. Kawaguchi, T. Naka, K. Higuchi, E. Akiyama, H. Fujioka, Y. Kita  
Asymmetric Total Synthesis of Fredericamycin A: An Intramolecular Cycloaddition Pathway  
*Chem. Eur. J.*, **11**, 6286-6297 (2005).
379. T. Dohi, K. Morimoto, Y. Kiyono, A. Maruyama, H. Tohma, Y. Kita  
The Synthesis of Head-to-Tail (H-T) Dimers of 3-Substituted Thiophenes by the Hypervalent Iodine(III)-Induced Oxidative Biaryl Coupling Reaction  
*Chem. Commun.*, 2930-2932 (2005).
380. H. Fujioka, N. Kotoku, Y. Sawama, H. Kitagawa, Y. Ohba, T. L. Wang, Y. Nagatomi, Y. Kita  
Asymmetric Synthesis by the Intramolecular Haloetherification Reaction of Ene Acetal: Discrimination of Prochiral Dienes in Cyclohexane Systems  
*Chem. Pharm. Bull.*, **53**, 952-957 (2005).
381. Y. Kita, S. Matsuda, E. Fujii, M. Horai, K. Hata, H. Fujioka  
Domino Reaction of 2,3-Epoxy-1-Alcohols and PIFA in the Presence of H<sub>2</sub>O and the Concise Synthesis of (+)-Tanikolide  
*Angew. Chem. Int. Ed.*, **44**, 5857-5860 (2005).
382. H. Fujioka, Y. Ohba, H. Hirose, K. Murai, Y. Kita  
Mild and Efficient Removal of Hydroxyethyl Unit from 2-Hydroxyethyl Ether Derivatives Leading to Alcohols  
*Org. Lett.*, **7**, 3303-3306 (2005).
383. Y. Kita, S. Matsuda, E. Fujii, S. Kitagaki, R. Inoguchi, K. Hata, H. Fujioka  
Hypervalent Iodine(III) Reagent-Promoted Rearrangement and Subsequent Oxidative Ring Cleavage of Cyclic 2,3-Epoxy-1-Alcohol Derivatives  
*Heterocycles*, **66**, 309-317 (2005). (Kenji Koga's Memorial Issue)
384. T. Dohi, A. Maruyama, M. Yoshimura, K. Morimoto, H. Tohma, Y. Kita  
Versatile Hypervalent-Iodine(III)-Catalyzed Oxidations with *m*-Chloroperbenzoic Acid as a Cooxidant  
*Angew. Chem. Int. Ed.*, **44**, 6193-6196 (2005).
385. Y. Harayama and Y. Kita  
Pyrroloiminoquinone Alkaloids: Discorhabdins and Makaluvamines (Review)  
*Curr. Org. Chem.*, **9**, 1567-1588 (2005).

386. Y. Kita, Y. Harayama and H. Tohma  
Synthesis of Discorhabdins: Reaction of Hypervalent Iodine Compounds  
*Gendai Kagaku Zokan (Japanese)*, **43**, Part 3, 166-180, Tokyo Kagaku Dojin (2005).
387. Y. Kita and S. Akai  
*Kagakuukei Yakugaku (SBO1~3) (Synthesis of Target Molecules and Chemistry of Biomolecules and Pharmaceuticals) (Japanese)*, Ed. by The Pharmaceutical Society of Japan, Tokyo Kagaku Dojin, ISBN: 9784807914555 (2005).
388. T. Dohi and Y. Kita  
Organic Synthesis Using Hypervalent Iodine Compounds, *Function and Application of Iodine Compounds (Japanese)*, Ed. by Masataka Yokoyama, 135-151, CMC Publishing Co., Ltd., ISBN: 978-4-88231-533-9 (2005).
389. S. Akai, N. Kawashita, Y. Wada, H. Satoh, A. H. Alinejad, K. Kakiguchi, I. Kuriwaki, Y. Kita  
Regioselective, Nucleophilic Carbon-Carbon Bond Formation at the C4-Position of Indoles Initiated by the Aromatic Pummerer-type Reaction  
*Tetrahedron Lett.*, **47**, 1881-1884 (2006).
390. H. Fujioka, K. Murai, Y. Ohba, H. Hirose, Y. Kita  
Intramolecular Bromo-Amination of 1,4-Cyclohexadiene Aminoal: One-pot Discrimination of Two Olefins and Concise Asymmetric Synthesis of (-)- $\gamma$ -Lycorane  
*Chem. Commun.*, 832-834 (2006).
391. T. Dohi, K. Morimoto, N. Takenaga, A. Maruyama, Y. Kita  
A Facile and Clean Direct Cyanation of Heteroaromatic Compounds Using a Recyclable Hypervalent Iodine(III) Reagent  
*Chem. Pharm. Bull.*, **54**, 1608-1610 (2006).
392. H. Fujioka, T. Okitsu, Y. Sawama, T. Ohnaka, Y. Kita  
Highly Chemoselective Alkylation of Acetals Using TESOTf-2,4,6-Collidine-Gilman Reagent Combination  
*Synlett*, 3077-3080 (2006). (Victor Snieckus's Special Issue)
393. Y. Harayama, M. Yoshida, D. Kamimura, Y. Wada, Y. Kita  
The Efficient Direct Synthesis of *N,O*-Acetal Compounds as Key Intermediates of Discorhabdin A: Oxidative Fragmentation Reaction of  $\alpha$ -Amino Acids or  $\beta$ -Amino Alcohols by Using Hypervalent Iodine(III) Reagents  
*Chem. Eur. J.*, **12**, 4893-4899 (2006).
394. Y. Kita, S. Matsuda, R. Inoguchi, J. K. Ganesh, H. Fujioka  
Lewis Acid-Promoted Rearrangement of 2,3-Epoxy Alcohol Derivatives: Stereochemical Control and Selective Formation of Two Types of Chiral Quaternary Carbon Centers from the Single Carbon Skeleton  
*J. Org. Chem.*, **71**, 5191-5197 (2006).
395. S. Akai, K. Tanimoto, Y. Kanao, M. Egi, T. Yamamoto, Y. Kita  
A Dynamic Kinetic Resolution of Allyl Alcohols by the Combined Use of Lipases and [VO(OSiPh<sub>3</sub>)<sub>3</sub>]  
*Angew. Chem.*, **118**, 2654-2657 (2006).
396. S. Akai, K. Tanimoto, Y. Kanao, M. Egi, T. Yamamoto, Y. Kita  
A Dynamic Kinetic Resolution of Allyl Alcohols by the Combined Use of Lipases and [VO(OSiPh<sub>3</sub>)<sub>3</sub>]  
*Angew. Chem. Int. Ed.*, **45**, 2592-2595 (2006).
397. T. Dohi, K. Morimoto, A. Maruyama, Y. Kita  
Direct Synthesis of Bipyrrroles Using Phenyliodine Bis(trifluoroacetate) with Bromotrimethylsilane

- Org. Lett.*, **8**, 2007-2010 (2006).
398. H. Fujioka, T. Okitsu, Y. Sawama, N. Murata, R. Li, Y. Kita  
Reaction of the Acetals with TESOTf-Base Combination; Speculation of the Intermediates and Efficient Mixed Acetal Formation  
*J. Am. Chem. Soc.*, **128**, 5930-5938 (2006).
399. T. Dohi and Y. Kita  
Catalytic Function of Hypervalent Iodine Reagents: Oxidation Reaction with Cooxidant  
*Kagaku (Japanese)*, **61**, No. 3, 68-69 (2006).
400. S. Akai, Y. Kanao, K. Tanimoto, M. Egi, T. Yamamoto, Y. Kita  
Dynamic Kinetic Resolution of Racemic Allyl Alcohols by the Combined Use of Lipases and VO(OSiPh<sub>3</sub>)<sub>3</sub>  
*J. Mol. Catal. B-Enzymatic*, **42**, 132 –Abstracts (2006).
401. Y. Kita  
Research Extending from Individuals: The Chemists' Impressive Moments: 51 Exciting Stories of Discovery (*Japanese*), Ed. by Yuki Gosei Kagaku Kyokai (*The Society of Synthetic Organic Chemistry, Japan*), Kagaku-Dojin Publishing Co., Inc. (2006).
402. Y. Kita *et al.*  
Strategic Applications of Named Reactions in Organic Synthesis (*Japanese*), Ed. by László Kürti, Barbara Czakó, Translated by Kiyoshi Tomioka, Kagaku-Dojin Publishing Co., Inc. (2006).
403. M. Matsugi and Y. Kita  
2,2'-Azobis(2-methylpropanimidamide) Dihydrochloride (V-50)  
*e-EROS Encyclopédia of Reagents for Organic Synthesis*, John Wiley & Sons, Inc., 1-2, DOI: 10.1002/9780470842898.rm00727 (2007).
404. M. Matsugi and Y. Kita  
4,4'-Azobis(4-cyanopentanoic acid) (V-501)  
*e-EROS Encyclopédia of Reagents for Organic Synthesis*, John Wiley & Sons, Inc., 1-2, DOI: 10.1002/9780470842898.rm00728 (2007).
405. H. Fujioka, H. Hirose, Y. Ohba, K. Murai, K. Nakahara, Y. Kita  
Cerium Ammonium Nitrate (CAN) for Mild and Efficient Reagent to Remove Hydroxyethyl Units from 2-Hydroxyethyl Ethers and 2-Hydroxyethyl Amines  
*Tetrahedron*, **63**, 625-637 (2007).
406. H. Fujioka, K. Murai, O. Kubo, Y. Ohba, Y. Kita  
One-Pot Synthesis of Imidazolines from Aldehydes: Detailed Study about Solvents and Substrates  
*Tetrahedron*, **63**, 638-643 (2007).
407. T. Dohi, K. Morimoto, N. Takenaga, A. Goto, A. Maruyama, Y. Kiyono, H. Tohma, Y. Kita  
Direct Cyanation of Heteroaromatic Compounds Mediated by Hypervalent Iodine(III) Reagents: In Situ Generation of PhI(III)-CN Species and Their Cyano Transfer  
*J. Org. Chem.*, **72**, 109-116 (2007).
408. Y. Ohba, Y. Kanao, N. Morita, E. Fujii, M. Hohrai, M. Takatsuji, H. Hirose, D. Miura, A. Watari, M. Yutsudo, H. Zhao, N. Yabuta, A. Ito, Y. Kita, H. Nojima  
Oleamide Derivatives Suppress the Spontaneous Metastasis by Inhibiting Connexin 26  
*Int. J. Cancer*, **121**, 47-54 (2007).
409. H. Nojima, Y. Ohba and Y. Kita  
Oleamide Derivatives are Prototypical Anti-Metastasis Drugs that Act by Inhibiting Connexin 26

- Current Drug Safety*, **2**, 204-211 (2007).
410. H. Fujioka, S. Matsuda, M. Horai, E. Fujii, M. Morishita, N. Nishiguchi, K. Hata, Y. Kita  
Facile and Efficient Synthesis of Lactols by a Domino Reaction of 2,3-Epoxy Alcohols with a  
Hypervalent Iodine(III) Reagent and Its Application to the Synthesis of Lactones and the  
Asymmetric Synthesis of (+)-Tanikolide  
*Chem. Eur. J.*, **13**, 5238-5248 (2007).
411. H. Fujioka, T. Okitsu, T. Ohnaka, Y. Sawama, O. Kubo, K. Okamoto, Y. Kita  
Reaction of Tetrahydropyranyl Ethers with Triethylsilyl Trifluoromethanesulfonate-2,4,6-  
Collidine Combination: Speculation on the Intermediate, Efficient Deprotection, and  
Application to Efficient Ring-Closing Metathesis as a Tether  
*Adv. Synth. Catal.*, **349**, 636-646 (2007).
412. T. Dohi, A. Maruyama, Y. Minamitsuji, N. Takenaga, Y. Kita  
First Hypervalent Iodine(III)-Catalyzed C-N Bond Forming Reaction: Catalytic Spirocyclization  
of Amides to *N*-Fused Spirolactams  
*Chem. Commun.*, 1224-1226 (2007).
413. H. Fujioka, T. Ohnaka, T. Okitsu, O. Kubo, K. Okamoto, Y. Sawama, Y. Kita  
Alkyl- and Arylation of Oxacyclic Ethers with Triethylsilyl Triflate-2,4,6-Collidine-Gilman  
Reagent Combination: Remarkable Discrimination of Two Ether Oxygens  
*Heterocycles*, **72**, 529-540 (2007). (Yoshito Kishi's Special Issue)
414. Y. Ohba, Y. Kanao, M. Takatsuji, M. Ito, N. Yabuta, H. Nojima, Y. Kita  
Synthesis of *N*-Functionalized Oleamide Derivatives  
*Tetrahedron*, **63**, 3754-3761 (2007).
415. K. Hata, H. Hamamoto, Y. Shiozaki, S. B. Cämmerer, Y. Kita  
Nucleophilic Attack of Intramolecular Hydroxyl Groups on Electron-Rich Aromatics Using  
Hypervalent Iodine(III) Oxidation  
*Tetrahedron*, **63**, 4052-4060 (2007).
416. H. Fujioka, K. Murai, O. Kubo, Y. Ohba, Y. Kita  
New Three-Component Reaction: Novel Formation of a Seven-Membered Ring by the  
Unexpected Reaction at the  $\gamma$ -Position of the  $\beta$ -Keto Ester  
*Org. Lett.*, **9**, 1687-1690 (2007).
417. T. Dohi, N. Takenaga, A. Goto, A. Maruyama, Y. Kita  
Direct Lactone Formation by Using Hypervalent Iodine(III) Reagents with KBr via Selective  
C-H Abstraction Protocol  
*Org. Lett.*, **9**, 3129-3132 (2007).
418. T. Dohi, M. Ito, K. Morimoto, Y. Minamitsuji, N. Takenaga, Y. Kita  
Versatile Direct Dehydrative Approach for Diaryliodonium(III) Salts in Fluoroalcohol Media  
*Chem. Commun.*, 4152-4154 (2007).
419. S. Akai, K. Kakiguchi, Y. Nakamura, I. Kuriwaki, T. Dohi, S. Harada, O. Kubo, N. Morita,  
Y. Kita  
Total Synthesis of ( $\pm$ )- $\gamma$ -Rubromycin on the Basis of Two Aromatic Pummerer-type Reactions  
*Angew. Chem. Int. Ed.*, **46**, 7458-7461 (2007).
420. H. Fujioka, T. Okitsu, T. Ohnaka, R. Li, O. Kubo, K. Okamoto, Y. Sawama, Y. Kita  
Organic Chemistry Using Weakly Electrophilic Salts: Efficient Formation of *O,O*-Mixed, *O,S*-  
and *N,O*-Acetals  
*J. Org. Chem.*, **72**, 7898-7902 (2007).
421. T. Dohi, K. Morimoto, M. Ito, Y. Kita  
Regioselective Bipyrrrole Coupling of Pyrroles and 3-Substituted Pyrroles Using

- Phenyliodine(III) Bis(trifluoroacetate)  
*Synthesis*, (18), 2913-2919 (2007).
422. H. Fujioka, Y. Ohba, K. Nakahara, M. Takatsuji, K. Murai, M. Ito, Y. Kita  
New Perspective for Natural Products Synthesis: Concise Synthesis of (+)-Sch 642305 by Chiral Auxiliary Multiuse Methodology  
*Org. Lett.*, **9**, 5605-5608 (2007).
423. K. Murai, M. Morishita, R. Nakatani, O. Kubo, H. Fujioka, Y. Kita  
Concise Total Synthesis of (-)-Spongotone A  
*J. Org. Chem.*, **72**, 8947-8949 (2007).
424. H. Fujioka, Y. Sawama, N. Kotoku, T. Ohnaka, T. Okitsu, N. Murata, O. Kubo, R. Li, Y. Kita  
Concise Asymmetric Total Synthesis of Scyphostatin, a Potent Inhibitor of Neutral Sphingomyelinase  
*Chem. Eur. J.*, **13**, 10225-10238 (2007).
425. Y. Kita and H. Fujioka  
Enantioselective Constructions of Quaternary Carbons and Their Application to the Asymmetric Total Syntheses of Fredericamycin A and Discorhabdin A  
*Pure Appl. Chem.*, **79**, 701-713 (2007).
426. S. Akai and Y. Kita  
Recent Progress on the Lipase-Catalyzed Asymmetric Syntheses  
*Yuki Gosei Kagaku Kyokaishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **65**, 772-782 (2007).
427. Y. Kita  
Preface. Review and Accounts  
*Yuki Gosei Kagaku Kyokaishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **65**, 1161 (2007).
428. Y. Kanao, Y. Ohba, Y. Kita, H. Nojima  
Oleamide Derivatives Potently Inhibit the Spontaneous Metastasis of Mouse Melanoma BL6 Cells  
*Clin. Exp. Metastasis*, **24**, 307 (2007).
429. S. Akai and Y. Kita  
Recent Advances in Pummerer Reactions  
*Top. Curr. Chem.*, **274** (*Sulfur-Mediated Rearrangements I*), 35-76, Ed. by Ernst Schaumann, Springer-Verlag Berlin Heidelberg (2007).
430. M. Arisawa and Y. Kita  
Maritidine, Galantamine and Related Alkaloids  
*Tennennbutsu Kagaku Syokubutsuhen (Natural Product Chemistry, Plants ver.) (Japanese)*, IPC (Industrial Publishing & Consulting, Inc.), ISBN: 978-4901493024 (2007).
431. T. Dohi, M. Ito, K. Morimoto, M. Iwata, Y. Kita  
Oxidative Cross-Coupling of Arenes Induced by Single-Electron Transfer Leading to Biaryls by Use of Organoiodine(III) Oxidants  
*Angew. Chem. Int. Ed.*, **47**, 1301-1304 (2008).
432. T. Dohi, A. Maruyama, N. Takenaga, K. Senami, Y. Minamitsuji, H. Fujioka, S. B. Caemmerer, Y. Kita  
A Chiral Hypervalent Iodine(III) Reagent for Enantioselective Dearomatization of Phenols  
*Angew. Chem. Int. Ed.*, **47**, 3787-3790 (2008).
433. H. Fujioka, Y. Ohba, H. Hirose, K. Nakahara, K. Murai, Y. Kita  
Facile Formation of Tetrahydrofurans with Multiple Chiral Centers Using Double Iodoetherification of  $\sigma$ -symmetric Diene Acetals: Short Asymmetric Total Synthesis of Rubrenolide and Rubrynlolide

- Tetrahedron*, **64**, 4233-4245 (2008).
434. K. Murai, R. Nakatani, Y. Kita, H. Fujioka  
One-Pot Three-Component Reaction Providing 1,5-Benzodiazepine Derivatives  
*Tetrahedron*, **64**, 11034-11040 (2008).
435. K. Murai, M. Morishita, R. Nakatani, H. Fujioka, Y. Kita  
Oxidative Decarboxylative Synthesis of 2-H-Imidazolines from Glyoxylic Acid and 1,2-Diamines  
*Chem. Commun.*, 4498-4500 (2008).
436. T. Dohi, Y. Minamitsuji, A. Maruyama, S. Hirose, Y. Kita  
A New H<sub>2</sub>O<sub>2</sub>/Acid Anhydride System for the Iodoarene-Catalyzed C-C Bond-Forming Reactions of Phenols  
*Org. Lett.*, **10**, 3559-3562 (2008).
437. S. Akai, T. Iwata, S. Takayanagi, Y. Morikawa, S. Mohri, M. Tsubakiyama, M. Egi, Y. Wada, Y. Kita  
Synthesis of Biaryl Compounds through Three-Component Assembly: Ambidentate Effect of the *tert*-Butyldimethylsilyl Group for Regioselective Diels-Alder and Hiyama Coupling Reactions  
*Angew. Chem. Int. Ed.*, **47**, 7673-7676 (2008).
438. T. Dohi, N. Takenaga, A. Goto, H. Fujioka, Y. Kita  
Clean and Efficient Benzylic C-H Oxidation in Water Using a Hypervalent Iodine Reagent: Activation of Polymeric Iodosobenzene with KBr in the Presence of Montmorillonite-K10  
*J. Org. Chem.*, **73**, 7365-7368 (2008).
439. Y. Kita  
New Development of Hypervalent Iodine Chemistry and Green Chemistry  
*Kagaku Kogyo (Japanese)*, **59**, 16-22 (2008).
440. Y. Kita and H. Fujioka  
Synthesis of Anthracyclines and Fredericamycin A via Strong Base-Induced Cycloaddition Reaction of Homophthalic Anhydrides  
*Top. Curr. Chem.*, **282** (*Anthracycline Chemistry and Biology I*), 299-319, Ed. by Karsten Krohn, Springer-Verlag Berlin Heidelberg (2008).
441. Y. Kita and H. Fujioka  
New Method of Acetal Deprotection— Deprotection of Acetal in the Presence of Acetal: *How to Scale Up and Avoid Troubles for Drugs and Its Intermediates Production (Japanese)*, 194-209, CMC Publishing Co., Ltd., ISBN: 978-4-7813-0025-2 (2008).
442. Y. Ohba, M. Takatsuji, K. Nakahara, H. Fujioka, Y. Kita  
A Highly Efficient Macrolactonization Method via Ethoxyvinyl Ester  
*Chem. Eur. J.*, **15**, 3526-3537 (2009).
443. Y. Wada, K. Otani, N. Endo, Y. Harayama, D. Kamimura, M. Yoshida, H. Fujioka, Y. Kita  
The First Total Synthesis of Prianosin B  
*Tetrahedron*, **65**, 1059-1062 (2009).
444. K. Murai, S. Hayashi, N. Takaichi, Y. Kita, H. Fujioka  
Tandem  $\beta$ -Enamino Ester Formation and Cyclization with  $\alpha$ -Alkynyl Anilines Catalyzed by InBr<sub>3</sub>: Efficient Synthesis of  $\beta$ -(*N*-Indolyl)- $\alpha,\beta$ -unsaturated Esters  
*J. Org. Chem.*, **74**, 1418-1421 (2009).
445. Y. Kita, K. Morimoto, M. Ito, C. Ogawa, A. Goto, T. Dohi  
Metal-Free Oxidative Cross-Coupling of Unfunctionalized Aromatic Compounds  
*J. Am. Chem. Soc.*, **131**, 1668-1669 (2009).

446. T. Dohi and Y. Kita  
Hypervalent Iodine Reagents as a New Entrance to Organocatalysts  
*Chem. Commun.*, 2073-2085 (2009).
447. Y. Minamitsuji, D. Kato, H. Fujioka, T. Dohi, Y. Kita  
Organoiodine-Catalyzed Oxidative Spirocyclization of Phenols Using Peracetic Acid as a Green and Economic Terminal Oxidant  
*Aust. J. Chem.*, **62**, 648-652 (2009).
448. T. Dohi, K. Morimoto, C. Ogawa, H. Fujioka, Y. Kita  
Clean and Direct Synthesis of  $\alpha,\alpha'$ -Bithiophenes and Bipyrrroles by Metal-Free Oxidative Coupling Using Recyclable Hypervalent Iodine(III) Reagents  
*Chem. Pharm. Bull.*, **57**, 710-713 (2009).
449. H. Fujioka, O. Kubo, K. Okamoto, K. Senami, T. Okitsu, T. Ohnaka, Y. Sawama, Y. Kita  
Mild and Efficient Deprotection of Acetal-type Protecting Groups of Hydroxyl Functions by Triethylsilyl Triflate-2,4,6-Collidine Combination  
*Heterocycles*, **77**, 1089-1103 (2009). (Keiichiro Fukumoto's Special Issue)
450. H. Fujioka, O. Kubo, K. Senami, K. Okamoto, T. Okitsu, Y. Kita  
Organic Chemistry Using Weakly Electrophilic Salts: The Reaction with Nitrogen Nucleophiles  
*Heterocycles*, **79**, 1113-1120 (2009). (John Daly's Memorial Issue)
451. N. Takenaga, A. Goto, M. Yoshimura, H. Fujioka, T. Dohi, Y. Kita  
Hypervalent Iodine(III)/Et<sub>4</sub>N<sup>+</sup>Br<sup>-</sup> Combination in Water for Green and Racemization-Free Aqueous Oxidation of Alcohols  
*Tetrahedron Lett.*, **50**, 3227-3229 (2009).
452. Y. Wada, K. Otani, N. Endo, Y. Harayama, D. Kamimura, M. Yoshida, H. Fujioka, Y. Kita  
Synthesis of Antitumor Marine Alkaloid Discorhabdin A Oxa Analogues  
*Org. Lett.*, **11**, 4048-4050 (2009).
453. T. Dohi, M. Ito, N. Yamaoka, K. Morimoto, H. Fujioka, Y. Kita  
Hypervalent Iodine(III): Selective and Efficient Single-Electron-Transfer (SET) Oxidizing Agent  
*Tetrahedron*, **65**, 10797-10815 (2009).
454. H. Fujioka and Y. Kita  
Stereocontrol Between Remote Atom Centers Using Chiral Acetals and Its Application to Asymmetric Syntheses of Natural Products  
*Yuki Gosei Kagaku Kyokaishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **67**, 606-617 (2009).
455. H. Fujioka and Y. Kita  
Crossroad/ Radical Initiator VA-061 and VA-044  
*Yuki Gosei Kagaku Kyokaishi (J. Synth. Org. Chem. Jpn.) (Japanese)*, **67**, 656 (2009).
456. S. Akai and Y. Kita  
Total Synthesis of  $\gamma$ -Rubromycin  
*New Trends in Total Synthesis of Natural Products (Japanese)*, 131-143, Ed. by Yasuyuki Kita, CMC Publishing Co., Ltd., ISBN: 978-4-7813-0164-8 (2009).
457. Y. Kita and H. Fujioka  
Synthesis of Discorhabdins  
*New Trends in Total Synthesis of Natural Products (Japanese)*, 293-309, Ed. by Yasuyuki Kita, CMC Publishing Co., Ltd., ISBN: 978-4-7813-0164-8 (2009).
458. Y. Kita *et al.*  
*Total Synthesis of Natural Products 2000~2008 (Japanese)*, Ed. by Yuki Gosei Kagaku

*Kyokai (The Society of Synthetic Organic Chemistry, Japan), Kagaku-Dojin Publishing Co., Inc.*, ISBN: 978-4-7598-1277-0 (2009).

459. T. Dohi and Y. Kita  
Organic Iodine  
*Kagaku Frontier 21; Evolving Organic Catalysts (Japanese)*, 193-203, Ed. by Keiji Maruoka, Kagaku-Dojin Publishing Co., Inc., ISBN: 978-4-7598-0751-6 (2009).
460. Y. Kita, N. Fu and T. T. Tidwell  
Ethoxy(trimethylsilyl)acetylene  
*Encyclopedia of Reagents for Organic Synthesis*, 14 (2<sup>nd</sup> Edition), 1-4, John Wiley & Sons, Inc., ISBN: 978-0-470-84289-8 (2009).
461. Y. Wada, K. Otani, N. Endo, Y. Kita, H. Fujioka  
Novel Dienone-phenol Type Rearrangement of 4,4-Disubstituted Cyclohexadienone System Using Thiosilane  
*Chem. Commun.*, **46**, 797-799 (2010).
462. Y. Wada, H. Fujioka and Y. Kita  
Synthesis of the Marine Pyrroloiminoquinone Alkaloids, Discorhabdins  
*Marine Drugs*, **8**, 1394-1416 (2010).
463. M. Ito, C. Ogawa, N. Yamaoka, H. Fujioka, T. Dohi, Y. Kita  
Enhanced Reactivity of [Hydroxy(tosyloxy)iodo]benzene in Fluoroalcohol Media. Efficient Direct Synthesis of Thienyl(aryl)iodonium Salts  
*Molecules*, **15**, 1918-1931 (2010).
464. H. Fujioka, K. Nakahara, T. Oki, K. Hirano, T. Hayashi, Y. Kita  
The First Asymmetric Total Syntheses of Both Enantiomers of Cryptocaryone  
*Tetrahedron Lett.*, **51**, 1945-1946 (2010).
465. Y. Sawama, K. Kawamoto, H. Satake, N. Krause, Y. Kita  
Regioselective Gold-Catalyzed Allylative Ring Opening of 1,4-Epoxy-1,4-dihydronaphthalenes  
*Synlett*, 2151-2155 (2010).
466. T. Dohi, M. Ito, N. Yamaoka, K. Morimoto, H. Fujioka, Y. Kita  
Unusual *ipso* Substitution of Diaryliodonium Bromides Initiated by a Single-Electron-Transfer Oxidizing Process  
*Angew. Chem. Int. Ed.*, **49**, 3334-3337 (2010).
467. K. Morimoto, N. Yamaoka, C. Ogawa, T. Nakae, H. Fujioka, T. Dohi, Y. Kita  
Metal-Free Regioselective Oxidative Biaryl Coupling Leading to Head-to-Tail Bithiophenes: Reactivity Switching, a Concept Based on the Iodonium(III) Intermediate  
*Org. Lett.*, **12**, 3804-3807 (2010).
468. H. Fujioka, H. Komatsu, T. Nakamura, A. Miyoshi, K. Hata, J. Ganesh, K. Murai, Y. Kita  
Organic Synthesis Using a Hypervalent Iodine Reagent: Unexpected and Novel Domino Reaction Leading to Spiro Cyclohexadienone Lactones  
*Chem. Commun.*, **46**, 4133-4135 (2010).
469. S. Akai, R. Hanada, N. Fujiwara, Y. Kita, M. Egi  
One-Pot Synthesis of Optically Active Allyl Esters *via* Lipase-Vanadium Combo Catalysis  
*Org. Lett.*, **12**, 4900-4903 (2010).
470. T. Ikawa, A. Takagi, Y. Kurita, K. Saito, K. Azechi, M. Egi, K. Kakiguchi, Y. Kita, S. Akai  
Preparation and Regioselective Diels-Alder Reactions of Borylbenzynes: Synthesis of Functionalized Arylboronates  
*Angew. Chem. Int. Ed.*, **49**, 5563-5566 (2010).

471. T. Dohi, N. Yamaoka and Y. Kita  
Fluoroalcohols: Versatile Solvents in Hypervalent Iodine Chemistry and Syntheses of Diaryliodonium(III) Salts  
*Tetrahedron*, **66**, 5775-5785 (2010).
472. T. Dohi, N. Takenaga, K. Fukushima, T. Uchiyama, D. Kato, M. Shiro, H. Fujioka, Y. Kita  
Designer  $\mu$ -oxo-bridged Hypervalent Iodine(III) Organocatalysts for Greener Oxidations  
*Chem. Commun.*, **46**, 7697-7699 (2010).
473. T. Dohi and Y. Kita  
EVE—Macrolactonization Reaction, 368; Phenolic Oxidation by Organic Iodine Catalyst,  
*Useful Organic Synthesis Reactions (Japanese)*, 460, Ed. by Keiji Maruoka et al.,  
*Kagaku-Dojin Publishing Co., Inc.*, ISBN: 9784759811919 (2010).
474. T. Dohi, N. Yamaoka, I. Itani, Y. Kita  
One-Pot Syntheses of Diaryliodonium Salts from Aryl Iodides Using Peracetic Acid as Green Oxidant  
*Aust. J. Chem.*, **64**, 529-535 (2011).
475. H. Fujioka, H. Komatsu, A. Miyoshi, K. Murai, Y. Kita  
Phenyl iodine diacetate-mediated oxidative cleavage of cyclobutanols leading to  $\gamma$ -hydroxy ketones  
*Tetrahedron Lett.*, **52**, 973-975 (2011).
476. H. Fujioka, K. Nakahara, H. Hirose, K. Hirano, T. Oki, Y. Kita  
Intramolecular Iodoetherification of Ene or Diene Ketals: Facile Synthesis of Spiroketal  
*Chem. Commun.*, **47**, 1060-1062 (2011).
477. Y. Kita, T. Dohi and K. Morimoto  
Hypervalent Iodine Induced Metal-Free C-H Cross Couplings to Biaryls  
*Yuki Gosei Kagaku Kyokaiishi (J. Synth. Org. Chem. Jpn.) (English)*, **69**, 1241-1250 (2011).
478. N. Takenaga, T. Uchiyama, D. Kato, H. Fujioka, T. Dohi, Y. Kita  
Efficient Phenolic Oxidations to Construct *ortho*-Spirolactone Structures Using Oxo-Bridged Hypervalent Iodine(III) Compound  
*Heterocycles*, **82**, 1327-1336 (2011). (Albert Eschenmoser's Special Issue)
479. K. Nakahara, K. Hirano, R. Maehata, Y. Kita, H. Fujioka  
Asymmetric Total Synthesis of Clavonine  
*Org. Lett.*, **13**, 2015-2017 (2011).
480. T. Dohi, T. Uchiyama, D. Yamashita, N. Washimi, Y. Kita  
Efficient Phenolic Oxidations Using  $\mu$ -oxo-bridged phenyl iodine trifluoroacetate  
*Tetrahedron Lett.*, **52**, 2212-2215 (2011).
481. T. Dohi, D. Kato, R. Hyodo, D. Yamashita, M. Shiro, Y. Kita  
Discovery of stabilized bisiodonium salts as intermediates in the carbon-carbon bond formation of alkynes  
*Angew. Chem. Int. Ed.*, **50**, 3784-3787 (2011).
482. T. Dohi, Y. Hu, T. Kamitanaka, N. Washimi, Y. Kita  
[3+2] Coupling of quinone monoacetals by combined acid-hydrogen bond donor  
*Org. Lett.*, **13**, 4814-4817 (2011).
483. Y. Wada, Y. Harayama, D. Kamimura, M. Yoshida, T. Shibata, K. Fujiwara, K. Morimoto, H. Fujioka, Y. Kita  
The synthetic and biological studies of discorhabdins and related compounds  
*Org. Biomol. Chem.*, **9**, 4959-4976 (2011).

484. T. Ikawa, T. Nishiyama, T. Shigeta, S. Mohri, S. Morita, S. Takayanagi, Y. Terauchi, Y. Morikawa, A. Takagi, Y. Ishikawa, S. Fujii, Y. Kita, S. Akai  
*ortho*-Selective Nucleophilic Addition of Primary Amines to Silylbenzynes: Synthesis of 2-Silylanilines  
*Angew. Chem. Int. Ed.*, **50**, 5674-5677 (2011).
485. T. Dohi, N. Washimi, T. Kamitanaka, K. Fukushima, Y. Kita  
Coupling of Quinone Monoacetals Promoted by Sandwiched Brønsted Acids: Synthesis of Oxygenated Biaryls  
*Angew. Chem. Int. Ed.*, **50**, 6142-6146 (2011).
486. T. Dohi, M. Ito, I. Itani, N. Yamaoka, K. Morimoto, H. Fujioka, Y. Kita  
Metal-Free C-H Cross-Coupling toward Oxygenated Naphthalene-Benzene Linked Biaryls  
*Org. Lett.*, **13**, 6208-6211 (2011).
487. K. Morimoto, T. Nakae, N. Yamaoka, T. Dohi, Y. Kita  
Metal-Free Oxidative Coupling Reactions via  $\sigma$ -Iodonium Intermediates: The Efficient Synthesis of Bithiophenes Using Hypervalent Iodine Reagents  
*Eur. J. Org. Chem.*, 6326-6334 (2011).
488. T. Dohi, T. Nakae, Y. Ishikado, D. Kato, Y. Kita  
New Synthesis of Spirocycles by Utilizing *in situ* Forming Hypervalent Iodine Species  
*Org. Biomol. Chem.*, **9**, 6899-6902 (2011).
489. T. Dohi, K. Morimoto and Y. Kita  
Cross-Coupling Reactions without Use of Rare Metals. From Encounter with Hypervalent Iodine Reagent to Synthesis of Conductive Polymers  
*Kagaku (Japanese)*, **66**, No. 8, 12-18 (2011).
490. Y. Kita and T. Dohi  
Metal-Free Cross-Coupling Using Iodines  
*Fine Chemical (Japanese)*, **40**, No. 12, 49-55, ISBN: 0913-6150 (2011).
491. Y. Kita and T. Dohi  
Reaction of 3-Coordinate Iodine Compounds, *Function and Applications of Iodine Compounds (Japanese)*, 135-151, Ed. by Masataka Yokoyama, CMC Publishing Co., Ltd., ISBN: 978-4-7813-0297-3 (2011).
492. Y. Kita  
Cross-Coupling Reactions Awarded the Nobel Prize in Chemistry in 2010 and the Possibilities for Rare Metal-Free Reactions  
*Material Stage, March Issue*, 5-7,  
*Gijutsu Joho Kyokai (Technical Information Institute Co., Ltd.) (Tokyo)* (2011).
493. Y. Kita and H. Fujioka  
Radical Reduction, 148-149; Dehydration Reaction, 22-23, *Tennenbutsu Gosei de Katsuyakushita Hannou; Reactions Used in Natural Product Synthesis (Japanese)*, Ed. by Yuki Gosei Kagaku Kyokai (The Society of Synthetic Organic Chemistry, Japan), Kagaku-Dojin Publishing Co., Inc., ISBN: 9784759814798 (2011).
494. Y. Kita and S. Akai  
Benzyne Reaction, 98-99, *Tennenbutsu Gosei de Katsuyakushita Hannou; Reactions Used in Natural Product Synthesis (Japanese)*, Ed. by Yuki Gosei Kagaku Kyokai (The Society of Synthetic Organic Chemistry, Japan), Kagaku-Dojin Publishing Co., Inc., ISBN: 9784759814798 (2011).
495. Y. Kita  
Bis(1-methoxy-2-methyl-1-propenyloxys)dimethylsilane  
*Handbook of Reagents for Organic Synthesis—Reagents for Silicon-Mediated Organic Synthesis*,

51-52, Ed. by Philip L. Fuchs,  
John Wiley & Sons, Inc., ISBN: 978-0-470-71023-4 (2011).

496. Y. Kita, N. Fu and T. T. Tidwell  
Ethoxy(trimethylsilyl)acetylene  
*Handbook of Reagents for Organic Synthesis—Reagents for Silicon-Mediated Organic Synthesis*, 289-293, Ed. by Philip L. Fuchs,  
John Wiley & Sons, Inc., ISBN: 978-0-470-71023-4 (2011).
497. T. Dohi, K. Fukushima, T. Kamitanaka, K. Morimoto, N. Takenaga, Y. Kita  
An Excellent Dual Recycling Strategy for the Hypervalent Iodine/Nitroxyl Radical Mediated Selective Oxidation of Alcohols to Aldehydes and Ketones  
*Green Chem.*, **14**, 1493-1501 (2012).
498. M. Ito, I. Itani, Y. Toyoda, K. Morimoto, T. Dohi, Y. Kita  
Synthesis of Boron-Substituted Diaryliodonium Salts and Selective Transformation into Functionalized Aryl Boronates  
*Angew. Chem. Int. Ed.*, **51**, 12555-12558 (2012).
499. H. Fujioka, K. Yahata, T. Hamada, O. Kubo, T. Okitsu, Y. Sawama, T. Ohnaka, T. Maegawa, Y. Kita  
Reaction of Acetals with Various Carbon Nucleophiles under Non-Acidic Conditions: C-C Bond Formation via a Pyridinium-Type Salt  
*Chem. Asian J.*, **7**, 367-373 (2012).
500. T. Dohi, T. Nakae, N. Takenaga, T. Uchiyama, K. Fukushima, H. Fujioka, Y. Kita  
 $\mu$ -Oxo-Bridged Hypervalent Iodine(III) Compound as an Extreme Oxidant for Aqueous Oxidations  
*Synthesis*, **44**, 1183-1189 (2012).
501. H. Nemoto, K. Tanimoto, Y. Kanao, S. Omura, Y. Kita, S. Akai  
Protecting-Group-Free Catalytic Asymmetric Total Synthesis of (-)-Rosmarinecine  
*Tetrahedron*, **68**, 7295-7301 (2012).
502. T. Dohi, T. Kamitanaka, S. Watanabe, Y. Hu, N. Washimi, Y. Kita  
Efficient Synthesis of Oxygenated Terphenyls and Other Oligomers: Sequential Arylation Reactions through Phenol Oxidation-Rearomatization  
*Chem. Eur. J.*, **18**, 13614-13618 (2012).
503. H. Fujioka, K. Nakahara, N. Kotoku, Y. Ohba, Y. Nagatomi, T. L. Wang, Y. Sawama, K. Murai, K. Hirano, T. Oki, S. Wakamatsu, Y. Kita  
Asymmetric Total Synthesis of (-)-Stenine and 9 $\alpha$ -*epi*-Stenine  
*Chem. Eur. J.*, **18**, 13861-13870 (2012).
504. T. Dohi, Y. Hu, T. Kamitanaka, Y. Kita  
Controlled Couplings of Quinone Monoacetals Using Reusable Polystyrene-anchored Specific Proton Catalyst  
*Tetrahedron*, **68**, 8424-8430 (2012).
505. T. Dohi, T. Kamitanaka, E. Mochizuki, M. Ito, Y. Kita  
Speedy and Clean Hypervalent Iodine/Nitroxyl Radical Mediated Oxidation of Alcohols Using Recyclable Adamantane Reagent with Highly Active 2-Azaadamantane-*N*-oxyl Organocatalyst  
*Chem. Pharm. Bull.*, **60**, 1442-1447 (2012).
506. T. Dohi, M. Ito, S. Sekiguchi, Y. Ishikado, Y. Kita  
Hypervalent Iodine Induced Oxidative Cross Coupling *via* Thiophene Cation Radical Intermediate  
*Heterocycles*, **86**, 767-776 (2012). (Ei-ichi Negishi's Special Issue)

507. Y. Kita and T. Dohi  
Iodines Catalyzed Metal-Free Oxidative Coupling Reactions (*Japanese*)  
*Shokubai (Catalysts & Catalysis)*, **54**, 245-250, *Catalysis Society of Japan* (2012).
508. Y. Kita and H. Fujioka  
Marine Pyrroloiminoquinone Alkaloids  
*Top. Curr. Chem.*, **309** (*Alkaloid Synthesis*), 131-162, *Ed. by Hans-Joachim Knölker, Springer-Verlag Berlin Heidelberg* (2012).
509. Y. Sawama, Y. Shishido, T. Yanase, K. Kawamoto, R. Goto, Y. Monguchi, Y. Kita, H. Sajiki  
Efficient Generation of *ortho*-Naphthoquinone Methides from 1,4-Epoxy-1,4-dihydronaphthalenes and Their Annulation with Allyl Silanes  
*Angew. Chem. Int. Ed.*, **52**, 1515-1519 (2013).
510. T. Dohi, N. Yamaoka, S. Nakamura, K. Sumida, K. Morimoto, Y. Kita  
Efficient Synthesis of a Regioregular Oligothiophene Photovoltaic Dye Molecule, MK-2, and Related Compounds: A Cooperative Hypervalent Iodine and Metal-Catalyzed Synthetic Route  
*Chem. Eur. J.*, **19**, 2067-2075 (2013).
511. Y. Sawama, Y. Ogata, K. Kawamoto, H. Satake, K. Shibata, Y. Monguchi, H. Sajiki, Y. Kita  
Lewis Acid-Catalyzed Ring-Opening Functionalizations of 1,4-Epoxy-1,4-dihydronaphthalenes  
*Adv. Synth. Catal.*, **355**, 517-528 (2013).
512. K. Morimoto, T. Dohi and Y. Kita  
Oxidative Trimerization of Catechol to Hexahydroxytriphenylene  
*Eur. J. Org. Chem.*, 1659-1662 (2013).
513. T. Dohi, N. Takenaga, T. Nakae, Y. Toyoda, M. Yamasaki, M. Shiro, H. Fujioka, A. Maruyama, Y. Kita  
Asymmetric Dearomatizing Spirolactonization of Naphthols Catalyzed by Spirobiindane- Based Chiral Hypervalent Iodine Species  
*J. Am. Chem. Soc.*, **135**, 4558-4566 (2013).
514. A. Takagi, T. Ikawa, Y. Kurita, K. Saito, K. Azechi, M. Egi, Y. Itoh, H. Tokiwa, Y. Kita, S. Akai  
Generation of 3-Borylbenzynes, Their Regioselective Diels-Alder Reactions, and Theoretical Analysis  
*Tetrahedron*, **69**, 4338-4352 (2013).
515. Y. Hu, T. Kamitanaka, Y. Mishima, T. Dohi, Y. Kita  
Brønsted Acid-Controlled [3+2] Coupling Reaction of Quinone Monoacetals with Alkene Nucleophiles: A Catalytic System of Perfluorinated Acids and Hydrogen Bond Donor for the Construction of Benzofurans  
*J. Org. Chem.*, **78**, 5530-5543 (2013).
516. K. Morimoto, K. Sakamoto, Y. Ohnishi, T. Miyamoto, M. Ito, T. Dohi, Y. Kita  
Metal-Free Oxidative *para* Cross-Coupling of Phenols  
*Chem. Eur. J.*, **19**, 8726-8731 (2013).
517. M. Ito, H. Kubo, I. Itani, K. Morimoto, T. Dohi, Y. Kita  
Organocatalytic C-H/C-H' Cross-Biaryl Coupling: C-Selective Arylation of Sulfonanilides with Aromatic Hydrocarbons  
*J. Am. Chem. Soc.*, **135**, 14078-14081 (2013).
518. N. Yamaoka, K. Sumida, I. Itani, H. Kubo, Y. Ohnishi, S. Sekiguchi, T. Dohi, Y. Kita  
Single-Electron-Transfer (SET)-Induced Oxidative Biaryl Coupling by Polyalkoxybenzene-Derived Diaryliodonium(III) Salts  
*Chem. Eur. J.*, **19**, 15004-15011 (2013).

519. T. Dohi and Y. Kita  
Quinone Monoacetal Compounds in Application to Controlled Reactions with Nucleophiles  
*Quinones, Occurrence, Medicinal Uses and Physiological Importance*, 85-140,  
*Ed. by Ervin R. Price & Smith C. Johnson*,  
*Nova Science Publishers, Inc.*, ISBN: 978-1-62618-323-0 (2013).
520. Y. Kita and T. Dohi  
Hypervalent Iodines: Utilization as Rare Metal-Replacing Oxidants and Catalysts  
*CSJ Current Review (Japanese)*, **11**, 68-76, *Ed. by the Chemical Society of Japan*,  
*Kagaku-Dojin Publishing Co., Inc.*, ISBN: 9784759813715 (2013).
521. H. Fujioka and Y. Kita  
Marine Pyrroloiminoquinone Alkaloids, Makaluvamines and Discorhabdins, and Marine  
Pyrrole-Imidazole Alkaloids  
*Natural Products —Photochemistry, Botany and Metabolism of Alkaloids, Phenolics and  
Terpenes*, 251-283, *Ed. by Kishan Gopal Ramawat & Jean-Michel Mérillon*,  
*Springer-Verlag GmbH*, ISBN: 978-3-642-22143-9 (2013).
522. Y. Kita and K. Morimoto  
Control of Homo-Coupling Product Formation in Cross-Coupling Reactions Catalyst Design  
*Reaction Control Casebook (Japanese)*, Chap. 6, Sec. 5, 413-418,  
*Gijutsu Joho Kyokai (Technical Information Institute Co., Ltd.)*, (Tokyo) (2013).
523. S. Suzuki, T. Kamo, K. Fukushi, T. Hiramatsu, E. Tokunaga, T. Dohi, Y. Kita, N. Shibata  
Iodoarene-Catalyzed Fluorination and Aminofluorination by an  
Ar-I/HF·pyridine/*m*CPBA System  
*Chem. Sci.*, **5**, 2754-2760 (2014).
524. T. Dohi, E. Mochizuki, D. Yamashita, K. Miyazaki, Y. Kita  
Efficient Oxidative Spirolactamization by  $\mu$ -Oxo Bridged Heterocyclic Hypervalent Iodine  
Compound  
*Heterocycles*, **88**, 245-260 (2014). (Victor Snieckus's Special Issue)
525. H. Fujioka, T. Oki, T. Hayashi, M. Yamakawa, T. Kurachi, K. Nakahara, R. Maehata,  
T. Hamada, K. Murai, Y. Kita  
Selective Formation of *trans*/*threo*/*cis* and *cis*/*threo*/*cis* Bis-Tetrahydrofurans from the Same  
Diene Diols  
*Heterocycles*, **88**, 1323-1336 (2014). (Victor Snieckus's Special Issue)
526. T. Dohi and Y. Kita  
New Site-Selective Organoradical Based on Hypervalent Iodine Reagent for Controlled Alkane  
 $sp^3$  C-H Oxidations  
*ChemCatChem*, **6**, 76-78 (2014).
527. K. Morimoto, Y. Ohnishi, A. Nakamura, K. Sakamoto, T. Dohi, Y. Kita  
 $N^1$ -Selective Oxidative C-N Coupling of Azoles with Pyrroles Using a Hypervalent Iodine  
Reagent  
*Asian J. Org. Chem.*, **3**, 382-386 (2014).
528. Y. Kita and T. Dohi  
New Development of Hypervalent Iodine Reagent: Organoiodine-Catalyzed Oxidative Biaryl  
Coupling  
*Fine Chemical (Japanese)*, **43**, No. 6, 31-40 (2014).
529. T. Dohi and Y. Kita  
Hypervalent Iodine; Part I, Chap. 7, 103-157, Oxidizing Agents; Part III, Chap. 16, 277-301,  
Reaction of Iodo Compounds; Part III, Chap. 17, 303-327,  
*Iodine Chemistry and Application (English)*, *Ed. by Kaiho Tatsuo*,

*John Wiley & Sons, Inc.*, ISBN: 978-1-118-46629-2 (2014).

530. T. Dohi, Y. Toyoda, T. Nakae, D. Koseki, H. Kubo, T. Kamitanaka, Y. Kita  
Phenol and Aniline Oxidative Coupling with Alkenes by Using Hypervalent Iodine Dimer for the Rapid Access to Dihydrobenzofurans and Indolines  
*Heterocycles*, **90**, 631-644 (2015). (Isao Kuwajima's Special Issue)
531. T. Kajimoto, K. Morimoto, R. Ogawa, T. Dohi, Y. Kita  
Phenyl iodine Bis(trifluoroacetate) (PIFA) as an Excellent Promoter of 2-Deoxy-2-phthalimido-1-thioglycosides in the Presence of Triflic Acid in Glycosylation Reactions  
*Eur. J. Org. Chem.*, 2138-2142 (2015).
532. T. Dohi, T. Kamitanaka, H. Takamuro, Y. Mishima, N. Washimi, Y. Kita  
A New Arylation of Silyl Enol Ethers by Quinone Monoacetal Substitution  
*Tetrahedron Lett.*, **56**, 3046-3051 (2015).
533. S. Asai, Y. Yabe, R. Goto, S. Nagata, Y. Monguchi, Y. Kita, H. Sajiki, Y. Sawama  
Gold-Catalyzed Benzylic Azidation of Phthalans and Isochromans and Subsequent FeCl<sub>3</sub>-Catalyzed Nucleophilic Substitutions  
*Chem. Pharm. Bull.*, **63**, 757-761 (2015).
534. K. Morimoto, R. Ogawa, D. Koseki, Y. Takahashi, T. Dohi, Y. Kita  
Clean Synthesis of *N*-Pyrrolyl Azoles by Metal-Free Oxidative Cross-Coupling Using Recyclable Hypervalent Iodine Reagent  
*Chem. Pharm. Bull.*, **63**, 819-824 (2015).
535. Y. Kita and T. Dohi  
Pioneering Metal-Free Oxidative Coupling Strategy of Aromatic Compounds Using Hypervalent Iodine Reagents  
*Chem. Rec.*, **15**, 886-906 (2015).
536. T. Dohi and Y. Kita  
Hypervalent Iodine-Induced Oxidative Couplings (New Metal-Free Coupling Advances and Their Applications in Natural Product Syntheses)  
*Top. Curr. Chem.*, **373** (*Hypervalent Iodine Chemistry*), 1-24, Ed. by Thomas Wirth, Springer International Publishing Switzerland (2016).
537. T. Dohi and Y. Kita  
Metal-Free Oxidative Biaryl Coupling by Hypervalent Iodine Reagents  
*Curr. Org. Chem.*, **20**, 580-615 (2016).
538. K. Morimoto, Y. Ohnishi, D. Koseki, A. Nakamura, T. Dohi, Y. Kita  
Stabilized Pyrrolyl Iodonium Salts and Metal-Free Oxidative Cross-Coupling  
*Org. Biomol. Chem.*, **14**, 8947-8951 (2016).
539. K. Morimoto, K. Sakamoto, T. Ohshika, T. Dohi, Y. Kita  
Organo-Iodine(III)-Catalyzed Oxidative Phenol-Arene and Phenol-Phenol Cross-Coupling Reaction  
*Angew. Chem. Int. Ed.*, **55**, 3652-3656 (2016).
540. T. Kamitanaka, H. Takamuro, K. Shimizu, Y. Aramaki, T. Dohi, Y. Kita  
New Synthesis of Tetrahydrobenzodifurans by Iterative Coupling of Quinone Monoacetals with Alkene Nucleophiles  
*Heterocycles*, **93**, 295-309 (2016). (Lutz F. Tietze's Special Issue)
541. T. Kajimoto, K. Morimoto, R. Ogawa, T. Dohi, Y. Kita  
Glycosylation Reaction of *Thioglycosides* by Using Hypervalent Iodine(III) Reagent as an Excellent Promoter  
*Chem. Pharm. Bull.*, **64**, 838-844 (2016).

542. K. Morimoto, A. Nakamura, T. Dohi, Y. Kita  
Metal-Free Oxidative Cross-Coupling Reaction of Thiophene Iodonium Salts with Pyrroles  
*Eur. J. Org. Chem.*, 4294-4297 (2016).
543. Y. Sawama, M. Masuda, R. Nakatani, H. Yokoyama, Y. Monguchi, T. Dohi, Y. Kita, H. Sajiki  
Site-Selective Iron(III) Chloride-Catalyzed Arylation of 4-Aryl-4-methoxy-2,5-cyclohexadienones for the Synthesis of Polyarylated Phenols  
*Adv. Synth. Catal.*, **358**, 3683-3687 (2016).
544. T. Kamitanaka, K. Morimoto, K. Tsuboshima, D. Koseki, H. Takamuro, T. Dohi, Y. Kita  
Efficient Coupling Reaction of Quinone Monoacetal with Phenols Leading to Phenol Biaryls  
*Angew. Chem. Int. Ed.*, **55**, 15535-15538 (2016).
545. K. Morimoto, T. Dohi and Y. Kita  
Organo Iodine Catalyzed Oxidative Biaryl Coupling—Development for Selective Cross-Coupling of Phenols—  
*Fine Chemical (Japanese)*, **45**, No. 12, 7-15 (2016).
546. Y. Kita and T. Dohi  
Hypervalent Iodines: Utilization as Rare Metal-Replacing Oxidants and Catalysts  
*CSJ Current Review (Japanese)*, **22**, 157-166, *Ed. by the Chemical Society of Japan, Kagaku-Dojin Publishing Co., Inc.*, ISBN: 9784759813821 (2016).
547. T. Dohi, K. Morimoto and Y. Kita  
Basic Strategy of Aromatic Ring Oxidative Cross-Coupling Using Hypervalent Iodine Reagents  
*SIS Newsletter (Japanese)*, **17**, 2-10, *The Society of Iodine Science, Japan* (2016).
548. T. Dohi, S. Ueda, A. Hirai, Y. Kojima, K. Morimoto, Y. Kita  
Selective Aryl Radical Transfers into *N*-Heteroaromatics from Diaryliodonium Salts with Trimethoxybenzene Auxiliary  
*Heterocycles*, **95**, 1272-1284 (2017). (Masakatsu Shibasaki's Special Issue)
549. M. Ogasawara, H. Sasa, H. Hu, Y. Amano, H. Nakajima, N. Takenaga, K. Nakajima, Y. Kita, T. Takahashi, T. Dohi  
Atropisomeric Chiral Diiododienes (*Z,Z*)-2,3-Di(1-iodoalkylidene)tetralins: Synthesis, Enantiomeric Resolution, and Application in Asymmetric Catalysis  
*Org. Lett.*, **19**, 4102-4105 (2017).
550. K. Morimoto, T. Dohi and Y. Kita  
Metal-free Oxidative Cross-Coupling Reaction of Aromatic Compounds Containing Heteroatoms  
*Synlett*, **28**, 1680-1694 (2017). (Special Section, 26<sup>th</sup> ISHC Congress)
551. T. Dohi, D. Koseki, K. Sumida, K. Okada, S. Mizuno, A. Kato, K. Morimoto, Y. Kita  
Metal-Free *O*-Arylation of Carboxylic Acid by Active Diaryliodonium(III) Intermediates Generated *in situ* from Iodosoarenes  
*Adv. Synth. Catal.*, **359**, 3503-3508 (2017).
552. T. Dohi, H. Sasa, K. Miyazaki, M. Fujitake, N. Takenaga, Y. Kita  
Chiral Atropisomeric 8,8'-Diiodobinaphthalene for Asymmetric Dearomatizing Spirolactonizations in Hypervalent Iodine Oxidations  
*J. Org. Chem.*, **82**, 11954-11960 (2017). (Special Issue of Hypervalent Iodine Reagents)
553. K. Morimoto, D. Koseki, T. Dohi, Y. Kita  
Oxidative Biaryl Coupling of *N*-Aryl Anilines Using a Hypervalent Iodine(III) Reagent  
*Synlett*, **28**, 2941-2945 (2017). (Special Issue Dedicated to Professor Victor Snieckus)

554. T. Dohi, S. Ueda, K. Iwasaki, Y. Tsunoda, K. Morimoto, Y. Kita  
Selective Carboxylation of Reactive Benzylic C-H Bonds by a Hypervalent Iodine(III)/  
Inorganic Bromide Oxidation System  
*Beilstein J. Org. Chem.*, **14**, 1087-1094 (2018).
555. Y. Kita and T. Dohi  
Reaction of 3-Coordinate Iodine Compounds: *Up-to-date Chemistry and Technological  
Application for Iodine (Japanese)*, Chap. 15, 135-151, Ed. by Masataka Yokoyama,  
CMC Publishing Co., Ltd., ISBN: 978-4-7813-1222-4 (2018).
556. K. Morimoto, T. Kamitanaka, T. Dohi, Y. Kita  
Metal-Free Oxidative Cross-Coupling of Pyrroles with Electron-Rich Arenes Using Recyclable  
Hypervalent Iodine(III) Reagent  
*Heterocycles*, **97**, 632-645 (2018). (Kiyoshi Tomioka's Special Issue)
557. T. Dohi, H. Sasa, M. Dochi, C. Yasui, Y. Kita  
Oxidative Coupling of *N*-Methoxyamides and Related Compounds toward Aromatic  
Hydrocarbons by Designer  $\mu$ -Oxo Hypervalent Iodine Catalyst  
*Synthesis*, **51**, 1185-1195 (2019). (50 Years Synthesis- Golden Anniversary Issue)
558. K. Morimoto, K. Yanase, I. Odaka, Y. Kita, T. Kajimoto  
Environmentally-Benign Glycosylation Reaction Using Odorless *Thio*-Glycosides and  
Hypervalent Iodine(III) Reagent  
*Heterocycles*, **99**, 680-693 (2019). (Tohru Fukuyama's Special Issue)
559. D. Koseki, E. Aoto, T. Shoji, K. Watanabe, Y. In, Y. Kita, T. Dohi  
Efficient *N*-Arylation of Azole Compounds Utilizing Selective Aryl-Transfer TMP-  
Iodonium(III) Reagents  
*Tetrahedron Lett.*, **60**, 1281-1286 (2019).
560. T. Kamitanaka, K. Morimoto, T. Dohi, Y. Kita  
Controlled-Coupling of Quinone Monoacetals by New Activation Methods: Regioselective  
Synthesis of Phenol-Derived Compounds  
*Synlett*, **30**, 1125-1143 (2019). (Invited, Review)
561. T. Dohi, T. Hayashi, S. Ueda, T. Shoji, K. Komiyama, H. Takeuchi, Y. Kita  
Recyclable Synthesis of Mesityl Iodonium(III) Salts  
*Tetrahedron*, **75**, 3617-3627 (2019).
562. T. Dohi, K. Morimoto and Y. Kita  
Development of High Cycle and Catalytic Highly Active Hypervalent Iodine Reagents  
*ChemGrowing Anal & Organic (Japanese)*, **9**, Vol. 9, 2-5 (2019).
563. K. Morimoto, Y. Kita and T. Kajimoto  
Development of Glycosylation Reaction Using Hypervalent Iodine Reagents as Activators  
*Kagaku Kogyo*, **70**, 650-657 (2019).
564. T. Dohi and Y. Kita  
Oxidative C-C Bond Formation (Couplings, Cyclizations, Cyclopropanation, etc.)  
*The Chemistry of Hypervalent Halogen Compounds, Patai's Chemistry of Functional Groups*,  
Chap. 13, 581-665, Ed. by Berit Olofsson, Ilan Marek, Zvi Rappoport,  
John Wiley & Sons, Inc., ISBN: 978-1-119-35230-3 (2019).
565. T. Dohi, K. Komiyama, S. Ueda, N. Yamaoka, M. Ito, Y. Kita  
Benzylic Oxidation and Functionalizations of Xanthenes by Ligand Transfer Reactions of  
Hypervalent Iodine Reagents  
*Heterocycles*, **100**, 85-103 (2020). (The 100<sup>th</sup> Volume of Heterocycles)

566. K. Morimoto, K. Yanase, T. Ikeda, C. Uchikawa, Y. Kita, T. Kajimoto  
N-Glycosylation Reaction of *Thio*-Glycoside Using Hypervalent Iodine(III) Reagent  
*Heterocycles*, **101**, 621-630 (2020). (Kaoru Fuji's Special Issue)
567. K. Komiyama, S. Kobayashi, T. Shoji, K. Kikushima, T. Dohi, Y. Kita  
Practical Synthesis of Diaryliodonium(III) Triflates Using  $\text{ArI}(\text{OAc})_2/\text{TfOH}/\text{MeCN}$  Reaction  
System  
*Russ. Chem. Bull.*, **69**, 2328-2332 (2020). (150<sup>th</sup> Mendeleev Special Issue)
568. Y. Kita, S. Akai, H. Fujioka, T. Kamitanaka  
1-Alkoxyvinyl Ester as an Excellent Acyl Donor: Efficient Macrolactone Synthesis  
*J. Org. Chem. (Perspectives)*, **86**, 3683-3696 (2021).