

LIST OF PUBLICATIONS

1. "A Stereoselective Decarboxylation of 1,6-Dimethyl-3-(3'-indolyl)-methyl-3-carboxy-2,5-piperazinedione," Y. Kishi, S. Nakatsuka, and T. Fukuyama, *Tetrahedron Lett.*, **12**, 4657 (1971).
2. "New Epoxidation with *m*-Chloroperbenzoic Acid at Elevated Temperatures," Y. Kishi, M. Aratani, H. Tanino, T. Fukuyama, T. Goto, S. Inoue, S. Sugiura, and H. Kakoi, *J. Chem. Soc., Chem. Commun.*, 64 (1972).
3. "Synthetic Studies on Tetrodotoxin and Related Compounds. III. A Stereospecific Synthesis of an Equivalent of Acetylated Tetrodamine," Y. Kishi, M. Aratani, T. Fukuyama, F. Nakatsubo, T. Goto, S. Inoue, H. Tanino, S. Sugiura, and H. Kakoi, *J. Am. Chem. Soc.*, **94**, 9217 (1972).
4. "Synthetic Studies on Tetrodotoxin and Related Compounds. IV. Stereospecific Total Synthesis of *dl*-Tetrodotoxin," Y. Kishi, T. Fukuyama, M. Aratani, F. Nakatsubo, T. Goto, S. Inoue, H. Tanino, S. Sugiura, and H. Kakoi, *J. Am. Chem. Soc.*, **94**, 9219 (1972).
5. "A New Method for the Synthesis of Epidithiodiketopiperazines," Y. Kishi, T. Fukuyama, and S. Nakatsuka, *J. Am. Chem. Soc.*, **95**, 6490 (1973).
6. "A Total Synthesis of Dehydrogliotoxin," Y. Kishi, T. Fukuyama, and S. Nakatsuka, *J. Am. Chem. Soc.*, **95**, 6492 (1973).
7. "A Total Synthesis of *dl*-Sporidesmin A," Y. Kishi, S. Nakatsuka, T. Fukuyama, and M. Havel, *J. Am. Chem. Soc.*, **95**, 6493 (1973).
8. "A Total Synthesis of *dl*-Sporidesmin B," S. Nakatsuka, T. Fukuyama, and Y. Kishi, *Tetrahedron Lett.*, **15**, 1549 (1974).
9. "X-Ray Structure Determination of 3,6-*p*-Anisylidenedithio-3-ethyl-*N,N'*-dimethylpiperazine-2,5-dione," K. Sasaki, T. Fukuyama, S. Nakatsuka, and Y. Kishi, *J. Chem. Soc., Chem. Commun.*, 542 (1975).
10. "Synthetic Studies on Histrionicotoxins. I. A Stereocontrolled Synthesis of *dl*-Perhydrohistrionicotoxin," M. Aratani, L. V. Dunkerton, T. Fukuyama, Y. Kishi, H. Kakoi, S. Sugiura, and S. Inoue, *J. Org. Chem.*, **40**, 2009 (1975).
11. "Synthetic Studies on Histrionicotoxins. II. A Practical Synthetic Route to *dl*-Octahydrohistrionicotoxin," T. Fukuyama, L. V. Dunkerton, M. Aratani, and Y. Kishi, *J. Org. Chem.*, **40**, 2011 (1975).
12. "A New Synthesis of Epidithiapiperazinedione," T. Fukuyama, S. Nakatsuka, and Y. Kishi, *Tetrahedron Lett.*, **17**, 3393 (1976).
13. "A Total Synthesis of Gliotoxin," T. Fukuyama and Y. Kishi, *J. Am. Chem. Soc.*, **98**, 6723 (1976).
14. "Synthetic Studies toward Mitomycins. II. Total Synthesis of *dl*-Porfiromycin," F. Nakatsubo, T. Fukuyama, A. J. Cocuzza, and Y. Kishi, *J. Am. Chem. Soc.*, **99**, 8115 (1977).
15. "Synthetic Studies toward Mitomycins. III. Total Syntheses of Mitomycins A and C," T. Fukuyama, F. Nakatsubo, A. J. Cocuzza, and Y. Kishi, *Tetrahedron Lett.*, **18**, 4295 (1977).
16. "Synthetic Studies on Polyether Antibiotics. II. Stereocontrolled Syntheses of Epoxides of Bishomoallylic Alcohols," T. Fukuyama, B. Vranesic, D. P. Negri, and Y. Kishi, *Tetrahedron Lett.*, **19**, 2741 (1978).
17. "Total Synthesis of Monensin. 1. Stereocontrolled Synthesis of the Left Half of Monensin," G. Schmid, T. Fukuyama, K. Akasaka, and Y. Kishi, *J. Am. Chem. Soc.*, **101**, 259 (1979).
18. "Total Synthesis of Monensin. 2. Stereocontrolled Synthesis of the Right Half of Monensin," T. Fukuyama, C.-L. J. Wang, and Y. Kishi, *J. Am. Chem. Soc.*, **101**, 260 (1979).
19. "Total Synthesis of Monensin. 3. Stereocontrolled Total Synthesis of Monensin," T. Fukuyama, K. Akasaka, D. S. Karanewsky, C.-L. J. Wang, G. Schmid, and Y. Kishi, *J. Am. Chem. Soc.*, **101**, 262 (1979).

20. "Total Synthesis of *dl*-Antibiotic 593A," T. Fukuyama, R. K. Frank, and C. F. Jewell, Jr., *J. Am. Chem. Soc.*, **102**, 2122 (1980).
21. "Total Synthesis of Gliotoxin, Dehydrogliotoxin, and Hyalodendrin," T. Fukuyama, S. Nakatsuka, and Y. Kishi, *Tetrahedron*, **37**, 2045 (1981).
22. "Total Synthesis of *dl*-Methyl 3-(3-Isocyano-6-oxabicyclo[3.1.0]hex-2-en-5-yl)-2-propenoate," T. Fukuyama and Y. M. Yung, *Tetrahedron Lett.*, **22**, 3759 (1981).
23. "Synthetic Approach to Bicyclomycin: Synthesis of the Bicyclic System of Bicyclomycin," T. Fukuyama, B. D. Robins, and R. A. Sachleben, *Tetrahedron Lett.*, **22**, 4155 (1981).
24. "Stereocontrolled Total Synthesis of *dl*-Saframycin B," T. Fukuyama and R. A. Sachleben, *J. Am. Chem. Soc.*, **104**, 4957 (1982).
25. "Simple *N*-Protecting Groups for β -Lactam Synthesis," T. Fukuyama, A. A. Laird, and C. A. Schmidt, *Tetrahedron Lett.*, **25**, 4709 (1984).
26. "Synthetic Approach toward Naphthyridinomycin," T. Fukuyama, R. K. Frank, A. A. Laird, and G. A. Krudy, *Heterocycles*, **21**, 398 (1984).
27. "Synthesis of Unsymmetrically Substituted 2,5-Piperazinediones: Regioselective Alkylation of Piperazinedione Derivatives," T. Fukuyama, R. K. Frank, and A. A. Laird, *Tetrahedron Lett.*, **26**, 2955 (1985).
28. "*p*-Anisyl Group: A Versatile Protecting Group for Primary Alcohols," T. Fukuyama, A. A. Laird, and L. M. Hotchkiss, *Tetrahedron Lett.*, **26**, 6291 (1985).
29. "Synthetic Approaches toward Naphthyridinomycin. I. Stereoselective Synthesis of a Tetracyclic Intermediate," T. Fukuyama and A. A. Laird, *Tetrahedron Lett.*, **27**, 6173 (1986).
30. "Synthetic Approaches toward Mitomycins. I. Stereoselective Synthesis of a Tetracyclic Intermediate," T. Fukuyama and L. Yang, *Tetrahedron Lett.*, **27**, 6299 (1986).
31. "Stereocontrolled Total Synthesis of *dl*-Cyanocycline A," T. Fukuyama, L.-P. Li, A. A. Laird, and R. K. Frank, *J. Am. Chem. Soc.*, **109**, 1587 (1987).
32. "Total Synthesis of (\pm)-Mitomycins via Isomitomycin A," T. Fukuyama and L.-H. Yang, *J. Am. Chem. Soc.*, **109**, 7881 (1987).
33. "Synthetic Studies of Quinone Antitumor Antibiotics," T. Fukuyama, *J. Synth. Org. Chem., Jpn.*, **46**, 801 (1988).
34. "Stereocontrolled Total Synthesis of (\pm)-Quinocarcin," T. Fukuyama and J. J. Nunes, *J. Am. Chem. Soc.*, **110**, 5196 (1988).
35. "Practical Total Synthesis of (\pm)-Mitomycin C," T. Fukuyama and L.-H. Yang, *J. Am. Chem. Soc.*, **111**, 8303 (1989).
36. "Synthetic Approaches toward FR-900482. I. Stereoselective Synthesis of a Pentacyclic Model Compound," T. Fukuyama and S. Goto, *Tetrahedron Lett.*, **30**, 6491 (1989).
37. "Total Synthesis of (\pm)-Saframycin A," T. Fukuyama, L.-H. Yang, K. L. Ajeck, and R. A. Sachleben, *J. Am. Chem. Soc.*, **112**, 3712 (1990).
38. "Facile Reduction of Ethyl Thiol Esters to Aldehydes: Application to a Total Synthesis of (+)-Neothramycin A Methyl Ether," T. Fukuyama, S.-C. Lin, and L.-P. Li, *J. Am. Chem. Soc.*, **112**, 7050 (1990).
39. "Total Synthesis of (\pm)-Renieramycin A," T. Fukuyama, S. D. Linton, and M. M. Tun, *Tetrahedron Lett.*, **31**, 5989 (1990).
40. "Total Synthesis of (\pm)-FR-900482," T. Fukuyama, L. Xu, and S. Goto, *J. Am. Chem. Soc.*, **114**, 383 (1992).
41. "Synthetic Studies on Leinamycin. A Synthesis of the 1-Oxo-1,3-dithiolan-3-one Moiety," Y. Kanda, H. Saito, and T. Fukuyama, *Tetrahedron Lett.*, **33**, 5701 (1992).
42. "Synthesis of Naphthyridinomycin," in "Advances in Heterocyclic Natural Products Synthesis," T. Fukuyama, ed. by W. H. Pearson, JAI Press, 1992, pp. 189-249.

43. "Total Synthesis of Mitomycins," in "Studies in Natural Products Chemistry," T. Fukuyama and L. Yang, ed. by Atta-ur-Rahman, Elsevier, Amsterdam, 1993, pp. 433-472.
44. "Total Synthesis of (+)-Porothramycin B," T. Fukuyama, G. Liu, S. D. Linton, S.-C. Lin, and H. Nishino, *Tetrahedron Lett.*, **34**, 2577 (1993).
45. "Total Synthesis of (-)-Tantazole B," T. Fukuyama and L. Xu, *J. Am. Chem. Soc.*, **115**, 8449 (1993).
46. "Total Synthesis of (+)-Leinamycin," Y. Kanda and T. Fukuyama, *J. Am. Chem. Soc.*, **115**, 8451 (1993).
47. "Stereocontrolled Synthesis of (-)-Hapalindole G," T. Fukuyama and X. Chen, *J. Am. Chem. Soc.*, **116**, 3125 (1994).
48. "A Novel Tin-Mediated Indole Synthesis," T. Fukuyama, X. Chen, and G. Peng, *J. Am. Chem. Soc.*, **116**, 3127 (1994).
49. "Use of 1,1,1,3,3,3-Hexamethyldisilazane and *N,O*-Bis(trimethylsilyl)acetamide in Aromatic Claisen Rearrangement: An Efficient Method for Preventing Abnormal Claisen Rearrangement," T. Fukuyama, T. Li, and G. Peng, *Tetrahedron Lett.*, **35**, 2145 (1994).
50. "Total Synthesis of (+)-Leinamycin," T. Fukuyama and Y. Kanda, *J. Synth. Org. Chem., Jpn.*, **52**, 888 (1994).
51. "2- and 4-Nitrobenzenesulfonamides: Exceptionally Versatile Means for Preparation of Secondary Amines and Protection of Amines," T. Fukuyama, C.-K. Jow, and M. Cheung, *Tetrahedron Lett.*, **36**, 6373 (1995).
52. "Alkylation and Cross-Linking of DNA by the Unnatural Enantiomer of Mitomycin C: Mechanism of the DNA-Sequence Specificity of Mitomycins," D. Gargiulo, S. S. Musser, L. Yang, T. Fukuyama, and M. Tomasz, *J. Am. Chem. Soc.*, **117**, 9388 (1995).
53. "Stereoselective Intramolecular Michael Reaction of the 18-Membered α,β -Unsaturated Macrolactam: MM2 Transition Structure Models," H. Yamada, T. Takahashi, Y. Kanda, Y. Saitoh, and T. Fukuyama, *Heterocycles*, **43**, 267 (1996).
54. "Stereocontrolled Total Synthesis of (\pm)-Gelsemine," T. Fukuyama and G. Liu, *J. Am. Chem. Soc.*, **118**, 7426 (1996).
55. "Stereocontrolled Total Synthesis of (\pm)-Gelsemine," T. Fukuyama and G. Liu, *Pure Appl. Chem.*, **69**, 501 (1997).
56. "2,4-Dinitrobenzenesulfonamides: A Simple and Practical Method for the Preparation of a Variety of Secondary Amines and Diamines," T. Fukuyama, M. Cheung, C.-K. Jow, Y. Hidai, and T. Kan, *Tetrahedron Lett.*, **38**, 5831 (1997).
57. "2-(2-Aminophenyl)-acetaldehyde Dimethyl Acetal: A Novel Reagent for the Protection of Carboxylic Acids," E. Arai, H. Tokuyama, M. S. Linsell, and T. Fukuyama, *Tetrahedron Lett.*, **39**, 71 (1998).
58. "A Novel Ketone Synthesis by a Palladium-Catalyzed Reaction of Thiol Esters and Organozinc Reagents," H. Tokuyama, S. Yokoshima, T. Yamashita, and T. Fukuyama, *Tetrahedron Lett.*, **39**, 3189 (1998).
59. "Facile Palladium-Mediated Conversion of Ethanethiol Esters to Aldehydes and Ketones," H. Tokuyama, S. Yokoshima, T. Yamashita, S.-C. Lin, L. Li, and T. Fukuyama, *J. Braz. Chem. Soc.*, **9**, 381 (1998).
60. "Synthetic Studies on CP-225,917 and CP-263,114," N. Waizumi, T. Itoh, and T. Fukuyama, *Tetrahedron Lett.*, **39**, 6015 (1998).
61. "Development of a Novel Indole Synthesis and Its Application to Natural Products Synthesis," Y. Kobayashi and T. Fukuyama, *J. Heterocyclic Chem.*, **35**, 1043 (1998).
62. "Efficient Total Synthesis of (\pm)-Vincadiformine and (-)-Tabersonine," S. Kobayashi, G. Peng, and T. Fukuyama, *Tetrahedron Lett.*, **40**, 1519 (1999).
63. "Synthetic Study on Ecteinascidin 743 Starting from D-Glucose," A. Endoh, T. Kan, and T. Fukuyama, *Synlett*, 1103 (1999).

64. “*N*-Carboalkoxy-2-nitrobenzenesulfonamides: A Practical Preparation of *N*-Boc, *N*-Alloc-, and *N*-Cbz-Protected Primary Amines,” T. Fukuyama, M. Cheung, and T. Kan, *Synlett*, 1301 (1999).
65. “Radical Cyclization of 2-Alkenylthioanilides: A Novel Synthesis of 2,3-Disubstituted Indoles,” H. Tokuyama, T. Yamashita, M. T. Reding, Y. Kaburagi, and T. Fukuyama, *J. Am. Chem. Soc.*, **121**, 3791 (1999).
66. “Total Synthesis of Polyamine Toxin HO-416b Utilizing the 2-Nitrobenzenesulfonamide Protecting Group,” Y. Hidai, T. Kan, and T. Fukuyama, *Tetrahedron Lett.*, **40**, 4711 (1999).
67. “Stereocontrolled Total Synthesis of (+)-K252a,” Y. Kobayashi, T. Fujimoto, and T. Fukuyama, *J. Am. Chem. Soc.*, **121**, 6501 (1999).
68. “Stereocontrolled Total Synthesis of (±)-Catharanthine via Radical-Mediated Indole Formation,” M. T. Reding and T. Fukuyama, *Org. Lett.*, **1**, 973 (1999).
69. “Synthesis of 2,3-Disubstituted Indoles by Palladium-Mediated Coupling of 2-Iodoindoles,” H. Tokuyama, Y. Kaburagi, X. Chen, and T. Fukuyama, *Synthesis*, 429 (2000).
70. “An Efficient Total Synthesis of (–)-Vindoline,” S. Kobayashi, T. Ueda, and T. Fukuyama, *Synlett*, 883 (2000).
71. “Total Synthesis of (–)-CP-263,114 (Phomoidride B),” N. Waizumi, T. Itoh, and T. Fukuyama, *J. Am. Chem. Soc.*, **122**, 7825 (2000).
72. “Enantioselective Total Synthesis of (+)-Gelsemine: Determination of Its Absolute Configuration,” S. Yokoshima, H. Tokuyama, and T. Fukuyama, *Angew. Chem., Int. Ed.*, **39**, 4073 (2000).
73. “A Novel Transformation of Primary Amines to *N*-Monoalkylhydroxylamines,” H. Tokuyama, T. Kuboyama, A. Amano, T. Yamashita, and T. Fukuyama, *Synthesis*, 1299 (2000).
74. “Total Synthesis of Polyamine Toxin HO-416b and Agel-489 Using a 2-Nitrobenzenesulfonamide Strategy,” Y. Hidai, T. Kan, and T. Fukuyama, *Chem. Pharm. Bull.*, **48**, 1570 (2000).
75. “Total Synthesis of Lipogrammistin-A: Efficient Macrocyclization with 2-Nitrobenzenesulfonamide,” A. Fujiwara, T. Kan, and T. Fukuyama, *Synlett*, 1667 (2000).
76. “A Practical Route to Quinolines from Anilines,” H. Tokuyama, M. Sato, T. Ueda, and T. Fukuyama, *Heterocycles*, **54**, 105 (2001).
77. “Synthesis of Optically Active α -Arylglycines: Stereoselective Mannich-Type Reaction with a New Chiral Template,” S. Tohma, A. Endo, T. Kan, and T. Fukuyama, *Synlett*, 1179 (2001).
78. “A Novel Protocol for Construction of Indolylmethyl Group at Aldehydes or Ketones,” H. Tokuyama, M. Watanabe, Y. Hayashi, T. Kurokawa, G. Peng, and T. Fukuyama, *Synlett*, 1403 (2001).
79. “Intramolecular 1,3-Dipolar Cycloaddition Strategy for Enantioselective Synthesis of FR-900482 Analogues,” M. Kambe, E. Arai, M. Suzuki, H. Tokuyama, and T. Fukuyama, *Org. Lett.*, **3**, 2575 (2001).
80. “Highly Versatile Synthesis of Nitrogen-containing Compounds by Means of Nitrobenzene-Sulfonamides,” T. Kan and T. Fukuyama, *J. Synth. Org. Chem. Jpn.*, **59**, 779 (2001).
81. “One-Pot Claisen Rearrangement with *n*-Butyl Vinyl Ether,” H. Tokuyama, T. Makido, T. Ueda, and T. Fukuyama, *Synth. Commun.*, **32**, 869 (2002).
82. “Synthesis of 2,3-Disubstituted Indoles by Radical Cyclization with Hypophosphorous Acid and Its Application to Total Synthesis of (±)-Catharanthine,” M. T. Reding, Y. Kaburagi, H. Tokuyama, and T. Fukuyama, *Heterocycles*, **56**, 313 (2002).
83. “A Novel Oxidative Transformation of α -Aminonitriles to Amides,” S. Yokoshima, T. Kubo, H. Tokuyama, and T. Fukuyama, *Chem. Lett.*, 122 (2002).
84. “Indole Synthesis by Radical Cyclization of *o*-Alkenylphenyl Isocyanides and Its Application to Total Synthesis of Natural Products,” H. Tokuyama and T. Fukuyama, *Chem. Record*, **2**, 37 (2002).
85. “A Mild Copper-Mediated Intramolecular Amination of Aryl Halides,” K. Yamada, T. Kubo, H. Tokuyama, and T. Fukuyama, *Synlett*, 231 (2002).

86. "Stereocontrolled Total Synthesis of (+)-Vinblastine," S. Yokoshima, T. Ueda, S. Kobayashi, A. Sato, T. Kuboyama, H. Tokuyama, and T. Fukuyama, *J. Am. Chem. Soc.*, **124**, 2137 (2002).
87. "Efficient Synthesis of Medium-Sized Cyclic Amines by Means of 2-Nitrobenzenesulfonamide," T. Kan, H. Kobayashi, and T. Fukuyama, *Synlett*, 697 (2002).
88. "Total Synthesis of Ecteinascidin 743," A. Endo, A. Yanagisawa, M. Abe, S. Tohma, T. Kan, and T. Fukuyama, *J. Am. Chem. Soc.*, **124**, 6552 (2002).
89. "Reduction of Ethanethiol Esters to Aldehydes," H. Tokuyama, S. Yokoshima, S.-C. Lin, L. Li, and T. Fukuyama, *Synthesis*, 1121 (2002).
90. "Efficient Macrocyclization by Means of 2-Nitrobenzenesulfonamide and Total Synthesis of Lipogrammistin-A," T. Kan, A. Fujiwara, H. Kobayashi, and T. Fukuyama, *Tetrahedron*, **58**, 6267 (2002).
91. "Synthetic Approach to Tetrodotoxin," T. Itoh, M. Watanabe, and T. Fukuyama, *Synlett*, 1323 (2002).
92. "Highly Versatile Synthesis of Polyamines by the Ns-Strategy on a Novel Trityl Chloride Resin," T. Kan, H. Kobayashi, and T. Fukuyama, *Synlett*, 1338 (2002).
93. "Facile Construction of *N*-Hydroxybenzazocine: Enantioselective Total Synthesis of (+)-FR900482," M. Suzuki, M. Kambe, H. Tokuyama, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **41**, 4686 (2002).
94. "Preparation of Secondary Amines from Primary Amines via 2-Nitrobenzenesulfonamides: *N*-(4-Methoxybenzyl)-3-phenylpropylamine," W. Kurosawa, T. Kan, and T. Fukuyama, *Org. Synth.*, **79**, 186 (2002).
95. "Stereocontrolled Total Synthesis of (+)-Vinblastine," S. Yokoshima, T. Ueda, S. Kobayashi, A. Sato, T. Kuboyama, H. Tokuyama, and T. Fukuyama, *Pure Appl. Chem.*, **75**, 29 (2003).
96. "Total Synthesis of Leustroducsin B," K. Shimada, Y. Kaburagi, and T. Fukuyama, *J. Am. Chem. Soc.*, **125**, 4048 (2003).
97. "Stereoselective Formation of a β -Lactam Fused Oxathiazepin: A Synthetic Approach to Eudistomins," T. Yamashita, H. Tokuyama, and T. Fukuyama, *Synlett*, 738 (2003).
98. "Enantioselective Total Synthesis of Aspidophytine," S. Sumi, K. Matsumoto, H. Tokuyama, and T. Fukuyama, *Org. Lett.*, **5**, 1891 (2003).
99. "Total Synthesis of the Duocarmycins," K. Yamada, T. Kurokawa, H. Tokuyama, and T. Fukuyama, *J. Am. Chem. Soc.*, **125**, 6630 (2003).
100. "An Efficient Synthesis of Optically Active *trans*-2-Aryl-2,3-dihydrobenzofuran-3-carboxylic Acid Esters via C-H Insertion Reaction," W. Kurosawa, T. Kan, and T. Fukuyama, *Synlett*, 1028 (2003).
101. "A New Synthetic Route to Phomoidride B and Its Derivatives," Y. Hayashi, T. Itoh, and T. Fukuyama, *Org. Lett.*, **5**, 2235 (2003).
102. "Total Synthesis of Nitrogen-containing Natural Products and Development of Synthetic Methodology," T. Fukuyama, *J. Synth. Org. Chem., Jpn.*, **61**, 620 (2003).
103. "Stereocontrolled Total Synthesis of (-)-Ephedradine A (Orantine)," W. Kurosawa, T. Kan, and T. Fukuyama, *J. Am. Chem. Soc.*, **125**, 8112 (2003).
104. "A Novel Palladium-catalyzed Coupling of Thiol Esters with 1-Alkynes," H. Tokuyama, T. Miyazaki, S. Yokoshima, and T. Fukuyama, *Synlett*, 1512 (2003).
105. "Solid-phase Synthesis of Photoaffinity Probes: Highly Efficient Incorporation of Biotin-tag and Cross-linking Groups," T. Kan, Y. Tominari, Y. Morohashi, H. Natsugari, T. Tomita, T. Iwatsubo, and T. Fukuyama, *Chem. Commun.*, 2244 (2003).
106. "Stereocontrolled Total Synthesis of (-)-Aspidophytine," S. Sumi, K. Matsumoto, H. Tokuyama, and T. Fukuyama, *Tetrahedron*, **59**, 8571 (2003).
107. "Synthesis of Secondary Arylamines through Copper-mediated Intermolecular Aryl Amination," K. Okano, H. Tokuyama, and T. Fukuyama, *Org. Lett.*, **5**, 4987 (2003).

108. "Sulindac Sulfide is a Noncompetitive γ -Secretase Inhibitor that Preferentially Reduces A β 42 Generation," Y. Takahashi, I. Hayashi, Y. Tominari, K. Rikimaru, Y. Morohashi, T. Kan, H. Natsugari, T. Fukuyama, T. Tomita, and T. Iwatsubo, *J. Biol. Chem.*, **278**, 18664 (2003).
109. "Transformation of Primary Amines to *N*-Monoalkylhydroxylamines: *N*-Hydroxy-(*S*)-phenylethylamine Oxalate," H. Tokuyama, T. Kuboyama, and T. Fukuyama *Org. Synth.*, **80**, 207 (2003).
110. "A Versatile Synthesis of α -Amino Acid Derivatives via the Ugi Four-component Condensation with a Novel Convertible Isonitrile," K. Rikimaru, A. Yanagisawa, T. Kan, and T. Fukuyama, *Synlett*, 41 (2004).
111. "New Strategies: A Highly Versatile Synthetic Method for Amines," T. Kan and T. Fukuyama, *Chem. Commun.*, 353 (2004).
112. "Parallel Synthesis of DAPT Derivatives and Their γ -Secretase-Inhibitory Activity," T. Kan, Y. Tominari, K. Rikimaru, Y. Morohashi, H. Natsugari, T. Tomita, T. Iwatsubo, and T. Fukuyama, *Bioorg. Med. Chem. Lett.*, **14**, 1983 (2004).
113. "Highly Efficient Synthesis of Medium-Sized Lactams Via Intramolecular Staudinger-Aza-Wittig Reaction of ω -Azide Pentaphenyl Ester: Synthesis and Biological Evaluation of LY411575 Analogues," H. Fuwa, Y. Okamura, Y. Morohashi, T. Tomita, T. Iwatsubo, T. Kan, T. Fukuyama, and H. Natsugari, *Tetrahedron Lett.*, **45**, 2323 (2004).
114. "Presenilin-1 is a Molecular Target of a Dipeptidic γ -Secretase Inhibitor, DAPT," Y. Morohashi, Y. Tominari, N. Watanabe, T. Kan, H. Fuwa, H. Natsugari, T. Fukuyama, T. Tomita, and T. Iwatsubo, *Neurobiology of Aging*, **25**, s566 (2004).
115. "New Odorless Protocols for the Synthesis of Aldehydes and Ketones from Thiol Esters," T. Miyazaki, Y. Han-ya, H. Tokuyama, and T. Fukuyama, *Synlett*, 477 (2004).
116. "Stereoselective Nucleophilic Addition Reaction with a New Chiral Template and Its Application to Synthesis of Optically Active Arginine Derivatives," S. Tohma, K. Rikimaru, A. Endo, T. Kan, and T. Fukuyama, *Synthesis*, 909 (2004).
117. "4-(*t*-Butyldimethylsilyloxy)benzylidene Acetal: A Novel Benzylidene-type Protecting Group for 1,2-Diols," Y. Kaburagi, H. Osajima, K. Shimada, H. Tokuyama, and T. Fukuyama, *Tetrahedron Lett.*, **45**, 3817 (2004).
118. "Enantioselective Total Synthesis of FR900482," M. Suzuki, M. Kambe, H. Tokuyama, and T. Fukuyama, *J. Org. Chem.*, **69**, 2831 (2004).
119. "Stereocontrolled Total Synthesis of (+)-Vincristine," T. Kuboyama, S. Yokoshima, H. Tokuyama, and T. Fukuyama, *Proc. Natl. Acad. Sci. USA*, **101**, 11966 (2004).
120. "Total Synthesis of (-)-Ephedradine A (Orantine): An Efficient Construction of Optically Active Dihydrobenzofuran-ring via C-H Insertion Reaction," W. Kurosawa, H. Kobayashi, T. Kan, and T. Fukuyama, *Tetrahedron*, **60**, 9615 (2004).
121. "Stereocontrolled Total Synthesis of Potent Immunosuppressant FR901483," T. Kan, T. Fujimoto, Y. Asoh, S. Ieda, H. Kitaoka, and T. Fukuyama, *Org. Lett.*, **6**, 2729 (2004).
122. "Total Synthesis of (-)-Strychnine," Y. Kaburagi, H. Tokuyama, and T. Fukuyama, *J. Am. Chem. Soc.*, **126**, 10246 (2004).
123. "Synthetic Studies on (+)-Naphthyridinomycin: Stereoselective Synthesis of the Tetracyclic Core Framework," K. Mori, K. Rikimaru, T. Kan, and T. Fukuyama, *Org. Lett.*, **6**, 3095 (2004).
124. "Palladium-Mediated Synthesis of Aldehydes and Ketones from Thiol Esters," T. Fukuyama and H. Tokuyama, *Aldrichimica Acta*, **37**, 87 (2004).
125. "Synthetic Studies on (-)-Lemonomycin: Stereocontrolled Construction of the 3,8-Diazabicyclo[3.2.1] Skeleton," K. Rikimaru, K. Mori, T. Kan, and T. Fukuyama, *Chem. Commun.*, 394 (2005).
126. "Synthesis of 2,3-Dialkylindoles from 2-Alkenylphenylisocyanides and Imines by Silyltelluride- and Tin Hydride-Mediated Sequential Radical Reactions," M. Kotani, S. Yamago, A. Satoh, H. Tokuyama, and T. Fukuyama, *Synlett*, 1893 (2005).

127. "Synthesis of Tetrahydro- β -carbolines via Radical Cyclization of 2-Alkenylthioanilides," M. Iwadate, T. Yamashita, H. Tokuyama, and T. Fukuyama, *Heterocycles*, **66**, 241 (2005).
128. "Stereocontrolled Total Synthesis of (-)-Kainic Acid. Regio- and Stereoselective Lithiation of Pyrrolidine Ring with the (+)-Sparteine Surrogate," Y. Morita, H. Tokuyama, and T. Fukuyama, *Org. Lett.*, **7**, 4337 (2005).
129. "Stereocontrolled Total Synthesis of (-)-Eudistomin C," M. Yamashita, N. Kawai, H. Tokuyama, and T. Fukuyama, *J. Am. Chem. Soc.*, **127**, 15038 (2005).
130. "Synthesis of Chiral Cyclic Oligothiazolines: A Novel Structural Motif for a Macrocyclic Molecule," F.-S. Han, H. Osajima, M. Cheung, H. Tokuyama, and T. Fukuyama, *Chem. Commun.*, 1757 (2006).
131. "Total Synthesis of (\pm)-Morphine," K. Uchida, S. Yokoshima, T. Kan, and T. Fukuyama, *Org. Lett.*, **8**, 5311 (2006).
132. "Total Synthesis of (+)-Yatakemycin," K. Okano, H. Tokuyama, and T. Fukuyama, *J. Am. Chem. Soc.*, **128**, 7136 (2006).
133. "Novel γ -Secretase Inhibitors Discovered by Library Screening of In-house Synthetic Natural Product Intermediates," Y. Takahashi, H. Fuwa, A. Kaneko, M. Sasaki, S. Yokoshima, H. Koizumi, T. Takebe, T. Kan, T. Iwatsubo, T. Tomita, H. Natsugari, and T. Fukuyama, *Bioorg. Med. Chem. Lett.*, **16**, 3813 (2006).
134. "Synthesis of Biotinylated Photoaffinity Probes based on Arylsulfonamide γ -Secretase Inhibitors," H. Fuwa, K. Hiromoto, Y. Takahashi, S. Yokoshima, T. Kan, T. Fukuyama, T. Iwatsubo, T. Tomita, and H. Natsugari, *Bioorg. Med. Chem. Lett.*, **16**, 4184 (2006).
135. "C-Terminal Fragment of Presenilin is the Molecular Target of a Dipeptidic γ -Secretase-specific Inhibitor DAPT (N-[N-(3,5-Difluorophenacetyl)-L-alanyl]-S-phenylglycine *t*-Butyl Ester)," Y. Morohashi, T. Kan, Y. Tominari, H. Fuwa, Y. Okamura, N. Watanabe, C. Sato, H. Natsugari, T. Fukuyama, T. Iwatsubo, and T. Tomita, *J. Biol. Chem.*, **281**, 14670 (2006).
136. "A Novel Synthesis of Bicyclo[3.3.0]octane Ring System via a Desymmetric C-H Insertion Reaction," T. Kan, T. Inoue, Y. Kawamoto, M. Yonehara, and T. Fukuyama, *Synlett*, 1583 (2006).
137. "Synthetic Studies on Haplophytine: Protective Group Controlled Rearrangement," K. Matsumoto, H. Tokuyama, and T. Fukuyama, *Synlett*, 3137 (2007).
138. "A Versatile Synthesis of α -Amino Acid Derivatives via the Ugi Four-Component Condensation with a Novel Convertible Isonitrile," K. Rikimaru, A. Yanagisawa, T. Kan, and T. Fukuyama, *Heterocycles*, **73**, 403 (2007).
139. "Synthesis of (+)-Vinblastine and Its Analogues," T. Miyazaki, S. Yokoshima, S. Simizu, H. Osada, H. Tokuyama, and T. Fukuyama, *Org. Lett.*, **9**, 4737 (2007).
140. "Design and Synthesis of Thiazoline-Thiazole Hybrid Macrocycles Possessing Strong Binding Affinity to Pb^{2+} and Cd^{2+} ," F.-S. Han, H. Tokuyama, and T. Fukuyama, *Chem. Commun.*, 3444 (2007).
141. "Novel Structural Motifs Consisting of Chiral Thiazolines: Synthesis, Molecular Recognition, and Anticancer Activity," F.-S. Han, H. Osajima, M. Cheung, H. Tokuyama, and T. Fukuyama, *Chem. Eur. J.*, 3026 (2007).
142. "N,N'-Ditosylhydrazine: A Convenient Reagent for Facile Synthesis of Diazoacetates," T. Toma, J. Shimokawa, and T. Fukuyama, *Org. Lett.*, **9**, 3195 (2007).
143. "A Practical Synthesis of (-)-Oseltamivir," N. Satoh, T. Akiba, S. Yokoshima, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **46**, 5734 (2007).
144. "Divergent Synthesis of Multifunctional Molecular Probes Enabled Elucidation of the Enzyme Specificity of Dipeptidic γ -Secretase Inhibitors on Presenilin-Type Aspartic Proteases," H. Fuwa, Y. Takahashi, Y. Konno, N. Watanabe, H. Miyashita, M. Sasaki, H. Natsugari, T. Kan, T. Fukuyama, T. Tomita, and T. Iwatsubo, *ACS Chemical Biology*, **2**, 408 (2007).
145. "A Novel Indole Synthesis via Conjugate Addition of Pyrrolidine to *o*-Nitrophenylacetylenes," H. Tokuyama, T. Makido, Y. Han-ya, and T. Fukuyama, *Heterocycles*, **72**, 191 (2007).

146. "Total Syntheses of FR900482," H. Tokuyama, M. Suzuki, and T. Fukuyama, *J. Synth. Org. Chem. Jpn.*, **65**, 470 (2007).
147. "Convenient Synthesis of Photoaffinity Probes and Evaluation of Their Labeling Abilities," T. Kan, Y. Kita, Y. Morohashi, Y. Tominari, S. Hosoda, T. Tomita, H. Natsugari, T. Iwatsubo, and T. Fukuyama, *Org. Lett.*, **9**, 2055 (2007).
148. "Stereocontrolled Total Synthesis of (-)-Kainic Acid," H. Sakaguchi, H. Tokuyama, and T. Fukuyama, *Org. Lett.*, **9**, 1635 (2007).
149. "Total Synthesis of (+)-Yatakemycin," K. Okano, H. Tokuyama, and T. Fukuyama, *Chem. Asian J.*, **3**, 296 (2008).
150. "Total Synthesis of (-)-Serotobenine," Y. Koizumi, H. Kobayashi, T. Wakimoto, T. Furuta, T. Fukuyama, and T. Kan, *J. Am. Chem. Soc.*, **130**, 16854 (2008).
151. "A Mild Inter- and Intramolecular Amination of Aryl Halides with a Combination of CuI and CsOAc," T. Kubo, C. Katoh, K. Yamada, K. Okano, H. Tokuyama, and T. Fukuyama, *Tetrahedron*, **65**, 11230 (2008).
152. "Mild Debenzylation of Aryl Benzyl Ether with BCl₃ in the Presence of Pentamethylbenzene as a Non-Lewis-Basic Cation Scavenger," K. Okano, K. Okuyama, T. Fukuyama, and H. Tokuyama, *Synlett*, 1977 (2008).
153. "Synthetic Studies on (+)-Manzamine A: Stereoselective Synthesis of the Tetracyclic Core Framework," Y. Kita, T. Toma, T. Kan, and T. Fukuyama, *Org. Lett.*, **10**, 3251 (2008).
154. "(1-Nosyl-5-nitroindol-3-yl)methyl Ester: A Novel Protective Group for Carboxylic Acids," T. Nishimura, K. Yamada, T. Takebe, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **10**, 2601 (2008).
155. "Synthesis of Eudistomin C and E: Improved Preparation of the Indole Unit," H. Yamagishi, K. Matsumoto, K. Iwasaki, T. Miyazaki, S. Yokoshima, H. Tokuyama, and T. Fukuyama, *Org. Lett.*, **10**, 2369 (2008).
156. "A Simple Chiral Template for the Synthesis of Functionalized α -Arylglycine Derivatives," H. Nakata, T. Imai, S. Yokoshima, and T. Fukuyama, *Heterocycles*, **76**, 747 (2008).
157. "O-TBS-N-Tosylhydroxylamine: A Reagent for Facile Conversion of Alcohols to Oximes," K. Kitahara, T. Toma, J. Shimokawa, and T. Fukuyama, *Org. Lett.*, **10**, 2259 (2008).
158. "Total Synthesis of (-)-Kainic Acid via Intramolecular Michael Addition: A Second-Generation Route," H. Sakaguchi, H. Tokuyama, and T. Fukuyama, *Org. Lett.*, **10**, 1711 (2008).
159. "Oseltamivir Enhances Hippocampal Network Synchronization," A. Usami, T. Sasaki, N. Satoh, T. Akiba, S. Yokoshima, T. Fukuyama, K. Yamatsugu, M. Kanai, M. Shibasaki, N. Matsuki, and Y. Ikegaya, *J. Pharmacol. Sci.*, **106**, 659 (2008).
160. "Synthetic Studies on Altemicidin: Stereocontrolled Construction of the Core Framework," T. Kan, Y. Kawamoto, T. Asakawa, T. Furuta, and T. Fukuyama, *Org. Lett.*, **10**, 169 (2008).
161. "Tackling Alzheimer's Disease by means of Original Synthetic Methodologies in Organic Chemistry," T. Kan and T. Fukuyama, *J. Synth. Org. Chem. Jpn.*, **66**, 765 (2008).
162. "Palladium-catalyzed Coupling of N-Heteroaryl Sulfides with Organozinc Reagents," T. Koshihara, T. Miyazaki, H. Tokuyama, and T. Fukuyama, *Heterocycles*, **77**, 233 (2009).
163. "Total Synthesis of (\pm)-Morphine," K. Uchida, S. Yokoshima, T. Kan, and T. Fukuyama, *Heterocycles*, **77**, 1219 (2009).
164. "Synthetic Studies toward (+)-Lysergic Acid: Construction of the Tetracyclic Ergoline Skeleton," T. Inoue, S. Yokoshima, and T. Fukuyama, *Heterocycles*, **79**, 373 (2009).
165. "A Practical Synthesis of (-)-Oseltamivir," N. Satoh, T. Akiba, S. Yokoshima, and T. Fukuyama, *Tetrahedron*, **65**, 3239 (2009).
166. "Protection of Diols with p-(tert-Butyldimethylsilyloxy)benzylidene Acetal and Its Deprotection: (4-((4R,5R)-4,5-Diphenyl-1,3-dioxolan-2-yl)phenoxy)(tert-butyl)dimethylsilane," H. Osajima, H. Fujiwara, K. Okano, H. Tokuyama, and T. Fukuyama, *Org. Synth.*, **86**, 130 (2009).

167. "Synthesis of Lysergic Acid Methyl Ester via the Double Cyclization Strategy," T. Kurokawa, M. Isomura, H. Tokuyama, and T. Fukuyama, *Synlett*, 775 (2009).
168. "Total Synthesis of (-)-Huperzine A," T. Koshiba, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **11**, 5354 (2009).
169. "Development of Photoaffinity Probes for γ -Secretase Equipped with a Nitrobenzenesulfonamide-type Cleavable Linker," S. Yokoshima, Y. Abe, N. Watanabe, Y. Kita, T. Iwatsubo, T. Tomita, and T. Fukuyama, *Bioorg. Med. Chem. Lett.*, **19**, 6869 (2009).
170. "Stereocontrolled Total Synthesis of (\pm)-FR901483," S. Ieda, Y. Asoh, T. Fujimoto, H. Kitaoka, T. Kan, and T. Fukuyama, *Heterocycles*, **79**, 721 (2009).
171. "Total Synthesis of (+)-Haplophytine," H. Ueda, H. Satoh, K. Matsumoto, K. Sugimoto, H. Tokuyama, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **48**, 7600 (2009).
172. "Total Synthesis of (-)-Mersicarpine," R. Nakajima, T. Ogino, S. Yokoshima, and T. Fukuyama, *J. Am. Chem. Soc.*, **132**, 1236 (2010).
173. "Total Synthesis of (+)-Vinblastine: Control of the Stereochemistry at C18," S. Yokoshima, H. Tokuyama, and T. Fukuyama, *Chem. Rec.*, **10**, 101 (2010).
174. "Synthesis of the Optically Active Key Intermediate of FR901483," S. Ieda, T. Kan, and T. Fukuyama, *Tetrahedron Lett.*, **51**, 4027 (2010).
175. "Development of Photoaffinity Probes for gamma-Secretase Equipped with a Nitrobenzenesulfonamide-type Cleavable Linker," S. Yokoshima, Y. Abe, N. Watanabe, Y. Kita, T. Kan, T. Iwatsubo, T. Tomita, and T. Fukuyama, *Bioorg. Med. Chem. Lett.*, **20**, 1798 (2010).
176. "Total Synthesis of Dictyodendrin A and B," K. Okano, H. Fujiwara, T. Noji, T. Fukuyama, and H. Tokuyama, *Angew. Chem. Int. Ed.*, **49**, 5925 (2010).
177. "Total Synthesis of Tryprostatins A and B," T. Yamakawa, E. Ideue, J. Shimokawa, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **49**, 9262 (2010).
178. "Total Synthesis of (+)-Manzamine A," T. Toma, Y. Kita, and T. Fukuyama, *J. Am. Chem. Soc.*, **132**, 10232 (2010).
179. "Total Syntheses of Nitrogen-Containing Cyclic Natural Products Based on Aryl Amination," K. Okano, T. Fukuyama, and H. Tokuyama, *J. Syn. Org. Chem. Jpn.*, **68**, 1036 (2010).
180. "Total Synthesis of (-)-Morphine," H. Koizumi, S. Yokoshima, and T. Fukuyama, *Chem. Asian J.*, **5**, 2192 (2010).
181. "Concise Total Synthesis of (+)-Lyconadin A," T. Nishimura, S. Yokoshima, and T. Fukuyama, *J. Am. Chem. Soc.*, **133**, 418 (2011).
182. "Total Synthesis of Dictyodendrins A-E," H. Tokuyama, K. Okano, H. Fujiwara, T. Noji, and T. Fukuyama, *Chem. Asian J.*, **6**, 560 (2011).
183. "A Practical Synthesis of (-)-Kainic Acid," S. Takita, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **13**, 2068 (2011).
184. "Total Synthesis of (-)-Conophylline and (-)-Conophyllidine," Y. Han-ya, H. Tokuyama, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **50**, 4884 (2011).
185. "BACE1 Activity is Modulated by Cell-associated Sphingosine-1-phosphate," N. Takasugi, T. Sasaki, K. Suzuki, S. Osawa, H. Isshiki, Y. Hori, N. Shimada, T. Higo, S. Yokoshima, T. Fukuyama, T. Iwatsubo, and T. Tomita, *J. Neurosci.*, **31**, 6850 (2011).
186. "Total Synthesis of (-)-Salinosporamide A," N. Satoh, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **13**, 3028 (2011).
187. "Total Synthesis of (-)-Histrionicotoxin," Y. Adachi, N. Kamei, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **13**, 4446 (2011).
188. "Total Synthesis of Tryprostatin A and B," T. Yamakawa, E. Ideue, Y. Iwaki, A. Sato, H. Tokuyama, J. Shimokawa, and T. Fukuyama, *Tetrahedron*, **67**, 6547 (2011).

189. "Total Synthesis of Gelsemoxonine," J. Shimokawa, T. Harada, S. Yokoshima, and T. Fukuyama, *J. Am. Chem. Soc.*, **133**, 17634 (2011).
190. "Copper-mediated Aryl Amination: in situ Generation of an Active Copper(I) Species," T. Komori, N. Satoh, S. Yokoshima, and T. Fukuyama, *Synlett*, 1859 (2011).
191. "Phenylpiperidine-type γ -Secretase Modulators Target the Transmembrane Domain 1 of Presenilin 1," Y. Ohki, T. Higo, K. Uemura, N. Shimada, S. Osawa, O. Berezovska, S. Yokoshima, T. Fukuyama, T. Tomita, and T. Iwatsubo, *EMBO J.*, **30**, 4815 (2011).
192. "A practical synthesis of (-)-kainic acid," S. Takita, S. Yokoshima, and T. Fukuyama, *Synthesis*, 3848 (2011).
193. "Preparation of Horner-Wadsworth-Emmons Reagent: Methyl 2-Benzyloxycarbonylamino-2-(dimethoxy-phosphinyl)acetate," H. Azuma, K. Okano, T. Fukuyama, and H. Tokuyama, *Org. Synth.*, **88**, 152 (2011).
194. "An Intramolecular Amination of Aryl Halides with a Combination of Copper(I) Iodide and Cesium Acetate: Preparation of 5,6-Dimethoxyindole-1,2-dicarboxylic Acid 1-Benzyl Ester 2-Methyl Ester," T. Noji, K. Okano, T. Fukuyama, and H. Tokuyama, *Org. Synth.*, **88**, 388 (2011).
195. "Total Syntheses of All the Amathaspiramides," K. Chiyoda, J. Shimokawa, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **51**, 2505 (2012).
196. "Identification of Novel Deoxyribofuranosyl Indole Antimicrobial Agents," A. Paudel, H. Hamamoto, Y. Kobayashi, S. Yokoshima, T. Fukuyama, and K. Sekimizu, *J. Antibiot.*, **65**, 53 (2012).
197. "Total Synthesis of (-)-Anisatin," A. Ogura, K. Yamada, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **14**, 1632 (2012).
198. "A Practical Preparation of Highly Versatile N-Acylpyrroles from 2,4,4-Trimethoxybutan-1-amine," T. Maehara, R. Kanno, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **14**, 1946 (2012).
199. "Efficient Synthesis of Oxime Using *O*-TBS-*N*-Tosylhydroxylamine: Preparation of (2*Z*)-4(Benzyloxy)but-2-enal Oxime," K. Kitahara, T. Toma, J. Shimokawa, and T. Fukuyama, *Org. Synth.*, **89**, 480 (2012).
200. "Convenient Synthesis of α -Diazoacetates from α -Bromoacetates and *N,N'*-Ditosylhydrazine: Preparation of Benzyl Diazoacetate," E. Ideue, T. Toma, J. Shimokawa, and T. Fukuyama, *Org. Synth.*, **89**, 501 (2012).
201. "Total Synthesis of Gelsemoxonine," J. Shimokawa, T. Harada, S. Yokoshima, and T. Fukuyama, *Pure Appl. Chem.*, **84**, 1643 (2012).
202. "Synthetic Studies toward Ecteinascidin 743 (Trabectedin)," T. Imai, H. Nakata, S. Yokoshima, and T. Fukuyama, *Synthesis*, **44**, 2743 (2012).
203. "Total Synthesis of (-)-Isoschizogamine," Y. Miura, N. Hayashi, S. Yokoshima, and T. Fukuyama, *J. Am. Chem. Soc.*, **134**, 11995 (2012).
204. "Total Synthesis of (-)-Lemonomycin," A. Yoshida, M. Akaiwa, T. Asakawa, Y. Hamashima, S. Yokoshima, T. Fukuyama, and T. Kan, *Chem. Eur. J.*, **18**, 11192 (2012).
205. "Synthetic Studies on Chartelline C: Stereoselective Construction of the Core Skeleton," K. Iwasaki, R. Kanno, T. Morimoto, T. Yamashita, S. Yokoshima, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **51**, 9160 (2012).
206. "Total Synthesis of (-)-Lycoposerramine-S," N. Shimada, Y. Abe, S. Yokoshima, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **51**, 11824 (2012).
207. "Activity-Dependent Proteolytic Cleavage of Neurologigin-1" K. Suzuki, Y. Hayashi, S. Nakahara, H. Kumazaki, J. Prox, K. Horiuchi, M. Zeng, S. Tanimura, Y. Nishiyama, S. Osawa, A. Sehara-Fujisawa, P. Saftig, S. Yokoshima, T. Fukuyama, N. Matsuki, R. Koyama, T. Tomita, and T. Iwatsubo, *Neuron*, **76**, 410 (2012).
208. "Stereocontrolled Total Synthesis of (+)-UCS1025A," K. Uchida, T. Ogawa, Y. Yasuda, H. Mimura, T. Fujimoto, T. Fukuyama, T. Wakimoto, T. Asakawa, Y. Hamashima, and T. Kan, *Angew. Chem. Int. Ed.*, **51**, 12850 (2012).

209. "Stereocontrolled Total Synthesis of (-)-FR901483," S. Ieda, A. Masuda, M. Kariyama, T. Wakimoto, T. Asakawa, T. Fukuyama, and T. Kan, *Heterocycles*, **86**, 1071 (2012).
210. "Modified McFadyen-Stevens Reaction for a Versatile Synthesis of Aliphatic/Aromatic Aldehydes: Design, Optimization, and Mechanistic Investigations," Y. Iwai, T. Ozaki, R. Takita, M. Uchiyama, J. Shimokawa, and T. Fukuyama, *Chem. Sci.*, **4**, 1111 (2013).
211. "Effect of Helical Conformation and Side Chain Structure on γ -Secretase Inhibition by β -Peptide Foldamers: Insight into Substrate Recognition," Y. Imamura, N. Umezawa, S. Osawa, N. Shimada, T. Higo, S. Yokoshima, T. Fukuyama, T. Iwatsubo, N. Kato, and T. Tomita, *J. Med. Chem.*, **56**, 1443 (2013).
212. "2-Pyridone Synthesis Using 2-(Phenylsulfinyl)acetamide," M. Fujii, T. Nishimura, T. Koshiba, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **15**, 232 (2013).
213. "Total Syntheses of Lyconadins A-C," T. Nishimura, A. K. Unni, S. Yokoshima, and T. Fukuyama, *J. Am. Chem. Soc.*, **135**, 3243 (2013).
214. "Total Synthesis of Lysergic Acid," S. Umezaki, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **15**, 4230 (2013).
215. "Total Synthesis of Ecteinasidin 743," F. Kawagishi, T. Toma, T. Inui, S. Yokoshima, and T. Fukuyama, *J. Am. Chem. Soc.*, **135**, 13684 (2013).
216. "Binding of Longer A beta to Transmembrane Domain 1 of Presenilin 1 Impacts on A beta 42 Generation," Y. Ohki, N. Shimada, A. Tominaga, S. Osawa, T. Higo, S. Yokoshima, T. Fukuyama, T. Tomita, and T. Iwatsubo, *Mol. Neurodegener.*, **9**, 7 (2014).
217. "Stereoselective Synthesis of Spirotryprostatin A," K. Kitahara, J. Shimokawa, and T. Fukuyama, *Chem. Sci.*, **5**, 904 (2014).
218. "TMSCN/DBU-Mediated Facile Redox Transformation of α,β -Unsaturated Aldehydes to Carboxylic Acid Derivatives," H. Kaise, J. Shimokawa, and T. Fukuyama, *Org. Lett.*, **16**, 727 (2014).
219. "Development of a Route to Chiral Epidithiodioxopiperazine Moieties and Application to the Asymmetric Synthesis of (+)-Hyalodendrin," R. Takeuchi, J. Shimokawa, and T. Fukuyama, *Chem. Sci.*, **5**, 2003 (2014).
220. "Copper-mediated Aromatic Amination Reaction and Its Application to the Total Synthesis of Natural Products," K. Okano, H. Tokuyama, and T. Fukuyama, *Chem. Commun.*, **50**, 13650 (2014).
221. "Total Synthesis of (-)-Lepenine," Y. Nishiyama, Y. Han-ya, S. Yokoshima, and T. Fukuyama, *J. Am. Chem. Soc.*, **136**, 6598 (2014).
222. "Enantioselective Synthesis of SB-203207," Y. Hirooka, K. Ikeuchi, Y. Kawamoto, Y. Akao, T. Furuta, T. Asakawa, M. Inai, T. Wakimoto, T. Fukuyama, and T. Kan, *Org. Lett.*, **16**, 1646 (2014).
223. "New Photocleavable linker: α -Thioacetophenone-Type Linker," H. Yonezawa, Y. Nishiyama, K. Takeo, T. Iwatsubo, T. Tomita, S. Yokoshima, and T. Fukuyama, *Bioorg. Med. Chem. Lett.*, **24**, 2831 (2014).
224. "Total Synthesis of (-)-Lepistine," Y. Kitabayashi, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **16**, 2862 (2014).
225. "A Unified Strategy for Kainoid Synthesis," M. Fujii, S. Yokoshima, and T. Fukuyama, *Eur. J. Org. Chem.*, **2014**, 4823 (2014).
226. "Allosteric Regulation of γ -Secretase Activity by a Phenylimidazole-type γ -Secretase Modulator," K. Takeo, S. Tanimura, T. Shinoda, S. Osawa, I. K. Zahariev, N. Takegami, Y. Ishizuka-Katsura, N. Shinya, S. Takagi-Niidome, A. Tominaga, N. Ohsawa, T. Kimura-Someya, M. Shirouzu, S. Yokoshima, S. Yokoyama, T. Fukuyama, T. Tomita, and T. Iwatsubo, *Proc. Natl. Acad. Sci. USA*, **111**, 10544 (2014).
227. "Synthesis of (-)-Oxycodone," A. Kimishima, H. Umihara, A. Mizoguchi, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **16**, 6244 (2014).
228. "Synthetic Studies on Plakinidines," T. Komori, S. Yokoshima, and T. Fukuyama, *Synlett*, **26**, 1537 (2015).

229. "Formal Synthesis of Sarain A: Intramolecular Cycloaddition of an Eight-Membered Cyclic Nitrone to Construct the 2-Azabicyclo[3.3.1]nonane Framework," T. Higo, T. Ukegawa, S. Yokoshima, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **54**, 7367 (2015).
230. "Conversion of Ester Moieties to 4-Bromophenyl Groups via Electrocyclic Reaction of Dibromocyclopropanes," K. Ueda, H. Umihara, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **17**, 3191 (2015).
231. "Synthetic Studies on Huperzine R: Construction of the 1-Azabicyclo[5.4.3]tetradec-6-ene Core," H. Kumazaki, R. Nakajima, Y. Bessho, S. Yokoshima, and T. Fukuyama, *Synlett*, **26**, 2131 (2015).
232. "Synthesis of the Common Core Structure of the Stemofoline Alkaloids," E. Ideue, J. Shimokawa, and T. Fukuyama, *Org. Lett.*, **17**, 4964 (2015).
233. "Total Synthesis of Lycopalhine A," Y. Ochi, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **18**, 1494 (2016).
234. "Total Synthesis of (-)-Daphenylline," R. Yamada, Y. Adachi, S. Yokoshima, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **55**, 6067 (2016).
235. "Development of a Divergent Synthetic Route to the Erythrina Alkaloids: Asymmetric Syntheses of 8-Oxo-erythrinine, Crystamidine, 8-Oxo-erythraline, and Erythraline," H. Umihara, T. Yoshino, J. Shimokawa, M. Kitamura, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **55**, 6915 (2016).
236. "Total Synthesis of (-)-Cardiopetaline," Y. Nishiyama, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **18**, 2359 (2016).
237. "Conversion of Vindoline into 11-Mesyloxytabersonine," Y. Han-ya, T. Inui, S. Yokoshima, H. Tokuyama, and T. Fukuyama, *Chem. Pharm. Bull.*, **64**, 800 (2016).
238. "Antiproliferative Activity of Amathaspiramide Alkaloids and Analogs," J. Shimokawa, K. Chiyoda, H. Umihara, and T. Fukuyama, *Chem. Pharm. Bull.*, **64**, 1239 (2016).
239. "Unified Total Synthesis of Five Gelsedine-Type Alkaloids: (-)-Gelsenicine, (-)-Gelsedine, (-)-Gelsedilam, (-)-14-Hydroxygelsenicine, and (-)-14,15-Dihydroxygelsenicine," T. Harada, J. Shimokawa, and T. Fukuyama, *Org. Lett.*, **18**, 4622 (2016).
240. "Chemical Transformation of an Intermediate in the Synthesis of Huperzine A, Leading to a Diverse Array of Molecules," S. Yokoshima, M. Ishikawa, Y. Beniyama, and T. Fukuyama, *Chem. Pharm. Bull.*, **64**, 1528 (2016).
241. "Chemical Transformation of an Intermediate in the Synthesis of Huperzine A, Leading to a Diverse Array of Molecules," T. Miyagawa, I. Ebinuma, Y. Morohashi, Y. Hori, M. Y. Chang, H. Hattori, T. Maehara, S. Yokoshima, T. Fukuyama, S. Tsuji, T. Iwatsubo, Takeshi, G. C. Prendergast, and T. Tomita, *Hum. Mol. Genet.*, **25**, 2948 (2016).
242. "Morphological Evaluation of Nonlabelled Cells to Detect Stimulation of Nerve Growth Factor Expression by Lyconadin B," S. Kawai, H. Sasaki, N. Okada, K. Kanie, S. Yokoshima, T. Fukuyama, H. Honda, and R. Kato, *J. Biomol. Screen.*, **21**, 795 (2016).
243. "Eudistomin C, an Antitumor and Antiviral Natural Product, Targets 40S Ribosome and Inhibits Protein Translation," Y. Ota, T. Chinen, K. Yoshida, S. Kudo, Y. Nagumo, Y. Shiwa, R. Yamada, H. Umihara, K. Iwasaki, H. Masumoto, S. Yokoshima, H. Yoshikawa, T. Fukuyama, J. Kobayashi, and T. Usui, *ChemBioChem*, **17**, 1616 (2016).
244. "Enantioselective Total Synthesis of (+)-Hinckdentine A via a Catalytic Dearomatization Approach," K. Douki, H. Ono, T. Taniguchi, J. Shimokawa, M. Kitamura, and T. Fukuyama, *J. Am. Chem. Soc.*, **138**, 14578 (2016).
245. "Total Synthesis of Lycopalhine A," Y. Ochi, S. Yokoshima, and T. Fukuyama, *Synthesis*, **49**, 96 (2017).
246. "Total Synthesis of (-)-Tetrodotoxin and 11-norTTX-6(R)-ol," T. Maehara, K. Motoyama, T. Toma, S. Yokoshima, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **56**, 1549 (2017).
247. "Total Synthesis of (-)-Morphine," H. Umihara, S. Yokoshima, M. Inoue, and T. Fukuyama, *Chem. Eur. J.*, **23**, 6993 (2017).

248. "Total Syntheses of Aurachins A and B," H. Hattori, S. Yokoshima, and T. Fukuyama, *Angew. Chem. Int. Ed.*, **56**, 6980 (2017).
249. "High-throughput Screening of Small Molecule Inhibitors of the Streptococcus Quorum-Sensing Signal Pathway," S. Ishii, K. Fukui, S. Yokoshima, K. Kumagai, Y. Beniyama, T. Kodama, T. Fukuyama, T. Okabe, T. Nagano, H. Kojima, and T. Yano, *Scientific Reports*, **7**, 4029 (2017).
250. "Total Synthesis of Huperzine Q," S. Tanimura, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **19**, 3684 (2017).
251. "Synthesis of Cardiopetaline via a Wagner–Meerwein Rearrangement without Preactivation of the Pivotal Hydroxy Group," Y. Nishiyama, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **19**, 5833 (2017).
252. "Synthesis of (+)-Lysergic Acid," R. Kanno, S. Yokoshima, M. Kanai, and T. Fukuyama, *J. Antibiotics*, **71**, 240 (2018).
253. "Total Synthesis of Huperzine R," T. Nomura, S. Yokoshima, and T. Fukuyama, *Org. Lett.*, **20**, 119 (2018).
254. "Synthetic Studies of Haliclونin A: Construction of the 3-Azabicyclo[3.3.1]nonane Skeleton with a Bridge that Forms the 17-Membered Ring," K. Orihara, F. Kawagishi, S. Yokoshima, and T. Fukuyama, *Synlett*, **29**, 769 (2018).
255. "Synthesis of the [7-5-5] Tricyclic Core of Daphniphyllum Alkaloids," Y. Kitabayashi, T. Fukuyama, and S. Yokoshima, *Org. Biomol. Chem.*, **16**, 3556 (2018).
256. "Synthetic Studies of the Daphniphyllum Alkaloids: A Cooperative Reaction of Proximal Functional Groups Forming a Tetracyclic System," R. Yamada, T. Fukuyama, and S. Yokoshima, *Org. Lett.*, **20**, 4504 (2018).
257. "Total Synthesis of Lycoposerramine-R," S. Watanabe, M. Ishikawa, T. Nomura, T. Fukuyama, and S. Yokoshima, *Synlett*, **29**, 2377 (2018).
258. "Synthetic Studies of Isoschizogamine: Alternative Preparation of the Key Intermediate," N. Hayashi, Y. Miura, S. Yokoshima, and T. Fukuyama, *Chem. Pharm. Bull.*, **67**, 64 (2019).