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本領域における分担テーマ：

光化学的操作法を用いた化学反応回路の構築

主な研究成果・発表論文：

- 1) Critical Effect of Base Pairing of Target Pyrimidine on the Inter-strand Photo-cross-linking of DNA via 3-Cyanovinylcarbazole Nucleoside
Takashi Sakamoto; Minako Ooe; Kenzo Fujimoto*
Bioconjugate Chemistry, 2015, 26, 8, 1475 – 1478
- 2) Photo-cross-linking using trifluorothymidine and 3-cyanovinylcarbazole induced large shifted 19F MR signal
Shigetaka Nakamura; Kenzo Fujimoto*
Chemical Communications, 2015, 51, 11765 – 11768
- 3) DNA Photo-cross-linking using 3-Cyanovinylcarbazole Modified Oligonucleotide with Threoninol Linker
Takashi Sakamoto; Yuya Tanaka; Kenzo Fujimoto*
Organic Letters, 2015, 17, 4, 936 – 939
- 4) Photo-regulation of constitutive gene expression in living cells by using ultrafast photo-cross-linking oligonucleotides
Takashi Sakamoto; Atsuo Shigeno; Yuichi Ohtaki; Kenzo Fujimoto*
Biomaterials Science, 2014, 2, 9, 1154 – 1157
- 5) Creation of DNA Array Structure Equipped with heat resistance by Ultrafast Photocrosslinking
Shigetaka Nakamura; Kenzo Fujimoto*
Journal of Chemical Technology & Biotechnology, 2014, 89, 1086 – 1090
- 6) Details of the ultra-fast DNA photocrosslinking reaction of 3-cyanovinylcarbazole nucleoside; Application for SNP based genotyping
Kenzo Fujimoto*; Asuka Yamada; Yoshinaga Yoshimura; Tadashi Tsukaguchi; Takashi Sakamoto
J. Am. Chem. Soc., 2013, 135, 43, 16161 – 16167
- 7) Quick and Reversible Photocrosslinking Reaction of 3-Cyanovinylcarbazole Nucleoside in DNA Triplex
Kenzo Fujimoto*; Hiroki Yoshinaga; Yasumasa Yoshio; Takashi Sakamoto
Organic & Biomolecular Chemistry, 2013, 11, 5065 – 5068

一言(近況など)：