Name：Kenzo Fujimoto

Expertise： Nucleic Acids Chemistry

Affiliation： Japan Advanced Institute of Science and Technology

URL： http://www.jaist.ac.jp/ms/labs/fujimoto/fujimotohp/?lang=en

Reserch Theme in This Project：
Construction of chemical reaction circuits by using photochemical DNA manipulation

Main Research Results, Publications：

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

Recent Activities (hobbies, etc.)：