

References for Products 700 and 701

1. Ariola FS, Li Z, Cornejo C, Bittman R, Heikal AA. (2009) Membrane fluidity and lipid order in ternary giant unilamellar vesicles using a new bodipy-cholesterol derivative. *Biophys J*, 96, 2696.
2. Bandhuvula P, Li Z, Bittman R, Saba JD. (2009) Sphingosine 1-phosphate lyase enzyme assay using a BODIPY-labeled substrate. *Biochem Biophys Res Commun*, 380, 366.
3. Benniston AC, Copley G. (2009) Lighting the way ahead with boron dipyrromethene (Bodipy) dyes. *Phys Chem Chem Phys*, 11, 4124.
4. Buyukcakir O, Bozdemir OA, Kolemen S, Erbas S, Akkaya EU. (2009) Tetrasteryl-Bodipy Dyes: Convenient Synthesis and Characterization of Elusive Near IR Fluorophores. *Org Lett*.
5. Cakmak Y, Akkaya EU. (2009) Phenylethynyl-BODIPY oligomers: bright dyes and fluorescent building blocks. *Org Lett*, 11, 85.
6. Carlsen CU, Kurtmann L, Bruggemann DA, Hoff S, Risbo J, Skibsted LH. (2009) Investigation of oxidation in freeze-dried membranes using the fluorescent probe C11-BODIPY(581/591). *Cryobiology*.
7. Carlsen CU, Kurtmann L, Bruggemann DA, Hoff S, Risbo J, Skibsted LH. (2009) Investigation of oxidation in freeze-dried membranes using the fluorescent probe C11-BODIPY(581/591). *Cryobiology*, 58, 262.
8. Chen J, Mizumura M, Shinokubo H, Osuka A. (2009) Functionalization of boron dipyrin (BODIPY) dyes through iridium and rhodium catalysis: a complementary approach to alpha- and beta-substituted BODIPYs. *Chemistry*, 15, 5942.
9. Costela A, Garcia-Moreno I, Pintado-Sierra M, Amat-Guerri F, Sastre R, Liras M, Lopez Arbeloa F, BanuelosPrieto J, Lopez Arbeloa I. (2009) New analogues of the BODIPY dye PM597: photophysical and lasing properties in liquid solutions and in solid polymeric matrices. *J Phys Chem A*, 113, 8118.
10. Didier P, Ulrich G, Mely Y, Ziessel R. (2009) Improved push-pull-push E-Bodipy fluorophores for two-photon cell-imaging. *Org Biomol Chem*, 7, 3639.
11. Diring S, Puntoriero F, Nastasi F, Campagna S, Ziessel R. (2009) Star-shaped multichromophoric arrays from Bodipy dyes grafted on truxene core. *J Am Chem Soc*, 131, 6108.
12. Erbas S, Gorgulu A, Kocakusakogullari M, Akkaya EU. (2009) Non-covalent functionalized SWNTs as delivery agents for novel Bodipy-based potential PDT sensitizers. *Chem Commun (Camb)*, 4956.
13. Fu Y, Klonis N, Suarna C, Maghzal GJ, Stocker R, Tilley L. (2009) A phosphatidylcholine-BODIPY 581/591 conjugate allows mapping of oxidative stress in *P. falciparum*-infected erythrocytes. *Cytometry A*, 75, 390.
14. Guminski Y, Grousseau M, Cugnasse S, Brel V, Annereau JP, Vispe S, Guilbaud N, Barret JM, Bailly C, Imbert T. (2009) Synthesis of conjugated spermine derivatives with 7-nitrobenzoxadiazole (NBD), rhodamine and bodipy as new fluorescent probes for the polyamine transport system. *Bioorg Med Chem Lett*, 19, 2474.
15. Karsenty J, Helal O, de la Porte PL, Beauclair-Deprez P, Martin-Elyazidi C, Planells R, Storch J, Gastaldi M. (2009) I-FABP expression alters the intracellular distribution of the BODIPY C16 fatty acid analog. *Mol Cell Biochem*, 326, 97.
16. Khatchadourian A, Krumova K, Boridy S, Ngo AT, Maysinger D, Cosa G. (2009) Molecular imaging of lipid peroxyl radicals in living cells with a BODIPY-alpha-tocopherol adduct. *Biochemistry*, 48, 5658.
17. Lager E, Liu J, Aguilar-Aguilar A, Tang BZ, Pena-Cabrera E. (2009) Novel meso-Polyarylamine-BODIPY Hybrids: Synthesis and Study of Their Optical Properties. *J Org Chem*.
18. Lee HY, Bae DR, Park JC, Song H, Han WS, Jung JH. (2009) A selective fluoroionophore based on BODIPY-functionalized magnetic silica nanoparticles: removal of Pb²⁺ from human blood. *Angew Chem Int Ed Engl*, 48, 1239.

19. Lee JS, Kang NY, Kim YK, Samanta A, Feng S, Kim HK, Vendrell M, Park JH, Chang YT. (2009) Synthesis of a BODIPY library and its application to the development of live cell glucagon imaging probe. *J Am Chem Soc*, 131, 10077.
20. Leen V, Braeken E, Luckermans K, Jackers C, Van der Auweraer M, Boens N, Dehaen W. (2009) A versatile, modular synthesis of monofunctionalized BODIPY dyes. *Chem Commun (Camb)*, 4515.
21. Lemcke S, Honnscheidt C, Waschatko G, Bopp A, Lutjohann D, Bertram N, Gehrig-Burger K. (2009) DHEA-Bodipy-a functional fluorescent DHEA analog for live cell imaging. *Mol Cell Endocrinol*.
22. Liu JY, Ermilov EA, Roder B, Ng DK. (2009) Switching the photo-induced energy and electron-transfer processes in BODIPY-phthalocyanine conjugates. *Chem Commun (Camb)*, 1517.
23. Mikhalyov I, Gretskeya N, Johansson LB. (2009) Fluorescent BODIPY-labelled GM1 gangliosides designed for exploring lipid membrane properties and specific membrane-target interactions. *Chem Phys Lipids*, 159, 38.
24. Niu SL, Ulrich G, Ziessel R, Kiss A, Renard PY, Romieu A. (2009) Water-soluble BODIPY derivatives. *Org Lett*, 11, 2049.
25. Ojida A, Sakamoto T, Inoue MA, Fujishima SH, Lippens G, Hamachi I. (2009) Fluorescent BODIPY-based Zn(II) complex as a molecular probe for selective detection of neurofibrillary tangles in the brains of Alzheimer's disease patients. *J Am Chem Soc*, 131, 6543.
26. Ortega Ferrusola C, Gonzalez Fernandez L, Morrell JM, Salazar Sandoval C, Macias Garcia B, Rodriguez-Martinez H, Tapia JA, Pena FJ. (2009) Lipid peroxidation, assessed with BODIPY-C11, increases after cryopreservation of stallion spermatozoa, is stallion-dependent and is related to apoptotic-like changes. *Reproduction*, 138, 55.
27. Ozdemir T, Atilgan S, Kutuk I, Yildirim LT, Tulek A, Bayindir M, Akkaya EU. (2009) Solid-state emissive BODIPY dyes with bulky substituents as spacers. *Org Lett*, 11, 2105.
28. Raymer B, Kavana M, Price A, Wang B, Corcoran L, Kulathila R, Groarke J, Mann T. (2009) Synthesis and characterization of a BODIPY-labeled derivative of Soraphen A that binds to acetyl-CoA carboxylase. *Bioorg Med Chem Lett*, 19, 2804.
29. Rousseau T, Cravino A, Bura T, Ulrich G, Ziessel R, Roncali J. (2009) BODIPY derivatives as donor materials for bulk heterojunction solar cells. *Chem Commun (Camb)*, 1673.
30. Sakamoto T, Inoue MA, Ojida A, Hamachi I. (2009) Real-time fluorescence monitoring of GSK3 β -catalyzed phosphorylation by use of a BODIPY-based Zn(II)-Dpa chemosensor. *Bioorg Med Chem Lett*, 19, 4175.
31. Schmidt EY, Trofimov BA, Mikhaleva AI, Zorina NV, Protzuk NI, Petrushenko KB, Ushakov IA, Dvorko MY, Meallet-Renault R, Clavier G, Vu TT, Tran HT, Pansu RB. (2009) Synthesis and optical properties of 2-(benzo[b]thiophene-3-yl)pyrroles and a new BODIPY fluorophore (BODIPY = 4,4-difluoro-4-bora-3a,4a-diaza-s-indacene). *Chemistry*, 15, 5823.
32. Schmitt A, Hinkeldey B, Wild M, Jung G. (2009) Synthesis of the core compound of the BODIPY dye class: 4,4'-Difluoro-4-bora-(3a,4a)-diaza-s-indacene. *J Fluoresc*, 19, 755.
33. Sun ZN, Wang HL, Liu FQ, Chen Y, Tam PK, Yang D. (2009) BODIPY-based fluorescent probe for peroxynitrite detection and imaging in living cells. *Org Lett*, 11, 1887.
34. Talbot S, Theberge-Turmel P, Liazoghli D, Senecal J, Gaudreau P, Couture R. (2009) Cellular localization of kinin B1 receptor in the spinal cord of streptozotocin-diabetic rats with a fluorescent [N α -Bodipy]-des-Arg⁹-bradykinin. *J Neuroinflammation*, 6, 11.
35. Ziessel R, Allen BD, Rewinska DB, Harriman A. (2009) Selective triplet-state formation during charge recombination in a fullerene/Bodipy molecular dyad (Bodipy=borondipyrromethene). *Chemistry*, 15, 7382.
36. Alvarez M, Costela A, Garcia-Moreno I, Amat-Guerri F, Liras M, Sastre R, Lopez Arbeloa F, Banuelos Prieto J, Lopez Arbeloa I. (2008) Photophysical and laser emission studies of 8-polyphenylene-substituted BODIPY dyes in liquid solution and in solid polymeric matrices. *Photochem Photobiol Sci*, 7, 802.

37. Arnold LA, Ranaivo P, Guy RK. (2008) Synthesis and characterization of BODIPY-labeled colchicine. *Bioorg Med Chem Lett*, 18, 5867.
38. Atilgan S, Ozdemir T, Akkaya EU. (2008) A sensitive and selective ratiometric near IR fluorescent probe for zinc ions based on the distyryl-bodipy fluorophore. *Org Lett*, 10, 4065.
39. Banuelos J, Lopez Arbeloa F, Arbeloa T, Salleres S, Amat-Guerri F, Liras M, Lopez Arbeloa I. (2008) Photophysical study of new versatile multichromophoric diads and triads with BODIPY and polyphenylene groups. *J Phys Chem A*, 112, 10816.
40. Banuelos J, Lopez Arbeloa F, Arbeloa T, Salleres S, Vilas JL, Amat-Guerri F, Liras M, Lopez Arbeloa I. (2008) Photophysical characterization of new 3-amino and 3-acetamido BODIPY dyes with solvent sensitive properties. *J Fluoresc*, 18, 899.
41. Bonnier C, Piers WE, Parvez M, Sorensen TS. (2008) Boremium cations derived from BODIPY dyes. *Chem Commun (Camb)*, 4593.
42. Broring M, Kruger R, Link S, Kleeberg C, Kohler S, Xie X, Ventura B, Flamigni L. (2008) Bis(BF₂)-2,2'-bidipyrrins (BisBODIPYs): highly fluorescent BODIPY dimers with large Stokes shifts. *Chemistry*, 14, 2976.
43. Ehrenschwender T, Wanninger-Weiss C, Wagenknecht HA. (2008) BODIPY-modified uridines as potential fluorescent probes for nucleic acids that are recognized by DNA-polymerases. *Nucleic Acids Symp Ser (Oxf)*, 349.
44. Ekmekci Z, Yilmaz MD, Akkaya EU. (2008) A monostyryl-boradiazaindacene (BODIPY) derivative as colorimetric and fluorescent probe for cyanide ions. *Org Lett*, 10, 461.
45. Erten-Ela S, Yilmaz MD, Icli B, Dede Y, Icli S, Akkaya EU. (2008) A panchromatic boradiazaindacene (BODIPY) sensitizer for dye-sensitized solar cells. *Org Lett*, 10, 3299.
46. Feng J, Liang B, Wang D, Xue L, Li X. (2008) Novel fluorescent dyes with fused perylene tetracarboxylic diimide and BODIPY analogue structures. *Org Lett*, 10, 4437.
47. Hinkeldey B, Schmitt A, Jung G. (2008) Comparative photostability studies of BODIPY and fluorescein dyes by using fluorescence correlation spectroscopy. *Chemphyschem*, 9, 2019.
48. Holtta-Vuori M, Uronen RL, Repakova J, Salonen E, Vattulainen I, Panula P, Li Z, Bittman R, Ikonen E. (2008) BODIPY-cholesterol: a new tool to visualize sterol trafficking in living cells and organisms. *Traffic*, 9, 1839.
49. Hornillos V, Carrillo E, Rivas L, Amat-Guerri F, Acuna AU. (2008) Synthesis of BODIPY-labeled alkylphosphocholines with leishmanicidal activity, as fluorescent analogues of miltefosine. *Bioorg Med Chem Lett*, 18, 6336.
50. Hudnall TW, Gabbai FP. (2008) A BODIPY boronium cation for the sensing of fluoride ions. *Chem Commun (Camb)*, 4596.
51. Ikawa Y, Moriyama S, Furuta H. (2008) Facile syntheses of BODIPY derivatives for fluorescent labeling of the 3' and 5' ends of RNAs. *Anal Biochem*, 378, 166.
52. Li L, Han J, Nguyen B, Burgess K. (2008) Syntheses and spectral properties of functionalized, water-soluble BODIPY derivatives. *J Org Chem*, 73, 1963.
53. Li L, Nguyen B, Burgess K. (2008) Functionalization of the 4,4-difluoro-4-bora-3a,4a-diaza-s-indacene (BODIPY) core. *Bioorg Med Chem Lett*, 18, 3112.
54. Liu JY, Yeung HS, Xu W, Li X, Ng DK. (2008) Highly Efficient Energy Transfer in Subphthalocyanine-BODIPY Conjugates. *Org Lett*.
55. Marks DL, Bittman R, Pagano RE. (2008) Use of Bodipy-labeled sphingolipid and cholesterol analogs to examine membrane microdomains in cells. *Histochem Cell Biol*, 130, 819.
56. Musgrove A, Kell A, Bizzotto D. (2008) Fluorescence imaging of the oxidative desorption of a BODIPY-alkyl-thiol monolayer coated Au bead. *Langmuir*, 24, 7881.
57. Nagai A, Miyake J, Kokado K, Nagata Y, Chujo Y. (2008) Highly luminescent BODIPY-based organoboron polymer exhibiting supramolecular self-assemble structure. *J Am Chem Soc*, 130, 15276.
58. Qin W, Baruah M, Sliwa M, Van der Auweraer M, De Borggraeve WM, Beljonne D, Van Averbeke B, Boens N. (2008) Ratiometric, fluorescent BODIPY dye with aza crown ether functionality: synthesis, solvatochromism, and metal ion complex formation. *J Phys Chem A*, 112, 6104.

59. Sun ZN, Liu FQ, Chen Y, Tam PK, Yang D. (2008) A highly specific BODIPY-based fluorescent probe for the detection of hypochlorous acid. *Org Lett*, 10, 2171.
60. Ulrich G, Ziessel R, Harriman A. (2008) The chemistry of fluorescent bodipy dyes: versatility unsurpassed. *Angew Chem Int Ed Engl*, 47, 1184.
61. Verdoes M, Florea BI, Hillaert U, Willems LI, van der Linden WA, Sae-Heng M, Filippov DV, Kisselev AF, van der Marel GA, Overkleeft HS. (2008) Azido-BODIPY acid reveals quantitative Staudinger-Bertozzi ligation in two-step activity-based proteasome profiling. *Chembiochem*, 9, 1735.
62. Wanninger-Weiss C, Di Pasquale F, Ehrenschwender T, Marx A, Wagenknecht HA. (2008) Nucleotide insertion and bypass synthesis of pyrene- and BODIPY-modified oligonucleotides by DNA polymerases. *Chem Commun (Camb)*, 1443.
63. Wu L, Burgess K. (2008) A new synthesis of symmetric boraindacene (BODIPY) dyes. *Chem Commun (Camb)*, 4933.
64. Yamada Y, Tomiyama Y, Morita A, Ikekita M, Aoki S. (2008) BODIPY-based fluorescent redox potential sensors that utilize reversible redox properties of flavin. *Chembiochem*, 9, 853.
65. Zheng Q, Xu G, Prasad PN. (2008) Conformationally restricted dipyrromethene boron difluoride (BODIPY) dyes: highly fluorescent, multicolored probes for cellular imaging. *Chemistry*, 14, 5812.
66. Zrig S, Remy P, Andrioletti B, Rose E, Asselberghs I, Clays K. (2008) Engineering tuneable light-harvesting systems with oligothiophene donors and mono- or bis-bodipy acceptors. *J Org Chem*, 73, 1563.
67. Aitken RJ, Wingate JK, De Iulii GN, McLaughlin EA. (2007) Analysis of lipid peroxidation in human spermatozoa using BODIPY C11. *Mol Hum Reprod*, 13, 203.
68. Boldyrev IA, Zhai X, Momsen MM, Brockman HL, Brown RE, Molotkovsky JG. (2007) New BODIPY lipid probes for fluorescence studies of membranes. *J Lipid Res*, 48, 1518.
69. Camerel F, Ulrich G, Barbera J, Ziessel R. (2007) Ionic self-assembly of ammonium-based amphiphiles and negatively charged bodipy and porphyrin luminophores. *Chemistry*, 13, 2189.
70. Coban O, Burger M, Laliberte M, Ianoul A, Johnston LJ. (2007) Ganglioside partitioning and aggregation in phase-separated monolayers characterized by bodipy GM1 monomer/dimer emission. *Langmuir*, 23, 6704.
71. Guo C, Zhang R, Jiang L, Liu T. (2007) Investigation on the temperature effect of a mixed vesicle composed of polydiacetylene and BODIPY 558. *Colloids Surf B Biointerfaces*, 60, 41.
72. Harriman A, Mallon LJ, Goeb S, Ziessel R. (2007) A near-IR emitting bodipy-based dye fitted with ancillary light harvesting units. *Phys Chem Chem Phys*, 9, 5199.
73. Itoh N, Cao J, Chen ZH, Yoshida Y, Niki E. (2007) Advantages and limitation of BODIPY as a probe for the evaluation of lipid peroxidation and its inhibition by antioxidants in plasma. *Bioorg Med Chem Lett*, 17, 2059.
74. Liras M, Prieto JB, Pintado-Sierra M, Arbeloa FL, Garcia-Moreno I, Costela A, Infantes L, Sastre R, Amat-Guerri F. (2007) Synthesis, photophysical properties, and laser behavior of 3-amino and 3-acetamido BODIPY dyes. *Org Lett*, 9, 4183.
75. Liu XK, Hong Y. (2007) Q-priming PCR: a quantitative real-time PCR system using a self-quenched BODIPY FL-labeled primer. *Anal Biochem*, 360, 154.
76. Loudet A, Burgess K. (2007) BODIPY dyes and their derivatives: syntheses and spectroscopic properties. *Chem Rev*, 107, 4891.
77. MacDonald ML, Murray IV, Axelsen PH. (2007) Mass spectrometric analysis demonstrates that BODIPY 581/591 C11 overestimates and inhibits oxidative lipid damage. *Free Radic Biol Med*, 42, 1392.
78. Oleynik P, Ishihara Y, Cosa G. (2007) Design and synthesis of a BODIPY-alpha-tocopherol adduct for use as an off/on fluorescent antioxidant indicator. *J Am Chem Soc*, 129, 1842.
79. Omel'kov AV, Pavlova Iu B, Boldyrev IA, Molotkovskii Iu G. (2007) [Depth-dependent investigation of the apolar zone of lipid membranes using a series of fluorescent probes, Me4-BODIPY-8-labeled phosphatidylcholines]. *Bioorg Khim*, 33, 544.

80. Peters C, Billich A, Ghobrial M, Hogenauer K, Ullrich T, Nussbaumer P. (2007) Synthesis of borondipyrrromethene (BODIPY)-labeled sphingosine derivatives by cross-metathesis reaction. *J Org Chem*, 72, 1842.
81. Rohand T, Lycoops J, Smout S, Braeken E, Sliwa M, Van der Auweraer M, Dehaen W, De Borggraeve WM, Boens N. (2007) Photophysics of 3,5-diphenoxy substituted BODIPY dyes in solution. *Photochem Photobiol Sci*, 6, 1061.
82. Sunahara H, Urano Y, Kojima H, Nagano T. (2007) Design and synthesis of a library of BODIPY-based environmental polarity sensors utilizing photoinduced electron-transfer-controlled fluorescence ON/OFF switching. *J Am Chem Soc*, 129, 5597.
83. Thivierge C, Bandichhor R, Burgess K. (2007) Spectral dispersion and water solubilization of BODIPY dyes via palladium-catalyzed C-H functionalization. *Org Lett*, 9, 2135.
84. Thumser AE, Storch J. (2007) Characterization of a BODIPY-labeled fluorescent fatty acid analogue. Binding to fatty acid-binding proteins, intracellular localization, and metabolism. *Mol Cell Biochem*, 299, 67.
85. Verdoes M, Hillaert U, Florea BI, Sae-Heng M, Risseeuw MD, Filippov DV, van der Marel GA, Overkleeft HS. (2007) Acetylene functionalized BODIPY dyes and their application in the synthesis of activity based proteasome probes. *Bioorg Med Chem Lett*, 17, 6169.
86. Witte MD, Descals CV, de Lavoie SV, Florea BI, van der Marel GA, Overkleeft HS. (2007) Bodipy-VAD-Fmk, a useful tool to study yeast peptide N-glycanase activity. *Org Biomol Chem*, 5, 3690.
87. Bi L, Kim DH, Ju J. (2006) Design and synthesis of a chemically cleavable fluorescent nucleotide, 3'-O-allyl-dGTP-allyl-bodipy-FL-510, as a reversible terminator for DNA sequencing by synthesis. *J Am Chem Soc*, 128, 2542.
88. Boldytev IA, Molotkovskii IG. (2006) [A synthesis and properties of new 4,4-difluoro-3a,4a-diaza-s-indacene (BODIPY))-labeled lipids]. *Bioorg Khim*, 32, 87.
89. Gabe Y, Ueno T, Urano Y, Kojima H, Nagano T. (2006) Tunable design strategy for fluorescence probes based on 4-substituted BODIPY chromophore: improvement of highly sensitive fluorescence probe for nitric oxide. *Anal Bioanal Chem*, 386, 621.
90. Hama Y, Urano Y, Koyama Y, Choyke PL, Kobayashi H. (2006) Targeted optical imaging of cancer cells using lectin-binding BODIPY conjugated avidin. *Biochem Biophys Res Commun*, 348, 807.
91. Harriman A, Izzet G, Ziessel R. (2006) Rapid energy transfer in cascade-type bodipy dyes. *J Am Chem Soc*, 128, 10868.
92. Jang HG, Park M, Wishnok JS, Tannenbaum SR, Wogan GN. (2006) Hydroxyl-specific fluorescence labeling of ABP-deoxyguanosine, PhIP-deoxyguanosine, and AFB1-formamidopyrimidine with BODIPY-FL. *Anal Biochem*, 359, 151.
93. Li J, Kim IH, Roche ED, Beeman D, Lynch AS, Ding CZ, Ma Z. (2006) Design, synthesis, and biological evaluation of BODIPY-erythromycin probes for bacterial ribosomes. *Bioorg Med Chem Lett*, 16, 794.
94. Li Z, Mintzer E, Bittman R. (2006) First synthesis of free cholesterol-BODIPY conjugates. *J Org Chem*, 71, 1718.
95. Malatesti N, Hudson R, Smith K, Savoie H, Rix K, Welham K, Boyle RW. (2006) Isothiocyanato boron dipyrromethenes--the first BODIPY analogues of fluorescein isothiocyanate. *Photochem Photobiol*, 82, 746.
96. Marushchak D, Kalinin S, Mikhalyov I, Gretskeya N, LB AJ. (2006) Pyrromethene dyes (BODIPY) can form ground state homo and hetero dimers: photophysics and spectral properties. *Spectrochim Acta A Mol Biomol Spectrosc*, 65, 113.
97. Meng Q, Kim DH, Bai X, Bi L, Turro NJ, Ju J. (2006) Design and synthesis of a photocleavable fluorescent nucleotide 3'-O-allyl-dGTP-PC-Bodipy-FL-510 as a reversible terminator for DNA sequencing by synthesis. *J Org Chem*, 71, 3248.
98. Nicolescu AC, Li Q, Brown L, Thatcher GR. (2006) Nitroxidation, nitration, and oxidation of a BODIPY fluorophore by RNOS and ROS. *Nitric Oxide*, 15, 163.
99. Olofsson M, Kalinin S, Zdunek J, Oliveberg M, Johansson LB. (2006) Tryptophan-BODIPY: a versatile donor-acceptor pair for probing generic changes of intraprotein distances. *Phys Chem Chem Phys*, 8, 3130.

100. Qi X, Jun EJ, Xu L, Kim SJ, Hong JS, Yoon YJ, Yoon J. (2006) New BODIPY derivatives as OFF-ON fluorescent chemosensor and fluorescent chemodosimeter for Cu²⁺: cooperative selectivity enhancement toward Cu²⁺. *J Org Chem*, 71, 2881.
101. Rohand T, Baruah M, Qin W, Boens N, Dehaen W. (2006) Functionalisation of fluorescent BODIPY dyes by nucleophilic substitution. *Chem Commun (Camb)*, 266.
102. Yilmaz MD, Bozdemir OA, Akkaya EU. (2006) Light harvesting and efficient energy transfer in a boron-dipyrrin (BODIPY) functionalized peryleneimide derivative. *Org Lett*, 8, 2871.
103. Zhao W, Carreira EM. (2006) Conformationally restricted aza-BODIPY: highly fluorescent, stable near-infrared absorbing dyes. *Chemistry*, 12, 7254.
104. Baruah M, Qin W, Basaric N, De Borggraeve WM, Boens N. (2005) BODIPY-based hydroxyaryl derivatives as fluorescent pH probes. *J Org Chem*, 70, 4152.
105. Baruah M, Qin W, Vallee RA, Beljonne D, Rohand T, Dehaen W, Boens N. (2005) A highly potassium-selective ratiometric fluorescent indicator based on BODIPY azacrown ether excitable with visible light. *Org Lett*, 7, 4377.
106. Basaric N, Baruah M, Qin W, Metten B, Smet M, Dehaen W, Boens N. (2005) Synthesis and spectroscopic characterisation of BODIPY based fluorescent off-on indicators with low affinity for calcium. *Org Biomol Chem*, 3, 2755.
107. Cooper MS, Szeto DP, Sommers-Herivel G, Topczewski J, Solnica-Krezel L, Kang HC, Johnson I, Kimelman D. (2005) Visualizing morphogenesis in transgenic zebrafish embryos using BODIPY TR methyl ester dye as a vital counterstain for GFP. *Dev Dyn*, 232, 359.
108. Cornelius M, Worth CG, Kliem HC, Wiessler M, Schmeiser HH. (2005) Detection and separation of nucleoside-5'-monophosphates of DNA by conjugation with the fluorescent dye BODIPY and capillary electrophoresis with laser-induced fluorescence detection. *Electrophoresis*, 26, 2591.
109. Dumont Y, Gaudreau P, Mazzuferi M, Langlois D, Chabot JG, Fournier A, Simonato M, Quirion R. (2005) BODIPY-conjugated neuropeptide Y ligands: new fluorescent tools to tag Y1, Y2, Y4 and Y5 receptor subtypes. *Br J Pharmacol*, 146, 1069.
110. Qin W, Baruah M, Stefan A, Van der Auweraer M, Boens N. (2005) Photophysical properties of BODIPY-derived hydroxyaryl fluorescent pH probes in solution. *Chemphyschem*, 6, 2343.
111. Yogo T, Urano Y, Ishitsuka Y, Maniwa F, Nagano T. (2005) Highly efficient and photostable photosensitizer based on BODIPY chromophore. *J Am Chem Soc*, 127, 12162.
112. Zhao W, Carreira EM. (2005) Conformationally restricted aza-bodipy: a highly fluorescent, stable, near-infrared-absorbing dye. *Angew Chem Int Ed Engl*, 44, 1677.
113. Ziessel R, Goze C, Ulrich G, Cesario M, Retailleau P, Harriman A, Rostron JP. (2005) Intramolecular energy transfer in pyrene-bodipy molecular dyads and triads. *Chemistry*, 11, 7366.
114. Cook DJ, Kulbatski I, Tator CH. (2004) Inosine reverses the inhibitory effects of the L-type Ca²⁺ channel antagonist, DM-BODIPY-dihydropyridine, on neuritogenesis in an in vitro rat superior cervical ganglia axotomy model. *Neurosci Lett*, 358, 75.
115. De S, Robinson DH. (2004) Particle size and temperature effect on the physical stability of PLGA nanospheres and microspheres containing Bodipy. *AAPS PharmSciTech*, 5, e53.
116. Drummen GP, Gadella BM, Post JA, Brouwers JF. (2004) Mass spectrometric characterization of the oxidation of the fluorescent lipid peroxidation reporter molecule C11-BODIPY(581/591). *Free Radic Biol Med*, 36, 1635.
117. Drummen GP, Makkinje M, Verkleij AJ, Op den Kamp JA, Post JA. (2004) Attenuation of lipid peroxidation by antioxidants in rat-1 fibroblasts: comparison of the lipid peroxidation reporter molecules cis-parinaric acid and C11-BODIPY(581/591) in a biological setting. *Biochim Biophys Acta*, 1636, 136.
118. Koutaka H, Kosuge J, Fukasaku N, Hirano T, Kikuchi K, Urano Y, Kojima H, Nagano T. (2004) A novel fluorescent probe for zinc ion based on boron dipyrromethene (BODIPY) chromophore. *Chem Pharm Bull (Tokyo)*, 52, 700.

119. Lv ZZ, Xu M, Zhang YY. (2004) [Synthesis of BODIPY-FL-labeled phenylephrine and the determination of its biological activity.]. *Beijing Da Xue Xue Bao*, 36, 623.
120. Rosati A, Candussio L, Crivellato E, Klugmann FB, Giraldi T, Damiani D, Michelutti A, Decorti G. (2004) Bodipy-FL-verapamil: a fluorescent probe for the study of multidrug resistance proteins. *Cell Oncol*, 26, 3.
121. Rosconi MP, Zhao G, London E. (2004) Analyzing topography of membrane-inserted diphtheria toxin T domain using BODIPY-streptavidin: at low pH, helices 8 and 9 form a transmembrane hairpin but helices 5-7 form stable nonclassical inserted segments on the cis side of the bilayer. *Biochemistry*, 43, 9127.
122. Baker JG, Hall IP, Hill SJ. (2003) Pharmacology and direct visualisation of BODIPY-TMR-CGP: a long-acting fluorescent beta2-adrenoceptor agonist. *Br J Pharmacol*, 139, 232.
123. Gee KR, Rukavishnikov A, Rothe A. (2003) New Ca²⁺ fluoroionophores based on the BODIPY fluorophore. *Comb Chem High Throughput Screen*, 6, 363.
124. Gille A, Seifert R. (2003) Low-affinity interactions of BODIPY-FL-GTPgammaS and BODIPY-FL-GppNHp with G(i)- and G(s)-proteins. *Naunyn Schmiedebergs Arch Pharmacol*, 368, 210.
125. Mikhalev, II, Molotkovskii Iu G. (2003) [Synthesis and characteristics of fluorescent BODIPY-labeled gangliosides]. *Bioorg Khim*, 29, 190.
126. Snyder DS, Garon CF. (2003) Decreased uptake of bodipy-labelled compounds in the presence of the nuclear stain, DRAQ5. *J Microsc*, 211, 208.
127. Vo-Hoang Y, Micouin L, Ronet C, Gachelin G, Bonin M. (2003) Total enantioselective synthesis and in vivo biological evaluation of a novel fluorescent BODIPY alpha-galactosylceramide. *Chembiochem*, 4, 27.
128. Wan CW, Burghart A, Chen J, Bergstrom F, Johansson LB, Wolford MF, Kim TG, Topp MR, Hochstrasser RM, Burgess K. (2003) Anthracene-BODIPY cassettes: syntheses and energy transfer. *Chemistry*, 9, 4430.
129. Yoshida Y, Shimakawa S, Itoh N, Niki E. (2003) Action of DCFH and BODIPY as a probe for radical oxidation in hydrophilic and lipophilic domain. *Free Radic Res*, 37, 861.
130. Bergstrom F, Mikhalyov I, Hagglof P, Wortmann R, Ny T, Johansson LB. (2002) Dimers of dipyrrometheneboron difluoride (BODIPY) with light spectroscopic applications in chemistry and biology. *J Am Chem Soc*, 124, 196.
131. Crivellato E, Candussio L, Rosati AM, Bartoli-Klugmann F, Mallardi F, Decorti G. (2002) The fluorescent probe Bodipy-FL-verapamil is a substrate for both P-glycoprotein and multidrug resistance-related protein (MRP)-1. *J Histochem Cytochem*, 50, 731.
132. Dahim M, Mizuno NK, Li XM, Momsen WE, Momsen MM, Brockman HL. (2002) Physical and photophysical characterization of a BODIPY phosphatidylcholine as a membrane probe. *Biophys J*, 83, 1511.
133. Drummen GP, van Liebergen LC, Op den Kamp JA, Post JA. (2002) C11-BODIPY(581/591), an oxidation-sensitive fluorescent lipid peroxidation probe: (micro)spectroscopic characterization and validation of methodology. *Free Radic Biol Med*, 33, 473.
134. Martin K, Hart C, Schulenberg B, Jones L, Patton WF. (2002) Simultaneous red/green dual fluorescence detection on electroblots using BODIPY TR-X succinimidyl ester and ELF 39 phosphate. *Proteomics*, 2, 499.
135. Soulet D, Covassin L, Kaouass M, Charest-Gaudreault R, Audette M, Poulin R. (2002) Role of endocytosis in the internalization of spermidine-C(2)-BODIPY, a highly fluorescent probe of polyamine transport. *Biochem J*, 367, 347.
136. Sugawara T, Hirasawa A, Hashimoto K, Tsujimoto G. (2002) Differences in the subcellular localization of alpha1-adrenoceptor subtypes can affect the subtype selectivity of drugs in a study with the fluorescent ligand BODIPY FL-prazosin. *Life Sci*, 70, 2113.
137. Kurata S, Kanagawa T, Yamada K, Torimura M, Yokomaku T, Kamagata Y, Kurane R. (2001) Fluorescent quenching-based quantitative detection of specific DNA/RNA using a BODIPY((R)) FL-labeled probe or primer. *Nucleic Acids Res*, 29, E34.
138. McEwen DP, Gee KR, Kang HC, Neubig RR. (2001) Fluorescent BODIPY-GTP analogs: real-time measurement of nucleotide binding to G proteins. *Anal Biochem*, 291, 109.

139. Chen CS, Chen WN, Zhou M, Arttamangkul S, Haugland RP. (2000) Probing the cathepsin D using a BODIPY FL-pepstatin A: applications in fluorescence polarization and microscopy. *J Biochem Biophys Methods*, 42, 137.
140. Chen J, Burghart A, Derecskei-Kovacs A, Burgess K. (2000) 4,4-Difluoro-4-bora-3a,4a-diaza-s-indacene (BODIPY) dyes modified for extended conjugation and restricted bond rotations. *J Org Chem*, 65, 2900.
141. Cole L, Davies D, Hyde GJ, Ashford AE. (2000) ER-Tracker dye and BODIPY-brefeldin A differentiate the endoplasmic reticulum and golgi bodies from the tubular-vacuole system in living hyphae of *Pisolithus tinctorius*. *J Microsc*, 197, 239.
142. Das AR, Cilento EV, Keane MJ, Wallace WE. (2000) Intracellular surfactant removal from phagocytized minerals: development of a fluorescent method using a BODIPY-labeled phospholipid. *Inhal Toxicol*, 12, 765.
143. Pagano RE, Watanabe R, Wheatley C, Dominguez M. (2000) Applications of BODIPY-sphingolipid analogs to study lipid traffic and metabolism in cells. *Methods Enzymol*, 312, 523.
144. Thompson VF, Saldana S, Cong J, Goll DE. (2000) A BODIPY fluorescent microplate assay for measuring activity of calpains and other proteases. *Anal Biochem*, 279, 170.
145. Brubaker KD, Mao F, Gay CV. (1999) Localization of carbonic anhydrase in living osteoclasts with bodipy 558/568-modified acetazolamide, a thiadiazole carbonic anhydrase inhibitor. *J Histochem Cytochem*, 47, 545.
146. Hendrickson HS, Hendrickson EK, Johnson ID, Farber SA. (1999) Intramolecularly quenched BODIPY-labeled phospholipid analogs in phospholipase A(2) and platelet-activating factor acetylhydrolase assays and in vivo fluorescence imaging. *Anal Biochem*, 276, 27.
147. Nicol F, Nir S, Szoka FC, Jr. (1999) Orientation of the pore-forming peptide GALA in POPC vesicles determined by a BODIPY-avidin/biotin binding assay. *Biophys J*, 76, 2121.
148. Pap EH, Drummen GP, Winter VJ, Kooij TW, Rijken P, Wirtz KW, Op den Kamp JA, Hage WJ, Post JA. (1999) Ratio-fluorescence microscopy of lipid oxidation in living cells using C11-BODIPY(581/591). *FEBS Lett*, 453, 278.
149. Da Poian AT, Gomes AM, Coelho-Sampaio T. (1998) Kinetics of intracellular viral disassembly and processing probed by Bodipy fluorescence dequenching. *J Virol Methods*, 70, 45.
150. Kaiser RD, London E. (1998) Determination of the depth of BODIPY probes in model membranes by parallax analysis of fluorescence quenching. *Biochim Biophys Acta*, 1375, 13.
151. Liu CY, Zhang H, Christofi FL. (1998) Adenylyl cyclase co-distribution with the CaBPs, calbindin-D28 and calretinin, varies with cell type: assessment with the fluorescent dye, BODIPY forskolin, in enteric ganglia. *Cell Tissue Res*, 293, 57.
152. Metzker ML, Ansari-Lari MA, Liu XM, Holder DJ, Gibbs RA. (1998) Quantitation of mixed-base populations of HIV-1 variants by automated DNA sequencing with BODIPY dye-labeled primers. *Biotechniques*, 25, 446.
153. Muzny DM, Metzker ML, Bouck J, Gorrell JH, Ding Y, Maxim E, Gibbs RA. (1998) Using BODIPY dye-primer chemistry in large-scale sequencing. *IEEE Eng Med Biol Mag*, 17, 88.
154. Pagano RE, Chen CS. (1998) Use of BODIPY-labeled sphingolipids to study membrane traffic along the endocytic pathway. *Ann N Y Acad Sci*, 845, 152.
155. Bai J, Pagano RE. (1997) Measurement of spontaneous transfer and transbilayer movement of BODIPY-labeled lipids in lipid vesicles. *Biochemistry*, 36, 8840.
156. Emmerson PJ, Archer S, El-Hamouly W, Mansour A, Akil H, Medzihradsky F. (1997) Synthesis and characterization of 4,4-difluoro-4-bora-3a,4a-diaza-s-indacene (BODIPY)-labeled fluorescent ligands for the mu opioid receptor. *Biochem Pharmacol*, 54, 1315.
157. Jones LJ, Upson RH, Haugland RP, Panchuk-Voloshina N, Zhou M. (1997) Quenched BODIPY dye-labeled casein substrates for the assay of protease activity by direct fluorescence measurement. *Anal Biochem*, 251, 144.