

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085546 A1

(51) International Patent Classification⁷: **C09B 67/00**,
67/14, 67/18, 13/00, C12Q 1/68, C07K 17/02, G01N
33/533

(74) Agent: SHELSTON IP; 60 Margaret Street, Sydney NSW
2000 (AU).

(21) International Application Number:
PCT/AU2004/000370

(22) International Filing Date: 25 March 2004 (25.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(30) Priority Data:
2003901361 25 March 2003 (25.03.2003) AU

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **FLUOROTECHNICS PTY LIMITED** [AU/AU]; R257, Building E8C, Macquarie University, North Ryde, NSW 2109 (AU).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MACKINTOSH, James, Alexander** [AU/AU]; 18 Gilgandra Avenue, Thornleigh, NSW 2120 (AU). **VEAL, Duncan, Adam** [GB/AU]; 70 Finlay Road, Turrumura, NSW 2074 (AU). **KARUSO, Peter, Helmuth** [AU/AU]; 8/70 Oxford St, Epping, NSW 2121 (AU). **COGHLAN, Daniel, Richard** [AU/AU]; 6/130 Hampden Road, Abbotsford, NSW 2046 (AU). **CHOI, Hung-Yoon** [AU/AU]; 52/127 Park Road, Rydalmere, NSW 2116 (AU).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF ENHANCING FLUORESCENCE

(57) Abstract: A method of enhancing the fluorescence of and/or producing an increased Stokes' shift in a fluorescent dye comprising combining the dye with a base and/or a detergent is described. The method is suitable in chemical or biochemical techniques using fluorescent dyes, particularly techniques requiring staining or labelling of organic molecules, such as electrophoresis.

WO 2004/085546 A1