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(71) Applicant *(for all designated States except US)*: **BECTON, DICKINSON AND COMPANY** [US/US]; 1 Becton Drive, Franklin Lakes, NJ 07417-1880 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **AMISS, Terry, J.** [US/US]; 211 Honeysuckle Lane, Cary, NC 27513 (US). **NYCZ, Colleen, M.** [US/US]; 5205 Six Pence Court, Raleigh, NC 27613 (US). **PITNER, J., Bruce** [US/US]; 2903 Quincemoor Road, Durham, NC 27712 (US). **SHERMAN, Douglas, B.** [US/US]; 7 Lansgate Court, Durham, NC 27713 (US). **WRIGHT, David, J.** [US/US]; 1013 Mt. Carmel Church Road, Chapel Hill, NC 27514 (US).

(74) Agent: **HOBBS, Ann, S.**; Venable, Baetjer, Howard & Civiletti, LLP, 1201 New York Avenue, NW, Suite 1000, P.O. Box 34385, Washington, DC 20043-9998 (US).

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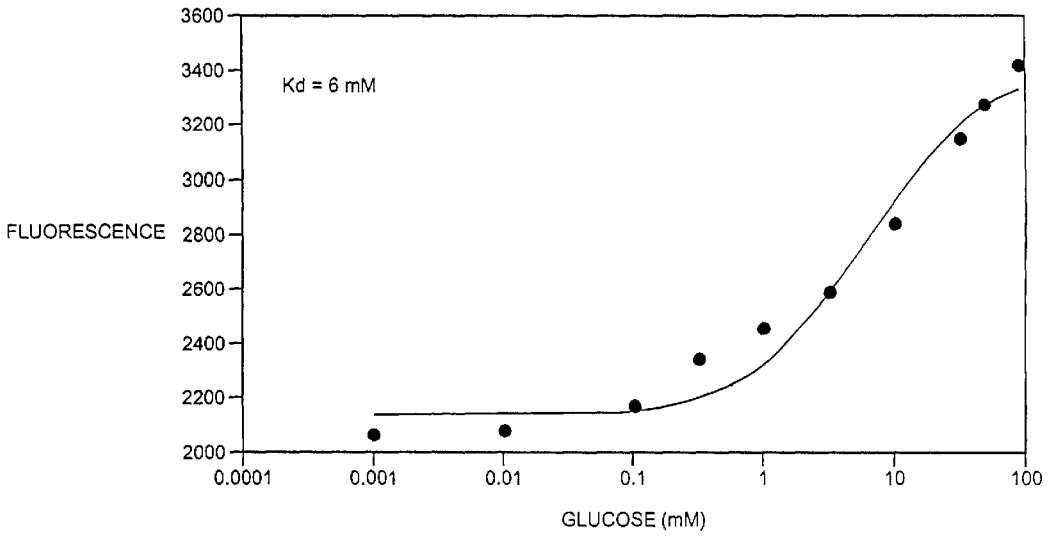
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(54) Title: BINDING PROTEINS AS BIOSENSORS



(57) Abstract: The invention is directed to compositions of mutated binding proteins containing reporter groups, analyte biosensor devices derived from and their use of analyte biosensors both *in vitro*and *in vivo*. The binding proteins are covalently bound to a fluorescence dye so that the concentration of an analyte (e.g., glucose) in a given sample is proportional to the fluorescence signal on a scale (Figure 1).

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