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(71) Applicant: **SANOFI** [FR/FR]; 54 rue La Boétie, F-75008 Paris (FR).

(72) Inventors: **PETRY, Stefan**; Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **NAZARÉ, Marc**; Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **SCHMIDT, Thorsten**; Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt (DE). **MATTER, Hans**; Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE).

(74) Agent: **LÖWRICK, Oliver**; K 801, Sanofi-Aventis Deutschland GmbH, Patents Germany, Industriepark Höchst, Geb. K 703, 65926 Frankfurt am Main (DE).

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(54) Title: FLUORESCENCE-LABELLED FATTY ACIDS AND USES THEREOF

(57) Abstract: The present invention relates to a composition comprising (i) a fluorescent-labelled fatty acid and (ii) a fatty acid binding compound, wherein (a) the fatty acid component of the fluorescent- labelled fatty acid binds the fatty acid binding compound and (b) the fluorescent component of the fluorescent-labelled fatty acid and the fatty acid binding compound interact to elicit FRET (Förster resonance energy transfer) effects. Moreover, the invention is directed to a method for identifying and/or characterizing a compound of interest by contacting a fluorescent-labelled fatty acid with a fatty acid binding compound under conditions that allow for binding and for FRET (Förster resonance energy transfer) effects, and then contacting the fluorescent-labelled fatty acid bound to the fatty acid binding compound with a compound of interest and determining the change in fluorescence. In addition, the invention pertains to corresponding kits of parts and uses of the compositions and methods.