

Biosensor for Nerve Agents and Pesticides

Published date: Feb. 1, 2012

Technology description

Description

UC San Diego researchers have developed a ligand sensing fluorescent enzyme assay for detection of cumulative organophosphate pesticide and nerve agent exposure. The technology utilizes fluorescently labeled mutants of the acetylcholinesterase enzyme (AChE) that exhibit fluorescence wavelength shifts upon ligand binding. The assay does not require reagent addition, can distinguish between organophosphates, and can be used in conjunction with laser, microarray, and capillary electrophoretic techniques for rapid detection of organophosphate conjugated AChE.

Institution

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