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(71) Applicant (for all designated States except US):  
**GENENTECH, INC.** [US/US]; 1 DNA Way, South San Francisco, CA 94080 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **HANNOUSH, Rami, N.** [CA/US]; 35 West 28th Avenue, Unit 300, San Mateo, CA 94403 (US).

(74) Agents: **CHI, I. Shannon et al.**; 1 DNA Way, MS 49, South San Francisco, CA 94080 (US).

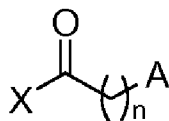
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(54) Title: METHODS FOR THE DETECTION OF FATTY-ACYLATED PROTEINS



(I)

(57) Abstract: Sensitive, non-radioactive fatty-acyls of Formula I are useful in in vivo methods for detection and cellular imaging of a fatty-acylated substrate (e.g., protein or polypeptide). In Formula I the symbols X and A, and the subscript n are as described herein. These fatty-acyl compounds can be used, inter alia, for analyzing the lipid composition of proteins in different biological states under various cellular conditions, and serve as a gateway into global lipidomic analysis of cellular proteins.

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