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(71) Applicants and

(72) Inventors: WEINBERG, Cristina-Simona [NZ/NZ]; 20 Mildmay Road, Henderson, Waitakere City, 0610 (NZ). BOVIN, Nicolai [RU/RU]; Artismovicha Str. 11-181, Moscow, 117437 (RU). HENRY, Stephen, Micheal [NZ/NZ]; 3 Lonsdale Street, Ellerslie, Auckland, 1051 (NZ).

(74) Agent: PARKER, Stephen, Robert; Lowndes Associates, PO Box 7311, Auckland, 1141 (NZ).

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(54) Title: PEPTIDE-LIPID CONSTRUCTS AND THEIR USE IN DIAGNOSTIC AND THERAPEUTIC APPLICATIONS

(57) Abstract: Peptide-lipid constructs of the structure L-S-F are disclosed, where F is a peptide, S is a spacer covalently linking F to L via an oligomer of ethylene glycol, and L is a diacyl- or dialkyl-glycerolipid (including glycerophospholipids). The spacer ideally has 6 to 14 ethylene glycol repeats, corresponding to PEG with a molecular weight of approximately 250 to 600. Also disclosed is a method of detecting reactive antibodies in serum by contacting serum with cells modified to incorporate a peptide-lipid construct, where the peptide is an epitope of the antibody, and determining the degree of agglutination of the cells.



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