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(54) Titre : MULTICOUCHES DE POLYELECTROLYTE ASSEMBLEES A PARTIR DE COMPOSES DE SIGNAL IMMUNITAIRE

(54) Title: POLYELECTROLYTE MULTILAYERS ASSEMBLED FROM IMMUNE SIGNAL COMPOUNDS

(57) **Abrégé/Abstract:**

Immune-polyelectrolyte multilayers (iPEMs) that can be made entirely from immune signal compounds are provided. The iPEMs are formed from first layer of a first immune signal compound, and a second layer of the first immune signal compound or a second immune signal compound disposed on the first layer of the first immune signal compound. The immune signal compounds are peptides, polypeptides, nucleic acids, charged derivatives thereof. Combinations of the immune signal compounds may be in adjacent layers. The first immune signal compound and the second immune signal compound have oppositely charged domains. iPEMs can be formed on or include a substrate, such as a sacrificial substrate, which allows for the formation of a three-dimensional void which can hold various other compounds for use in modulating immune responses. The iPEMs are for use in either stimulating an immune response to one or more antigens, or inducing tolerance to one or more antigens. Methods of stimulating immune responses, or inducing tolerance using the iPEMs, are also provided.