**Request Information** 

Permalink

# Peptide Mimotopes to Oxidation Specific Epitopes

Tech ID: 22613 / UC Case 2012-183-0

## **BACKGROUND**

Autoantibodies specific for malondialdehyde-modified LDL (MDA-LDL) represent potential biomarkers to predict cardiovascular risk. However, MDA-LDL is a high variability antigen with limited reproducibility. To identify peptide mimotopes of MDA-LDL, phage display libraries were screened and the specificity and antigenic properties of MDA mimotopes were assessed *in vitro* and *in vivo*.

## **TECHNOLOGY DESCRIPTION**

UCSD researchers have identified two peptide mimotopes that form a three dimensional representation of critical epitopes of MDA. These mimotopes have been shown to be representative of oxidation-specific epitopes that are proinflammatory and proatherogenic.

#### **APPLICATIONS**

In conjunction with different carriers, the newly identified peptides can be used as immunogens to study the mechanistic role of MDA-specific immune responses in immunization studies, and may provide the basis for potential atheroprotective vaccines, and could also be useful as imaging agents for inflammatory sites and/or atherosclerotic lesions.

#### **PATENT STATUS**

Country	Туре	Number	Dated	Case
Patent Cooperation Treaty	Reference for National Filings	WO 2013/158841	10/24/2013	2012-183

Patent Pending

#### **CONTACT**

University of California, San Diego Office of Innovation and Commercialization innovation@ucsd.edu tel: 858.534.5815.



### **OTHER INFORMATION**

#### **CATEGORIZED AS**

▶ Medical

▶ Disease: Cardiovascular and Circulatory System

RELATED CASES

2012-183-0

University of California, San Diego
Office of Innovation and Commercialization
9500 Gilman Drive, MC 0910, ,
La Jolla,CA 92093-0910

Tel: 858.534.5815
innovation@ucsd.edu
https://innovation.ucsd.edu
Fax: 858.534.7345

© 2012 - 2015, The

Regents of the University of

California

Terms of use

Privacy Notice