

# Inflammatory extracellular vesicles

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## SCOPE OF THE METHOD

<b>Alternative method relates to</b>	Human health
<b>Alternative method is situated in</b>	Basic Research, Translational - Applied Research
<b>Type of alternative method</b>	In vitro - Ex vivo
<b>This method makes use of</b>	Human derived cells / tissues / organs
<b>Specify the type of cells/tissues/organs</b>	HUVEC/ THP-1

## DESCRIPTION

### Method keywords

EV isolation

EV characterization

profiling

### Scientific area keywords

cardiovascular disorders

### Method description

TEM, NTA and western blot were used to characterize the purified inflammation-associated EV subpopulations from TNF- $\alpha$  treated HUVEC based on their sedimentation speeds (10K and 110K) and surface markers (CDs and ICAM-1). Protein arrays were used to discover the immunomodulatory content of subpopulations. In

addition, functional integrity of the EV subpopulations was assessed using migration cell based assays.

### **Lab equipment**

NTA

TEM

WB

Protein array

SPR

FACs

### **Method status**

Published in peer reviewed journal

Currently submitted for further validation by an external party (e.g. OECD, EURL ECVAM,...)

## **REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION**

### **Associated documents**

## **PARTNERS AND COLLABORATIONS**

### **Organisation**

**Name of the organisation** Hasselt University

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**Geographical Area** Flemish Region

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