Inflammatory extracellular vesicles

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SCOPE OF THE METHOD

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

DESCRIPTION

Method keywords

EV isolation

EV charactrization

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- treated HUVEC based on their sedimentation speeds (10K and110K) 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 University of Hasselt (UHasselt)

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Geographical Area Flemish Region

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