

Workshop

Metrological Characterization of Microvesicles (www.metves.eu)

Despite the emerging clinical relevance of microvesicles, also known as extracellular vesicles (EV), their isolation and detection is difficult, and comparison of measurement results impossible between instruments and laboratories. In this workshop, EV and METVES will be introduced. Highlights of METVES research will be presented, including achieved improvements of isolation, detection and standardization of EV measurements. Regarding standardization, METVES, together with the International Society of Thrombosis and Haemostasis (www.isth.org) and Exometry (www.exometry.com) have organized the first metrology-initiated worldwide standardization of EV measurements in (hospital) laboratories (2014-2015).

Program Thursday May 28 at VSL (Delft)

Welcome and introduction to METVES

10.00	Welcome and introduction to metrology and VSL	Nellie Schipper VSL
10.15	Introduction to extracellular vesicles and METVES	Rienk Nieuwland AMC,VSL
10.35	Extracellular vesicles: why clinicians care	Christanne Lok NKI
10.45	Coffee break	

Metrology of vesicles

11.15	Preparation, isolation and purification of extracellular vesicles	Yuana Yuana AMC
11.30	Microscopy techniques	Vincent Fokkema VSL & Jasmine Pétry SMD (Belgium)
11.45	Small-Angle X-ray Scattering	Christian Gollwitzer PTB (Germany)
12.00	Towards traceable size determination of extracellular vesicles	Zoltán Varga RCNS HAS (Hungary)
12.15	Intercomparison of reference materials	Felix Meli METAS (Switzerland)
12.30	Lunch	

Invited speaker and demonstrations

13.20	Extracellular vesicles: the past, present and future	Paul Harrison University of Birmingham (UK)
14.00	Lab demonstrations (AFM, SEC and TRPS)	
15.00	Coffee break	

Size does matter, future plans and discussion

15.20	'Mini-lecture' Detection of extracellular vesicles: size does matter	Edwin van der Pol AMC
15.50	Potential biological reference materials	Sami Valkonen, University of Helsinki
16.00	Future plans and plenary discussion	Rienk Nieuwland AMC, VSL
16.30	Drinks	

Registration

For registration please fill in the registration form attached to the e-mail. Attending the workshop is free of charge, or simply send an e-mail to r.nieuwland@amc.uva.nl.

Meals

Lunch and drinks will be provided.

Venue

The meeting will be organized at VSL, Thijsseweg 11, Delft, The Netherlands. Directions: <http://vsl.nl/en/route-description> . More information on the city of Delft at www.delft.nl/delften/Tourists.

For further questions, please contact:

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Organizing Committee

Vincent Fokkema (VSL)
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Felix Meli (METAS)
Rienk Nieuwland (AMC/VSL)
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