



9<sup>00</sup> **Assoc. Prof. Dr. Maria  
Kaparakis-Liaskos**

La Trobe University, Melbourne, Australia  
(- Title tba -)



10<sup>00</sup> **Prof. Dr. Yong Song Gho**

University of Science and Technology, Pohang,  
South Korea

„Microbial extracellular vesicles: from  
biology to clinical applications“



11<sup>00</sup> **Dr. Rienk Nieuwland**

Amsterdam University Medical Centers, The  
Netherlands

"Relevance of standardization in EV  
research: from single to multicenter  
studies"

**Link to the virtual event:**

<https://zoom.us/j/94925835018?pwd=V29QTjViS1laWTdxQmIKb2VSTG52Zz09>

Meeting-ID: 949 2583 5018 Identifier: 082392

[www.uni-marburg.de/en/fb20/diffusible-signals](http://www.uni-marburg.de/en/fb20/diffusible-signals)



**LOEWE**

Exzellente Forschung für  
Hessens Zukunft

Philipps



Universität  
Marburg

JUSTUS-LIEBIG-  
UNIVERSITÄT  
GIESSEN



MAX PLANCK INSTITUTE  
FOR TERRESTRIAL MICROBIOLOGY



## Assoc. Prof. Dr. Maria Kaparakis-Liaskos

La Trobe University, Melbourne, Australia

Associate Professor Maria Kaparakis-Liaskos is Head of the Host-pathogen Interactions and Bacterial Membrane Vesicles Laboratory at La Trobe University, Melbourne, Australia. Since 2017, she is Deputy Director of the La Trobe Research Centre for Extracellular Vesicles.

Assoc. Prof. Kaparakis-Liaskos' primary research interests are focused on understanding the cellular and molecular mechanisms of host-pathogen interactions with particular focus on *Helicobacter pylori* and bacterial membrane vesicles. Her work spans the fields of microbiology and immunology focusing on the answer of two fundamental questions:

- how do bacteria and their products interact with the host to cause disease and
- how does the host detect and respond to these bacterial pathogens and their products.

Selected Publications:

- Bitto NJ *et al.*, [Staphylococcus aureus membrane vesicles contain immunostimulatory DNA, RNA and peptidoglycan that activate innate immune receptors and induce autophagy.](#) J Extracell Vesicles. 2021 Apr;10(6):e12080.
- Bitto NJ *et al.*, [Considerations for the Analysis of Bacterial Membrane Vesicles: Methods of Vesicle Production and Quantification Can Influence Biological and Experimental Outcomes.](#) Microbiol Spectr. 2021 Dec 22;9(3):e0127321.





## Prof. Dr. Yong Song Gho

University of Science and Technology, Pohang,  
South Korea

Professor Yong Song Gho obtained his PhD in 1997. In 2000 he got his first position as an Assistant Professor, followed by an associate professorship in 2008. Since 2014 he holds a full professorship at the department of life sciences, POSTECH in Pohang, Korea leading the Laboratory of Intercellular Communication Network. He is

- Founding President of the Asian Pacific Societies for Extracellular Vesicles ([www.apsev.org](http://www.apsev.org))
- Former President of the Korean Society for Extracellular Vesicles ([www.ksev.or.kr](http://www.ksev.or.kr))
- Former Executive Chair of Education, International Society for Extracellular Vesicles (<http://www.isev.org>)
- Founding Editors-in-Chiefs (2012-2019) of the Journal of Extracellular Vesicles (2020 IF=25.841)
- Founder and CEO of Rosetta Exosome ([www.rosettaexosome.com](http://www.rosettaexosome.com)) and
- EVpedia-A Community Web Portal for Extracellular Vesicles Research (<http://evpedia.info>): > 8,500 members with > 40,000,000 access

### Selected Publications:

- Dinh et al., [Indoor dust extracellular vesicles promote cancer lung metastasis by inducing tumour necrosis factor- \$\alpha\$](#) . 2020 May 19;9(1):1766821.
- Lee et al., [Extracellular vesicles from in vivo liver tissue accelerate recovery of liver necrosis induced by carbon tetrachloride](#). 2021 Aug;10(10):e12133.





## Dr. Rienk Nieuwland

Amsterdam University Medical Centers, The Netherlands

Rienk Nieuwland, biologist (PhD), is head of the “Vesicle Observation Center” of the Amsterdam University Medical Center (Amsterdam, Netherlands). He focuses on isolation, detection, functional characterization (coagulation), and standardization of measurements on EVs.

He introduced size-exclusion chromatography to isolate EVs, described “swarm detection”, developed a method to measure the refractive index of EVs in suspension, and developed a method that allows standardization of EV concentration measurements.

He chaired the Scientific Standardization Committee on Vascular Biology of the International Society on Thrombosis and Haemostasis (ISTH), coordinated writing of methodological guidelines to study blood EVs on behalf of the American Heart Association. At present, he co-chairs the Rigor and Standardization Committee of ISEV, is adjunct board member of ISEV, is member of the ISEV Educational Committee, chairs the blood EV task force, is co-founder and member of the Extracellular Vesicle Flow Cytometry Working Group ([www.evflowcytometry.org](http://www.evflowcytometry.org)), and vice-president of the Netherlands Society for Extracellular Vesicles ([www.nlsev.nl](http://www.nlsev.nl)).

### Selected Publications:

- Witwer KW et al. [Updating MISEV: Evolving the minimal requirements for studies of extracellular vesicles.](#) J Extracell Vesicles. 2021 Dec;10(14):e12182.
- Nieuwland R. [Novel mechanism regulating tissue factor activity.](#) Blood. 2021 Jul 29;138(4):289-291.

