

Rapid Analysis & Diagnostics

FOOD

FEED

WATER

● PLANT

ANIMAL

HUMAN

FORENSICS

THE RME
CONFERENCE SERIES
16TH CONFERENCE

RME2026 Programme

8-10
JUNE
2026

AMSTERDAM
THE NETHERLANDS

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AT A GLANCE

MONDAY 8 JUNE 2026

12:45 – 13:00	Opening of RME2026	Exhibition
13:00 – 15:15	SESSION 1 <i>Rapid analysis & diagnostics – What's up, Doc?</i>	
15:15 – 15:45	Networking break & poster viewing	
15:45 – 17:15	SESSION 2 Focus on DNA	
17:15 – 18:00	SESSION 3 <i>Company pitches and speed presentations</i>	
18:00 – 19:00	Happy hour	

TUESDAY 9 JUNE 2026

08:30 – 10:30	SESSION 4 <i>Focus on paper-based formats</i>	Exhibition
10:30 – 11:00	Networking break & poster viewing	
11:00 – 12:25	SESSION 5 <i>Focus on spectrometric & spectroscopic detection</i>	
12:25 – 14:00	Lunch break & poster viewing WORKSHOP	
14:00 – 15:30	SESSION 6 <i>Electrochemical detection</i>	
15:30 – 16:00	Networking break & poster viewing	
16:00 – 17:35	SESSION 7 <i>Focus on paper-based formats and DNA extraction</i>	

WEDNESDAY 10 JUNE 2026

08:45 – 10:35	SESSION 8 <i>Focus on miscellaneous, advanced techniques</i>	Exhibition
10:35 – 11:00	Networking break & poster viewing	
11:00 – 12:45	SESSION 9 <i>Rapid analysis & diagnostics – What further?</i>	
12:45	Closing of RME2026	

PROGRAMME

(updated 31/03/2026)

12:45 OPENING AND RAPID OVERVIEW OF RME2026

RME2026 – the 16th conference in the Rapid Methods Europe series – will focus on the technology rather than the domain/sector, aiming to bring together scientists with different expertise with the possibility of cross-fertilizing each other and to develop new views and applications.

Conference chair: Dr Aart van Amerongen, BioSensing & Diagnostics, Wageningen University & Research, the Netherlands



food/feed



plant



water
(environment)



health
(human, animal)



forensics



general

SESSION 1

Rapid analysis & diagnostics – What's up, doc?

Chair: Dr Aart van Amerongen, Wageningen University & Research, the Netherlands

13:00 Sniffing for safe feed – a new field for detection dogs

Dr Carola Fischer-Tenhagen, German Federal Institute for Risk Assessment, Germany



13:20 Micromotors for next-generation rapid and reliable bioassays

Prof. Alberto Escarpa, Department of Analytical Chemistry, Physical Chemistry and Chemical Engineering, Universidad de Alcalá, Spain



13:40 Use of advanced technologies for developing efficient diagnostic and therapeutic clinical procedures

Dr Bobak Mosadegh, Department of Radiology, Weill Cornell Medicine, USA



14:00 Near/real-time methods for process monitoring of mobile water purification systems: Ensuring safe water supply in disaster and crisis settings

Dr Georg Reischer, Interuniversity Cooperation Centre for Water and Health and TU Wien, Austria



14:20 AI in plant phenomics

Dr Nuria De Diego, Czech Advanced Technology and Research Institute, Palacký University Olomouc, Czech Republic



14:40 Accelerating the detection of live bacteria in the presence of food debris using deep learning

Dr Luyao Ma, Department of Food Science & Technology, Oregon State University, USA



15:00 Funding opportunity to develop novel analytical technologies for the vaccine manufacturing testing challenges in response to the next potential pandemic

Chaminda Salgado, CEPI – Coalition for Epidemic Preparedness Innovations, UK



15:15 NETWORKING BREAK

Exhibition & poster viewing

SESSION 2
Focus on DNA

Chair: Dr Helen Bridle, Heriot-Watt University, UK

15:45 **Overcoming challenges to improve detection of protozoan parasites in the environment to achieve One Health benefits**

Dr Frank Katzer, The Moredun Research Institute, UK



16:05 **Managing contamination when using high-throughput sequencing for plant pathogen detection**

Prof. Sébastien Massart, Department Gembloux Agro-Bio Tech, University of Liège, Belgium



16:25 **An AmpliSeq™ HD approach for GMO identification by next generation sequencing**

Geoffrey Cottenet, Institute of Food Safety & Analytical Sciences, Nestlé Research, Switzerland



16:40 **Advancing PCR-based methods in the water sector: From practical challenges to harmonized standards**

Adrie Atsma, Water Expertise Centre Vitens, the Netherlands



17:00 **Metagenomic sequencing with MinION to rapidly and effectively detect and identify closely related Bacillus species in plant-based foods and supplements**

Dr Vania Patrone, Department for Sustainable Food Process, Università Cattolica del Sacro Cuore, Italy



SESSION 3
Company pitches and speed presentations

Chair: Sven Berendsen, Rijk Zwaan Breeding, the Netherlands

17:15 **Company pitches**

Short presentations (5-minutes) by sponsors to inspire the audience to visit their booths

- Sartorius
- Cytiva
- Axxin
- Detekt
- Ecuante
- e-Proteins

17:45 **Speed presentations**

Selected poster presenters are given 5 minutes to present an overview of their research:

To be announced

18:00 **Happy hour**

19:00 **END OF DAY 1**

SESSION 4**Focus on paper-based formats**

Chair: Dr Annemieke van Dam, Amsterdam UMC, the Netherlands

08:30 Paper-based graphenisation: Enabling new modalities in paper-based diagnostics
Dr Daniel Richards, Department of Chemistry and Applied Biosciences, ETH Zurich, Switzerland



08:50 Channels, challenges and lessons: Insights from multi-channel lateral flow assay development
Steven Lamont, LateralDx, UK



09:10 Point-of-care lactate dehydrogenase testing using smartphone-read and ultrasensitive electrophoretic lateral flow biosensing
Prof. Sergi Morais Ezquerro, Department of Chemistry, Polytechnic University of Valencia, Spain



09:30 Rapid detection of the heavy metal cadmium
Ruben Massop, BioSensing & Diagnostics, Wageningen University & Research, the Netherlands



09:45 A multiplex lateral flow assay for urinary biomarkers to identify bladder cancer patients
Dr Kerstin Lang, Institute of Prevention and Occupational Medicine of the German Social Accident Insurance, Ruhr University Bochum, Germany



10:00 Hot topic! What's in the can? Developing a fast, on-site test for pepper spray and tear gas
Dr Jan-Hein Hooijschuur, Centre of Applied Research Technology, Amsterdam University of Applied Sciences, the Netherlands



10:15 Development of a quantitative insulin-specific lateral flow test
Dr Heleen van den Bosch, BioSensing & Diagnostics, Wageningen University & Research, the Netherlands



10:30 NETWORKING BREAK
Exhibition & poster viewing

SESSION 5**Focus on spectroscopic & spectrometric detection methods**

Chair: Dr Knut Rurack, *Bundesanstalt für Materialforschung und -prüfung, Germany*

11:00 From benchtop to handheld: multi-spectroscopy data fusion and machine learning for food authentication

Dr Yicong Li, *Institute for Global Food Security, Queen's University Belfast, UK*



11:20 Rapid detection of oregano adulteration using NIR hyperspectral imaging and soft PLS-DA

Prof. Michele Suman, *Sensory and Analytical Food Science, Barilla G. e R. Fratelli S.p.A., Italy*



11:40 New generation of immunoassays based on supercritical angle fluorescence readout and 3D-printed elements

María Amparo Hernández García, *Bundesanstalt für Materialforschung und -prüfung, Germany*



11:55 Real-time permeation analysis in polymer food packaging films using PTR-MS

Andreas Stenzel, *Department of Sensory Analytics and Technologies, Fraunhofer Institute for Process Engineering and Packaging, Germany*



12:10 Seeing the invisible: exploiting non-targeted techniques to detect cold and mechanical damage in kiwifruit

Irene Locatelli, *Department of Food, Environmental and Nutritional Sciences, University of Milan, Italy*



12:25 LUNCH BREAK

**Exhibition & poster viewing
Workshop**

WORKSHOP**Microarray diagnostic platforms and kinetic and quantitative detection**

Presented by BioSensing & Diagnostics (BSD) and Sixth Sense Diagnostics (SSDx)

The BioSensing & Diagnostics (BSD) group is part of an application-oriented research institute within Wageningen University & Research. Since 1990, BSD has focused on the development of rapid, multi-analyte diagnostic platforms and their applications, often in close collaboration with, or on behalf of, industry partners.

Examples of such platforms include the microarray-ELISA, which can contain up to 100 spots per well, and the Lateral Flow Microarray Immunoassay (LMIA), capable of accommodating up to 20 spots. In collaboration with HAN University of Applied Sciences, a video-based reader was developed to enable real-time monitoring of signal development at each spot.

To determine kinetic parameters and obtain quantitative results, a Python-based analysis script was created. In partnership with Sixth Sense Diagnostics (SSDx), a startup commercializing this microarray technology, we will present several example assays that have been developed, along with results from ongoing projects.

SESSION 6

Focus on electrochemical-based detection

Chair: Dr Bobak Mosadegh, Weil Cornell Medicine, USA

14:00 ELLA: Electrochemical lateral flow assay with linked analytics
Dr Firat Güder, Department of Bioengineering, Imperial College London, UK



14:20 Diagnostics at soft interfaces using electrochemistry
Prof. Ritu Katakya, Department of Chemistry, Durham University, UK



14:40 Low-temperature electrochemical loop-mediated isothermal amplification for the detection of *Listeria monocytogenes*
Dr Ane Rivas-Macho, Gaiker, Spain



14:55 A low-cost electrochemical approach for gallic acid determination in beverages using screen-printed sensors
Dr Sotirios Oikonomou, Centre for Sustainable Agri-Food and Environment, University of the West of England, UK



15:15 Towards rapid detection of microplastic particles in human blood samples
Dr Monali Patel, Department of Civil and Environmental Engineering, University of Strathclyde, UK



15:30 NETWORKING BREAK

Exhibition & poster viewing

SESSION 7

Focus on paper-based formats and DNA extraction

Chair: Dr Firat Güder, Imperial College London, UK

16:00 Rapid microfluidic isolation of DNA and biological targets
Prof. Barbaros Çetin, Microfluidics & Lab-on-a-chip Research Group, Mechanical Engineering Department, Bilkent University, Türkiye



16:20 CRISPR-Cas-based pathogen detection
Marleen Voorhuijzen, Wageningen Food Safety Research, Wageningen University & Research, the Netherlands



16:35 Development of a rapid and sensitive fluorometric detection method for urobilin analysis for on-site water quality assessment
Dr Knut Rurack, Chemical and Optical Sensing, Bundesanstalt für Materialforschung und -prüfung, Germany



16:50 Miniaturised DNA extraction and loop-mediated isothermal amplification for portable detection of *Escherichia coli*
Dr Crescenzo Ianniello, Department of Chemical Engineering, University of Bath, UK



17:05 Speeding up crime scene investigation – Rapid DNA detection by lateral flow assays
Sophie van Rooijen, Laboratory of Organic Chemistry, Wageningen University & Research, the Netherlands



17:20 Miniaturized DNA extraction module for swab-based detection of allergenic traces on food processing surfaces
Carla Teixeira, Food Quality & Safety Group, International Iberian Nanotechnology Laboratory, Portugal



17:35 END OF DAY 2

SESSION 8**Focus on miscellaneous, advanced techniques**

Chair: Dr Aart van Amerongen, Wageningen University & Research, the Netherlands

08:45 **Molecularly imprinted polymer design: Targeting specificity and selectivity over affinity for biosensors**

Prof. Nick Turner, School of Mathematical and Physical Sciences, University of Sheffield, UK



09:05 **Wearable and point-of-care breath diagnostics through atomic-scale engineering of molecular sensors**

Dr Hamin Shin, Human-centered Sensing Laboratory, Department of Mechanical and Process Engineering, ETH Zurich, Switzerland



09:25 **Sustainable electronic sensors for agriculture and environmental monitoring**

Prof. Jeffrey Kettle, James Watt School of Engineering, University of Glasgow, UK



09:45 **Enabling diagnostics through point-of-care DNA extraction from large-volume urinary liquid biopsies**

Mark Verheijden, Qurin, the Netherlands



10:00 **Hydrogel beads for measurement of proteins in body fluids**

Dr Ruchi Gupta, School of Chemistry, University of Birmingham, UK



10:20 **Microfluidics-powered bacteria enrichment for uropathogenic detection**

Kimberley Jordan, Department of Biomedical Engineering, University of Strathclyde, UK



10:35 NETWORKING BREAK

Exhibition & poster viewing

SESSION 9**Rapid analysis & diagnostics – What further?**

Chair: Dr Bert Popping, FOCOS, Germany

11:00 **Co-design of rapid clinical molecular diagnostic assays in partnership with iwi-owned community health providers**

Dr Craig Billington, Health Security Group, Institute for Public Health and Forensic Science, New Zealand



11:20 **Near zero-cost DNA amplification and diagnostics, using new-generation of electronics design and software**

Prof. Max Hamedi, Department of Fiber and Polymer Technology, KTH Royal Institute of Technology, Sweden



11:40 **Flying seed-inspired sensors for remote environmental monitoring**

Dr Sagar Arya, Czech Advanced Technology and Research Institute, Palacký University Olomouc, Czech Republic



12:00 **Illuminating life beyond earth: Bioluminescence lab-on-chip technologies for biomarker detection in astrobiology**

Dr Mara Mirasoli, Department of Chemistry 'Giacomo Ciamician', University of Bologna, Italy



12:20 **AI-to-Go: The next generation of chemometrics – portable analytical intelligence**

Ronald Niemeijer, Niemeijer Science2Market Consulting, Germany



12:40 **Lessons learned**

12:45 CLOSING OF RME2026

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