

NOVEMBER 1-3, 2018

Grand Walkerhill Hotel, Seoul, Korea

www.lmce-kslm.org



John Rossen

University of Groningen, The Netherlands

Prof. dr. John W. A. Rossen has an almost 30-year history in molecular virology/microbiology and more than 145 peer reviewed publications (Google Scholar H-index 33; Scopus H-index 27). He is tenure track Professor at the University of Groningen and head of the molecular unit which has recently implemented the use of next generation sequencing for routine clinical microbiology and infection prevention. The method is used to determine the genetic relationship between pathogens (used to guide infection prevention measures) and for the molecular detection and further characterization of (emerging) pathogens. This includes analyses for revealing (new) antibiotic resistance mechanisms and for determining the virulence of pathogens resulting in improved risk assessment and infection prevention. In addition, based on comparing whole genomes of bacteria, tailor-made diagnostic tests are developed used for specific detection of outbreak and or virulent bacterial strains. Nowadays his research is focused on implementing metagenomics into clinical microbiology. In his research group "Personalized Microbiology", that is closely linked to Prof. dr. Alex Friedrich's research group "Genomics of Infection Prevention", several PhD students, Post-Docs and technicians work together to investigate not only patient samples but also samples taken from animals, food and water - thereby realizing the one health principle in microbiology. Currently, Prof. dr. Rossen is involved in the supervision of 9 PhD students. He is secretary of the ESCMID study group for genomic and molecular diagnostics (ESGMD) and treasurer of the Dutch Society of Medical Microbiology.

Specialties: Molecular diagnostics of infectious diseases - Real-time PCR - Molecular Biology - Virology - Cell biology - Microbiology - Genomics - Next Generation Sequencing - Genotyping - Metagenomics - Transcriptomics