

# BIOGRAPHY

29/06/2012



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**Title and name**

Dr. LIEVE HERMAN

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**Nationality**

Belgian

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**Panel**

Genetically Modified Organisms (GMO)

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**Education**

University degree Biology, Physiology, Biochemistry, 1983, University Ghent, Belgium

University degree Aggregate for the higher secondary education, 1984, University of Ghent, Belgium

Ph.D. Specialisation: Genetics-Molecular Biology; Laboratory of Genetics, University of Ghent, Belgium, 1988

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**Scientific and risk assessment experience**

Molecular characterization of genetically modified plants and genetically modified micro-organisms

Molecular approaches for the identification, detection and typing of bacterial foodborne pathogens and for species identification of animal products.

Differential expression of genes by RT-PCR using real-time PCR; cell cultures for virulence assays

Composition and dynamics of bacterial communities such as the bacterial flora of the pig and poultry intestine.

Quantitative risk analysis with respect to foodborne pathogens

Member of the EFSA GMO panel and active in the working groups 'Molecular Characterization' and 'Genetically Modified Microorganisms'; member of the Scientific Committee of the Belgian Federal Agency for Food Safety (FAVV), member of the expert group for the admission of food quality systems in the Flemish Community

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**Main scientific publications**

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Herman, L., Van Montagu, M. and Depicker, A. 1996. Isolation of Tobacco DNA Segments with Plant Promoter Activity. Molecular And Cellular Biology Vol. 6 : 4486-4492

Herman, L., Jacobs, A., Van Montagu, M. and Depicker, A. 1990. Plant chromosome/marker gene fusion assay to study normal and truncated T-DNA integration events. Mol. Gen. Genet. 224: 248-256

Rijpens N. and L. Herman. 2002. Molecular methods for identification and detection of bacterial food pathogens. *J. AOAC Int.* 85: 984-995

Herman, L., Heyndrickx, M., Vandekerchove, D., Rollier, I., Grijspeerdt, K. and De Zutter, L. 2003. Routes for *Campylobacter* contamination of poultry meat : epidemiological study from hatchery to slaughterhouse. *Epidemiology and Infection* 131: 1169-1180.

Possé, B., De Zutter, L., Heyndrickx, M., Herman, L. 2008. Novel differential and confirmation plating media for Shiga toxin-producing *Escherichia coli* serotypes O26, O103, O111, O145 and sorbitol-positive and –negative O157. *FEMS Microbiol. Lett* 282: 124-131.

Botteldoorn, N., Van Coillie, E., Grijspeerdt, K., Werbrouck, H., Haesebrouck, F., Donné, E., D'Haese, E., Heyndrickx, M., Pasmans, F. Herman, L. 2006. Real-time reverse transcription PCR for the quantification of the *mntH* expression of *Salmonella enterica* in function of growth phase and phagosome-like conditions. *J. Microbiol. Methods*, 66: 125-135

Stals A., Baert L., Botteldoorn N., Werbrouck H., Herman L., Uyttendaele M. & Van Coillie E. 2009. Multiplex real-time RT-PCR for simultaneous detection of GI/GII noroviruses and murine norovirus 1. *Journal of Virological Methods*, 161: 247-253

Van Pamel, E., Vlaemynck, G., Heyndrickx, M., Herman, L., Verbeken, A., Daeseleire, E. 2011. Mycotoxin production of pure fungal isolates analysed by means of an UPLC-MS/MS multi-mycotoxin method with possible pitfalls and solutions for patulin producing isolates. *Mycotoxin Res.* 27/ 37-47

Persoons, D., Bollaerts, K., Smet, A., Herman, L., Heyndrickx, M., Martel, A., Butaye, P., Catry, B., Haesebrouck, F., Dewulf, J. 2011. The importance of sample size in the determination of a flock-level antimicrobial resistance profile for *Escherichia coli* in broilers. *Microbial Drug Resistance* 17: 513-519

Werbrouck, H., Grijspeerdt, K., Botteldoorn, N., Van Pamel, E., Rijpens, N., Van Damme, J., Uyttendaele, M., Herman, L. and E. Van Coillie. 2006. Differential *inlA* and *inlB* expression and interaction with human intestinal and liver cells by *Listeria monocytogenes* strains of different origins. *Appl. Environ. Microbiol.* 72: 3862-3871.

Marchand, S., Heylen, K., Messens, W., Coudijzer, K., De Vos, P., Dewettinck, K., Herman, L., De Block, J., Heyndrickx, M. 2009. Seasonal influence on heat-resistant proteolytic capacity of *Pseudomonas lundensis* and *Pseudomonas fragi*, predominant milk spoilers isolated from Belgian raw milk samples. *Environ. Microbiol.* 11: 467-482.