



Volha Shapaval, PhD

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Assoc. Prof. Volha Shapaval obtained her PhD in Biophysics from the Faculty of Science and Technology, Norwegian University of Life Sciences, Ås, Norway in 2013. Shapaval performed her PhD work in collaboration with Norwegian food and fish research institute – Nofima AS, where she was employed, first, as a PhD student (2008-2013) and as a research scientist since 2013. Since 2016, Shapaval is an Associate Professor in Process technology at the Faculty of Science and Technology, Norwegian University of Life Sciences. Shapaval has a solid background in microbiology and biotechnology through the MSc in Microbiology obtained from the Faculty of Biology, Belarussian State University, Minsk, Belarus (1999-2004) and MSc in Biotechnology from the Faculty of Chemistry, Lund University, Lund, Sweden (2006-2008).

During her PhD, Shapaval started to work on developing vibrational spectroscopy methods for biochemical fingerprinting and characterization of microorganisms. She has participated in acquiring EU Fp7 R4SME grant related to the developing of a robotic system for the spectroscopic biochemical fingerprinting of food spoilage microorganisms. Application of vibration spectroscopy techniques to perform biochemical fingerprinting of microorganisms is her current main research focus. She is working on the developing vibrational spectroscopy for both phenotypic differentiation of different types of microorganisms and for prediction of different biochemical components in microbial cells. Shapaval is an author of 13 original communications in peer-reviewed journals.

Shapaval is co-founder and CEO of MWT-Analytics AS a start-up company delivering novel solution based on FTIR spectroscopy for the source tracking of microbial contamination in food industry.