

BIOGRAPHY

July 6, 2012

**Title and name**

Prof. Dr. Hanspeter Naegeli

Nationality

Swiss

Panel

GMO

Education

Graduation from School of Veterinary Medicine, 1985, University of Zürich

Doctoral Degree, 1989, University of Zürich

Scientific and risk assessment experience

The main field of experience is toxicology, which is the study of adverse effects of chemicals and biological substances in living organisms. Prof. Naegeli is active in different multidisciplinary research areas comprising molecular toxicology, food toxicology and nanotoxicology. He uses advanced methods of cellular and molecular biology combined with live-cell imaging, transcriptomics, proteomics and metabolomics to study adverse endpoint pathways and the complex reaction patterns of living organisms to endogenous or exogenous toxic insults.

Main scientific publications

The main areas of publication are molecular toxicology and food toxicology. Key publications include:

Fei J, Kaczmarek N, Luch A, Glas A, Carell T, and Naegeli H (2011) Regulation of nucleotide excision repair by UV-DDB: prioritization of damage recognition to internucleosomal DNA. *PLoS Biol.* 9, e1001183.

Naegeli H, Sugawara K (2011) The xeroderma pigmentosum pathway: decision tree analysis of DNA quality. *DNA Rep.* 10, 676-683.

Lancova K, Dip R, Antignac J-P, Le Bizec B, Elliott CT, and Naegeli H (2011) Detection of hazardous food contaminants by transcriptomics fingerprinting. *Trends Anal. Chem.* 30, 181-191.

Clement CF, Kaczmarek N, Mathieu N, Tomas M, Leitenstorfer A, Ferrando-May E, and Naegeli H (2010) Dissection of the xeroderma pigmentosum group C protein function by site-directed mutagenesis. *Antioxid. Redox Signal.* 14, 2479-2490.

Mathieu N, Kaczmarek N, and Naegeli H (2010) Strand- and site-specific DNA lesion demarcation by the xeroderma pigmentosum group D helicase. *Proc. Natl. Acad. Sci. USA* 107, 17545-17550.

Camenisch U, Träutlein D, Clement FC, Fei J, Leitenstorfer A, Ferrando-May E, and Naegeli H (2009) Two-stage dynamic DNA quality check by xeroderma pigmentosum group C protein. *EMBO J.* 28, 2387-2399.