



**Willem E. Corver, PhD**, is with Department of Pathology, Leiden University Medical Center, Netherlands.

During his PhD, Dr. Corver developed protocols that allowed identification of tumour subpopulations by flow cytometry in order to study somatic genetic changes, tumour progression and intra-tumour heterogeneity in solid tumours. Also while at LUMC, Dr. Corver, in his role as scientist and lecturer, focused on gynaecological and colorectal cancer (translational) research. Main techniques included multiparameter DNA flow cytometry, cell sorting and analysis of tumour subpopulations by diverse molecular genetic techniques, amongst SNP-arrays. Most clinical pathology laboratories preserve and store tissue samples by fixing in formalin and embedding in paraffin wax. To improve analysis of this archival material, Dr. Corver developed a method that partially preserve cells during dissociation allowing the labeling for stromal cells and epithelial cells, and DNA content simultaneously. By this, stromal cells can be identified and used as an internal DNA diploid reference for DNA content measurements and as reference. Simultaneously pure tumour subpopulations can be studied in archival FFPE carcinomas.

Additional:

- PhD: Multiparameter DNA Flow Cytometry of Human Solid Tumours: Technical improvements and applications (2001)
- Klaus Goertler prize (2002) of the German Society for Cytometry [Deutsche Gesellschaft für Zytometrie (DGfZ)]
- Formerly secretary of the Dutch Cytometry Society [Nederlandse Vereniging voor Cytometrie (NVvC)] 2005 – 2010
- Formerly member of the advisory board of the German Society for Cytometry [Deutsche Gesellschaft für Zytometrie (DGfZ)]
- Formerly lecturer during the annual meeting of the German Society for Cytometry
- Formerly lecturer during the Flow Cytometry Course of the Royal Microscopical Society (RMS)
- Lecturer during the world primary of the remote-controlled cell sorting course (ESCCA, Dublin, 2011)