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Nanofluidic tools for bioanalysis : the large advantages of the nano-scale

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Curriculum Vitae

Kjeld Gertrudus Hendrikus Janssen was born 1979, May 26 in Nijmegen, The Netherlands. In 1997 he completed his pre-university secondary degree (Gymnasium) at the Dominicus College, Nijmegen. That year he started studying physics at the University of Nijmegen. Following his first year (Propedeutic exam), he continued with his masters degree in biophysics. During his studies he became very impressed by the elegant, seemingly effortless complexity of Biology, particularly on the molecular and single-cell level; and became motivated to explore their workings with new methods available from developments in physics. This directed him to perform an internship (one year), on surface enhanced Raman spectroscopy (SERS) on single neural cells under the supervision of dr. R.J. Dijkstra and prof.dr. J.J. ter Meulen (Molecular and Laser Physics group), and dr. W.J.J.M. Scheenen (Department of Cellular Animal Physiology), at the University of Nijmegen. A second additional internship of half a year, was performed in France, under the supervision of dr. S. Dukic and Prof.dr. M. Manfait (Unité Médian CNRS U.M.R. 6142, University of Reims), that included measuring the distribution of the chemotherapy-drug doxorubicin between healthy and tumor brain tissue with SERS. Following his graduation, the author briefly worked as a teaching assistant for a physics course at the University of Nijmegen. Following his interest in measuring on the scale of single cells he began the work included in this thesis in November 2004 with Prof.dr. T. Hankemeier (Department of Analytical Biosciences, Leiden Amsterdam Center for Drug Research, Leiden University), in collaboration with dr. N.R. Tas and prof.dr. J.C.T. Eijkel (MESA+, University of Twente). From January 2009 to December 2011 he worked as a postdoctoral fellow in Leiden. Currently he is a projectleader in Research with Medimate B.V. a company that developed and markets a Lab-on-a-Chip platform for point of care tests, including the concentration of lithium in blood.

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