# CURRICULUM VITAE

# Petra S. Dittrich, Prof. Dr.

# PERSONAL INFORMATION

Date of Birth:	1974
Place of Birth:	Lingen (Ems), Germany
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#### **EDUCATION**

2000-2003	PhD thesis, performed at the Max Planck-Institute for Biophysical Chemistry, Göttingen (Germany), supervised by Prof. P. Schwille, defense: April 2003 at the University of Bielefeld, Germany
	Thesis title: Confocal fluorescence spectroscopy in microstructures: detection, analysis and sorting of cells and particles
1993-1999	Studies of chemistry at the University of Bielefeld, Germany. Diploma majoring in physical chemistry, supervised by Prof. K. Kohse-Höinghaus. Thesis topic: <i>Detection of aromatic amino acids by excitation-emmision</i> <i>spectroscopy and time-resolved fluorescence spectroscopy</i>

#### **RESEARCH VISITS**

1997	Studies of chemistry at the Universidad de Salamanca, Spain, Physical
	Chemistry Group (Prof. J. Casado-Linarejos)
March/April 2002	Research stay at the Cornell Nanofabrication Facility, Cornell University,
	Ithaca (NY, USA)
April/May 2005	Research stay at the University of Tokyo, Japan, Applied Chemistry Group
	(Prof. T. Kitamori)

#### **PROFESSIONAL EXPERIENCE**

Since July 2008	Assistant Professor for Bioanalytics at the Department of Chemistry and Applied Biosciences, ETH Zürich, Switzerland
	Applied blosciences, ETT Zurien, Switzenand
Since April 2006	Research Highlights Editor for Lab on a Chip (Royal Society of Chemistry)
2004-2008	ISAS- Institute for Analytical Sciences, Dortmund, Germany
	Scientific interests:
	1) Lab-on-chip-technologies and microfluidics in general, and in particular
	for biological and medical applications
	2) Formation and analysis of particles and droplets on microchips
	3) Single-molecule detection based on fluorescence spectroscopy and other
	high sensitivity detection techniques

# 2003-2004Postdoc at the Max Planck-Institute for Biophysical Chemistry,<br/>Göttingen, Germany<br/>Projects:<br/>1. Fluorescence correlation spectroscopy (FCS) to determine flow velocities,<br/>and for kinetic studies in artificial and "biological" channels (neurons)<br/>2. "Artificial cells": In vitro-translation of the Green Fluorescent Protein in<br/>emulsion droplets formed in microfluidic channels

### **GRANTS AND AWARDS**

1997	Erasmus/Socrates scholarship
1996-1999	Scholarship of the Studienstiftung des Deutschen Volkes
2002	Grant of the Deutscher Akademischer Austauschdienst, DAAD
2003	Award of the Westfälisch-Lippische Universitätsgesellschaft for the PhD thesis
2007	Fellowship of the Christiane Nüsslein-Vollhard-Stiftung