

CEDRIC HURTH, Ph.D.

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EDUCATION

- PhD, University of Texas at Austin/Université de Bordeaux (France),** Dec 2005
Physical Chemistry. Thesis Title: “Scanning Probe Microscopy studies of active enzymes at solid surfaces”
Advisers: Prof. Allen J. Bard in Austin and Dr. Jean-Pierre Aimé in Bordeaux
- M.Sc., Ecole Normale Supérieure de Cachan (France),** May 2001
Physical Chemistry & Protein Engineering. Thesis Title: “Interactions of yeast prion protein Ure2p with putative partners”
Adviser: Dr. Ronald Melki, Centre National de la Recherche Scientifique (C.N.R.S.)
- B.Sc., Université Paris Sud (France),** June 2000

RESEARCH EXPERIENCE

- Mint Diagnostics, Ltd, Sittingbourne, United Kingdom
Principal Engineer, Aug 2019 - Present
NTech_DNA, Paris, France
- Co-founder,** Jan 2018 – present
The Institute of Photonic Sciences, Castelldefels, Spain
- Research Fellow,** Nov 2016 – July 2019
WhiteSpace Enterprise Corp, Phoenix, AZ
- Consultant,** Jan 2016 – present
Translational Genomics Research Institute, Phoenix, AZ
- Staff Scientist,** Oct 2014 – Dec 2015
Center for Applied Nanobioscience & Medicine, University of Arizona College of Medicine
- Postdoctoral Research Associate/Assistant Research Scientist,** Nov 2009 – July 2014
Applied Nanobioscience Center, The Biodesign Institute at Arizona State University
- Postdoctoral Research Associate,** Jul 2006 – Oct 2009

TEACHING EXPERIENCE

I have mentored **11 undergraduate students** (since 2006. Most notably via the *Translational Genomics Institute “Helios Foundation” Program and ThirdBiotech “LabApprentice” (Chandler, AZ).*

SELECTED PUBLICATIONS out of 30+ peer-reviewed papers, proceedings, book chapters, patents:

1. Sibilo R, Pérez JM, Hurth C, et al, “Surface cytometer for fluorescent detection and growth monitoring of bacteria over a large field-of-view”, *Biomedical Optics Express*, 10, 2101 (2019)
2. Hurth C et al, “Biomolecular interactions control the shape of stains from drying droplets of complex fluids”, *Chemical Engineering Science*, 137, 398 (2015)
3. Hurth C et al, “A miniature quantitative PCR device for directly monitoring a sample processing on a microfluidic rapid DNA system”, *Biomed. Microdevices*, 16, 905 (2014)
4. Estes M, Hurth C et al, “A tunable array of unique steady-state microfluidic gradients”, *PCCP*, 15, 12804 (2013)
5. Hurth C et al, “Clinical diagnostic of pleural effusions using a high-speed viscosity measurement method”, *J. Appl. Phys.*, 110, 034701 (2011)
6. Hopwood A, Hurth C et al, “Integrated microfluidic system for rapid forensic DNA analysis: sample collection to DNA profile”, *Anal. Chem.*, 82, 6991 (2010)
7. Hurth C et al, “A compact LED-based module for capillary electrophoresis of DNA samples”, *Appl. Phys. B*, 93, 693 (2008)
8. Hurth C et al, “Direct measurement of double-layer potential profiles by Scanning Electrochemical Potential Microscopy (SECPM)”, *J. Phys. Chem. C*, 111, 4620 (2007)
9. Hurth C et al, “Enzymatic activity of immobilized recombinant yeast phosphoglycerate kinase”, *Biosens. Bioelectron.*, 22, 2449 (2007)
10. Maali A, Hurth C et al, “Improved acoustic excitation of AFM cantilevers in liquid”, *App. Phys. Lett.*, 88, 35041 (2006)
11. Fomenko V, Hurth C et al, “Second-Harmonic Generation investigations of charge transfer at chemically modified semiconductor interfaces”, *J. App. Phys.*, 91, 4394 (2002)

LANGUAGES

English (Fluent, written and spoken); French (Native speaker); German (Native speaker)
Spanish (Intermediate); Vietnamese (Beginner)