

CURRICULUM VITAE

GEORGE PAPADAKIS

Molecular biologist (MSc, PhD)

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1. Education

2002-2007 Doctor of Philosophy (PhD)

*Molecular Biology & Biomedicine,
Biology department, University of Crete*

2001-2002 Master of Science (MSc)

*Genetic manipulation and molecular cell biology,
School of biological sciences, University of Sussex*

1997-2001 Biology degree

*School of biological sciences,
Aristotle University of Thessaloniki*

2. Work experience

Teaching Biology in high school, Heraklion.

2009-now

Post-doc in biosensors. Institute of molecular biology and biotechnology - FORTH. Heraklion, Crete.

July 2009 – now

Teaching Biology in high school students, Heraklion.

2002-2007

DNA microarrays lab (IMBB-FORTH).

Search of molecular markers for breast cancer. June 2003 – September 2004

Training in Euromedica diagnostic centre, Thessaloniki.

May 2001 & July 2001

3. Dissertations

Measuring changes in the conformation of DNA using acoustic biosensors.

PhD thesis.

DNA binding sites of the transcription factor K8alpha (Human Herpes virus 8 – HHV8) in the viral and human genome.

Master's thesis.

Toxic and genotoxic activity of Deltamethrin in *Bactrocera oleae* and *Drosophila melanogaster*.

Diploma thesis.

4. Published work - Patents

G. Papadakis, A. Tsortos, K. Mitsakakis, E. Gizeli, Characterization of DNA–Hv1 histone interactions; discrimination of DNA size and shape. *FEBS Lett.* (2010), 935-940
doi: 10.1016/j.febslet.2010.01.030

F. Bender, P. Roach, A. Tsortos, **G. Papadakis**, M. I Newton, G. McHale and E. Gizeli, Development of a combined surface plasmon resonance/surface acoustic wave device for the characterization of biomolecules, *Meas. Sci. Technol.*, 20, 2009, 124011 (6pp) doi: 10.1088/0957-0233/20/12/124011

G. Papadakis, A. Tsortos and E. Gizeli, Triple-helix DNA structural studies using a Love wave acoustic Biosensor, *Biosens. Bioelectron.* 24, 2009, 702-707, doi: 10.1016/j.bios.2009.08.015

A. Tsortos, **G. Papadakis** and E. Gizeli, Acoustic Wave Biosensor for Detecting DNA Conformation; a Study with QCM-D, *IEEE International Frequency Control Symposium, FCS*, art. no. 4623017, pp. 346–349, doi: 10.1109/FREQ.2008.4623017

A. Tsortos, **G. Papadakis** and E. Gizeli, Shear acoustic wave biosensor for detecting DNA intrinsic viscosity and conformation: A study with QCM-D, *Biosens. Bioelectron.* 24, 2008, 836–841, doi: 10.1016/j.bios.2008.07.006

G. Papadakis / A. Tsortos, K. Mitsakakis, K. Melzak and E. Gizeli, Quantitative determination of size and shape of surface-bound DNA using an acoustic wave sensor, *Biophys. J.* 97, 2008, 2706-2715 (Commentary in *HPSP J.* 2(4): 171-177, 2008, Hot-of-the-press HFSP 2008)

M. Farsari, G. Filippidis, T. Drakakis, K. Sambani, S. Georgiou, **G. Papadakis**, E. Gizeli and C. Fotakis, Three-dimensional biomolecule patterning, *Appl. Surf. Sci.* 253, 2007, 8115-8118

T. Drakakis, **G. Papadakis**, K. Sambani, G. Filippidis, S. Georgiou, E. Gizeli, C. Fotakis and M. Farsari, Construction of three dimensional biomolecule structures employing femtosecond lasers, *Appl. Phys. Lett.* 89 (1), 2006, 144108

A. Tsortos, **G. Papadakis** and E. Gizeli, Molecular conformation biosensing, **International patent**, Publication No: WO 2008/155692

5. Conferences

IEEE International Frequency Control Symposium,

May 18th-21st, 2008, Honolulu, Hawaii, USA; Acoustic Wave Biosensor for Detecting DNA Conformation; a Study with QCM-D. A. Tsortos, **G. Papadakis** and E. Gizeli

IEEE International Frequency Control Symposium,

June 5th-7th, 2006, Miami FL, USA; Sensing the Shape of Biomolecules using Love Waves. K. Mitsakakis, **G. Papadakis**, E. Gizeli

E-MRS IUMRS ICEM 2006 Spring Meeting

May 29 – June 2, 2006, Nice, France; Photon-Assisted Synthesis and Processing of Functional Materials. Three-dimensional biomolecule patterning. M. Farsari, G. Filippidis, T. S. Drakakis, K. Sambani, S. Georgiou, **G. Papadakis**, E. Gizeli and C. Fotakis

Tenth International Symposium on EBV and Associated Diseases,

July 16-21, 2002, Cairns, Australia; Functional comparison of the BZIP proteins of EBV and HHV8. S.S. AlMehairi, **G. Papadakis** and A.J. Sinclair