CURRICULUM VITAE

Electra Gizeli

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1. EDUCATION

1988-1994	PhD, University of Cambridge, Institute of Biotechnology (Newnham College), UK Supervisor: Prof. C.R. Lowe
1987-1988	MSc in Applied Molecular Biology and Biotechnology, University College London, UK
1982-1987	BSc in Chemistry, University of Athens, Greece

2. POST-DOCTORAL WORK

1996-2002	BBSRC David Phillips Research Fellow, University of Cambridge, Institute of Biotechnology, UK
1998	Visiting Research Fellow, Sandia National Laboratory, Albuquerque, New Mexico, USA
1995	Visiting Fellow, Ecole Polytechnique Federal de Lausanne, Switzerland
1993-1996	Senior Research Associate, University of Cambridge, Institute of Biotechnology, UK

3. ACADEMIC POSITIONS

2010	Associate Professor, Department of Biology, University of Crete
2006 –2009	Tenured Assistant Professor, Department of Biology, University of Crete
2003-2006	Assistant Professor, Department of Biology, University of Crete
2004-today	Group Leader, IMBB, FORTH, Crete, Greece
2002-2003	Lecturer, Sidney Sussex College, University of Cambridge, Inst. of Biotechnology, UK

4. AWARDS/FELLOWSHIPS/DISTINCTIONS

2008	Adjunct Professor, Department of Electrical & Computer Engineering, Marquette University, Milwaukee, USA
1998	Visiting Fellowship, National Research Laboratories, USA
1998	Travel Grant, Royal Society, UK
1997	Fellowship, Sidney Sussex College, University of Cambridge, UK
1996-2002	Junior Research Fellowship, Biotechnology and Biological Sciences Research Council (BBSRC), UK
1995	Visiting Research Fellowship, Royal Society, UK

5. MEMBER OF SOCIETIES

- The Royal Society of Chemistry (UK)
- Institute of Electrical and Electronic Engineering (IEEE) (USA)
- Biophysical Society (USA)
- Association of Greek Chemists (Greece)

6. REFEREE FOR RESEARCH PROGRAMS AND FELLOWSHIPS

- For the Human Frontier Science Program (HFSP)
- For the European Union within FW6, "Development of Novel Technologies for Proteomics and Genomics"
- For the Biotechnology and Biological Sciences Research Council (BBSRC), UK
- For the Royal Society of Chemistry (RSC), UK
- For the Engineering and Physical Sciences Research Council (EPSRC), UK

7. REFEREE FOR SCIENTIFIC JOURNALS

- Analytical Chemistry
- Biosensors and Bioelectronics
- Journal of the American Chemical Society
- Reviews in Analytical Chemistry
- Trends in Biotechnology
- IEEE Journal of Sensors
- IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control
- Biochemistry
- Journal of Applied Physics
- Biophysical Journal
- Langmuir
- Journal of Physical Chemistry
- Colloids and Surfaces B: Biointerfaces
- Sensors and Actuators
- Journal of Polymer Science
- American Chemical Society (ACS) Nano
- Smart Materials and Structures
- Current Opinion in Biotechnology

8. PRESENTATIONS

Participation in International Conferences

1. NanobioEurope, E. Gizeli, K. Mitsakakis, Multi-analyte acoustic microsystem for biomedical analysis; application in cardiac markers detection, Cork, Ireland, 2011 (oral)
2. NanobioEurope, A.Tsortos, G. Papadakis, E. Gizeli, Acoustic characterization of a DNA nanoswitch; a conformation study, Cork, Ireland, 2010 (poster)
3. FACSS 2010, L. Steller, M. Laugsh, H. Schmidt, R. Jessberger, E. Gizeli, 2010, (poster), Raleigh, USA
4. NanobioEurope, E. Gizeli, A.Tsortos, G. Papadakis, Germany 2010 (oral)
5. 2nd ICDDT, A.K. Pantazis, E. Gizeli and G. Konstantinidis , Dubai, UAE, 2010 (??)
6. 54th Annual Meeting of the Biophysical Society, A. Tsortos, G. Papadakis, E. Gizeli, San Francisco, U.S.A, 2010 (poster)
7. E-MRS 2009, A.K. Pantazis, E. Gizeli and G. Konstantinidis, Poland, 2009 (oral)
8. MEMSWAVE 2009, A.K. Pantazis, E. Gizeli, D. Vasilache, E. Aperathitis, A. Muller and G. Konstantinidis, Trento, Italy (oral)
9. MEMSWAVE 2008, A.K. Pantazis, E. Gizeli, A. Adikimenakis, A. Georgakilas, A. Stavrinidis and G. Konstantinidis, Greece 2008 (poster)
10. 2008 IEEE International Frequency Control Symposium, May 19-21, Honolulu, USA, K. Mitsakakis, A. Tserepi & E. Gizeli 2008 (oral)
11. IEEE International Frequency Control Symposium, K. Mitsakakis, A. Tserepi, E. Gizeli, Hawaii, USA, 2008 (oral)
12. IEEE International Frequency Control Symposium, A. Tsortos, G. Papadakis, E. Gizeli, Hawaii, USA, 2008 (oral)
13. IEEE International Frequency Control Symposium, M. Saitakis, E. Gizeli, Hawaii, USA, 2008 (oral)
14. 10th International Symposium on Biomaterials: Fundamentals and Clinical Applications, M. Chatzinikolaidou & E. Gizeli, Essen, Germany, 2008 (oral)
15. 8th World Biomaterials Congress, M. Chatzinikolaidou & E.Gizeli, The Netherlands, 2008 (oral)
16. 33rd International Conference on Micro- and Nano-Engineering, K. Mitsakakis, A. Tserepi, E. Gizeli, Copenhagen, Denmark, 2007 (poster)
17. 2006 IEEE International Frequency Control Symposium, K. Mitsakakis, G. Papadakis, E. Gizeli, Miami, USA, 2007 (oral)
18. The IEEE International Conference on Sensors, Vienna, Austria, 2004 (oral)
19. International Conference on Biosensors, Granada, Spain, 2004 (oral)

20. Biophysical Complexity, 2003, Southampton, UK, 2003 (oral)
21. The 202nd Meeting of the Electrochemical Society, K. Saha, E. Gizeli, UTAH, USA, 2002 (oral)
22. Eurosensors XVI, Prague, Czech Republic, 2002 (poster)
23. 7th World Congress on Biosensors, K. Melzak, E. Gizeli, Kyoto, Japan, 2002 (oral)
24. The IEEE International Conference on Sensors, Orlando, USA, 2002 (oral)
25. 3rd Acoustic Wave Sensor Workshop, New Mexico, USA, 2001 (oral)
26. The 8th International Meeting on Chemical Sensors, Switzerland, 2001 (oral)
27. Biophysical Conference, The Royal Society of Chemistry, London, UK, 2001 (oral)
28. Gordon Research Conference on Chemical Sensors and Interfacial Design, Italy, 2000 (poster)
29. International Conference on Biosensors, San Diego, USA, 2000 (oral)
30. The 107th Discussion of the Royal Society of Chemistry, Faraday Division, UK, 1997 (poster)
31. The 12th International Symposium on Affinity Interactions: Fundamentals and Applications of Bio-molecular Recognition, Kalmar, Sweden, 1997 (poster)
32. Gordon Conference on Chemical Sensors and Interfacial Design, USA, 1996 (poster)
33. International Conference on Transducers '95-Eurosensors IX, Sweden, 1995 (poster)
34. International Conference on Biosensors, New Orleans, USA, 1994 (oral)
35. The 4th International Meeting on Chemical Sensors, Tokio, Japan, 1992 (poster)
36. Eurosensors V, Rome, Italy, 1991 (poster)
37. Chemical Sensors, Cleveland, USA, 1990 (oral)

Invited Speaker

(a) Conferences

1. 1st International Workshop on Novel Developments & Applications in Sensor Technology, Coburg, Germany 2009
2. "Research activities on Nanobiotechnology in Greece", Organized by Nano2Life EU-funded Consortium, Crete, Greece
3. "Omics and Nanotechnology in Biomedicine", BIOMED and School of Health Sciences, University of Thessalia, Greece, 2007
4. 2006 IEEE International Ultrasonics Symposium, Vancouver, Canada, section on "Biochemical Sensors", 2006
5. EuroNanoForum 2005, Nanotechnology and the Health of the EU Citizen in 2020, Organized by the European Commission, Edinburgh, UK, 2005
6. The Gordon Research Conference, Chemical Sensors and Interfacial Design, California, USA, 2000
7. The Electrochemical Meeting, Boston, USA, 1999
8. The 1997 Joint International Meeting of the Electrochemical Society and the Society of Electrochemistry, France, 1997
9. Immunoassays of the '90s, The Royal Society of Chemistry, London, UK, 1993
10. Diagnostics '91, London, UK, 1991

(b) Universities-Institutes-Companies

1. Centre for DNA Nanotechnology (CDNA), Interdisciplinary Nanoscience Center (iNANO), Aarhus University, Denmark, 2010
2. Bio-center of the Goethe University, Inst. of Biochemistry, Germany, 2009
3. 8th FORTH Meeting, Crete, Greece 2007
4. Institute of Biology, Demokritos Research Institute, Greece, 2006
5. Department of Chemistry, Univ. of Athens, Greece, 2005
6. Institute of Physical Chemistry, Demokritos Research Institute, Greece, 2005
7. University of Copenhagen, Nano-Science Centre, Copenhagen, Denmark, 2004
8. Company "Atonomics", Copenhagen, Denmark, 2004
9. Dept. of Material Science, Univ. of Crete, 2003
10. Department of Engineering, University of Cambridge, UK, 2001
11. "Unilever Research Colworth", Bedford, UK, 2000
12. University of California, Sensor & Actuator Center, Berkeley, USA, 2000

13. Technische Universitat of Bundeswehr, Munich, Germany, 1997
14. University of Heidelberg, Heidelberg, Germany, 1997
15. Bioaffinity Sensors, Fissons, Cambridge, UK, 1992

9. RESEARCH GRANTS

2011-2013 Ministry of Education, Heraclitus II
"Study of the mechanism of interaction of antimicrobial peptides α-defensins using biosensors"
No of participating groups: 1
Project role: Principal Investigator
Total Budget: €45,000

2010-2013 European Union, Cost Action CM0902
"Molecular machineries for ion translocation across membranes"
Network role: Management Committee Member

2009-2011 General Secretariat for Research and Technology (GSRT)/ DAAD
"Biosurfaces and devices for the study of cancerous cells and the specific activation of T-lymphocytes"
No of participating groups: 2
Project role: Principal Investigator
Total Budget: €20,000
Biosensor's lab budget: €10,000

2008 ELKE, Univ. of Crete
"Study of the mechanism of action of the antimicrobial peptide Crp4 by using biosensors"
Project role: Principal Investigator
Budget: €3,500

2007-2009 European Union, Marie Curie Research Training Network
"European network on selection and analysis of protein-protein interactions"
No of participating groups: 10
Project role: Participating Member
Total Budget: €2,207,554
Biosensor's lab budget: €147,139

2006-2008 Greek Secretariat of Research and Technology, ENTER
"Study of the elusion profile of immobilized BMP-2 and VEGF proteins from implants using biosensors"
Project role: Principal Investigator
Biosensor's lab budget: €80,000

2006-2009 Greek Secretariat of Research and Technology, PENED
"Biosensor for the detection of protein interactions"
No of participating groups: 3
Project role: Coordinator
Total Budget: €139,450
Biosensor's lab budget: €46,483

2005 European Union, Marie Curie European Return and Reintegration Grant
"Mechanism of interaction of antimicrobial peptides with the cell membrane – a study using biosensing technologies"
Project role: Principal Investigator
Biosensor's lab budget: €40,000

2005-2006 Ministry of Education, Pythagoras II,
"Development of polymer surfaces for the formation of membrane arrays"
Project role: Principal Investigator
Biosensor's lab budget: €37,250

2004-2007 Human Frontier Science Program (HFSP)
"Mechanism of antimicrobial peptide interactions with the target cell membrane"
No of participating groups: 4

	Project role:	Coordinator
	Total Budget:	€1,106,557
	Biosensor's lab budget:	€377,050
2004-2006	Greek Secretariat of Research and Technology and British Council	
	"Polymer patterns for the formation of membrane arrays"	
	No of participating groups:	2
	Project role:	Group Leader
	Total Budget:	€23,000
	Biosensor's lab budget:	€11,500
2003-2006	European Union, FW6	
	"Nano-2-Life Consortium"	
	Project role:	IMBB participating member
	Total Budget:	€315,000
1999-2002	Biotechnology and Biological Sciences Research Council (BBSRC)	
	Project role:	Group Leader
	Budget:	€315,000
1999	Nuffield Foundation, Oxford, UK	
	Project role:	Group Leader
	Budget:	€2,000
1999-2000	Sandia National Laboratory, USA	
	Project role:	Group Leader
	Budget:	€67,940
1998-1999	Royal Society, Equipment Grant, UK	
	Project role:	Group Leader
	Budget:	€7,900
1997-1999	British Council (Research Grant)	
	Project role:	Group Leader
	Budget:	€6,320
1996-2002	David Phillips BBSRC Research Fellowship	
	Budget:	€323,900
1995	British Council (Collaborative work between Ecole Polytechnique Federal de Lausanne (EPFL), Switzerland and UK)	
	No of participating groups:	2
	Project role:	Group Leader of UK team
	Budget:	€15,800

Research funded by companies

1/1-31/3/2006	Microtechnology Centre Ltd, Australia	
	"Evaluation of the sensitivity of the Love wave sensor towards the detection of *Legionella* bacteria"	
	Project role:	Principal Investigator
	Budget:	€30,000
2001-2003	Unilever Research Colworth, UK	
	"Development of sensitive immunoassays for protein detection"	
	Project role:	Principal Investigator
	Budget:	€47,400

10. TEACHING EXPERIENCE-SUPERVISION

Undergraduate

2004-today	Organic Chemistry, 1st Semester, Dept. of Biology, University of Crete
2001-2003	Biology of Cells, Trinity Hall and Sidney Sussex College, Natural Sciences, University of Cambridge, UK
1997-1998	Inorganic Chemistry, Sidney Sussex College, 2nd Semester, Natural Sciences, University of Cambridge, UK

Graduate

2009	"Biosensors", MSc. course in Analytical Instruments, Measurement & Sensor Technology, School of Optical, Electrical & Computer Engineering, University of Shanghai for Science & Technology/CHINA & Coburg University/GERMANY
2004-today	"Technologies for the study of protein interactions", MSc. course in Protein Biotechnology, University of Crete
2004	"Application of AFM in biological studies", MSc. course in Molecular Biology and Biotechnology, University of Crete
1997	"Molecular Sensor Technology", Graduate Course funded by Erasmus EU Program

Summer Schools

2004	"Biosensors; Application in Biology and Biotechnology" Dept. of Physics, University of Crete
2006-	"Acoustic Wave Sensors: Principles of acoustic waves and acoustic wave devices; biological applications" Methods in Macro-Nanotechnology and Nanobiotechnology, funded by EU (Nano2Life), Demokritos Research Institute, Greece

Supervision of Students

Ph.D.: 6 (5 awarded, 1 in progress); M.Sc.: 8; Rotation: 12

12. PUBLICATIONS

Edited Books & Book Chapters

1. *Biomolecular Sensors*, Eds E. Gizeli & C.R. Lowe, Taylor & Francis, UK, 2002
2. K. Melzak, E. Gizeli "Love Wave Biosensors" in *Handbook of Biosensors and Biochips*, Eds C.R. Lowe, D. Cullen, H.W. Weetall and I. Karube, John Wiley & Sons, 2007
3. K. Melzak, E. Gizeli "High frequency acoustic wave devices for analyses of planar lipid bilayers" in *Advances in planar lipid bilayers and liposomes,* Eds H.T. Tien & A. Ottava, Elsevier Academic Press, 2005
4. E. Gizeli "Acoustic Immunosensors" in *Biomolecular Sensors*, Eds E. Gizeli & C.R. Lowe, Taylor & Francis, UK, 2002

Patents

1. M. Saitakis, E. Gizeli "Analysing the binding of cell membrane bound molecules" WO 2009/037660
2. A. Tsortos, G. Papadakis, E. Gizeli, "Molecular conformation biosensing" WO 2008/155692
3. E. Gizeli and A.C. Stevenson "Chemical sensor for detecting binding reactions" WO9201931

Peer reviewed articles (* corresponding author)

1. M. Saitakis, E. Gizeli*, Acoustic sensors as a biophysical tool for probing cell attachment and cell/surface interactions, ***Cellular and Molecular Life Sciences***, in press.
2. A.Tsortos, G. Papadakis, E. Gizeli, The intrinsic viscosity of linear DNA, ***Biopolymers***, 95, 2011, 12, 824-832.
3. K. Mitsakakis & E. Gizeli*, Multi-sample acoustic biosensing microsystem for protein interaction analysis, ***Biosensors and Bioelectronic***, 26, 2011, 4579-4584.
4. K. Mitsakakis, E. Gizeli*, Detection of multiple cardiac markers with an integrated acoustic platform for cardiovascular risk assessment, ***Analytical Chimica Acta***, 699, 2011, 1-5 (selected on the cover page as "featured article").
5. M. Saitakis, E. Gizeli*, Quantification of the effect of glycocalyx condition on membrane receptor interactions using an acoustic wave sensor, ***European Biophysics Journal***, 40 , 2011, 209.
6. G. Papadakis/A. Tsortos, E. Gizeli*, Acoustic characterization of nanoswitch structures; application to the DNA Holliday Junction, ***Nano Letters***, 10, 2010, 5093-5097.
7. A. Pantazis, E. Gizeli*, G. Kostantinidis, A high frequency GaN Lamb-wave sensor device, ***Applied Physics Letters***, 96, 2010, 194103.
8. G. Papadakis, A. Tsortos, K. Mitsakakis, & E. Gizeli*, Characterization of DNA-Hv1 histone interactions; discrimination of DNA size and shape, ***FEBS Letters***, 584, 2010, 935-940.
9. M. Saitakis, A. Tsortos, E. Gizeli*, Probing the interaction of a membrane receptor with a surface-attached ligand using whole cells on acoustic biosensors, ***Biosensors and Bioelectronics***, 25, 2010, 1688-1693.
10. K. Melzak, A. Tsortos, E. Gizeli*, Use of Acoustic Sensors to probe the mechanical properties of liposomes, ***Methods in Enzymology***, 465, 2009, 21-41.
11. F. Bender, P. Roach, A. Tsortos, G. Papadakis, M.I. Newton, G. McHale, E. Gizeli*, Development of a combined surface plasmon resonance/surface acoustic wave device for the characterization of biomolecules, ***Measurement Science and Technology***, 20, 2009, Art. No: 124011.
12. G. Papadakis, A. Tsortos, E. Gizeli*, Triple-helix DNA structural studies using a Love wave acoustic biosensor, ***Biosensors & Bioelectronics***, 25, 2009, 702-707.
13. K. Mitsakakis, A. Tserepι, E. Gizeli*, SAW device integrated with microfluidics for array-type biosensing, ***Microelectronic Engineering***, 86, 2009**,** 1416-1418.
14. K. Mitsakakis, A. Tsortos, J. Kondoh, E. Gizeli*, Parametric study of SH-SAW device response to various types of surface perturbations, ***Sensors and Actuators B: Chemical***, 138, 2009, 408.
15. K.A. Melzak, E. Gizeli*, Relative activity of cholesterol in OPPC/cholesterol/sphingomyelin mixtures measured with an acoustic sensor, ***Analyst***, 134, 2009, 609-614.
16. C. Hadjicharalambous, T. Sheynis, R. Jelinek, M. Shanahan, A. Ouellette, E. Gizeli*, Mechanism of α-defensin bactericidal action: comparative membrane disruption by Cryptidin-4 and its disulfide-null analogue, ***Biochemistry***, 47, 2008, 12626-12634.
17. M. Saitakis, A. Dellaporta, E. Gizeli*, Measurement of 2D binding constants between cell bound MHC and immobilized antibodies with an acoustic biosensor, ***Biophysical Journal***, 95, 2008, 4963-4971.

18. A. Tsortos, G. Papadakis, E. Gizeli*, Shear acoustic wave biosensor for detecting DNA intrinsic viscosity and conformation: A study with QCM-D, ***Biosensors and Bioelectronics***, 24, 2008, 836-841.
19. T. Shahal, K.A. Melzak, C.R. Lowe, E. Gizeli*, Poly(dimethylsiloxane)-coated sensor devices for the formation of supported lipid bilayers and the subsequent study of membrane interactions, ***Langmuir***, 24, 2008, 11268-11275.
20. K.A. Melzak, F. Bender, A. Tsortos & E. Gizeli*, Probing mechanical properties of liposomes using acoustic sensors, ***Langmuir***, 24, 2008, 9172-9180.
21. K. Mitsakakis, A. Tserepi, E. Gizeli*, Integration of microfluidics with a Love wave sensor for the fabrication of a multisample analytical microdevice, ***Journal of Microelectromechanical Systems***, 17, 2008, 1010-1019.
22. A. Tsortos/G. Papadakis, K. Mitsakakis, K.A. Melzak, E. Gizeli*, Quantitative determination of size and shape of surface-bound DNA using an acoustic wave sensor, ***Biophysical Journal***, 94, 2008, 2706-2715.
23. M. Farsari, G. Filippidis, T. Drakakis, K. Sambani, S. Georgiou, G. Papadakis, E. Gizeli, C. Fotakis, Three-dimensional biomolecule patterning, ***Applied Surface Science***, 253, 2007, 8115-8118.
24. T. Drakakis, G. Papadakis, K. Sambami, G. Filippidis, S. Georgiou, E. Gizeli, C. Fotakis & M. Farsari, Construction of three-dimensional biomolecule structures employing femtosecond lasers, ***Applied Physics Letters***, 89, 2006, 144108.
25. E. Gizeli* & J. Glad, Single-step formation of a biorecognition layer for assaying histidine-tagged proteins, ***Analytical Chemistry***, 76 (14), 2004, 3995-4001.
26. K.A. Melzak, D.J. Ellar, E. Gizeli*, Interaction of cytolytic toxin CytB with a supported lipid bilayer; study using an acoustic wave device, ***Langmuir***, 20 (4), 2004, 1386-1392.
27. F. Martin, G. McHale, K. Melzak, E. Gizeli, M.I. Newton, Pulse mode shear-horizontal surface acoustic wave (SH-SAW) system for liquid-based sensing applications, ***Biosensors and Bioelectronics***, 19, 2004, 627-632.
28. E. Gizeli*, F. Bender, A. Rasmusson, K. Saha, F. Josse, R. Cernosek, Sensitivity of the acoustic waveguide biosensor to protein binding as a function of the waveguide properties, ***Biosensors and Bioelectronics***, 18, 2003, 1399-1406.
29. K. Saha, F. Bender, A. Rasmusson, E. Gizeli*, Probing the viscoelasticity and mass of a surface-bound protein layer with an acoustic waveguide device, ***Langmuir***, 19, 2003, 1304-1311.
30. K. Saha, F. Bender, E. Gizeli*, Comparative study of IgG binding to proteins G and A: non-equilibrium kinetic and binding constant determination with the acoustic waveguide device, ***Analytical Chemistry***, 75, 2003, 835-842.
31. M.I. Newton, G. McHale, F. Martin, E. Gizeli, K. Melzak, Generalized Love waves, ***Europhysics Letters,*** 58, 2002, 818-822.
32. K.A. Melzak, F. Martin, M.I. Newton, G. McHale, E. Gizeli*, Acoustic determination of polymer molecular weights and rotation times, ***Journal of Polymer Science B: Physics***, 40, 2002, 1490-1495.
33. K.A. Melzak, E. Gizeli*, A silicate gel promoting deposition of lipid bilayers, ***Journal of Colloid and Interface Science***, 246, 2002, 21-28.
34. A. Rasmusson, E. Gizeli*, Comparison of poly(methylmethacrylate) and Novolak waveguide coatings for an acoustic biosensor, ***Journal of Applied Physics***, 90, 2001, 5911-5914.
35. G. McHale, M.I. Newton, F. Martin, K. Melzak, E. Gizeli, Resonant conditions for Love wave guiding layer thickness, ***Applied Physics Letters***, 79, 2001, 3542-3543.
36. M.I. Newton, F. Martin, K.A. Melzak, E. Gizeli, G. McHale, Harmonic Love wave devices for biosensing applications, ***Electronics Letters***, 37, 2001, 340-341.
37. K.A. Melzak, E. Ralph, E. Gizeli*, Effect of the surface hydrophilicity on the formation of a membrane-type interface; Study using an acoustic wave device, ***Langmuir***, 17, 2001, 1594.
38. M.I. Newton, G. McHale, F. Martin, E. Gizeli, K.A. Melzak, Pulse mode operation of Love wave devices for biosensing applications, ***Analyst***, 126, 2001, 2107-2109.
39. E. Gizeli*, Study of the sensitivity of the acoustic waveguide sensor, ***Analytical Chemistry***, 72, 2000, 5967-5972.

40. C. MacMullen, H. Mehta, E. Gizeli*, C. Lowe, Modelling of the mass sensitivity of the Love wave device in the presence of a viscous liquid, ***Journal of Physics: D Applied Physics***, 33, 2000, 3053-3059.
41. E. Gizeli*, M. Liley, C.R. Lowe, H. Vogel, Antibody binding to a functionalized supported lipid layer: A direct acoustic immunosensor, ***Analytical Chemistry***, 69, 1997, 4808-4813.
42. E. Gizeli*, Design considerations for acoustic wave biosensors, ***Smart Materials and Structures***, 6, 1997, 700-706, (invited).
43. E. Gizeli, M. Liley, C.R. Lowe, H. Vogel, Detection of supported lipid layers with the acoustic Love waveguide device: Application to biosensors, ***Sensors and Actuators B Chemical***, 34, 1996, 295-300.
44. E. Gizeli, C.R. Lowe, Immunosensors, ***Current Opinion in Biotechnology***, 7, 1996, 66-79.
45. A.C. Stevenson, E. Gizeli, N.J. Goddard, C.R. Lowe, Acoustic Love plate sensors: a theoretical model for the optimization of the surface mass sensitivity, ***Sensors and Actuators B-Chemical***, 14, 1993, 635-637.
46. E. Gizeli, A.C. Stevenson, N.J. Goddard, C.R. Lowe, Acoustic Love plate sensors: comparison with other acoustic devices utilising surface SH waves, ***Sensors and Actuators B-Chemical***, 14 (1-3), 1993, 638-639.
47. C.R. Lowe, D.C. Cullen, E. Gizeli, N.J. Goddard, L.D. Gray -Stephens, P. Maynard & B. Yon-Hin, Biosensors, ***Clinical Biochemistry Review***, 13, 1992, 22-26.
48. E. Gizeli, A.C. Stevenson, N.J. Goddard, C.R. Lowe, A Love plate biosensor utilising a polymer layer, ***Sensors and Actuators B-Chemical***, 6 (1-3), 1992, 131-137.
49. E. Gizeli, A.C. Stevenson, N.J. Goddard, C.R. Lowe, A novel Love-plate acoustic sensor utilising polymer overlayers, ***IEEE Transactions on Ultrasonics Ferroelectric and Frequency Control***, 39 (5), 1992, 657-659.

Conference Proceedings

1. K. Mitsakakis, A. Tserepi, E. Gizeli*, An integrated microfluidics-on-SAW setup for multi-sample sensing, ***IEEE International Frequency Control Symposium Proceedings***, Hawaii 2008, 337-340.
2. A. Tsortos, G. Papadakis, E. Gizeli*, Acoustic wave biosensor for detecting DNA conformation; a study with QCM-D, ***IEEE International Frequency Control Symposium Proceedings***, Hawaii 2008, 346-349.
3. M. Saitakis, A. Dellaporta, E. Gizeli*, A surface acoustic wave sensor for the study of membrane-protein/ligand interactions using whole cells, ***IEEE International Frequency Control Symposium Proceedings***, Hawaii 2008, 356-359.
4. E.Gizeli, H. Mehta, C.R. Lowe, Novel calibration of the Love wave sensor utilising phospholipid bilayers, ***Chemical and Biological Sensors and Analytical Electrochemical Methods Proceedings***, 97 (19), Symposium of Electrochemical Society and International Society of Electrochemisty, Paris 1997, 155-164.

Press Reports

- For the article in *Biophysical Journal* (Tsortos et al. 2008)**:**
  1. **Commentary** in *HFSP Journal* (vol. 2(4), pp. 171-177, 2008)
  2. **Hot-off-the-press** report by the Human Frontier Science Program: «Acoustic waves can 'see' the conformation of surface-attached DNA molecules»
  3. **Report** in "*Biotech Business Week"* (*NewsRx*, p.796, 16/6/2008)
- For the article in *Biophysical Journal* (Saitakis et al. 2008)**: Report** in "*Biotech Business Week"* (*NewsRx*, 08/01/2009)
- For the article in *Biosensors & Bioelectronics* (Papadakis et al. 2009)**: Hot-off-the-press** report by the Human Frontier Science Program: «Novel biophysical method to characterize drug candidates for anti-gene therapy»