

## CURRICULUM VITAE

**Theodore K. Christopoulos**  
Professor, Department of Chemistry  
University of Patras  
Patras, Greece



*Date and Place of birth:* 25-Jul-1960, Arta, Greece  
*Family status:* Married, 4 children  
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### *Education*

1982 BSc in Pharmacy, University of Athens, Greece (Excellent)  
1987 PhD in Chemistry, University of Athens, Greece (Excellent)  
1991 Post-Doctoral Diploma in Clinical Chemistry, University of Toronto, Canada

### *Employment/Occupation*

2013-2017 Member of the University Council of the University of Patras, Patras, Greece (since Feb. 2013)  
2011-2013 Chair, Department of Chemistry, University of Patras, Greece (Sept. 2011 to Feb. 2013)  
2004-present Full Professor of Analytical Chemistry, Dept. of Chemistry, University of Patras  
2000-present Collaborating Faculty Member, Institute of Chemical Engineering Sciences/Foundation for Research and Technology Hellas (ICE-HT/FORTH)  
1999-2003 Associate Professor, Dept. of Chemistry, University of Patras  
1999 Full Prof., Dept. of Chemistry & Biochemistry, Univ. of Windsor, Ontario, Canada.  
1998 Visiting Assoc. Prof., Dept. of Molecular Genetics, Harvard University, Boston, MA  
1996-1999 Assoc. Prof. (tenured), Dept. of Chem. & Biochem., Univ. of Windsor, Canada  
1992-1996 Assist. Prof., Dept. of Chem. and Biochem., Univ. of Windsor, Ontario, Canada  
1989-1992 Post-Doctoral Research Associate, Department of Clin. Biochemistry, School of Medicine, University of Toronto, Canada

### ***Research Activities***

- Micro- and Nanotechnology in Modern Chemical Analysis
- Microanalytical Systems-Biosensors
- Chemical Instrumentation. Automation of Chemical Analysis.
- Fluorescence/Time-Resolved Fluorescence, Bio(chemi)luminescence
- Recombinant DNA Technology for the Development of New Reporter Molecules
- Technology for DNA, RNA and Protein Analysis

### ***Awards and Distinctions***

- 1985 The '*Canadian Society of Clinical Chemists Best Poster Award*'
- 1990 The '*CSCC Award to encourage research in Clinical Chemistry*'
- 1991 The '*Student Travel Grant*' from the Ontario Soc. of Clin.Chem.
- 1992 The '*Canadian Society of Clinical Chemists Best Poster Award*'
- 1993 The '*Young Investigator Award*', from the Upstate NY Section of American Association for Clinical Chemistry (AACC).
- 1994 The '*Van Slyke Society Grant Award*' from AACC.
- 1995 The '*Canadian Society of Clinical Chemists (CSCC) Best Poster Award*'
- 1995 '*Oncor Prize for the best oncology related poster presentation*' at the San Diego Conference on 'Nucleic Acids: A Decade of Discovery'.
- 1997 The Grannis Award for: "Excellence in Research and Scientific Publication" from the U.S.A National Academy of Clin. Biochemistry.**  
**"The award is given annually to an individual whose work is exemplary"**
- 2000 Research Award from the Empeirikeio Foundation, Athens, Greece
- 2008 *Two* Best Oral Presentation Awards at the XVI Meeting of Balkan Clinical Laboratory Federation & 7th Hellenic Congress of Clinical Chemistry, Athens
- 2009 Best Oral Presentation. *8o Hellenic Clinical Chemistry Conference*, Patras
- 2011 Selected at the top 21 achievements (finalists) from the 295 submitted to the Competition for 'Applied Research and Innovation', organized by the Hellenic Federation of Enterprizes & Eurobank (Athens, 2011)
- 2013 Selected at the top 10 achievements (finalists) from the 143 submitted to the Competition for Innovation, organized by the Hellenic Association of Pharmaceutical Companies (SFEE) (Athens).

### ***Invited speaker (the international are in bold)***

- 1. Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Detroit, MI, 1993**
- 2. Clinical Ligand Assay Society, Dearborn, MI, 1993.**
- 3. American Association for Clinical Chemistry, Detroit, MI, 1994.**
- 4. American Association for Clin. Chemistry, Molecular Pathology, Chicago, IL, 1996**
5. University of Athens, Department of Chemistry, 1996
6. University of Ioannina, Department of Medicine, 1996
7. University of Athens, Medical School, 1996
- 8. Harvard Medical School, Dept. of Molecular Genetics, Boston, MA, 1997**
- 9. Scripps Research Institute, La Jolla, CA, 1997**
- 10. Univ. of Michigan, Dept. of Chemistry, Ann Arbor, MI, 1997**

11. **Univ. of Alberta, Dept. of Chemistry, Edmonton, Canada, 1998**
12. University of Athens, Department of Chemistry, 1998
13. **Conference on DNA Technologies in Human Disease Detection, San Diego, CA, 1998**
14. **ECOSEP I Conference (International), Patras, 1998.**
15. **University of Vienna, Medical School, 1999**
16. Hellenic Association of Clinical Chemistry, Paster Institute, Athens, 2000
17. ICE-HT/FORTH, Patra, 2000
18. Hellenic Society of Biology Conference, Athens, 2000
19. University of Patras, Department of Medicine, 2001
20. Hellenic Chemical Society Conference, 2001.
21. **Controlled Release Society/Pharmaceutical Association, Athens, 2001**
22. National Technical University of Athens, Dept. of Chemical Engineering, Athens, 2002
23. Hellenic Chemical Society Conference, Herakleion, Crete, 2002
24. University of Crete, Dept. of Biology, 2002
25. **Aegean Analytical Chemistry Days Conference (International), Lesvos, 2002**
26. Hellenic Conference of the Society of Biological Sciences, Eretria, Greece 2002
27. **International conference on ‘Mutation Detection’, Santorini, 2005.**
28. Hellenic Biotechnology Club Meeting & NanoBiotech Business Day, Athens, Greece 2005.
29. Biosciences conference, University of Patras, Greece 2005.
30. ICEHT/FORTH, Patras, Greece 2005.
31. Hellenic Conference on Food Technology and Biotechnology, Athens, 2005
32. Foundation for Research and Technology Hellas (FORTH) symposium, 2007.
33. **International Greek Biotechnology Forum, Athens, Greece 2008.**
34. National Research Council, Institute of Biological Sciences and Biotechnology, Athens, Greece 2008.
35. **International Symposium on Luminescence Spectroscopy, Bologna, Italy 2008.**
36. **International Workshop on Multianalyte Biosensing Devices, Athens, 2008**
37. **International Intensive Course and Workshop on ‘Nanomedicines-nanoparticulates for drug delivery’, Patras, Greece 2008**
38. ‘Pharmacogenomics and personalized Medicine, Athens, Greece 2009.
39. **International conference on ‘Mutation Detection’, Santorini, Greece 2011.**
40. Summer school on ‘Nanomaterials and Devices’, University of Patras, 2012
41. **5<sup>th</sup> BBBB International Conference ‘From drug discovery and formulation strategies to Pharmacokinetics and Pharmacodynamics’, Athens, Sept 2013**
42. **2<sup>nd</sup> Conference on Pharmaceutical Sciences, Patras, Greece, Oct. 2014**
43. **3<sup>rd</sup> Hellenic Forum on Advanced Science Technology & Innovation. Workshop on ‘Advanced biosensing devices for biomedical and food analysis applications’, Athens, Jul. 2015**
44. Foundation for Research & Technology Hellas, Institute of Chemical Engineering Sciences, Patras, Greece, Jun 2015.
45. **17<sup>th</sup> Hellenic Pharmaceutical Conference, Athens Greece Oct. 2015.**
46. **17<sup>th</sup> Medicinal Chemistry Conference, Spetses Greece Aug 2016.**
47. **5<sup>th</sup> Health Forum, Patras, Greece May 2017**

### ***Teaching experience***

- *University of Patras (1999-present)*

Undergraduate courses: ‘Instrumental Chemical Analysis-1’, ‘Instrum. Chem. Anal.-2’, ‘Qualitative/Quantitative Analysis’ (Lectures & Laboratory exercises), ‘Instrumental Methods for Biomolecular Analysis’

Graduate courses: Micro/Nanotechnology-Chemical sensors

- *University of Windsor, Ontario, Canada (1992-1999)*  
Undergraduate courses: ‘Principles of Instrumental Analysis’, ‘Intermediary Metabolism’, ‘General Chemistry’.  
Graduate courses: ‘Advanced Bioanalytical Topics’, ‘Clinical Chemistry I’, ‘Clinical Biochemistry I’, ‘Instrumental Analysis in Clinical Chemistry’.

### ***PhD Theses Supervisor***

16 PhD theses have been completed under my supervision (7 in Canada and 9 in Greece) and 1 is in Progress.

### ***MSc Theses Supervisor***

12 MSc theses have been completed under my supervision (2 in Canada and 10 in Greece)

### ***Supervisor of 4<sup>th</sup> Year Projects***

Over 40 students have completed their 4<sup>th</sup> year project under my supervision (5 in Canada, >35 in Greece)

### ***Organization of Scientific Conferences***

- Organizer and Chair of the International Conference: ‘Instrumental Methods of Analysis-Modern Trends and Applications—IMA07’, 2007. Patras, Greece
- Member of the Scientific Committee of the ‘International Symposium on Luminescence Spectroscopy, Bologna, Italy, 2008.
- Member of the Advisory Committee ‘34<sup>th</sup> International Conference on Micro and Nanoengineering’, Athens, Greece 2008
- Member of the Scientific Committee, 8<sup>th</sup> Conference of the Hellenic Association of Clinical Chemistry-Clinical Biochemistry, Patras, Greece 2009
- Organizer and Chair of the ‘International Symposium on Luminescence Spectroscopy’, Rhodes, 2014.

### ***Organization for Workshops***

48. ‘Molecular Biology Techniques’, University of Toronto, Canada 1992, 1993, 1994 and 1995.
49. ‘Molecular Biology Techniques’ Canadian Society of Clinical Chemists, Whistler, BC, Canada 1995.
50. Symposium on ‘Advances in Analytical Methods for Biomolecules’, Canadian Chemical Society, Windsor, Canada, 1997.

### ***Referee for 17 International Scientific Journals***

### ***Editorial Board Member***

Analytical & Bioanalytical Chemistry (2017-2019)  
Clinica Chimica Acta (1999-present)  
Clinical Biochemistry (1999)

***Administrative work***

- 1992-98 Member of the Graduate Studies Committee, Dept. of Chem. and Biochem., Univ. of Windsor, Ontario, Canada.
- 1995-98 Scholarships Officer, Dept. of Chem. and Biochem., U of Windsor
- 1995-96 Awards Committee, U. of Windsor.
- 1995-96 Member of the Graduate Council of the U. of Windsor.
- 1999 Member of the Executive Committee, School of Physical Sciences, U. of Windsor.
- 2000-05 Member of the Student Transfer Committee, Dept. of Chemistry, University of Patras, Greece
- 2001-05 Member of the Committee for the Centre of Instrumental Analysis, University of Patras.
- 2002-03 & 2011-13 Member of the Senate, University of Patras, Greece
- 2006 Member of the 'Health and Safety Committee', Department of Chemistry, University of Patras
- 2005-present Member of the Coordinating Committee for the Program of Graduate Studies, Dept of Chemistry, University of Patras.
- 2007-10 Member of the Committee for Recycling at the University of Patras.
- 2007-10 Coordinator of the Committee for the Undergraduate Laboratory Training in the Chemistry Dept., University of Patras.
- 2007-present Member of the Undergraduate Curriculum Committee, Dept. of Chemistry, University of Patras.
- 2009-present Member of the Internal Evaluation Committee for the Department of Chemistry, University of Patras.
- 2010-present Coordinator of the MSc program in 'Analytical Chemistry & Nanotechnology' offered by the Chemistry Dept., University of Patras.
- 2011-13 Chairman, Department of Chemistry, University of Patras, Greece
- 2011-16 Coordinator of the Internal Evaluation Committee of the Dept. of Chemistry, University of Patras
- 2011-16 Coordinator of the Committee for 'Promotion, Development and Transparency' of the Chemistry Dept., University of Patras
- 2011-13 Member of the Committee for Connecting the Chemistry Department with the Economy of Greece.
- 2011-13 Member of the Erasmus Committee (European Student Mobility Program)
- 2011-16 Member of the Committee for the 'Practical Exercise' (Industrial placements) of the Dept. of Chemistry, University of Patras
- 2013-present Member of the University Council of the University of Patras, Greece

## CUMULATIVE DATA ON PUBLISHED WORK (CAREER TOTALS)

<b>Original research publications (ISI):</b>	<b>106</b>
<b>Review articles (Invited):</b>	<b>8</b>
<b>Books (in English):</b>	<b>2</b>
<b>Chapters in international books:</b>	<b>14</b>
<b>Communications to international scientific conferences:</b>	<b>&gt;80</b>
<b>Communications to national scientific meetings:</b>	<b>&gt;21</b>
<b>Patents (Greek):</b>	<b>5</b>

### *Quality of Scientific Journals*

<b>Impact Factor</b>	<b>Number of papers</b>	<b>Journal</b>
<i>IF &gt; 13</i>	1	<i>J. Am. Chem. Soc.</i>
<i>10 &lt; IF &lt; 11</i>	4	<i>Nucleic Acids Res.</i>
<i>7 &lt; IF &lt; 8</i>	15	<i>Biosens. Bioelectron. (4)</i> <i>Clin. Chem. (11)</i>
<i>6 &lt; IF &lt; 7</i>	25	<i>Anal. Chem. (25)</i>
<i>5 &lt; IF &lt; 6</i>	9	<i>Anal. Chim. Acta (8)</i> <i>Crit Rev Clin Lab Sci. (1)</i>
<i>4 &lt; IF &lt; 5</i>	5	<i>Bioconj. Chem. (1)</i> <i>Eur. J. Hum. Genet.(1)</i> <i>Hum Mutat. (2)</i> <i>Microchim. Acta (1)</i>
<i>3 &lt; IF &lt; 4</i>	24	<i>Anal. Bioanal. Chem. (9)</i> <i>Analyst (7)</i> <i>J. Agr. Food. Chem. (3)</i> <i>Nanotechnology (1)</i> <i>Electrophoresis (1)</i> <i>Clin. Chem. Lab. Med. (1)</i> <i>Biotechniques (1)</i> <i>Methods (1)</i>
<i>IF &lt; 3</i>	22	<i>Anal. Biochem. (6)</i> <i>Chem. Phys. Lett. (1)</i> <i>Clin. Biochem (4)</i> <i>Clin. Chim. Acta (3)</i> <i>Genet. Test. (1)</i> <i>J. Chromatogr. B (1)</i> <i>J. Imm. Meth. (1)</i> <i>J. Chem. Edu. (1)</i> <i>J. Pharm. Sci. (1)</i> <i>Microchem. J (1)</i> <i>Pharmacogenomics (1)</i> <i>Prot. Expr. Purif. (1)</i>

## LIST OF PUBLICATIONS

### (A) ORIGINAL PUBLICATIONS

- A106. Kyriakou IK, Mavridis K, Kalogianni DP, Christopoulos TK, Ioannou PC, Skorilas A. Multianalyte quantitative competitive PCR on optically encoded microspheres for an eight-gene panel related to prostate cancer. *Analytical & Bioanalytical Chemistry*, **2017**; DOI: 10.1007/s00216-017-0595-0
- A105. Kouloulia S, Lazaridou M, Christopoulos TK, Ioannou PC. Multi-allele dipstick assay for visual genotyping of four novel SIRT1 gene variant alleles as candidate biomarkers for sporadic Parkinson disease. *Microchimica Acta*, **2017**; 184: 2845-2853.
- A104. Spyrou EM, Kalogianni DP, Tragoulis SS, Ioannou PC, Christopoulos TK. Digital camera and smartphone as detectors in paper-based chemiluminometric genotyping of single-nucleotide polymorphisms. *Analytical & Bioanalytical Chemistry*, **2016**; 408, 7393-7402.
- A103. Fountoglou N, Petropoulou M, Iliadi A, Christopoulos TK, Ioannou PC. Two-panel molecular testing for genetic predisposition for thrombosis using multi-allele visual biosensors. *Analytical & Bioanalytical Chemistry*, **2016**; 408: 1943-1952.
- A102. Amvrosiadou M, Petropoulou M, Poulou M, Tzetis M, Kanavakis E, Christopoulos TK, Ioannou PC. Multi-allele genotyping platform for the simultaneous detection of mutations in the Wilson disease related ATP7B gene. *Journal of Chromatography B*, **2015**; 1006: 201-208.
- A101. Petropoulou M, Poula A, Kanavakis E, Traeger-Synodinos J, Christopoulos TK, Ioannou PC. Screening nondeletion alpha-thalassemia mutations in the HBA1 and HBA2 genes by high-resolution melting analysis. *Clinical Chemistry & Laboratory Medicine*; **2015**; 53: 1951-1959.
- A100. Petropoulou M, Poula A, Traeger-Synodinos J, Kanavakis E, Christopoulos TK, Ioannou PC. Multi-allele DNA biosensor for the rapid genotyping of 'nondeletion' alpha thalassaemia mutations in HBA1 and HBA2 genes by means of multiplex primer extension reaction. *Clinica Chimica Acta*, **2015**; 446: 241-247
- A99. Kalogianni DP, Bazakos C, Boutsika L, Targem M, Christopoulos TK, Kalaitzis P, Ioannou PC. Olive oil DNA fingerprinting by multiplex SNP-genotyping on fluorescent microspheres. *Journal of Agricultural and Food Chemistry*, **2015**; 63:3121-3128
- A98. Sapountzi EA, Tragoulis SS, Kalogianni DP, Ioannou PC, Christopoulos TK. Lateral flow devices for nucleic acid analysis exploiting quantum dots as reporters. *Analytica Chimica Acta*, **2015**; 864:48-54
- A97. Papanikos F, Skoulatou C, Sakellariou P, Kekou K, Christopoulos TK, Kanavakis E, Traeger-Synodinos J, Ioannou PC. A simplified approach for FSHD molecular testing.

*Clinica Chimica Acta*, **2014**; 429:96-103

- A96. Papanikos F, Iliadi A, Petropoulou M, Penelope C, Ioannou PC, Christopoulos TK, Kanavakis E, Traeger-Synodinos J. Lateral flow dipstick test for genotyping of 15 beta-globin gene (*HBB*) mutations with naked-eye detection. *Analytica Chimica Acta*, **2012**; 727: 61-66.
- A95. Trantakis IA, Christopoulos TK, Spaniolas S, Kalaitzis P, Ioannou PC, Tucker GA. Quantitative bioluminometric method for DNA-based species/variety identification in food authenticity assessment. *Journal of Agricultural & Food Chemistry*, **2012**; 60: 912-916.
- A94. Trantakis IA, Spaniolas S, Kalaitzis P, Ioannou PC, Tucker GA, Christopoulos TK. Dipstick test for DNA-based food authentication. Application to coffee authenticity assessment. *Journal of Agricultural & Food Chemistry*, **2012**; 60: 713-717.
- A93. Iliadi A, Petropoulou M, Ioannou PC, Christopoulos TK, Anagnostopoulos NI, Kanavakis E, Traeger-Synodinos J. Absolute quantification of the alleles in somatic point mutations by bioluminometric methods based on competitive PCR in the presence of a locked nucleic acid blocker or an allele-specific primer. *Analytical Chemistry*, **2011**; 83: 6545-6551.
- A92. Kalogianni DP, Boutsika L, Kouremenou P, Christopoulos TK, Ioannou PC. Carbon nano-strings as reporters in lateral-flow devices for DNA sensing by hybridization. *Analytical & Bioanalytical Chemistry*, **2011**; 400: 1145-1152.
- A91. Elenis D, Ioannou PC, Christopoulos TK. A nanoparticle-based sensor for visual detection of multiple mutations. *Nanotechnology*, **2011**, 22, 155501
- A90. Litos IK, Ioannou PC, Christopoulos TK, Tzetis M, Kanavakis E, Traeger-Synodinos J. Quadruple-allele dipstick test for simultaneous visual genotyping of A896G (Asp299Gly) and C1196T (Thr399Ile) polymorphisms in the toll-like receptor-4 gene. *Clinica Chimica Acta*, **2011**; 412: 1968-1972.
- A89. Petrakis EC, Trantakis IA, Kalogianni DP, Christopoulos TK. Screening for unknown mutations by a bioluminescent protein truncation test with homogeneous detection. *Journal of the American Chemical Society*, **2010**; 132: 5091-5095.
- A88. Vlachou MA, Glynou KM, Ioannou PC, Christopoulos TK, Vartholomatos G. Development of a three-biosensor panel for visual detection of thrombophilia-associated mutations. *Biosensors & Bioelectronics* **2010**; 26: 228-234
- A87. Konstantou JK, Iliadi AC, Ioannou PC, Christopoulos TK, Anagnostopoulos NI, Kanavakis E, Traeger-Synodinos J. Visual screening for JAK2V617F mutation by a disposable dipstick. *Analytical & Bioanalytical Chemistry*, **2010**; 397(5): 1911-1916.



- A86. Trantakis IA, Fakis M, Tragoulias SS, Christopoulos TK, Persephonis P, Giannetas V, Ioannou P. Ultrafast fluorescence dynamics of Sybr Green I/DNA complexes.  
*Chemical Physics Letters*, **2010**; 485: 187-190.
- A85. Tsiakalou V, Petropoulou M, Ioannou PC, Christopoulos TK, Kanavakis E, Anagnostopoulos N, Savvidou I, Traeger-Synodinos J. Bioluminometric assay for relative quantification of mutant allele burden. Application to the oncogenic somatic point mutation JAK2V617F.  
*Analytical Chemistry*, **2009**; 81: 8596-8602.
- A84. Iliadi A, Makrythanasis P, Tzetis M, Tsipi M, Traeger-Synodinos J, Ioannou PC, Kanavakis E, Christopoulos TK. Association of TLR4 single nucleotide polymorphisms and sarcoidosis in Greek patients.  
*Genetic Testing & Molecular Biomarkers*, **2009**; 13: 849-853.
- A83. Litos IK, Ioannou PC, Christopoulos TK, Traeger-Synodinos J, Kanavakis E. Multianalyte, dipstick-type, nanoparticle-based DNA biosensor for visual genotyping of single-nucleotide polymorphisms.  
*Biosensors & Bioelectronics*, **2009**; 24: 3135-3139.
- A82. Elenis DS, Ioannou PC, Christopoulos TK. Quadruple-allele chemiluminometric assay for simultaneous genotyping of two single-nucleotide polymorphisms.  
*Analyst*, **2009**; 134: 725-730.
- A81. Toubanaki DK, Christopoulos TK, Ioannou PC, Flordellis CS. Identification of single-nucleotide polymorphisms by the oligonucleotide ligation reaction – A DNA biosensor for simultaneous visual detection of both alleles.  
*Analytical Chemistry*, **2009**; 81: 218-224.
- A80. Toubanaki DK, Christopoulos TK, Ioannou PC, Flordellis CS. High-throughput chemiluminometric genotyping of single nucleotide polymorphisms of histamine, serotonin and adrenergic receptor genes.  
*Analytical Biochemistry* **2009**; 385: 34-41.
- A79. Toubanaki DK, Christopoulos TK, Ioannou PC, Gravanis A. Visual genotyping of single nucleotide polymorphisms by tetra-primer PCR coupled with a dry-reagent disposable biosensor.  
*Pharmacogenomics*, **2009**; 10: 495-504.
- A78. Kalogianni DP, Litos IK, Christopoulos TK, Ioannou PC. Dipstick-type biosensor for visual detection of DNA with oligonucleotide-decorated colored polystyrene microspheres as reporters.  
*Biosensors & Bioelectronics*, **2009**; 24: 1811-1815.
- A77. Konstantou JK, Ioannou PC, Christopoulos TK. Dual-allele dipstick assay for genotyping single nucleotide polymorphisms by primer extension reaction.  
*European Journal of Human Genetics*, **2009**; 17: 105-111.
- A76. Toubanaki DK, Christopoulos TK, Ioannou PC and Gravanis A. Dry-reagent disposable biosensor for visual genotyping of single nucleotide polymorphisms by oligonucleotide ligation reaction. Application to pharmacogenetic analysis.  
*Human Mutation*, **2008**; 29: 1071-1078

- A75. Iliadi A, Ioannou PC, Traeger-Synodinos J, Kanavakis E, Christopoulos TK. High-throughput microtiter well-based bioluminometric genotyping of two single nucleotide polymorphisms in the toll-like receptor-4 (TLR4) gene. *Analytical Biochemistry*, **2008**; 376: 235-241.
- A74. Tragoulias SS, Obeid PJ, Tataridis I, Christopoulos TK. Home-built integrated microarray system (IMAS). A three-laser confocal fluorescence scanner coupled with a microarray printer. *Analytical & Bioanalytical Chemistry*, **2008**; 390: 1563-1573.
- A73. Elenis DS, Ioannou PC, Christopoulos TK. Quadruple-analyte chemiluminometric hybridization assay. Application to double quantitative competitive polymerase chain reaction. *Analytical Chemistry*, **2007**; 79: 9433-9440.
- A72. Litos I, Emmanouilidou E, Glynou K, Laios E, Ioannou PC, Christopoulos TK, Kampa M, Kastanas E, Gravanis A. Rapid genotyping of CYP2D6, CYP2C19 and TPMT polymorphisms by primer extension reaction in a dipstick format. *Analytical & Bioanalytical Chemistry*, **2007**; 389: 1849-1857.
- A71. Kalogianni DP, Elenis DS, Christopoulos TK, Ioannou PC. Multiplex quantitative competitive polymerase chain reaction (MQC-PCR) based on a multianalyte hybridization assay performed on spectrally encoded microspheres. *Analytical Chemistry*, **2007**; 79: 6655-6661.
- A70. Konstantou J, Ioannou PC, Christopoulos TK. Genotyping of single nucleotide polymorphisms by primer extension reaction and a dual-analyte bio/chemiluminometric assay. *Analytical & Bioanalytical Chemistry*, **2007**; 388: 1747-1754.
- A69. Kalogianni DP, Bravou VT, Christopoulos TK, Ioannou PC, Zoumbos NC. Dry-reagent disposable dipstick test for visual screening of seven leukemia-related chromosomal translocations. *Nucleic Acids Research*, **2007**; 35:e23, 1-12.
- A68. Litos IK, Ioannou PC, Christopoulos TK, Traeger J, Kanavakis E. Genotyping of single nucleotide polymorphisms by primer extension reaction in a dry-reagent dipstick format. *Analytical Chemistry*, **2007**; 79: 395-402. *Accelerated Article*.
- A67. Glynou K, Kastanis P, Boukouvala S, Tsaoussis V, Ioannou P, Christopoulos TK, Traeger J, Kanavakis E. High-throughput microtiter well-based chemiluminometric genotyping of 15 HBB gene mutations in a dry-reagent format. *Clinical Chemistry*, **2007**; 53: 384-391.
- A66. Kalogianni DP, Goura S, Aletras AJ, Christopoulos TK, Chanos MG, Christofidou M, Skoutelis A, Ioannou PC, Panagiotopoulos E. Dry-reagent dipstick test combined with 23S rRNA PCR for molecular diagnosis of bacterial infection in arthroplasty. *Analytical Biochemistry*, **2007**; 361: 169-175.
- A65. Zerefos PG, Ioannou PC, Traeger-Synodinos J, Dimissianos G, Kanavakis E, Christopoulos TK. Photoprotein aequorin as a novel reporter for SNP

- genotyping by primer extension. Application to the variants of mannose-binding lectin gene.  
*Human Mutation*, **2006**; 27: 279-285.
- A64. Kalogianni DP, Koraki T, Christopoulos TK, Ioannou PC. Nanoparticle-based DNA biosensor for visual detection of genetically modified organisms.  
*Biosensors & Bioelectronics*, **2006**; 21: 1069-1076.
- A63. Zerefos PG, Ioannou PC, Christopoulos TK. Method for rapid conjugation of recombinant photoprotein aequorin with streptavidin and application as a universal detection reagent for binding assays.  
*Analytica Chimica Acta*, **2006**; 558: 267-273.
- A62. Mavropoulou AK, Koraki T, Ioannou PC, Christopoulos TK. High-throughput double quantitative competitive polymerase chain reaction for determination of genetically modified organisms.  
*Analytical Chemistry*, **2005**; 77: 4785-4791.
- A61. Emmanouilidou E, Tannous B, Ioannou PC, Christopoulos TK. Duplex RT-PCR and chemiluminometric hybridization assay for combined screening of the mRNAs of prostate-specific antigen and prostate-specific membrane antigen in peripheral blood.  
*Analytica Chimica Acta*, **2005**; 531: 193-198.
- A60. Emmanouilidou E, Ioannou PC, Christopoulos TK. High-throughput chemiluminometric determination of prostate-specific membrane antigen mRNA in peripheral blood by RT-PCR using a synthetic RNA internal standard.  
*Analytical & Bioanalytical Chemistry*, **2004**; 380: 90-97.
- A59. Obeid PJ, Christopoulos TK, Ioannou PC. Rapid analysis of genetically modified organisms by in-house developed capillary electrophoresis chip and laser-induced fluorescence system.  
*Electrophoresis*, **2004**; 25: 922-930.
- A58. Glynou K, Ioannou PC, Christopoulos TK. Detection of transgenes in soybean by polymerase chain reaction and a simple bioluminometric assay based on a universal aequorin-labeled oligonucleotide probe.  
*Analytical & Bioanalytical Chemistry*, **2004**; 378: 1748-1753.
- A57. Obeid PJ, Christopoulos TK, Crabtree HJ, Backhouse CJ. Microfabricated device for DNA and RNA amplification by continuous-flow PCR and RT-PCR with cycle number selection.  
*Analytical Chemistry*, **2003**; 75: 288-295.
- A56. Glynou K, Ioannou PC, Christopoulos TK, Syriopoulou V. Oligonucleotide-functionalized gold nanoparticles as probes in a dry-reagent strip biosensor for DNA analysis by hybridization.  
*Analytical Chemistry*, **2003**; 75, 4155-4160.
- A55. Glynou K, Ioannou PC, Christopoulos TK. Affinity capture-facilitated preparation of aequorin-oligonucleotide conjugates for rapid hybridization assays.  
*Bioconjugate Chemistry*, **2003**; 14: 1024-1029.

- A54. Tannous B, Verhaegen M, Christopoulos TK, Kourakli A. Combined flash- and glow-type chemiluminescent reactions for high-throughput genotyping of biallelic polymorphisms.  
*Analytical Biochemistry*, **2003**; 320: 266-272.
- A53. Emmanouilidou E, Ioannou PC, Christopoulos TK, Polizois K. Determination of prostate specific antigen mRNA in peripheral blood by RT-PCR and a simple chemiluminometric hybridization assay in a high-throughput format.  
*Analytical Biochemistry*, **2003**; 313: 97-105.
- A52. Obeid PJ, Christopoulos TK. Continuous-flow DNA and RNA amplification chip combined with laser-induced fluorescence detection.  
*Analytica Chimica Acta*, **2003**; 494: 1-9.
- A51. Glynou K, Ioannou PC, Christopoulos TK. One-step purification of recombinant photoprotein aequorin by immobilized metal-ion affinity chromatography.  
*Protein Expression & Purification*, **2003**; 27: 384-390.
- A50. Tannous BA, Laios E, Christopoulos TK. T7 RNA polymerase as a self-replicating label for antigen quantification.  
*Nucleic Acids Research*, **2002**; 30: e140 (1-7).
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