
Curriculum Vitae

Martina Samiotaki, PhD.

Operational Scientist
Macromolecular Analysis Laboratory
Institute of Molecular Oncology
B.S.R.C. "Alexander Fleming"

Date and Place of Birth	Stockholm, Sweden, 6 th of February 1967
Marrital status	Married with three children (Born: 1997, 1999, 2005)
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EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Uppsala	B.Sc.	1991	Biology
University of Uppsala	PhD.	1996	Medical Genetics
Hellenic Pasteur Institute	Postdoctoral Fellow	1996-1997	Biochemistry
"St. Savvas" Anti-Cancer Hospital	Postdoctoral Fellow	1997-2000	RNA Processing

Positions and Employment

Senior Research Scientist, B.S.R.C. "Alexander Fleming", 2000-2007

Operational Scientist C', Institute of Molecular Oncology, B.S.R.C. "Alexander Fleming", 2007 – present

Honors and Awards

Swedish Medical Research Council Postdoctoral Fellowship (1996-1997)

Peer-reviewed publications.

1. Parik J., Kwiatkowski M., Lagerkvist A., Lagerstrom M., **Samiotaki M.**, Stewart J., Glad G., Mendel-. Vol. 211, 144-150. 1993.

2. **Samiotaki M.**, Kwiatkowski M., Parik J., Landegren U. Dual color detection of DNA sequence variants through ligase-mediated analysis. *Genomics*, Vol. 20, 238-242. 1994.
3. Kwiatkowski M., **Samiotaki M.**, Lamminmaki U., Mukkala V., Landegren U. Solid-phase synthesis of chelate-labelled oligonucleotides: application in triple-color ligase mediated gene analysis. *Nucleic Acids Research*, Vol. 22, 2604-2611. 1994.
4. Nilsson M., Malmgren H., **Samiotaki M.**, Kwiatkowski M., Chowdary B., Landegren U. Padlock probes: Circularizing oligonucleotides for localized DNA detection. *Science*, Vol. 265. 2085-2088. 1994.
5. Landegren U., **Samiotaki M.**, Nilsson M., Malmgren H., Kwiatkowski M. Detecting genes with ligases. *Methods: a companion to Methods in Enzymology*, 9, 84-90. 1996.
6. **Samiotaki M.**, Kwiatkowski M, Ylitalo N, Landegren U. Seven-color time-resolved fluorescence hybridization analysis of human papilloma virus types. *Analytical Biochemistry*, Vol. 253(2):156-61.1997.
7. Hagberg A, Barbany G, Krook H, **Samiotaki M.**, Landegren U. Expression profiling across many samples via manifold-assisted mRNA processing. *Nucleic Acids Res.* Jun 1;28(11):E54. 2000.
8. Ioannidis P, Trangas T, Dimitriadis E, **Samiotaki M.**, Kyriazoglou I, Tsiapalis CM, Kittas C, Agnantis N, Nielsen FC, Nielsen J, Christiansen J, Pandis N. C-MYC and IGF-II mRNA-binding protein (CRD-BP/IMP-1) in benign and malignant mesenchymal tumors. *Int J Cancer.* Nov15; 94(4):480-4. 2001.
9. **Samiotaki M.**, Balatsos NA, Curtis N, Tsiapalis CM. Assignment of the 100-kDa subunit of cleavage and polyadenylation specificity factor (CPSF2) to human chromosome 14q31.3 by radiation hybrid mapping. *Cytogenet Cell Genet.*; 90(3-4):328-9. 2000.
10. **Samiotaki M.**, Balatsos NA, Curtis N, Tsiapalis CM. Assignment of the 160-kDa subunit of cleavage and polyadenylation specificity factor (CPSF1) to human chromosome 8q24.23 by radiation hybrid mapping. *Cytogenet Cell Genet.*;90(3-4):234-5. 2000.
11. Zamanou A, **Samiotaki M.**, Panayotou G, Margaritis L. Lymberi P. Fine specificity and subclasses of IgG anti-actin autoantibodies differ in health and disease. *Journal of Autoimmunity*: 20(4):333-44. 2003.
12. M. Vardakou, P. Katapodis, **M. Samiotaki**, D. Kekos, G. Panayotou, P. Christakopoulos. Mode of action of family 10 and 11 endoxylanases on water-unextractable arabinoxylan. *The International Journal of Biological Macromolecules*. 33: 129-134. 2003.
13. Sidera K, **Samiotaki M.**, Yfanti E, Panayotou G, Patsavoudi E. Involvement of cell surface HSP90 in cell migration reveals a novel role in the developing nervous system. *J Biol Chem*. 279(44):45379-88. 2004.
14. Vynios DH, Tsagaraki I, Grigoreas GH, **Samiotaki M.**, Panayotou G, Kyriakopoulou D, Georgiou P, Korbakis D, Panayotou A, Nanouri K, Assouti M, Andonopoulos AP. Autoantibodies against aggrecan in systemic rheumatic diseases. *Biochimie*. 88(7):767-73. 2006.
15. Mylonis I, Chachami G, **Samiotaki M.**, Panayotou G, Paraskeva E, Kalousi A, Georgatsou E, Bonanou S, Simos G. Identification of MAPK phosphorylation sites and their role in the localization and activity of hypoxia-inducible factor-1alpha. *J Biol Chem*. 281(44):33095-106. 2006.

16. Lindtner S, Zolotukhin AS, Uranishi H, Bear J, Kulkarni V, Smulevitch S, **Samiotaki M**, Panayotou G, Felber BK, Pavlakis GN. RNA-binding Motif Protein 15 Binds to the RNA Transport Element RTE and Provides a Direct Link to the NXF1 Export Pathway. *J Biol Chem.* 281(48):36915-28. 2006.
17. Tsoupras AB, Antonopoulou S, Baltas G, **Samiotaki M**, Panayotou G, Kotsifaki H, Mantzavinos Z, Demopoulos CA. Isolation and identification of hydroxyl-platelet-activating factor from natural sources. *Life Sci.* 79(19):1796-803. 2006.
18. E. A. Stea, J. G. Routsias, **M. Samiotaki**, G. Panayotou, E. Papalambros, H. M. Moutsopoulos and A. G. Tzioufas. Analysis of parotid glands of primary Sjogrens syndrome patients using proteomic technology reveals altered autoantigen composition and novel antigenic targets. *Clinical & Experimental Immunology*, 147, Issue 1. 81-99. 2007.
19. Fragopoulou E., Nomikos T., Karantonis C.H., Apostolakis C., Pliakis E., **Samiotaki M.**, Panagyotou G., Antonopoulou S. Biological Activity of Acetylated Phenolic Compounds. *J Agric Food Chem.* 55(1):80-9. 2007.
20. D. Tsimogiannis, **M. Samiotaki**, G. Panayotou, V. Oreopoulou. Characterization of flavonoid subgroup and hydroxy substitution with HPLC-MS/MS. *Molecules*: 593-606. 2007
21. Karantonis C.H., Tsantila N., Stamatakis G., **Samiotaki M.**, Panayotou G., Antonopoulou S. and Demopoulos CA. Bioactive polar lipids in olive oil, pomace and waste byproducts. *Journal of Food Biochemistry*, Vol 32, Issue 4, p443-459. 2007.
22. Fragopoulou E, Nomikos T, Karantonis HC, Apostolakis C, Pliakis E, **Samiotaki M**, Panayotou G, Antonopoulou S. Biological activity of acetylated phenolic compounds. *J Agric Food Chem.* 10;55(1):80-9. 2007.
23. Petroustos D., Katapodis P., **Samiotaki M.**, Panayotou G. & Kekos D. Detoxification of 2,4-dichlorophenol by the marine microalga *Tetraselmis marina*. *Phytochemistry.* 69(3):707-14. 2008.
24. Koliaraki V, Marinou M, **Samiotaki M**, Panayotou G, Pantopoulos K, Mamalaki A. Iron regulatory and bactericidal properties of human recombinant hepcidin expressed in *Pichia pastoris*. *Biochimie.* 90(5):726-35. 2008.
25. Sikara MP, Routsias JG, **Samiotaki M**, Panayotou G, Moutsopoulos HM, Vlachoyiannopoulos PG. β_2 glycoprotein I (β_2 GPI) binds platelet factor 4 (PF4): implications for the pathogenesis of antiphospholipid syndrome. *Blood.* 115, 713-723. 2009.
26. Stamatakis G, Tsantila N, **Samiotaki M**, Panayotou GN, Dimopoulos AC, Halvadakis CP, Demopoulos CA. Detection and Isolation of Antiatherogenic and Antioxidant Substances Present in Olive Mill Wastes by a Novel Filtration System. *J Agric Food Chem.* 2009.
27. Ikonou, G., **Samiotaki, M.** and Panayotou G. Proteomic approaches in colon cancer research. *Crit. Rev. Clin. Lab. Sci.* 46(5-6):319-42. 2009.
28. Makridakis M, Roubelakis MG, Bitsika V, Dimuccio V, **Samiotaki M**, Kossida S,, Panayotou G, Coleman J, Candiano G, Anagnou NP, Vlahou A., "Analysis of secreted proteins for the study of bladder cancer cell aggressiveness. ", *J Proteome Res.* 9(6): 3243-59. 2010.
29. Tsangaridou E, Polioudaki H, Sfakianaki R, **Samiotaki M**, Tzardi M, Koulentaki M, Panayotou G, Kouroumalis E, Castanas E, Theodoropoulos PA., "Differential detection of nuclear envelope autoantibodies in primary biliary cirrhosis using routine and alternative methods .", *BMC Gastroenterol*, 10., 28 . 2010.

30. Rapti A, Trangas T, **Samiotaki M**, Ioannidis P, Dimitriadis E, Meristoudis C, Veletza S, Curtis N. "The structure of the 5'-untranslated region of mammalian poly(A) polymerase-alpha mRNA suggests a mechanism of translational regulation .", *Mol Cell Biochem.* 2010 Jul;340(1-2):91-6. 2010.
31. Parapouli M, Fragkos-Livanios L, **Samiotaki, M**, Koukkou A, Perisynakis A, Hatziloukas E, *Panayotou G*, Drinas C., "Comparative proteomic analysis of alcoholic fermentation employing a new environmental strain of *Saccharomyces cerevisiae* .", *Process Biochemistry.* 45: 1094-1102. 2010.

Thesis Title

Samiotaki M. DNA Detection through oligonucleotide ligation and time-resolved fluorescence. Comprehensive summaries of Uppsala dissertations from the faculty of medicine 588. Acta Universitatis Upsaliensis. 1996.

Book Chapters

Landegren U., **Samiotaki M.**, Kwiatkowski M. Ligase mediated gene detection. *Encyclopedia of molecular biology: fundamentals and applications.* Ed. R. A. Meyers, VCH Publishers, Weinheim, 3, p. 391-399. 1995.

Samiotaki M., Kwiatkowski M. and Landegren U. OLA-dual color oligonucleotide ligation assay. In "*Laboratory protocols for mutation detection*". Ed. U. Landegren, Oxford University Press, Oxford. P 96-100. 1996.

Landegren U., **Samiotaki M.**, Kwiatkowski M., Parik J., Nilsson M., Hagberg A., Barbany G. DNA detection and sequence distinction through oligonucleotide ligation. *Mutation Detection: A Practical Approach (Practical Approach Series, No 188, Irl Pr).* Ed. Richard G. H. Cotton. 1998.

Selected Acknowledged Work

Gkiafi Z, Panayotou G. 2011, "Comparative Proteomic Analysis Implicates COMMD Proteins as Epstein-Barr Virus Targets in the BL41 Burkitt's Lymphoma Cell Line.", *J Proteome Res.*, 2011.

Prinarakis E, Chantzoura E, Thanos D, Spyrou G "S-glutathionylation of IRF3 regulates IRF3-CBP interaction and activation of the IFN beta pathway". *EMBO J.* 27(6):865-75. 2008.

Skopeliti M, Kratzer U, Altenberend F, Panayotou G, Kalbacher H, Stevanovic S, Voelter W, Tsitsilonis OE., "Proteomic exploitation on prothymosin alpha-induced mononuclear cell activation.", *Proteomics*, 7, 1814-1824. 2007.

Saridaki A, Panayotou G., 2005. Identification of growth factor-regulated proteins using 2D electrophoresis and mass spectrometry. *Growth Factors*, Sep;23(3):223-32. 2005.

Conferences and Workshops

1st Nordic Genome Workshop, Wisby, Gotland, Sweden. May 1991. Poster presentation.

International Symposium on Diagnosis of Sexually Transmitted Diseases, Uppsala, Sweden. August 1991. Poster presentation.

2nd Nordic Genome Workshop (HUGO), Oslo, Norway. May 1992. Oral presentation.

15th Annual Conference on the Organization and Expression of the Genome, Lorne Victoria, Australia. 15-19 February 1993. Oral presentation.

FEBS, Stockholm, Sweden. 4th -9th July 1993. Poster presentation.

17th International Congress of Genetics, Birmingham, United Kingdom. 15-21 August 1993. Poster presentation.

New Horizons in Gene Amplification Technologies: New Techniques and Applications. San Francisco, California, USA. 8-10 June 1994. Poster presentation.

Mutation Detection 1995. FEBS Lecture Course. Wisby, Gotland, Sweden. 18-21 May 1995. Poster presentation.

6th European Biosymposium, Biomolecular Interaction Analysis. Montpellier, France. 21-23 October 1996.

1st TMR network regular meeting on mammalian mRNA poly(A)-tails. Formation, removal and function. Athens. 23-25 January 1998. Oral presentation.

2nd TMR network regular meeting on mammalian mRNA poly(A)-tails. Formation, removal and function. Halle-Wittenberg, Germany. 12-14 March 1999. Oral presentation.

Fourth Annual Meeting of the RNA Society. Edinburgh, Scotland. June 23-27, 1999. Poster presentation.

3rd TMR network regular meeting on mammalian mRNA poly(A)-tails. Formation, removal and function. Uppsala, Sweden. 18-20 February 2000. Oral presentation.

14th Meeting: Methods of Protein Structure Analysis. Valencia, Spain. September 8th-12th, 2002.

Προσκεκλημένη ομιλήτρια στο 3^ο Πανελλήνιο Συνέδριο Καρκινικών δεικτών και στοχευμένης θεραπείας με θέμα: «Πρωτεωμική και Καρκίνος». Αθήνα 2004.

13th PAGE Meeting (Population Analysis Group in Europe) Uppsala, Sweden. 17-18 June, 2004. Poster Presentation. "The cytochrome P450 3A1 variant genotype shows correlation with the true clearance in a renal transplant population"

1st International Conference of the Hellenic Proteomics Society, Athens. Greece 22-25 May, 2005.

Desorption 2006, Athens, Greece, 3-7 September, 2006. Poster Presentation.

2nd Conference of the Hellenic Proteomics Society, Crete, Chania, Greece 23-25 May, 2007. Poster Presentation.

Προσκεκλημένη ομιλήτρια στη σειρά σεμιναρίων Κλινικής Χημείας-«Πρωτεΐνες», Λευκωσία Κύπρος. 2-4 Νοεμβρίου 2007.

Προσκεκλημένη ομιλήτρια στο 12^ο Διατομεακό Μεταπτυχιακό Σεμινάριο Αναπνευστικής Ανεπάρκειας. Ιωάννινα, Ελλάδα, 9-10 Νοεμβρίου 2007.

HelMass (Hellenic Mass Spectrometry Society), 1st meeting, Athens, Greece, April 17th -18th. 2008.

33rd FEBS Congress & 11th IUBMB Conference, Athens, Greece, June 28th -July 3rd , 2008.

3rd EuPa Congress, Clinical Proteomics, Stockholm, Sweden. 14th -17th June, 2009.

Waters Technology Summit Meeting "The Future of MS Technologies in Life Science Research", Manchester, UK. 6th -7th October. 2009.

Quantitative Proteomics Seminar and practical workshop "High resolution nanoLC peptide mapping", IMP/IMBA Vienna, Austria. 12th-13th October 2009.

1st International Proteomics Conference on Crete-IPCC01. Crete, Greece. 7th and 8th October 2010.

1st Greek Orbitrap User Meeting. Crete, Greece. 9th October 2010.

Summer school on computational mass spectrometry-based proteomics (MaxQuant Summer School). Max Planck Institute of Biochemistry, Martinsried, Germany. 22nd-27th May 2011.

Additional Training

International BMC Summer school: "Sexually Transmitted Diseases". University of Uppsala, Sweden. 1991.

Seminar in Pedagogic, University of Uppsala, Sweden. 1991.

1991-1996: Specialized Training during PhD:
Oncogenes and the Molecular Origins of Cancer).
Molecular Evolution.
Molecular Immunology.
Antibody Engineering.

1991-1995: Seminar serie: "Structural and Functional Aspects of Molecular and Cellular Biology". Biomedical Center, Uppsala University, Sweden.

Bia basic and kinetic analyses with Biacore (optical Biosensor). Pharmacia, Uppsala, Sweden. 1996.