

Curriculum Vitae of: **GREGORIS PAPAGREGORIOU**, PhD

PERSONAL INFORMATION

Work Address: Molecular Medicine Research Center
The Medical School - SEKKY
University of Cyprus
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EDUCATION

May 2012 PhD in Molecular Biology
Dept of Biological Sciences, University of Cyprus, Nicosia, Cyprus
PhD Thesis: "microRNAs as genetic modifiers in inherited glomerulopathies"
Supervisor: Prof. Constantinos Deltas

Aug 2006 MRes in Molecular and Medical Biosciences (Distinction)
The Medical School, University of Newcastle, Newcastle-upon-Tyne, UK
Thesis: "Investigation of the genetic basis of L-Dopa-Responsive Dystonia"
Supervisor: Prof. Patrick F. Chinnery

Apr 2005 BSc in Biology, Department of Biology, Aristoteles University of Thessaloniki, Thessaloniki,
Greece (GPA:7.34-HONS)
Thesis: "Investigation of the neuroprotective or neurotoxic properties of glycose in the
sensory neurons of the sciatic nerve in the frog *Rana ridibunda*, as a model for diabetic
neuropathy."
Supervisor: Prof. George Theophilides

EMPLOYMENT

- Jun 2017- To date PostDoctoral Fellow (Co-Principal Investigator) – Molecular Medicine Research Center, University of Cyprus, Nicosia, Cyprus
“A Prospective Study of Patients with Mucin-1 Kidney Disease in Cyprus and Biomarker Discovery”
PI: Prof. Constantinos Deltas
- Feb 2017-Nov 2017 Visiting Scientist – Center for the Development of Therapeutics, Broad Institute of MIT and Harvard, Cambridge, MA, USA.
“Biomarker discovery for MUC1 Kidney Disease – MKD”
PI: Dr Anna Greka, MD, PhD
- Feb-May 2014/16 Part-time lecturer – Department of Life and Health Sciences, University of Nicosia
- Jun 2012-May 2017 Postdoctoral Fellow – Molecular Medicine Research Center, University of Cyprus,
“microRNAs as regulators of gene expression by their direct binding on DNA target sequences” and “Genetic basis of familial hematuria”
In charge of the Genetic Analysis Unit - Molecular Medicine Research Center, University of Cyprus, Nicosia, Cyprus
PI: Prof. Constantinos Deltas

GRANTS, SCHOLARSHIPS AND AWARDS

- Dec 2018-Sep 2019: PI: Deltas C., Co-PI: Papagregoriou G – MMRC, University of Cyprus, Nicosia, CY Co-PI: Stavrou C - Evangelismos Hospital, Pafos, CY.
Role: Co-Principal Investigator
Funding Body: Carlos Slim Center for Health Research at the Broad Institute of Harvard and MIT Proposal: A Prospective Study of Patients with Mucin-1 Kidney Disease in Cyprus and Biomarker Discovery (CY-MUC1) (Project SIGMA III) Amount: \$148,401.96 University of Cyprus
- Jun 2017-Nov 2018: PI: Deltas C., Co-PI: Papagregoriou G – MMRC, University of Cyprus, Nicosia, CY Co-PI: Stavrou C - Evangelismos Hospital, Pafos, CY.
Role: Co-Principal Investigator
Funding Body: Carlos Slim Center for Health Research at the Broad Institute of Harvard and MIT Proposal: A Prospective Study of Patients with Mucin-1 Kidney

Disease in Cyprus and Biomarker Discovery (CY-MUC1) (Project SIGMA III) Amount:
€198,990 University of Cyprus

Feb 2017-Nov 2017: PI: Dr Anna Greka, MD, PhD. Awarded a visiting scientist position, Broad Institute MIT
and Harvard, MA, USA.

“Biomarker discovery for MUC1 Kidney Disease – MKD”, Amount: \$60,000

Sep 2016-Aug 2019: PI: Prof. Loreto Gesualdo, University of Bari, Italy

Roles: Project Manager/Quality Controller for UCY/Lecturer.

Funding Body: European Commission Programme/Call: Erasmus+, KA2 - Cooperation
for Innovation and the Exchange of Good Practices Strategic Partnerships for higher
education Proposal: Renal Molecular Pathologist network (ReMaP) Total budget:
€390,632 Budget for UCY: €43,848

Oct 2007-May 2012: PhD Student Full Scholarship - Maria and George Tyrimos Foundation via the
Pancyprian Gymnasium, Nicosia, Cyprus. Amount: €136.000

June 2012: Faculty of Pure and Applied Sciences award for academic and research performance
for the PhD in Molecular Biology program, University of Cyprus, Nicosia, Cyprus

TEACHING EXPERIENCE

Feb-May 2016: Lecturing for Molecular Biology Lab, Department of Life and Health Sciences,
University of Nicosia

Feb-May 2014: Lecturing for Introduction to Biology I (Labs) and II (Lectures and labs), Department of
Life and Health Sciences, University of Nicosia

Jan-May 2014: Teaching assistant in Human Genetics, at the University of Cyprus (Instructor: Prof.
Constantinos Deltas)

Jan-May 2013: Teaching assistant in Human Genetics, at the University of Cyprus (Instructor: Prof.
Constantinos Deltas)

Sep-Dec 2011: Teaching assistant in Genetics, at the University of Cyprus (Instructor: Prof.
Constantinos Deltas)

Sep-Dec 2010: Teaching assistant in Genetics, at the University of Cyprus (Instructor: Prof.
Constantinos Deltas)

Sep-Dec 2009: Teaching assistant in Genetics laboratory exercises, at the University of Cyprus
(Instructor: Prof. Constantinos Deltas)

Apr 2009: Teaching trainer at the Pedagogic Institute of Cyprus for biology laboratory exercises.

Sep-Dec 2008: Teaching assistant in Genetics laboratory exercises, at the University of Cyprus
(Instructor: Prof. Constantinos Deltas)

WORKSHOPS/COURSES/PROFESSIONAL TRAINING

- Jun 2015 Quantstudio 3D digital PCR Workflow Training Course in ThermoFisher Scientific Customer Experience Center, Paisley, Glasgow, UK
- Nov 2013 Ion Torrent PGM System Workflow Training Course for Next-Generation Sequencing in Life Sciences Customer Experience Center, Paisley, Glasgow, UK
- Aug 2012 FEBS Workshop in Non-Coding RNA in transcription, chromatin and epigenetics, Aarhus University, Denmark (Awarded a grant from the FEBS Young Travel Fund)
- Sep 2010 COST Action: BM0702 Training School: "Matrix Assisted Laser Desorption Ionization Tissue Imaging (MALDI TI) of Kidney specimens on a high resolution mass spectrometer with Q-TOF Ion Mobility and TOF/TOF Imager Reference", Biomedicum, University of Helsinki, Finland (Awarded a traveling grant by the organizers)
- Sep 2008 FEBS Advanced Practical Course in Gene Expression, Copy Number Variations in Genome, Single Cell Analysis: Arrays, Beads, Massive Parallel Sequencing, Prague, Czech Republic (Awarded a grant from the FEBS Young Travel Fund)
- Feb 2007 Sequencing Analysis training on ABI PRISM 3130 in Applied Biosystems Headquarters, Warrington, UK

PUBLICATIONS IN PEER REVIEWED JOURNALS

1. Christofides A*, **Papagregoriou G***, Dweep H, Makrides N, Gretz N, Felekkis K, Deltas C. Evidence for the regulation of FOXC2 transcription by miR-548c-5p through a distal genomic target site (*under review*) *Authors with equal contribution
2. Nwankwo EC, Mortega KG, Karageorgos A, Ogolowa BO, **Papagregoriou G**, Grether GF, Monadjem A, Kirschel ANG. (2019) Rampant introgressive hybridization in Pogoniulus tinkerbirds (Piciformes: Lybiidae) despite millions of years of divergence. *Biol J Linn Soc Lond*; Apr 03 (doi.org/10.1093/biolinnean/blz018)

3. Pitsios P, Iliopoulou A, Kontogianni M, **Papagregoriou G**. (2018) Detection of profiling in SPT extracts that are supposed to contain it. *Allergol Immunopathol (Madr)*; pii: S0301-0546(18)30102-2 (doi: 10.1016/j.aller.2018.05.003)
4. Živná M, Kidd K, Přistoupilová A, Barešová V, DeFelice M, Blumenstiel B, Harden M, Conlon P, Lavin P, Connaughton DM, Hartmannová H, Hodaňová K, Stránecký V, Vrbacká A, Vyleťal P, Živný J, Votruba M, Sovová J, Hůlková H, Robins V, Perry R, Wenzel A, Beck BB, Seeman T, Viklický O, Rajnochová-Bloudíčková S, **Papagregoriou G**, Deltas CC, Alper SL, Greka A, Bleyer AJ, Kmoch S. (2018) Noninvasive Immunohistochemical Diagnosis and Novel MUC1 Mutations Causing Autosomal Dominant Tubulointerstitial Kidney Disease. *JASN*; (2018) 29(9):2418-2431 (doi: 10.1681/ASN.2018020180)
5. Voskarides K, **Papagregoriou G**, Hadjipanagi D, Petrou I, Savva I, Elia A, Athanasiou Y, Pastelli A, Kkolou M, Hadjigavriel M, Stavrou C, Pierides A, Deltas C. (2018) COL4A5 and LAMA5 variants co-inherited in familial hematuria: digenic inheritance or genetic modifier effect? *BMC Nephrol*; 19:114 (doi: 10.1186/s12882-018-0906-5)
6. Kalogerou M, Kolovos P, Prokopiou E, **Papagregoriou G**, Deltas C, Malas S, Georgiou T. (2018) Omega-3 fatty acids protect retinal neurons in the DBA/2J hereditary glaucoma mouse model. *Exp Eye Res*; 167:128-39 (doi: 10.1016/j.exer.2017.12.005)
7. Nagara M, **Papagregoriou G**, Ben Abdallah R, Landoulsi Z, Bouyacoub Y, Elouej S, Kefi R, Pippucci T, Voskarides K, Bashamboo A, McElreavey K, Hachicha M, Romeo G, Seri M, Deltas C, Abdelhak S. (2017) Distal renal tubular acidosis in a Libyan patient: Evidence of digenic inheritance. *Eur J Med Genet*; pii: S1769-7212(16)30259-2. (doi: 10.1016/j.ejmg.2017.10.002.)
8. Papazachariou L*, **Papagregoriou G***, Hadjipanagi D, Demosthenous P, Voskarides K, Koutsofti C, Stylianou K, Ioannou P, Xydakis D, Tzanakis I, Papadaki A, Kallivretakis N, Nikolakakis N, Perysinaki G, Gale DP, Diamantopoulos A, Goudas P, Goumenos D, Soloukides A, Boletis I, Melexopoulou C, Georgaki E, Frysira E, Komianou F, Grekas D, Paliouras C, Alivannis P, Vergoulas G, Pierides A, Daphnis E, Deltas C. (2017) Frequent COL4 mutations in familial microhematuria accompanied by later-onset Alport nephropathy due to focal segmental glomerulosclerosis. *Clin Genet; Nov*; 92(5):517-527 (doi: 10.1111/cge.13077). *Authors with equal contribution
9. Prokopiou E, Kolovos P, Kalogerou M, Neokleous A, **Papagregoriou G**, Deltas C, Malas S, Georgiou T. (2017) Therapeutic potential of omega-3 fatty acids supplementation in a mouse model of dry macular degeneration. *BMJ Open Ophth*; 1:e000056. (doi:10.1136/bmjophth-2016-000056)

10. Koufaris C, **Papagregoriou G**, Kousoulidou L, Moutafi M, Tauber M, Jouret B, Kieffer I, Deltas C, Tanteles GA, Anastasiadou V, Patsalis PC, Sismani C. (2015) Haploinsufficiency of the miR-873/miR-876 microRNA cluster is associated with craniofacial abnormalities. *Gene* Apr 25;561(1):95-100 (doi: 10.1016/j.gene.2015.02.018)
11. Nagara M, Voskarides K, Elouej S, Zaravinos A, Riahi Z, **Papagregoriou G**, Kefi R, Boussetta K, Deltas C, Abdelhak S, Tinsa F. (2014) A novel splice-site mutation in ATP6V0A4 gene in two brothers with distal renal tubular acidosis from a consanguineous Tunisian family. *J Genet* Dec;93(3):859-6
12. Papazachariou L, Demosthenous P, Pieri M, **Papagregoriou G**, Savva I, Stavrou C, Zavros M, Athanasiou Y, Ioannou K, Patsias C, Panagides A, Potamitis C, Demetriou K, Prikis M, Hadjigavriel M, Kkolou M, Loukaidou P, Pastelli A, Michael A, Lazarou A, Arsali M, Damianou L, Goutziamani I, Soloukides A, Yioukas L, Elia A, Zouvani I, Polycarpou P, Pierides A, Voskarides K, Deltas C. (2014) Frequency of COL4A3/COL4A4 mutations amongst families segregating glomerular microscopic hematuria and evidence for activation of the unfolded protein response. Focal and segmental glomerulosclerosis is a frequent development during ageing. *PLoS One*. Dec 16;9(12):e115015 (doi: 10.1371/journal.pone.0115015)
13. Zaravinos A, Lambrou GI, Mourmouras N, Katafygiotis P, **Papagregoriou G**, Giannikou K, Delakas D, Deltas C (2014) New miRNA Profiles Accurately Distinguish Renal Cell Carcinomas and Upper Tract Urothelial Carcinomas from the Normal Kidney. *PLoS One* 9(3):e91646 (doi: 10.1371/journal.pone.0091646)
14. Soloukides AP, Moutzouris DA, **Papagregoriou GN**, Stavrou CV, Deltas CC, Tzanatos HA, (2013) Renal graft outcome in autosomal dominant medullary cystic kidney disease type 1. *J Nephrol* Jul-Aug;26(4):793-8 (doi: 10.5301/jn.5000249)
15. **Papagregoriou G**, Dweep H, Voskarides K, Koupepidou P, Athanasiou Y, Pierides A, Gretz N, Felekkis KN, Deltas C, (2012) A miR-1207-5p Binding Site Polymorphism Abolishes Regulation of HBEGF and Is Associated with Disease Severity in CFHR5 Nephropathy. *PLoS One* 7(2):e31021 (doi: 10.1371/journal.pone.0031021)
16. Deltas C, **Papagregoriou G** (2010) Cystic Diseases of the Kidney: Molecular Biology and Genetics. *Arch Pathol Lab Med* 134(4):569-582. (doi: 10.1043/1543-2165-134.4.569)
17. Voskarides K, Makariou C, **Papagregoriou G**, Stergiou N, Printza N, Alexopoulos A, Elia A, Papachristou F, Pierides A, Georgaki E, Deltas C (2008) *NPHS2* screening with SURVEYOR in Hellenic

children with steroid resistant nephrotic syndrome. *Pediatr Nephrol* 23(8):1373-1375. (doi: 10.1007/s00467-008-0804-3)

CHAPTER CONTRIBUTIONS

1. **Papagregoriou G** (2015) MicroRNAs in disease, In Felekis KN & Voskarides K (Ed) *Genomic Elements in Health, Disease and Evolution: Junk DNA* (pp.17-46). DOI: 10.1007/978-1-4939-3070-8_2, Springer Publishing Group, New York, USA

SELECTED POSTER PRESENTATIONS IN INTERNATIONAL CONFERENCES

1. **Papagregoriou G**, Christofides A, Dweep H, Gretz N, Felekis KN, Deltas C. (2014) The potential role of miR-548c-5p as a regulator of FOXC2 transcription to control podocyte differentiation, *Elsevier Cell Symposia: Regulatory RNAs*, Berkeley, CA, USA, Oct 19-21, 2014
2. **Papagregoriou G**, Christofides A, Dweep H, Gretz N, Felekis KN, Deltas C. (2012) MicroRNAs are potential regulators of gene transcription by their direct binding on intergenic DNA target sequences in human cells: the hsa-miR-548c-5p example, *FEBS Workshop on Non-Coding RNA in Transcription, Chromatin and Epigenetics*, Aarhus, Denmark, Aug 6-10, 2012
3. **Papagregoriou G**, Dweep H, Voskarides K, Koupepidou P, Athanasiou Y, Pierides A, Gretz N, Felekis KN, Deltas C. (2011) A DNA variant within the 3'-UTR of HBEGF alters the regulatory action of hsa-miR-1207-5p and is associated with progression of renal failure in CFHR5 nephropathy. *European Human Genetics Conference 2011*, Amsterdam, The Netherlands, May 28-31, 2011.
4. Tsiakkis D, Koupepidou P, Christodoulakis M, Pieri M, Felekis KN, **Papagregoriou G**, Demosthenous P, Deltas C. (2011) Genotype-phenotype correlation in X-Linked Alport syndrome patients carrying missense mutations in the collagenous domain of COL4A5. *European Human Genetics Conference 2011*, Amsterdam, The Netherlands, May 28-31, 2011.
5. Felekis KN, Sticht C, **Papagregoriou G**, Kranzlin B, Gretz N, Deltas C. (2010) The role of microRNAs (miRNA) in the development of Polycystic Kidney Disease. *5th International MicroRNAs Europe 2010 Meeting. MicroRNAs: Biology to Development and Disease*. University of Cambridge, Cambridge, UK. November 1-2, 2010.

6. **Papagregoriou G**, Dweep H, Voskarides K, Koupepidou P, Athanasiou Y, Pierides A, Gretz N, Felekis KN, Deltas C, (2010) A miR-1207-5p binding site polymorphism in *HBEGF* gene is associated with disease severity in CFHR5 nephropathy *5th International MicroRNAs Europe 2010 Meeting. MicroRNAs: Biology to Development and Disease*. University of Cambridge, Cambridge, UK. November 1-2, 2010.
7. Felekis KN, Sticht C, **Papagregoriou G**, Kranzlin B, Gretz N, Deltas C. (2010) The role of microRNAs (miRNA) in the development of Polycystic Kidney Disease. *5th Combined Management Committee and Working Groups Meeting of the COST Action BM0702 EuroKUP, on Kidney and Urine Proteomics*. Pissouri, Cyprus, November 6-7, 2010.
8. Pieri M, Felekis KN, **Papagregoriou G**, Deltas C. (2010) Functional study of molecular pathomechanisms underlying glomerular basement membrane pathology *in vivo* and *in vitro*. *5th Combined Management Committee and Working Groups Meeting of the COST Action BM0702 EuroKUP, on Kidney and Urine Proteomics*. Pissouri, Cyprus, November 6-7, 2010.
9. **Papagregoriou G**, Felekis KN, Dweep H, Gretz N, Deltas C. (2009) MirSNPs as a contributing genetic factor to the variability of phenotypic severity recorded in congenital glomerulonephropathies. *MicroRNAs Europe 2009 Meeting. MicroRNAs: Biology to Development and Disease*. University of Cambridge, UK, November 2-3, 2009.
10. **Papagregoriou G**, Soloukides A, Voskarides K, Charalambous C, Pierides A, Hildebrandt F, Stavrou C, Deltas C. (2008) Medullary Cystic Kidney Disease 1 – The quest for finding the gene. *1st International Conference of Human Genetics*, organised by the Cyprus Society of Human Genetics. Nicosia, Cyprus, October 3-4, 2008.
11. Voskarides K, Makariou C, **Papagregoriou G**, Stergiou N, Printza N, Alexopoulos E, Elia A, Papachristou F, Pierides A, Georgaki E, Deltas C. (2008) SURVEYOR™ nuclease as a powerful mutation detection method: the example of *NPHS2* (podocin) screening in children from Greece and Cyprus with steroid-resistant nephrotic syndrome. *1st International Conference of Human Genetics*, organised by the Cyprus Society of Human Genetics. Nicosia, Cyprus, October 3-4, 2008.
12. Voskarides K, Makariou C, **Papagregoriou G**, Stergiou N, Printza N, Alexopoulos A, Elia A, Papachristou F, Pierides A, Georgaki E, Deltas C. (2008) *NPHS2* recurrent and novel mutations in children from Greece and Cyprus with steroid-resistant nephrotic syndrome. *European Human Genetics Conference 2008*. Barcelona, Spain, May 31-June 3, 2008.

13. **Papagregoriou G**, Soloukides A, Voskarides K, Charalambous C, Pierides A, Hildebrandt F, Stavrou C, Deltas C. (2008) Medullary Cystic Kidney Disease 1 – The quest for finding the gene. *European Human Genetics Conference 2008*. Barcelona, Spain, May 31-June 3, 2008

ORAL PRESENTATIONS/INVITED LECTURES/SEMINARS

1. **Papagregoriou G**. Deciphering the genetic basis of familial hematuria by next-generation sequencing, 25 Feb 2015, Invited Seminar, Department of Biological Sciences, University of Cyprus, Nicosia, Cyprus
2. **Papagregoriou G**. The potential role of mir-548c-5p as a regulator of FOXC2 transcription to control podocyte differentiation. 21-24 Apr 2016, Oral Presentation, 28th European Renal Cell Study Group meeting, Paris, France
3. **Papagregoriou G**. Pharmacogenomics and the role of microRNAs, 04 Nov 2017, Invited Lecture, 20th Golden Helix Pharmacogenomics Day, Medical School, University of Cyprus, Nicosia, Cyprus
4. **Papagregoriou G**. *MUC1* Kidney Disease in Cyprus – Genetics, diagnostics and therapeutics, 21 Nov 2018, Invited Lecture, Department of Biological Sciences, University of Cyprus, Nicosia, Cyprus
5. **Papagregoriou G**. ADTKD-*MUC1* in the Cypriot population: Genotyping, deep-phenotyping, biomarker discovery and the search for a robust treatment, 8 Dec 2018, Oral Presentation, 7th International Conference of the Cyprus Society of Human Genetics, Nicosia, Cyprus