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

PERSONAL INFORMATION

Work Address: Molecular Medicine Research Center
The Medical School - SEKKY
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EDUCATION AND WORKING EXPERIENCE

Feb 2017-Present Postdoctoral Fellow – Center for the Development of Therapeutics, Broad Institute of MIT and Harvard, Cambridge, MA, USA. "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-Present Postdoctoral Fellow – Molecular Medicine Research Center, University of Cyprus, "microRNAs as regulators of gene expression by their direct binding on DNA target sequences",
In charge of the Genetic Analysis Unit - Molecular Medicine Research Center, University of Cyprus
PI: Prof. Constantinos Deltas

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

SCHOLARSHIPS AND AWARDS

Oct 2007-May 2012: PhD Student Scholarship - Funded by a 136.000 euro full scholarship from the Maria and George Tyrimos Foundation via the Pancyprian Gymnasium, Nicosia, Cyprus

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)

ACADEMIC ACTIVITIES

Sep 2014	Co-authored the lab manual for Introduction to Biology II, University of Nicosia
Jun 2014	Part of the examination committee in undergraduate theses, University of Nicosia, Cyprus
Sep 2016	Part of the examination committee in postgraduate theses, School of Molecular Medicine, Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus
Sep 2009-Present	Training and co-supervision of Postgraduate and Undergraduate Theses Dept of Biological Sciences, Laboratory of Medical and Molecular Genetics, University of Cyprus Co-supervising/training undergraduate/visiting Biology students in their final year thesis or other projects Training and co-supervision of two PhD students (Started on May 2012 and Sep 2014 respectively)
Jun 2004-Sep 2004	Visitor Trainee Molecular Genetics Department C, Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus - Supervisor: 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. **Papagregoriou G**, Hadjipanagi D, Voskarides K, Stylianou K, Athanasiou Y, Zavros M, Arsali M, Michael A, Papachristou F, Printza N, Frankou e, Gkinis V, Kasimatis E, Zoumbarides, N, Georgiou I, Giatras I, Lilova M, Tzanakis I, Papadaki A, Kkolou M, Loukaidou P, Pastelli A, Paliouras C, Alivanis A, Vegoulas G, Pierides A, Dafnis E, Hadjigavriel M, Deltas C. Investigation of Alport and Alport-like cases through NGS technology reveals digenic and contigouous gene syndrome inheritance *(In preparation)*
2. 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. Evidence for the contribution of a LAMA5 variant in familial microscopic hematuria *(In Submission)*
3. **Papagregoriou G**, Papazachariou L, Demosthenous P, Voskarides K, Stylianou K, Xydakis D, Tzanakis I, Papadaki A, Kallivretakis N, Nikolakakis N, Perissinaki 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, Alivanis A, Vergoulas G, Pierides A, Dafnis E, Deltas C. Investigation of Greek families with microscopic hematuria reveals the frequency of collagen IV mutations and the disease severity *(Submitted – Under Review)*
4. Nagara M, **Papagregoriou G**, Ben Abdallah R, Bouyacoub Y, Elouej S, Kefi R, Pippucci T, Hafsi K, Voskarides K, Bashamboo A, McElreavey K, Hchicha M, Romeo G, Seri M, Deltas C, Abdelhak S. (2017) Distal renal tubular acidosis in a Libyan patient, evidence of digenic inheritance confirmed by whole exome sequencing *(Submitted-Under Review)*

5. 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 *(Submitted-Under Review)*

6. 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

7. 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

8. 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

9. 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

10. 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

11. **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

12. Deltas C, **Papagregoriou G** (2010) Cystic Diseases of the Kidney: Molecular Biology and Genetics. *Arch Pathol Lab Med* 134(4):569-582.

13. 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.

CHAPTER CONTRIBUTIONS

1. **Papagregoriou G** (2015) MicroRNAs in disease, In Felekkis 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, Felekkis 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, Felekkis 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, Felekkis 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, Felekkis 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. Felekkis 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, Felekkis 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. Felekkis 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, Felekkis 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**, Felekkis 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