

CV

NAME DAMIANAKI ATHINA	CURRENT POSITION TITLE 1. Technician/Laboratory assistant in the Haemopoiesis Research Laboratory, School of Medicine, University of Crete, Greece 2. Assistant in the Autologous Transplantation Unit, Haematology Department of the University Hospital of Heraklion 3. Participation in Cord Blood Bank of Crete 4. Participation in the research activities of the Laboratory of Hematology, School of Medicine, University of Crete 5. Participation in the research activities of the Dept. of Gastroenterology, School of Medicine, University of Crete
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EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR AWARDED	FIELD OF STUDY
Technical School, Heraklion, Crete	Degree as “Medical and Biology Laboratory Assistant”	1994	Laboratory Assistance
Hellenic Cytometry Society	Certificate in “Basic Training in Flow Cytometry and applications in Hematology”	2013	Flow Cytometry

Personal Statement

Following my graduation as a laboratory technician I soon started working as a researcher in the Medical School of the University of Crete. I stayed 4 years in the in the Experimental Endocrinology laboratory and since 2000 I hold the position of Technician/Laboratory assistant in the Haemopoiesis Research Laboratory and Assistant in the Autologous Transplantation Unit, Haematology Department of the University Hospital of Heraklion. I am also participating actively in the Cord Blood Bank of Crete in all stages of receiving, preparing and processing of the samples under Good Manufacturing Practices (GMP).

During my career, I have always been involved in several researching projects, many of them awarded with oral presentations and posters in International and Hellenic Conferences {*example: **Damianaki A, Koutala H, Mavroudi I, Kanellou P, Kaparou M, Mastrodemou S, Pontikoglou C, Papadaki H. Presence of peripheral blood cells with PNH phenotype in patients with chronic idiopathic neutropenia. 18th Congress of the European Hematology Association [234 | haematologica | 2013; 98(s1)]***}. I have published extensively (as first name as well) in high impact factor journals. Within this frame, I have collaborated closely with Prof. Papadaki and Prof. Pontikoglou and I have trained and assisted pre- and post-graduate students (MSc & PhD candidates).

Concerning my working objectives, I am highly experienced in the organizing and planning (e.g. ordering & receiving of material) of the laboratory as well as wet lab techniques such as:

- Autologous Transplantation of Patients with Haematologic Malignancies, counting and cryopreservation of Stem cells
- Preparation of culture mediums and dilutions
- Cell isolation and DNA & RNA extraction from peripheral blood or bone marrow for the Laboratory Biobank
- Preparation of biological samples for immunophenotyping, flow cytometry acquisition and analysis of the results
- Cultures of Haemopoietic Stem Cells (LTBMcs, STCs, LTCICs) and Mesenchymal Stem Cells
- ELISA in supernatans of haemopoietic and mesenchymal cultures
- Testing of autonomous growth of haemopoietic colonies in patients with possible erythremia

- Testing of PNH phenotype in patients (diagnostic and researching purposes)

My current research interests focus on Haemopoietic Stem Cells and the effect of the BM microenvironment in BM failure syndromes, Humoral immunity in Chronic Idiopathic Neutropenia and Identification of PNH type cells in patients with Chronic Idiopathic Neutropenia

Positions and Employment

July 1996 – April 2000

Experimental Endocrinology laboratory, Medical School, University of Crete

May 2000 – now

Haemopoiesis Research Laboratory, Medical School, University of Crete

Cord Blood Bank of Crete & Autologous Transplantation Unit, Haematology Department of the University Hospital of Heraklion

Honors and Awards

1. Βραβείο «Αρκάγαθος Γούτας» της Ελληνικής Αιματολογικής Εταιρείας για την υποβληθείσα ερευνητική εργασία στο 24ο Πανελλήνιο Αιματολογικό Συνέδριο, Αθήνα 2013, με τίτλο: Η μειωμένη ικανότητα πολλαπλασιασμού των αρχέγονων μεσεγχυματικών κυττάρων του μυελού των οστών σε ασθενείς με μυελοδυσπλαστικά σύνδρομα σχετίζεται με διαταραχές στα σηματοδοτικά μονοπάτια του WNT. ΠΑΥΛΑΚΗ Κ, ΠΟΝΤΙΚΟΓΛΟΥ Χ, ΔΗΜΗΤΡΙΑΔΟΥ Α, ΜΠΑΤΣΑΛΗ Α, ΔΑΜΙΑΝΑΚΗ Α, ΣΗΜΑΝΤΗΡΑΚΗ Ε, ΚΟΝΤΑΚΗ Μ, ΓΑΛΑΝΟΠΟΥΛΟ Α, ΚΟΤΣΙΑΝΙΔΗ Ι, ΚΑΣΤΡΙΝΑΚΗ Μ-Χ, ΠΑΠΑΔΑΚΗ Ε.
2. Βραβείο καλύτερης αναρτημένης ανακοίνωσης απονεμηθέν από την Επιτροπή Αξιολόγησης Εργασιών του 22ου Πανελληνίου Αιματολογικού Συνεδρίου, Αθήνα 2011, με τίτλο: Μελέτη της γήρανσης και των μονοπατιών του WNT σε αρχέγονα Μεσεγχυματικά κύτταρα ασθενών με μυελοδυσπλαστικά σύνδρομα. ΠΑΥΛΑΚΗ Κ, ΚΑΣΤΡΙΝΑΚΗ Μ-Χ, ΜΠΑΤΣΑΛΗ Α, ΔΗΜΗΤΡΙΑΔΟΥ Α, ΒΕΛΕΓΡΑΚΗ Μ, ΜΑΥΡΟΥΔΗ Ε, ΔΑΜΙΑΝΑΚΗ Α, ΚΛΩΝΤΖΑΣ Μ, ΠΟΝΤΙΚΟΓΛΟΥ Χ, ΠΑΠΑΔΑΚΗ Ε.
3. Βραβείο «Αρκάγαθος Γούτας» της Ελληνικής Αιματολογικής Εταιρείας για την υποβληθείσα ερευνητική εργασία στο 17ο Πανελλήνιο Αιματολογικό Συνέδριο, Αθήνα 2006, με τίτλο: Η μειωμένη κλωνογονική και πολλαπλασιαστική ικανότητα των προγονικών μεσεγχυματικών κυττάρων του μυελού συνοδεύεται από πρόωμη απώλεια τελομερών στους πάσχοντες από ρευματοειδή αρθρίτιδα. ΚΑΣΤΡΙΝΑΚΗ Μ-Χ, ΣΙΔΗΡΟΠΟΥΛΟΣ Π, ΔΑΜΙΑΝΑΚΗ Α, ΓΕΜΕΤΖΗ Κ, ΠΟΝΤΙΚΟΓΛΟΥ Χ, ΚΡΗΤΙΚΟΣ Η, ΜΠΟΥΜΠΑΣ Δ.Τ., ΗΛΙΟΠΟΥΛΟΣ ΓΔ, ΠΑΠΑΔΑΚΗ Ε.Α.
4. Α' Βραβείο καλύτερης πρωτότυπης ερευνητικής μελέτης απονεμηθέν από την Επιτροπή Αξιολόγησης Εργασιών του 16ου Πανελληνίου Αιματολογικού Συνεδρίου, Θεσσαλονίκη 2005, με τίτλο: Αποτελέσματα της κλινικής δοκιμής χορήγησης του αντι-TNFα μονοκλωνικού αντισώματος Infliximab σε πάσχοντες από Μυελοδυσπλαστικό Σύνδρομο. ΜΠΟΥΛΑ Α, ΒΟΥΛΓΑΡΕΛΗΣ Μ, ΓΙΑΝΝΟΥΛΗ Σ, ΚΑΤΡΙΝΑΚΗΣ Γ, ΜΑΡΚΙΔΟΥ Φ, ΨΥΛΛΑΚΗ Μ, ΠΟΝΤΙΚΟΓΛΟΥ Χ, ΔΑΜΙΑΝΑΚΗ Α, ΚΟΚΚΙΝΟΥ Π, ΗΛΙΟΠΟΥΛΟΣ ΓΔ, ΠΑΠΑΔΑΚΗ ΕΑ.
5. Βραβείο «Αρκάγαθος Γούτας» της Ελληνικής Αιματολογικής Εταιρείας για την υποβληθείσα ερευνητική εργασία στο 14ο Πανελλήνιο Αιματολογικό Συνέδριο, Αλεξανδρούπολη 2003, με τίτλο: Ενεργοποιημένα Τ-λεμφοκύτταρα στο αιμοποιητικό μικροπεριβάλλον εμπλέκονται στην παθοφυσιολογία της χρόνιας ιδιοπαθούς ουδετεροπενίας. ΠΑΠΑΔΑΚΗ Ε, ΓΕΜΕΤΖΗ Κ, ΔΑΜΙΑΝΑΚΗ Α, ΚΟΥΤΑΛΑ Ε, ΠΥΡΟΒΟΛΑΚΗ Α, ΣΤΑΜΑΤΟΠΟΥΛΟΣ Κ, ΠΟΝΤΙΚΟΓΛΟΥ Χ, ΗΛΙΟΠΟΥΛΟΣ Γ.

Oral presentations & posters in International Conferences

1. A BATSAI, CG PONTIKOGLU, E AGRAFIOTIS, E KOUVIDI, I MAVROUDI, A DAMIANAKI, M KASTRINAKI, H.A PAPADAKI. Emerging Roles of Wisp-1 and SFRP4 in Proliferation and Differentiation Potential of Wharton's Jelly Mesenchymal Stem/Stromal Cells". 56th ASH Annual Meeting and Exposition December 2014, San Francisco
2. K PAVLAKI, C PONTIKOGLU, A BATSAI, S MASTRODEMOU, I MAVROUDI, A DAMIANAKI, P KANELLOU, M PSYLLAKI, S KYRIAKAKI, MC KASTRINAKI, HA PAPADAKI "Impaired lineage priming and proliferative potential of bone marrow mesenchymal stem cells in patients with myelodysplastic syndromes are associated with abnormal wnt signaling pathway". 19th Congress of the European Hematology Association, Italy, Milano, June 2014.

3. A BATSALI, CG PONTIKOGLU, E KOUVIDI, A DAMIANAKI, M KASTRINAKI, H.A PAPADAKI «Direct comparison of wharton's jelly and bone marrow mesenchymal stem/stromal cells». 20th Annual ISCT Meeting, April 2014, France
4. ARISTEA BATSALI, CHARALAMPOS PONTIKOGLU, ELISAVET KOUVIDI, ATHINA DAMIANAKI, AIKATERINI STRATIGI, MARIA-CHRISTINA KASTRINAKI AND HELEN A PAPADAKI "Comparative Analysis Of Bone Marrow and Wharton's Jelly Mesenchymal Stem/Stromal Cells". 55th ASH Annual Meeting and Exposition December 2013, New Orleans
5. AK BATSALI, C PONTIKOGLU, E KOUVIDI, A DAMIANAKI, A STRATIGI, M KASTRINAKI, H PAPADAKI "Head-to-head comparative study of wharton's jelly and bone marrow mesenchymal stem cells". 18th Congress of the European Hematology Association, Stockholm, Sweden, June 2013
6. M. VELEGRAKI, M. KLONTZAS, F. PAPADOGIANNIS, A. DAMIANAKI, A.K. BATSALI, S. MASTRODEMOU AND H.A. PAPADAKI "Functional abnormalities of neutrophils and toll-like receptor 4 polymorphisms predispose to infection in patients with myelodysplastic syndromes". European Society for Clinical investigation (ESCI) - 46th Annual Scientific Meeting, March 2012, Budapest
7. **DAMIANAKI A, KOUTALA H, MAVROUDI I, KANELLOU P, KAPAROU M, MASTRODEMOU S, PONTIKOGLU C, PAPADAKI H. Presence of peripheral blood cells with PNH phenotype in patients with chronic idiopathic neutropenia. 18th Congress of the European Hematology Association (234 | haematologica | 2013; 98(s1))**
8. BATSALI A, PONTIKOGLU C, KOUVIDI E, DAMIANAKI A, STRATIGI A, KASTRINAKI M, PAPADAKI H. Head-to-head comparative study of wharton's jelly and bone marrow mesenchymal stem cells
9. PONTIKOGLU C, DAMIANAKI A, GEMETZI C, KOUTALA H, PYROVOLAKI K, ELIOPOULOS GD, PAPADAKI HA. Impaired erythropoiesis in patients with chronic idiopathic neutropenia. Hematol J 2004;5:S206 (Suppl 2). 9th European Hematology Association (EHA) Meeting
10. PAPADAKI HA, STAMATOPOULOS K, DAMIANAKI A, GEMETZI C, KOUTALA H, PONTIKOGLU C, KASTRINAKI C, PYROVOLAKI K, ELIOPOULOS GD. Activated T-lymphocytes with myelosuppressive properties in the peripheral blood and bone marrow microenvironment of patients with chronic idiopathic neutropenia. Hematol J 2004;5:S206 (Suppl 2). 9th European Hematology Association (EHA) Meeting
11. PAPADAKI HA, PSYLLAKI M, DAMIANAKI A, GEMETZI C, KOUTALA H, PYROVOLAKI K, PONTIKOGLU C, VRENTZOS G, ELIOPOULOS GD. Exp Hematol 2003; 31:165 (Suppl 1). International Society of Experimental Hematology (ISEH Meeting)
12. PAPADAKI HA, KOSTEAS T, GEMTZI C, DAMIANAKI A, KOUTALA H, PSYLLAKI M, NINIRAKI M, ZAFIROPOULOS A, PONTIKOGLU C, KATONIS P, ANAGNOU N, BUX J, ELIOPOULOS GD. Anaemia of chronic disease (ACD) in rheumatoid arthritis is associated with increased apoptosis of bone marrow erythroid cells. Improvement following anti-TNF α treatment. Hematol J 2002;3:1188 (Suppl 1). 7th European Hematology Association (EHA) Meeting
13. PAPADAKI HA, KOSTEAS T, GEMTZI C, DAMIANAKI A, KOUTALA H, PSYLLAKI M, NINIRAKI M, ZAFIROPOULOS A, PONTIKOGLU C, KATONIS P, ANAGNOU N, BUX J, ELIOPOULOS GD. Anaemia of chronic disease (ACD) in rheumatoid arthritis is associated with increased apoptosis of bone marrow erythroid cells. Improvement following anti-TNF α treatment. Hematol J 2002;3:1188 (Suppl 1). 7th European Hematology Association (EHA) Meeting

Selected peer-reviewed publications

1. Immunoglobulin and B-cell disturbances in patients with chronic idiopathic neutropenia. Mavroudi I, Eliopoulos Ag, Pontikoglou C, Pyrovolaki K, Damianaki A, Koutala H, Zervou Mi, Ximeri M,

Mastrodemou S, Kanellou P, Goulielmos Gn, Papadaki Ha. Clin Immunol. 2017 Jul 18;183:75-81. doi: 10.1016/j.clim.2017.07.009. [Epub ahead of print]

2. **Minor populations of paroxysmal nocturnal hemoglobinuria-type cells in patients with chronic idiopathic neutropenia.** Damianaki A, Stagakis E, Mavroudi I, Spanoudakis M, Koutala H, Papadogiannis F, Kanellou P, Pontikoglou C, Papadaki Ha Eur J Haematol. 2016 Dec;97(6):538-546. doi: 10.1111/ejh.12766. Epub 2016 May 25.
3. Differential expression of cell cycle and WNT pathway-related genes accounts for differences in the growth and differentiation potential of Wharton's jelly and bone marrow-derived mesenchymal stem cells. Batsali Ak, Pontikoglou C, Koutroulakis D, Pavlaki Ki, Damianaki A, Mavroudi I, Alpantaki K, Kouvidi E, Kontakis G, Papadaki Ha. Stem Cell Res Ther. 2017 Apr 26;8(1):102. doi: 10.1186/s13287-017-0555-9.
4. Impaired proliferative potential of bone marrow mesenchymal stromal cells in patients with myelodysplastic syndromes is associated with abnormal WNT signaling pathway. Pavlaki K, Pontikoglou C, Demetriadou A, Batsali A, Damianaki A, Simantirakis E, Kontakis M, Galanopoulos A, Kotsianidis I, Kastrinaki Mc, Papadaki Ha. Stem Cells Dev. 2014;15;23(14):1568-81.
5. Lymphopenia in patients with chronic idiopathic neutropenia is associated with decreased number of T-lymphocytes containing T-cell receptor excision circles. Gemetzi C, Mavroudi I, Koutala H, Velegraki M, Choulaki C, Damianaki A, Pontikoglou C, Papadaki HA. Eur J Haematol. 2012 Mar;88(3):210-23. Doi: 10.1111/j.1600-0609.2011.01722.x. Epub 2011 Nov 24. PMID:22092365.
6. Mesenchymal stem cells contribute to the abnormal bone marrow microenvironment in patients with chronic idiopathic neutropenia by overproduction of transforming growth factor- β 1. Stavroulaki E, Kastrinaki MC, Pontikoglou C, Eliopoulos D, Damianaki A, Mavroudi I, Pyrovolaki K, Katonis P, Papadaki HA. Stem Cells Dev. 2011 Aug;20(8):1309-18. Doi: 10.1089/scd.2010.0425. Epub 2010 Dec 27. PMID:21047210.
7. Investigation of bone marrow mesenchymal stem cells (BM MSCs) involvement in Idiopathic Pulmonary Fibrosis (IPF). Antoniou KM, Papadaki HA, Soufla G, Kastrinaki MC, Damianaki A, Koutala H, Spandidos DA, Siafakas NM. Respir Med. 2010 Oct;104(10):1535-42. Doi: 10.1016/j.rmed.2010.04.015. Epub 2010 May 18. PMID: 20483575.
8. Thoracoscopic talc poudrage decreases T-lymphocytes in the peripheral blood. Froudarakis ME, Papadaki HA, Klimathianaki M, Damianaki A, Pougounias M, Kotsianidis I, Astoul P. Respir Med. 2007 Jun;101(6):1212-7. Epub 2006 Dec 19. PMID: 17182238.
9. Pro-inflammatory bone marrow milieu in patients with chronic idiopathic neutropenia is associated with impaired local production of interleukin-10. Koumaki V, Damianaki A, Ximeri M, Pontikoglou C, Axioti F, Spanoudakis M, Eliopoulos GD, Papadaki HA. Br J Haematol. 2006 Nov;135(4):570-3. Epub 2006 Oct 10. PMID: 17054669.
10. Impaired megakaryopoiesis in patients with chronic idiopathic neutropenia is associated with increased transforming growth factor beta1 production in the bone marrow. Psyllaki M, Damianaki A, Gemetzi C, Pyrovolaki K, Eliopoulos GD, Papadaki HA. Br J Haematol. 2006 Sep;134(6):624-31. PMID: 16938119.
11. Increased levels of soluble flt-3 ligand in serum and long-term bone marrow culture supernatants in patients with chronic idiopathic neutropenia. Papadaki HA, Damianaki A, Pontikoglou C, Pyrovolaki K, Eliopoulos DG, Stavroulaki E, Eliopoulos GD. Br J Haematol. 2006 Mar;132(5):637-9. PMID: 16445839.
12. Normal bone marrow hematopoietic stem cell reserves and normal stromal cell function support the use of autologous stem cell transplantation in patients with multiple sclerosis. Papadaki HA, Tsagournisakis M, Mastorodemos V, Pontikoglou C, Damianaki A, Pyrovolaki K, Stamatopoulos K, Fassas A, Plaitakis A, Eliopoulos GD. Bone Marrow Transplant. 2005 Dec;36(12):1053-63. PMID: 16205726.

13. Activated T-lymphocytes with myelosuppressive properties in patients with chronic idiopathic neutropenia. Papadaki HA, Stamatopoulos K, Damianaki A, Gemetzi C, Anagnostopoulos A, Papadaki T, Eliopoulos AG, Eliopoulos GD. *Br J Haematol*. 2005 Mar;128(6):863-76. PMID: 15755293.
14. Acute myeloid/NK precursor cell leukemia with trisomy 4 and a novel point mutation in the extracellular domain of the G-CSF receptor in a patient with chronic idiopathic neutropenia. Papadaki HA, Kosteas T, Gemetzi C, Damianaki A, Anagnou NP, Eliopoulos GD. *Ann Hematol*. 2004 Jun;83(6):345-8. Epub 2004 Mar 11. PMID: 15014900.
15. Increased cell apoptosis in bone marrow trephine biopsies and immunomagnetically isolated myeloid progenitor cells in patients with chronic idiopathic neutropenia. Koumaki V, Papadaki HA, Stefanaki K, Damianaki A, Gemetzi C, Katonis P, Vrentzos G, Eliopoulos GD. *Ann Hematol*. 2003 Oct;82(10):641-5. Epub 2003 Aug 2. PMID: 12904900.
16. Impaired granulocytopoiesis in patients with chronic idiopathic neutropenia is associated with increased apoptosis of bone marrow myeloid progenitor cells. Papadaki HA, Eliopoulos AG, Kosteas T, Gemetzi C, Damianaki A, Koutala H, Bux J, Eliopoulos GD. *Blood*. 2003 Apr 1;101(7):2591-600. Epub 2002 Nov 27. PMID: 12517813.
17. Wine antioxidant polyphenols inhibit the proliferation of human prostate cancer cell lines. Kampa M, Hatzoglou A, Notas G, Damianaki A, Bakogeorgou E, Gemetzi C, Kouroumalis E, Martin PM, Castanas E. *Nutr Cancer*. 2000;37(2):223-33. PMID: 11142097.
18. Potent inhibitory action of red wine polyphenols on human breast cancer cells. Damianaki A, Bakogeorgou E, Kampa M, Notas G, Hatzoglou A, Panagiotou S, Gemetzi C, Kouroumalis E, Martin PM, Castanas E. *J Cell Biochem*. 2000 Jun 6;78(3):429-41. PMID: 10861841.
19. Opioid alkaloids and casomorphin peptides decrease the proliferation of prostatic cancer cell lines (LNCaP, PC3 and DU145) through a partial interaction with opioid receptors. Kampa M, Bakogeorgou E, Hatzoglou A, Damianaki A, Martin PM, Castanas E. *Eur J Pharmacol*. 1997 Sep 24;335(2-3):255-65. PMID: 9369381.