

CURRICULUM VITAE

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| | Marianna H. Antonelou |
| Academic position: | Assistant Professor Department of Biology, School of Sciences, NKUA |
| Expertise: | Animal Cell Biology |
| Address: | Section of Cell Biology and Biophysics, Dept. of Biology, School of Sciences, NKUA, Panepistimiopolis (University campus), Athens 15784, Greece |
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| Web pages: | http://en.biol.uoa.gr/sections/section-of-cell-biology-biophysics.html https://orcid.org/0000-0003-3787-3596 https://www.scopus.com/authid/detail.uri?authorId=7801528846 https://scholar.google.gr/citations?user=QsqYwZAAAAAJ&hl https://publons.com/researcher/1416650/marianna-h-antonelou/ |

ACADEMIC QUALIFICATIONS:

2003 : Ph.D. in Biology, Dept. of Biology, School of Sciences, NKUA

1994 : B.Sc Degree In Biology, Dept. of Biology, School of Sciences, NKUA

APPOINTMENTS:

2016 : Assistant Professor, Dept. of Biology, NKUA

2013-2016 : Lecturer (**2011**: election), Dept. of Biology, NKUA

2007-2008 : Visiting Lecturer (degree-law 407/80), Dept. of Biology, NKUA

2003-2013 : Post-doctoral research scientist, Collaborative Researcher and Teaching Assistant, Dept. of Biology, Section of Cell Biology & Biophysics, NKUA

TEACHING:

Undergraduate courses (NKUA)

- **Cell Biology, Advanced Cell Biology, Developmental & Molecular Animal Biology, Genomics (2021)** (Dept. of BIOLOGY) **2013-**
- **Current issues on Biology of the Cell** (Dept. of PHYSICS) **2013-**
- **Current issues on Cell Biology** (Dept. of CHEMISTRY) **2013-**

Postgraduate courses (NKUA and University of West Attica-UWA)

- **Cell Biology and Biophysics**, Postgraduate course for Ph.D. students, Dept. of Biology, NKUA, **1999-2010**
- **Cell Biology (2004-), Image Analysis and Processing in Biomedicine (1998-2004), Aging and age-related diseases, (2013-)** M.Sc. Applications of Biology in Medicine, (Dept. of Biology, School of Sciences and Medical School, NKUA).
- **Biology I (2010-2014), Biology II, New Technologies (2004-2012), Biology and Experiment I (2014-)** M.Sc. Teaching of Biology (Dept. of Biology, NKUA).
- **Red Blood Cell Pathophysiology-Transfusion and Proteomics**, , M.Sc. Biomedical Methods and Technology in Diagnosis, (Dept. of Biomedical Sciences, West Attica University), **2016-**
- **Molecular Biology and Genomics**, M.Sc. Bioinformatics, (Dept. of Biology, NKUA), **2018-**

European research networks and workshops

- **COST Action BM1202**, ME-HaD European Network on Microvesicles and Exosomes in Health and Disease "*Extracellular Vesicles and Exosomes: Analysis and Properties*", Dept. of Chemistry, University of Ioannina, Ioannina, Greece, **2016**

Supervisor: **22** undergraduate Diploma Theses, **3** MSc Diploma Theses, **1** PhD and **2** Post-Doc Research Programs (**2013-**).

Academic consultant: **2** PhD Theses and **1** Post-Doc Research Grant (**2017-**).

External examiner: **9** PhD Theses (**2014-**), **26** MSc Diploma Theses (**2013-2015**) and **2** European Biomedical Research Fellowship Programs (**2017**).

RESEARCH INTERESTS/ACTIVITIES:

- Aging and death signaling in erythrocytes

- Extracellular vesicles and nanoparticles
- Energy/redox metabolism and proteome homeostasis in erythrocytes
- Blood transfusion biology-Storage lesions in blood labile products
- Biological networks – Detection of biomarkers in blood
- Cell biology of anemia -Secondary anemia in aging and diseases
- Hemoglobinopathies, Thalassemia, Hereditary RBC membrane disorders and enzymopathies (G6PD deficiency)
- Erythrocyte physiology in end-stage renal disease
- Ultrastructure of cell and sub-cellular components

HONORS & AWARDS:

1996-1999 PhD Fellowship, GSRT of Greece

2005, 2007, 2008, 2009, 2015, 2018 Hellenic Society of Haematology

2010, 2021 International Society of Blood Transfusion (ISBT) and Deutsche Gesellschaft für Transfusionmedizin und Immunhämatologie (DGTI)

2011: “Arkagathos Gouttas” award of the year, Hellenic Society of Haematology

2011: Research grant, Hellenic Society of Blood Transfusion

PLENARY SPEAKER INVITATIONS:

2010 Hellenic Society of Haematology

2012, 2016, 2018, 2019, 2021 Hellenic Society of Blood Transfusion

2013 European Congress of Biomedical Laboratory Science

2016 COST Action BM1202, ME-HaD European Network on Microvesicles & Exosomes in Health and Disease

2016 British Blood Transfusion Society (BBTS)

2017 Korean Society of Blood Transfusion (KSBT)

2020, 2020 Panhellenic Association of Life Scientists (2)

GUEST/REVIEW EDITOR:

2018-: Journal “*Frontiers in Physiology*” (Frontiers), section of “*Red Blood Cell Physiology*”

2018-: Journal “*PLOS ONE*” (Public Library of Science), Academic Guest Editor

2020-2021: “*International Journal of Molecular Sciences*” (MDPI), section “Molecular Biology/Hematology”, Thematic Issue: “In Sickness and in Health: Erythrocyte Responses to Stress and Aging”, Guest Editor

2021-: Journal “*Frontiers in Cell and Developmental Biology*” (Frontiers), section of “*Cell Death and Survival*”

MEMBER:

1996: Hellenic Society of Biological Sciences

2011: Hellenic Society of Biochemistry and Molecular Biology

2013: Hellenic Society of Blood Transfusion

2019: International Society of Blood Transfusion

FUNDED RESEARCH PROJECTS:

Collaborative researcher and member and of the Main Coordinating Research Team in **19 scientific projects** (YPER 1996, PENED 1999, PYTHAGORAS I, PENED 2006, HSBT 2011, ARCHIMEDES III, ELIDEK 2018 etc) (**1996-**)

SCIENTIFIC PUBLICATIONS IN REFEREED JOURNALS

N=59; *h*-index: 22/24; >2.400 citations; >1.500 allo-citations

- [1] The frequency of the allele α LELY, a low expression allele of the gene encoding erythroid spectrin α -chain, in the Greek population. *Haematologica*, 84(8): 754-755, **1999**. PMID: 10457417. Papassideri I, Antonelou M et al. <https://pubmed.ncbi.nlm.nih.gov/10457417>
- [2] A novel case of a haemoglobin H disease associated with clinical and morphological characteristics of congenital dyserythropoetic anaemia type I. *European Journal of Haematology*, 68(4): 247-252, **2002**. Antonelou M et al. <https://doi.org/10.1034/j.1600-0609.2002.01590.x>

- [3] Ultrastructural characterization of the erythroid cells in a novel case of congenital anaemia. *Blood Cells, Molecules & Diseases*, 30(1):30-42, **2003**. Antonelou MH et al. [https://doi.org/10.1016/s1079-9796\(03\)00006-8](https://doi.org/10.1016/s1079-9796(03)00006-8)
- [4] Defective organization of the erythroid cell membrane in a novel case of congenital anemia. *Blood Cells, Molecules & Diseases*, 30(1): 43-54, **2003**. Antonelou MH et al. [https://doi.org/10.1016/s1079-9796\(03\)00007-x](https://doi.org/10.1016/s1079-9796(03)00007-x)
- [5] Membrane protein carbonylation in non-leukodepleted CPDA-preserved red blood cells. *Blood Cells Molecules & Diseases* 36(2): 279-282, **2006**. Kriebardis AG, Antonelou MH et al. <https://doi.org/10.1016/j.bcmd.2006.01.003>
- [6] The dual role of chorion peroxidase in Bactrocera oleae chorion assembly. *International Journal of Developmental Biology*, 50(6):543-552, **2006**. Konstandi OA, Papassideri IS, Stravopodis DJ, Antonelou MH, et al., <https://doi.org/10.1387/ijdb.052122ok>
- [7] Physiologically important secondary modifications of red cell membrane in hereditary spherocytosis-evidence for in vivo oxidation and lipid rafts protein variations. *Blood Cells Molecules & Diseases*, 38(3):210-220, **2007**. Margetis P, Antonelou M et al. <https://doi.org/10.1016/j.bcmd.2006.10.163>.
- [8] Structural alterations of the erythrocyte membrane proteins in diabetic retinopathy. *Graefe's Archive for Clinical and Experimental Ophthalmology*, 245(8): 1179-1188, **2007**. Petropoulos IK, Margetis PI, Antonelou MH, et al., <https://doi.org/10.1007/s00417-006-0500-6>
- [9] Progressive oxidation of cytoskeletal proteins and accumulation of denatured hemoglobin in stored red cells. *Journal of Cellular and Molecular Medicine*, 11(1):148-155, **2007**. Kriebardis AG, Antonelou MH, et al., doi: <https://doi.org/10.1111/j.1582-4934.2007.00008.x>
- [10] Storage-dependent remodeling of the red blood cell membrane is associated with increased immunoglobulin G binding, lipid raft rearrangement and caspase activation. *Transfusion*, 47(7) 1212-1220, **2007**. Kriebardis AG, Antonelou MH, et al., <https://doi.org/10.1111/j.1537-2995.2007.01254.x>
- [11] RBC-derived vesicles during storage. Ultrastructure, protein composition, oxidation and signalling components. *Transfusion*, 48(9): 1943-1953, **2008**. Kriebardis AG, Antonelou MH, et al. <https://doi.org/10.1111/j.1537-2995.2008.01794.x>
- [12] Intracellular clusterin inhibits mitochondrial apoptosis by suppressing p53-activating stress signals and stabilizing the cytosolic Ku70-Bax protein complex. *Clinical Cancer Research*, 15(1):48-59, **2009**. Trougakos IP, Lourda M, Antonelou MH, et l., <https://doi.org/10.1158/1078-0432.CCR-08-1805>
- [13] Increased protein carbonylation of red blood cell membrane in diabetic retinopathy. *Experimental and Molecular Pathology*, 87(1):76-82, **2009**. Margetis PI, Antonelou MH, et al., <https://doi.org/10.1016/j.yexmp.2009.04.001>
- [14] Red blood cell aging markers during storage in citrate-phosphate-dextrose-saline-adenine-glucose-mannitol. *Transfusion*, 50(2):376-389, **2010**. Antonelou MH, et al., <https://doi.org/10.1111/j.1537-2995.2009.02449.x>
- [15] Aging and death signaling in mature red cells: from basic science to transfusion practice. Review. *Blood Transfusion*, 8(s3):39-47, **2010**. Antonelou MH, Kriebardis AG, Papassideri IS. <https://doi.org/10.2450/2010.007S>
- [16] Oxidative stress-associated shape transformation and membrane proteome remodeling in erythrocytes of end stage renal disease patients on hemodialysis. *Journal of Proteomics*, 74:2441-2452, **2011**. Antonelou MH, et al., <https://doi.org/10.1016/j.jprot.2011.04.009>
- [17] Apolipoprotein J/Clusterin is a novel structural component of human erythrocytes and a biomarker of cellular stress and senescence. *PLoS ONE* 6(10): e26032, **2011**. Antonelou MH, et al., <https://doi.org/10.1371/journal.pone.0026032>
- [18] Apolipoprotein J/Clusterin in human erythrocytes is involved in the molecular process of defected material disposal during vesiculation. *PLoS ONE* 6(10): e26033, **2011**. Antonelou MH, et al., <https://doi.org/10.1371/journal.pone.0026033>
- [19] Brain proteome response following whole body exposure of mice to mobile phone or wireless DECT base radiation. *Electromagnetic Biology and Medicine* 31(4):250-274, **2012**. Fragopoulou A, Samara A, Antonelou M, et al., <https://doi.org/10.3109/15368378.2011.631068>

- [20] Effects of pre-storage leukoreduction on stored red blood cells signaling: a time-course evaluation from shape to proteome. *Journal of Proteomics*, 76:220-238, **2012**. Antonelou MH, et al., <https://doi.org/10.1016/j.jprot.2012.06.032>
- [21] Cell-derived microparticles in stored blood products: innocent-bystanders or effective mediators of post-transfusion reactions? Review. *Blood Transfusion* 10 (SUPPL. 2):s21-s34, **2012**. Kriebardis AG*, Antonelou MH*, et al., *[Equal first authors] <https://doi.org/10.2450/2012.006S>
- [22] Detrimental effects of proteasome inhibition activity in *Drosophila melanogaster*: implication of ER stress, autophagy and apoptosis. *Cell Biology and Toxicology*, 29:13-37, **2013**. Velentzas PD, Velentzas AD, Mpakou VE, Antonelou MH, et al., <https://doi.org/10.1007/s10565-012-9235-9>
- [23] Blood modifications associated with end stage renal disease duration, progression and cardiovascular mortality: a 3-year follow-up pilot study. *Journal of Proteomics*, 101: 88-101, **2014**. Antonelou MH, et al., <https://doi.org/10.1016/j.jprot.2014.02.009>
- [24] Uric acid variation among regular blood donors is indicative of red blood cells susceptibility to storage lesion markers: a new hypothesis tested. *Transfusion*, 55: 2659-2671, **2015**. Tzounakas VL, Georgatzakou HT, Kriebardis AG, Papageorgiou EG, Stamoulis KE, Foudoulaki-Paparizos LE, Antonelou MH*, Papassideri IS. <https://doi.org/10.1111/trf.13211>
- [25] An update on red blood cell storage lesions, as gleaned through biochemistry and omics technologies. Review. *Transfusion* 55(1):205-219, **2015**. D'Alessandro A, Kriebardis A, Rinalducci S, Antonelou M, Hansen K, Papassideri I, Zolla L. <https://doi.org/10.1111/trf.12804>
- [26] Donor variation effect on red blood cell storage lesion: a multi-parameter, yet consistent, story. *Transfusion*, 56:1274-1286; **2016** Tzounakas VL, Georgatzakou HT, Kriebardis AG, Voulgaridou AI, Stamoulis KE, Foudoulaki-Paparizos LE, Antonelou MH*, Papassideri IS. <https://doi.org/10.1111/trf.13582>
- [27] Microparticles variability in fresh frozen plasma: preparation protocol and storage time effects *Blood Transfusion*, 14(2):228-237; **2016**. Kriebardis AG*, Antonelou MH*, et al., [* Equal first authors] <https://doi.org/10.2450/2016.0179-15>
- [28] Glucose 6-phosphate dehydrogenase deficient subjects may be better “storers” than donors of red blood cells. *Free Radical Biology and Medicine*, 96:152-165, **2016**. Tzounakas VL, Kriebardis, AG, Georgatzakou HT, Foudoulaki-Paparizos LE, Dzieciatkowska M, Wither MJ, Nemkov T, Hansen KC, Papassideri IS, D'Alessandro AD, Antonelou MH* <https://doi.org/10.1016/j.freeradbiomed.2016.04.005>
- [29] Data on how several physiological parameters of stored red blood cells are similar in glucose 6-phosphate dehydrogenase deficient and sufficient donors. *Data in Brief*, 8:618-627, **2016**. Tzounakas VL, Kriebardis, AG, Georgatzakou HT, Foudoulaki-Paparizos LE, Dzieciatkowska M, Wither MJ, Nemkov T, Hansen KC, Papassideri IS, D'Alessandro AD, Antonelou MH* <https://doi.org/10.1016/j.dib.2016.06.018>
- [30] Red blood cell abnormalities and the pathogenesis of anemia in end stage renal disease. Review. *Proteomics Clinical Applications*, 10(8):778-90; **2016**. Georgatzakou HT, *Antonelou MH, * et al. [*Equal first authors] <https://doi.org/10.1002/prca.201500127>
- [31] Donor-variation effect on red blood cell storage lesion: A close relationship emerges. Review. *Proteomics Clinical Applications*, 10(8):791-804; **2016**. Tzounakas VL, Kriebardis AG, Papassideri IS, Antonelou MH* <https://doi.org/10.1002/prca.201500128>
- [32] Update on extracellular vesicles inside red blood cell storage units: Adjust the sails closer to the new wind. Review. *Transfusion and Apheresis Science*, 55(1):92-104; **2016**. Antonelou MH*, Seghatchian J. <https://doi.org/10.1016/j.transci.2016.07.016>
- [33] Insights into red blood cell storage lesion: toward a new appreciation. Review. *Transfusion and Apheresis Science*, 55(3):292-301; **2016**. Antonelou MH*, Seghatchian J. <https://doi.org/10.1016/j.transci.2016.10.019>
- [34] Temperature-dependent haemolytic propensity of CPDA-1 stored erythrocytes vs. whole blood - Red cell fragility as a donor's signature on blood units. *Blood Transfusion*, 15:447-455, **2017**. Tzounakas VL, Anastasiadi AT, Karadimas DG, Zeqo RA, Georgatzakou HT, Pappa OD, Papatitze OA, Stamoulis KE, Papassideri IS, Antonelou MH*, Kriebardis, AG* <https://doi.org/10.2450/2017.0332-16>
- [35] Pathophysiological aspects of red blood cells in end-stage renal disease patients resistant to recombinant human erythropoietin therapy. *European Journal of Haematology*, 98(6):590-600, **2017**. Georgatzakou HT, Tzounakas VL, Kriebardis, AG, Velentzas A, Papageorgiou E, Voulgaridou A, Kokkalis A, Antonelou MH*, Papassideri IS. <https://doi.org/10.1111/ejh.12875>

- [36] Unraveling the Gordian knot: red blood cell storage lesion and transfusion outcomes. Review. *Blood Transfusion*, 15(2):126-130; **2017** Tzounakas VL, Kriebardis A, Seghatchian J, Papassideri I, Antonelou MH*. <https://doi.org/10.2450/2017.0313-16>
- [37] Red blood cell transfusion in surgical cancer patients: Targets, risks, mechanistic understanding and further therapeutic opportunities. Review. *Transfusion and Apheresis Science*, 56(3):291-304; **2017**. Tzounakas VL, Seghatchian J, Grouzi E, Kokoris S, Antonelou MH* <https://doi.org/10.1016/j.transci.2017.05.015>
- [38] Erythrocyte-based drug delivery in Transfusion Medicine: Wandering questions seeking answers. Review. *Transfusion and Apheresis Science*; 56:626-634; **2017**. Tzounakas VL, Karadimas DG, Papassideri IS, Seghatchian J, Antonelou MH*. <https://doi.org/10.1016/j.transci.2017.07.015>
- [39] Short-term effects of hemodiafiltration versus conventional hemodialysis on erythrocyte performance. *Canadian Journal of Physiology and Pharmacology*, 96(3):249-257, **2018**. Georgatzakou HT, Tzounakas VL, Kriebardis, AG, Velentzas AD, Kokkalis AC, Antonelou MH*, Papassideri IS. <https://doi.org/10.1139/cjpp-2017-0285>
- [40] Hypoxia modulates the purine salvage pathway and decreases red blood cell and supernatant levels of hypoxanthine during refrigerated storage. *Haematologica*; 103(2):361-372; **2018**. Nemkov T, Sun K, Reisz JA, Song A, Yoshida T, Dunham A, Wither MJ, Francis RO, Roach RC, Dzieciatkowska M, Rogers SC, Doctor A, Kriebardis A, Antonelou M, et al. <https://doi.org/10.3324/haematol.2017.178608>
- [41] Donor-specific individuality of red blood cell performance during storage is partly a function of serum uric acid levels. *Transfusion*, 58(1):34-40, **2018**. Tzounakas VL, Karadimas DG, Anastasiadi AT, Georgatzakou HT, Kazepidou E, Moschovas D, Velentzas AD, Kriebardis AG, Zafeiropoulos NE, Avgeropoulos A, Lekka M, Stamoulis KE, Papassideri IS, Antonelou MH* <https://doi.org/10.1111/trf.14379>
- [42] Metabolic linkage and correlations to storage capacity in erythrocytes from glucose 6-phosphate dehydrogenase deficient donors. *Frontiers in Medicine*, 4:248; **2018**. Reisz JA, Tzounakas VL, Nemkov T, Voulgaridou AI, Papassideri IS, Kriebardis AG, D'Alessandro A, Antonelou MH. <https://doi.org/10.3389/fmed.2017.00248>
- [43] Redox status, procoagulant activity and metabolome of fresh frozen plasma in glucose 6-phosphate dehydrogenase deficiency. *Frontiers in Medicine*; 5:16; **2018**. Tzounakas V, Gevi F, Georgatzakou H, Zolla L, Papassideri I, Kriebardis A, Rinalducci S, Antonelou MH. <https://doi.org/10.3389/fmed.2018.00016>
- [44] Red cell transfusion in paediatric Red cell transfusion in paediatric patients with thalassaemia and sickle cell disease: Current status, challenges and perspectives. *Transfusion and Apheresis Science*; 57(3):347-357; **2018**. Tzounakas VL, Valsami SI, Kriebardis AG, Papassideri IS, Seghatchian J, Antonelou MH*. <https://doi.org/10.1016/j.transci.2018.05.018>
- [45] Recipient's effects on stored red blood cell performance: the case of uremic plasma. *Transfusion*, 59:1900-1906; **2019**. Georgatzakou H, Tzounakas V, Velentzas A, Papassideri I, Kokkalis A, Stamoulis K, Kriebardis A, Antonelou M. <https://doi.org/10.1111/trf.15257>
- [46] Ex vivo generation of transfusable red blood cells from various stem cell sources: A concise revisit of where we are now. *Transfusion and Apheresis Science*; 58(1):108-112; **2019**. Christaki E-E, Politou M, Antonelou M, et al. <https://doi.org/10.1016/j.transci.2018.12.015>
- [47] "Valar morghulis": all red cells must die. *Blood Transfusion*; 18(2):83-85; **2020**. Georgatzakou HT, Antonelou MH, et al. <https://doi.org/10.2450/2020.0028-20>
- [48] The multi-faced extracellular vesicles in the plasma of chronic kidney disease patients. *Frontiers in Cell and Developmental Biology*; 8:227; **2020** (Specialty section: *Molecular Medicine*) Georgatzakou HT, Pavlou E, Papageorgiou E, Papassideri I, Kriebardis A, Antonelou MH* <https://doi.org/10.3389/fcell.2020.00227>
- [49] When I need you most: frozen red blood cells for transfusion. *Transfusion and Apheresis Science*; 59(3):102786; **2020** Anastasiadi AT, Tzounakas VL, Kriebardis AG, Stamoulis KE, Seghatchian J, Antonelou MH* <https://doi.org/10.1016/j.transci.2020.102786>
- [50] Sex-related aspects of the red blood cell storage lesion. *Blood Transfusion; Online ahead of print*; **2020**. Tzounakas VL, Anastasiadi AT, Drossos PV, Karadimas DG, Valsami SI, Stamoulis KE, Papassideri IS, Politou M, Antonelou MH,* Kriebardis AG. <https://doi.org/10.2450/2020.0141-20>
- [51] Red cell proteasome modulation by storage, redox metabolism and transfusion. *Blood Transfusion; Online ahead of print*; **2020**. Tzounakas VL, Dzieciatkowska M, Anastasiadi AT, Karadimas DG, Vergaki A, Siourounis P,

- Stamoulis KE, Papassideri IS, Kriebardis AG, D' Alessandro A, **Antonelou MH***
<https://doi.org/10.2450/2020.0179-20>
- [52] Secretory phospholipase A2-IIA protein and mRNA pools in extracellular vesicles of bronchoalveolar lavage fluid from patients with early acute respiratory distress syndrome: A new perception in the dissemination of inflammation? *Pharmaceuticals (Basel)*; 13(11):415; **2020**. Papadopoulos S, Kazepidou E, **Antonelou MH**, Leondaritis G, Tsapinou A, Koulouras VP, Avgeropoulos A, Nakos G, Lekka ME.
<https://doi.org/10.3390/ph13110415>
- [53] Beta-thalassemia minor is a beneficial determinant of red blood cell storage lesion. *Haematologica; In press; 2021* doi: Tzounakas VL, Anastasiadi AT, Stefanoni D, Cendali F, Bertolone L, Gamboni F, Dzieciatkowska M, Rousakis P, Vergaki A, Soulakis V, Tsitsilonis OE, Stamoulis K, Papassideri IS, Kriebardis AG, D'Alessandro A, **Antonelou MH*** <https://doi.org/10.3324/haematol.2020.273946>
- [54] Proteome of stored RBC membrane and vesicles from heterozygous beta thalassemia donors. *International Journal of Molecular Sciences*; 22(7):3369; **2021** Tzounakas VL, Anastasiadi AT, Dzieciatkowska M, Karadimas DG, Stamoulis K, Papassideri IS, Hansen KC, D'Alessandro A, Kriebardis AG*, **Antonelou MH***
<https://doi.org/10.3390/ijms22073369>
- [55] Fatty acid desaturase activity in mature red blood cells and implications for blood storage quality. *Transfusion*; 61(6):1867-1883; **2021** Thomas T, Cendali F, Fu X, Gamboni F, Morrison EJ, Beirne J, Nemkov T, **Antonelou MH**, Kriebardis A, Welsby I, Hay A, Dziewulska KH, Busch MP, Kleinman S, Buehler PW, Spitalnik SL, Zimring JC, D'Alessandro A. <https://doi.org/10.1111/trf.16402>
- [56] Leukoreduction makes a difference: a pair proteomics study of extracellular vesicles in red blood cell units. *Transfusion and Apheresis Science*; 60:103166; **2021** Tzounakas VL, Stamoulis KE, Anastasiadi AT, Papassideri IS, Kriebardis AG, Rinalducci S*, **Antonelou MH*** <https://doi.org/10.1016/j.transci.2021.103166>
- [57] Osmotic hemolysis is a donor-specific feature of red blood cells under various storage conditions and genetic backgrounds. *Transfusion*; 61:2538-2544; **2021** Tzounakas VL, Anastasiadi AT, Valsami SI, Stamoulis KE, Papageorgiou EG, Politou M, Papassideri IS, Kriebardis AG, **Antonelou MH*** <https://doi.org/10.1111/trf.16558>
- [58] Coagulation abnormalities in renal pathology of chronic kidney disease: the interplay between blood cells and soluble factors. *Biomolecules*; In press; 2021 Pavlou EG, Georgatzakou HT, Fortis SP, Tsante KA, Tsantes AG, Nomikou EG, Kapota AI, Petras DI, Venetikou MS, Papageorgiou EG, **Antonelou MH**, Kriebardis AG.
<https://doi.org/10.3390/biom11091309>
- [59] Red blood cell proteasome in beta-thalassemia trait: topology of activity and networking in blood bank conditions. *Membranes* 11(9):716; **2021** Anastasiadi AT, Tzounakas VL, Arvaniti V-Z, Dzieciatkowska M, Stamoulis K, Lekka ME*, Papassideri IS, D'Alessandro A, Kriebardis AG, **Antonelou MH***
<https://doi.org/10.3390/membranes11090716>

REFEREED CONFERENCE PUBLICATIONS: N=38 (1998-)

SCIENTIFIC PUBLICATIONS (REVIEWS) IN HELLENIC PEER REVIEWED JOURNALS: N=3 (2010, 2011, 2019)

CONFERENCE ANNOUNCEMENTS: N=150

International conferences: N=49 (1998-): International Society of Hematology (ISH), International Society of Blood Transfusion (ISBT), Deutsche Gesellschaft für Transfusionsmedizin und Immunhämatologie (DGTI), European Hematology Association (EHA), European Federation of Endocrine Societies (EFES), Federation of European Biochemical Societies (FEBS), International Union of Biochemistry and Molecular Biology (IUBMB), American Association of Blood Banks (AABB), Polish Radiation Research Society (PRRS), Society for Free Radical Research International (SFRR), SCinTE, British Blood Transfusion Society (BBTS), Korean Society of Blood Transfusion (KSBT).

National conferences: N=101 (1994-): Hellenic Society of Haematology, Hellenic Society of Blood Transfusion, Hellenic Society of Biological Sciences, Hellenic Society for Clinical Chemistry-Clinical Biochemistry, Hellenic Society of Biochemistry and Molecular Biology, Hellenic Society of Neuroscience, Hellenic Lipid Forum, Panhellenic Association of Life Scientists.