

CURRICULUM VITAE

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ACADEMIC POSITIONS:

7/2009 – Today: Assistant Professor of Biochemistry, Pharmacy Dept., University of Patras
8/2003 – 7/2009: Lecturer of Biochemistry, Pharmacy Dept., University of Patras
8/2003 - Today: Collaborating Researcher, Biochemistry Dept., Hellenic Pasteur Institute.
2/2002 – 8/2003: Postdoctoral Researcher, Biochemistry Dept., Hellenic Pasteur Institute.

EDUCATION:

1994 - 2001: PhD in Biochemistry, School of Biology, Kapodistrian University of Athens, Athens, GREECE.
1995 - Today: Graduate student in School of Medicine, Kapodistrian University of Athens, Athens, GREECE.
1993: BSc in Biology, School of Biology, Kapodistrian University of Athens, Athens, GREECE.

PUBLICATIONS

- A47 Lagoumintzis G, Zisimopoulou P, Trakas N, Grapsa E, **Poulas K**, Tzartos SJ. Scale up and safety parameters of antigen specific immunoadsorption of human anti-acetylcholine receptor antibodies. *J Neuroimmunol.* 2014 Feb 15;267(1-2):1-6.
- A46 Niarchos A, Zouridakis M, Douris V, Georgostathi A, Kalamida D, Sotiriadis A, **Poulas K**, Iatrou K, Tzartos SJ. Expression of a Highly Antigenic and Native-Like Folded Extracellular Domain of the Human $\alpha 1$ Subunit of Muscle Nicotinic Acetylcholine Receptor, Suitable for Use in Antigen Specific Therapies for Myasthenia Gravis. *PLoS One.* 2013 Dec 20;8(12):e84791. doi: 10.1371/journal.pone.0084791. eCollection 2013.

- A45 Zagoriti Z, Kambouris ME, Patrinos GP, Tzartos SJ, **Poulas K**. Recent advances in genetic predisposition of myasthenia gravis. *Biomed Res Int*. 2013;2013:404053. doi: 10.1155/2013/404053. Epub 2013 Nov 5. Review.
- A44 Papadopoulos P, Viennas E, Gkantouna V, Pavlidis C, Bartsakoulia M, Ioannou ZM, Ratbi I, Sefiani A, Tsaknakis J, **Poulas K**, Tzimas G, Patrinos GP. Developments in FINDbase worldwide database for clinically relevant genomic variation allele frequencies. *Nucleic Acids Res*. 2014 Jan 1;42(1):D1020-6.
- A43 Canan Ulusoy; Eunmi Kim; Ruksana Huda; Vuolat Yilmaz; **Konstantinos Poulas**; Nikos Trakas; Lamprini Skriapa; Athanasios Niarchos; Richard T Strait; Fred D Finkelman; Selin Turan; Paraskevi Zisimopoulou; Socrates Tzartos; Güher Saruhan-Direskeneli; Premkumar Christadoss. Preferential production of IgG1, IL-4 and IL-10 in MuSK-immunized mice. *Clinical Immunology*. Accepted
- A42 Avidan, Nili; Le Panse, Rozen; Harbo, Hanne; Bernasconi, Pia; **Poulas, Konstantinos**; Ginzburg, Elizabeta; Cavalcante, Paola; Colleoni, Lara; Baggi, Fulvio; Antozzi, Carlo; Truffault, Frederique; Horn-Saban, Shirley; Pöschel, Simone; Zagoriti, Zoi; Maniaol, Angelina; Lie, Benedicte; Bernard, Isabelle; Saoudi, Abdelhadi; Illes, Zsolt; Casasnovas, Carlos; Melms, Arthur; Tzartos, Socrates; Willcox, Nick; Kostera-Pruszczyk, Anna; Tallaksen, Chantal; Mantegazza, Renato; BERRIH-AKNIN, Sonia; Miller, Ariel, "VAV1 and BAFF, via NFkB pathway, are genetic risk factors for Myasthenia Gravis" *Annals of Clinical and Translational Neurology*. Accepted
- A41 Tafrafi C, Paizi A, Borg J, Radmilovic M, Bartsakoulia M, Giannopoulou E, Giannakopoulou O, Stojiljkovic-Petrovic M, Zukic B, **Poulas K**, Stavrou EF, Lambropoulou P, Kourakli A, Felice AE, Papachatzopoulou A, Philipson S, Pavlovic S, Georgitsi M, Patrinos GP. (2013). Genomic variation in the MAP3K5 gene is associated with β -thalassemia disease severity and hydroxyurea treatment efficacy, *Pharmacogenomics*; 14(5):469-83.
- A40 Castana O, Dimitrouli A, Argyrakos T, Theodorakopoulou E, Stampolidis N, Papadopoulos E, Pallantzias A, Stasinopoulos I and **Poulas K***. (2013). Wireless Electrical Stimulation: An Innovative Powerful Tool for the Treatment of a Complicated Chronic Ulcer, *The International Journal of Lower Extremity Wounds*; 12:18-21.
- A39. Ramadhinara A, **Poulas K***. (2013). Use of wireless microcurrent stimulation for the treatment of diabetes-related wounds: 2 case reports, *Adv Skin Wound Care*; 26(1):1-4.
- A38. Lazaridis K, Zisimopoulou P, Lagoumintzis G, Skriapa L, Trakas N, Evangelakou P, Kanelopoulos I, Grapsa E, **Poulas K**, Tzartos S. (2012). Antigen-specific apheresis of autoantibodies in myasthenia gravis, *Ann N Y Acad Sci*; 1275(1):7-12.
- A37 Giannopoulou E, Bartsakoulia M, Tafrafi C, Kourakli A, **Poulas K**, Stavrou EF, Papachatzopoulou A, Georgitsi M, Patrinos GP. (2012). A single nucleotide polymorphism in the HBBP1 gene in the human β -globin locus is associated with a mild β -thalassemia disease phenotype, *Hemoglobin*; 36(5):433-45.
- A36 Zagoriti Z, Georgitsi M, Giannakopoulou O, Ntellos F, Tzartos SJ, Patrinos GP, **Poulas K***. (2012). Genetics of myasthenia gravis: a case-control association study in the Hellenic population, *Clin Dev Immunol*; 48:491-9.

- A35 **Poulas K***, Katsouraki E, Kordas G, Kokla A, Tzartos SJ*. (2012). Anti-MuSK- and anti-AChR-positive myasthenia gravis induced by D-penicillamine, *Journal of Neuroimmunology*; 250(1-2):94-8
- A34 Viennas E, Gkantouna V, Ioannou M, Georgitsi M, Rigou M, **Poulas K**, Patrinos GP, Tzimas GE. (2012). Population-Ethnic Group Specific Genome Variation Allele Frequency Data: A Querying and Visualization Journey, *Genomics*; 100:93-101
- A33 Pavlidis C, Karamitri A, Barakou A, Cooper DN, **Poulas K**, Topouzis S & Patrinos GP. (2011). Ascertainment and critical assessment of the views of the general public and healthcare professionals on nutrigenomics in Greece, *Personalized Medicine*; 9(2):201-10.
- A32 Dimitropoulos N, Papakyriakou A, Dalkas G, Chasapis C, **Poulas K** and Spyroulias G. (2011). A computational investigation on the role of glycosylation in the binding of alpha1 nicotinic acetylcholine receptor with two alpha-neurotoxins. *Proteins*; 79:142-152.
- A31 Sagia A, Cooper DN, **Poulas K**, Stathakopoulos V, Patrinos GP. (2011). Critical appraisal of the private genetic and pharmacogenomic testing environment in Greece. *Personalized Medicine*; 8(4):413-420.
- A30 Mai Y, Koromila T, Sagia A, Cooper DN, Vlachopoulos G, Lagoumintzis G, Kollia P, **Poulas K**, Stathakopoulos V, Patrinos GP. (2011). A critical view of the general public's awareness and physicians' opinion of the trends and potential pitfalls of genetic testing in Greece, *Personalized Medicine*; 8(5):551-61
- A29 Georgitsi M, Viennas E, Gkantouna V, Christodouloupoulou E, Zagoriti Z, Tafrali C, Ntellos F, Giannakopoulou O, Boulakou A, Vlahopoulou P, Kyriacou E, Tsaknakis J, Tsakalidis A, **Poulas K**, Tzimas G, Patrinos GP. (2010). Population-specific documentation of pharmacogenomic markers allelic frequencies in the Frequency of INherited Disorders database. *Pharmacogenomics*; 12(1):49-58.
- A28 Georgitsi M, Viennas E, Gkantouna V, van Baal S, Petricoin EF, **Poulas K**, Tzimas G, Patrinos GP. (2010). FINDbase: A worldwide database for genetic variation allele frequencies updated, *Nucleic Acids Research*; 39(Database issue):D926-32
- A27 van Baal S, Zlotogora J, Lagoumintzis G, Gkantouna V, Tzimas I, **Poulas K**, Tsakalidis A, Romeo G, Patrinos GP. (2010). ETHNOS: A versatile electronic tool for the development and curation of national genetic databases, *Hum Genomics*; 4(5):361-8.
- A26 Lagoumintzis G, **Poulas K**, Patrinos GP. (2010). Genetic databases and their potential in pharmacogenomics, *Curr Pharm Des*; 16(20):2224-31.
- A25 Lagoumintzis G, Zisimopoulou P, Kordas G, Lazaridis K, **Poulas K**, Tzartos SJ. (2010). Recent approaches to the development of antigen-specific immunotherapies for myasthenia gravis, *Autoimmunity*; 43(5-6):436-45.
- A24 Tsiamalos P, Kordas G, Kokla A, **Poulas K***, Tzartos SJ*. (2009). MuSK Myasthenia gravis in Greece, *European Journal of Neurology*; 16:925-30.
- A23 Zouridakis M, Zisimopoulou P, Eliopoulos E, **Poulas K**, Tzartos SJ. (2009). Design and expression of human $\alpha 7$ nicotinic acetylcholine receptor extracellular domain mutants with enhanced solubility and ligand-binding properties. *Biochim Biophys Acta*; 1794:355-66.
- A22 Zouridakis M, Zisimopoulou P, **Poulas K**, Tzartos SJ. (2009). Recent advances in understanding the structure of nicotinic acetylcholine receptors, *IUBMB Life*; 61:407-23.

- A21 Bitzopoulou K, Kostelidou K, **Poulas K**, Tzartos SJ. (2008). Mutant forms of the extracellular domain of the human acetylcholine receptor gamma-subunit with improved solubility and enhanced antigenicity. The importance of the Cys-loop, *BBA - Proteins and Proteomics*; 1784:1226-33.
- A20 Tzartos SJ, Bitzopoulou K, Gavra I, Kordas G, Jacobson L, Kostelidou K, Lagoumintzis G, Lazos O, **Poulas K**, Sideris S, Sotiriadis A, Trakas N, Zisimopoulou P. (2008). Antigen-specific apheresis of pathogenic autoantibodies from myasthenia gravis sera, *Ann. N.Y Acad. Sci*; 1132:291-9.
- A19 Zisimopoulou P, Lagoumintzis G, **Poulas K**, Tzartos SJ. (2008). Antigen specific apheresis of human anti-acetylcholine receptor autoantibodies from myasthenia gravis patients' sera using *Escherichia coli*-expressed receptor domains. *J. Neuroimmunol*; 200:133-41
- A18 Zisimopoulou P, Lagoumintzis G, Kostelidou K, Bitzopoulou K, Kordas G, Trakas N, **Poulas K**, Tzartos SJ. (2008). Towards antigen-specific apheresis of pathogenic autoantibodies from myasthenic patients as a further step to plasmapheresis treatment. *J. Neuroimmunol*; 201-202:95-103.
- A17 Konstantakaki M, Tzartos SJ, **Poulas K***, and Eliopoulos E*. (2008). Model of the extracellular domain of the human alpha7 nAChR based on the crystal structure of the mouse alpha 1 nAChR extracellular domain; *Journal of Molecular Graphics and Modelling*, 26, 1333-37.
- A16 Kalamida D, **Poulas K**, Avramopoulou V, Fostieri E, Lagoumintzis G, Lazaridis K, Sideri A and Tzartos S. (2007). Muscle and Neuronal Nicotinic Acetylcholine Receptors: Structure, Function and Pathogenicity. *FEBS Journal*, 274 3799–3845.
- A15 Zouridakis M, Zisimopoulou P, Eliopoulos E, Jacobson L, **Poulas K** and Tzartos SJ. (2007). Recombinant extracellular domains of human neuronal nicotinic receptors: Preliminary studies on mutant forms for the improvement of solubility. *Neurophysiology*, 39(4/5): 259-63.
- A14 Sideris S, Lagoumintzis G, Kordas G, Kostelidou K, Sotiriadis A, **Poulas K*** and Tzartos SJ*. (2007). Isolation and functional characterization of anti-acetylcholine receptor subunit-specific autoantibodies from myasthenic patients: receptor loss in cell culture, *J. Neuroimmunol*; 189:111-7.
- A13. Zouridakis M, Kostelidou K, Sotiriadis A, Stergiou C, Eliopoulos E, **Poulas K** and Tzartos S. (2007). Circular Dichroism Studies of Recombinant Extracellular Domains of Human Muscle and Neuronal Nicotinic Acetylcholine Receptors Provide an Insight into their structure. *Intl. J. Biol. Macromol*; 41:423-9.
- A12. Konstantakaki M, Tzartos SJ, **Poulas K***, and Eliopoulos E*. (2007). Molecular modeling of the complex between Torpedo acetylcholine receptor and anti-MIR Fab198. *Biochem. Biophys. Res. Commun*; 356:569-75.
- A11 Fostieri E, Kostelidou K, **Poulas K** and Tzartos SJ. (2006). Recent advances in the understanding and therapy of myasthenia gravis, *Future Neurology*; 1(5), 799-817.
- A10 Tataridis D, Kolocouris A, Fytas G, Kolocouris N, Foscolos GB, **Poulas K** and Tzartos SJ. (2002). Mounting the nicotinic pharmacophoric structural elements in an homoadamantane scaffold: Synthesis, molecular modeling and binding affinities to $\alpha 7$ nicotinic acetylcholine receptors, *Il Farmaco*; 57, 979-84.
- A9 Campos E, Schiavi C, Bolognesi A, Lubelli C, Polito L, Bellusci C, Vismara S, **Poulas K**, Tzartos SJ and Stirpe F. (2002). Selective lesions of rabbit extraocular

muscles injected with the anti-AChR immunotoxin saporin-mAb73, *Current Eye Research*; 24(1):58-65.

- A8. **Poulas K**, Eliopoulos E, Vatzaki E, Navaza J, Kontou M, Oikonomakos N, Acharya KR and Tzartos SJ. (2001). Crystal structure of Fab198, an efficient protector of acetylcholine receptor against myasthenogenic antibodies, *European Journal of Biochemistry*; 268, 3685-3693.
- A7 **Poulas K**, Tsibri E, Kokla A, Papanastasiou D, Tsouloufis T, Marinou M, Tsantili P, Papapetropoulos T and Tzartos SJ. (2001). Epidemiology of seropositive myasthenia gravis in Greece, *Journal of Neurology, Neurosurgery and Psychiatry*; 71(3) :352-356.
- A6 **Poulas K** and Tzartos SJ. (2001). The 'gender gap' in autoimmune diseases, *The Lancet*; 357(9251):234.
- A5 **Poulas K**, Tsibri E, Papanastasiou D, Tsouloufis T, Marinou M, Tsantili P, Papapetropoulos T and Tzartos SJ. (2000). Equal male and female incidence of myasthenia gravis; *Neurology*, 54(5):1202-1203.
- A4 Papanastasiou D, **Poulas K**, Kokla A and Tzartos SJ. (2000). Prevention of passively transferred experimental autoimmune myasthenia gravis by fragments of monoclonal antibodies directed against the main immunogenic region of the acetylcholine receptor, *J. Neuroimmunol*; 104(2):124-132.
- A3 **Poulas K**, Tsouloufis T and Tzartos SJ. (2000). Treatment of passively transferred experimental autoimmune myasthenia gravis using papain, *Clinical and Experimental Immunology*; 120:363-368.
- A2 Papanastasiou D, Mamalaki A, Eliopoulos E, **Poulas K**, Liolitsas C and Tzartos SJ. (1999). Construction and characterization of a humanized single chain Fv antibody fragment against the main immunogenic region of the acetylcholine receptor, *J. Neuroimmunol*; 94:182-195.
- A1 De La Porte S, Chaubourt E, Fabre F, **Poulas K**, Chapron J, Eymard B, Tzartos SJ and Koenig J. (1998). Accumulation of acetylcholine receptor is a necessary condition for normal accumulation of acetylcholinesterase during in vitro neuromuscular synaptogenesis, *European Journal of Neuroscience*; 10:1631-1643.

TOTAL IMPACT FACTOR ~ 175

CITATIONS > 500

* Corresponding Author

DBLP CITED PUBLICATIONS

- Haidinis V, Dalkas G, **Poulas K**, Spyroulias G (2012) Molecular Modeling and Conformational Analysis of MuSK Protein. *AIAI* (2) 2012: 642-650
- Gkantouna V, Ioannou ZM, Tsakalidis A, Viennas E, **Poulas K**, Tsaknakis J, Tzimas J. (2012). Towards an era of epidemiological databases for autoimmune diseases. *BIBE* 2012: 69-73
- Antoniou DI, Georgitsi M.A, Gkantouna V.A, Patrinos G.P, **Poulas K**, Tsakalidis AK, Tzimas G.E, Viennas E.S. (2010). dAUTObase: Mining gems on autoimmune diseases utilizing web visualization technologies ITAB 2010, 1-5

Projects supported

General Secretariat for Research

Thales: «Autoimmunity»

2012 – 2015, 600000 Euros, Coordinator (Collaboration with Medical Schools of Athens and Larisa)

Hellas - Turkey: «MuSK Myasthenia gravis»

2011 – 2013, 15000 Euros, Coordinator

Ministry of education

«**PITHAGORAS**» Structural studies of recombinant extracellular domains of AChR
2004-2006 65.000 € (In collaboration with S. Tzartos and G. Spyroulias)

Ministry of Employment

EQUAL II: Development of a distance learning platform for people suffering from myasthenia gravis

2005 – 2007 170000 € (Scientific Responsible)

University of Patras

Project «Karatheodoris»: Structural studies of AChR
2005 - 2007 25000 € (Scientific Responsible)

Other

MDA-Hellas. Myasthenia gravis studies

European Union

FP7 Researchers' Night 2013

The Greek events, 2013 14.000 € Principal Investigator

FP7, REGPOT – SEE-DRUG, Principal Investigator

FP7 Researchers' Night 2011

The Greek events, 2011 12.000 € Principal Investigator

FP7 Researchers' Night 2010

The Greek events, 2010 12.000 € Principal Investigator

FP7 Researchers' Night 2008

The Greek events, 2008 28.000 € Principal Investigator

FP7 Researcher's Night 2007

The Greek events, 2007 28.000 € Principal Investigator

LLP Leonardo: Wings2Fly: Innovative interventions for disadvantaged
2007-2008 18.000 € Principal Investigator

AWARDS

1^o Archimedes Award, EC, 44.000 Euros.

“Sotiris Papastamatis” Award, during the 24th Panhellenic Medical Congress