

George Thyphronitis

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Education

1973-1978 B.S., University of Athens, School of Biology, Athens, Greece.

1980-1983 PhD in Animal Physiology, Université Pierre et Marie Curie, Paris-6, Laboratory of Experimental Immunology and Immunopathology, INSERM U23, Paris, France

Positions and Employment

1984-1986 Associate Investigator, Department of Blood Disorders, Aghia Sophia Children's Hospital, University of Athens Medical School, Athens, Greece.

1986-1989 Fogarty Center Visiting Research Fellow, Kidney Diseases Section, NIH.

1989-1994 Research Instructor/ Assistant Professor, Department of Medicine, Uniformed Services University of Health Sciences, Bethesda, MD.

1994-1995 Visiting Researcher, INSERM, Centre d'Immunologie et de Biologie Parasitaire, INSERM U167, Lille, France.

1995-1997 Chargé de Recherches 1, CNRS, INSERM U167, Lille, France.

1997-2004 Visiting Scientist, Dep of Pathophysiology, Medical School Univ. of Athens.

2004-2007 Chargé de Recherches 1, CNRS, IAL, CNRS UPR 9045, Oncologie Virale, Villejuif, France.

2007-2014 Ass. Professor of Immunology, faculty of Biological Applications and Technology, University of Ioannina, Ioannina, Greece

2014- Professor of Immunology, faculty of Biological Applications and Technology, University of Ioannina, Ioannina, Greece

Teaching Experience

- Responsible for one mandatory and one elective course (since 2008)
- Supervisor for 6 PhD theses (completed) and supervisor for 1 PhD in progress.
- Supervisor of 3 MSc and more 15 graduation theses.

Funding

Completed: 7 national programs (total value more than 2.000,000 €), as participant or principal investigator.

Present: Development and application of state-of-the-art methods of sex pre-selection in sheep, aiming at the maintenance and increase of genetic base and productivity of high genetic value indigenous sheep breeds. (930.000€)

Publications

(Published **36** peer-reviewed publications, **>1200** total citations (w/o self-citations)).

1. Tsiomita S, Georgopoulou U, Doumba PP, Koskinas J, Adamidis K, Papaloukas C, **Thyphronitis G**. Evaluation of alternative serum biomarkers to monitor the progression of chronic HBV and HCV infection. *Infect Genet Evol.* 2018 58:17-22. doi:10.1016/j.meegid.2017.12.002.
2. Kavrochorianou N, Evangelidou M, Markogiannaki M, Tovey M, **Thyphronitis G*** and Haralambous S. IFNAR signaling directly modulates T lymphocytes activity resulting in milder Experimental Autoimmune Encephalomyelitis development. *J Leukoc Biol*, in press.
3. Simos T, Georgopoulou U, **Thyphronitis G**, Koskinas J, Papaloukas C. Analysis of protein interaction networks for the detection of candidate hepatitis B and C biomarkers. *IEEE J Biomed Health Inform.* 19:181-9, 2015. doi: 10.1109/JBHI.2014.2344732.

4. Boubali S, Liopeta K, Virgilio L, **Thyphronitis G**, Mavrothalassitis G, Dimitracopoulos G, Paliogianni F. Calcium/calmodulin-dependent protein kinase II regulates IL-10 production by human T lymphocytes: A distinct target in the calcium dependent pathway. *Mol Immunol.*;52:51-60, doi: 10.1016/j.molimm.2012.04.008, 2012.
5. Serti E, Doumba PP, **Thyphronitis G**, Tsitoura P, Katsarou K, Foka P, Konstandoulakis MM, Koskinas J, Mavromara P, Georgopoulou U. Modulation of IL-2 expression after uptake of hepatitis C virus non-enveloped capsid-like particles: the role of p38 kinase. *Cell Mol Life Sci.* 68:505-22, doi: 10.1007/s00018-010-0466-8, 2011.
6. Liopeta K, Boubali S, Virgilio L, **Thyphronitis G**, Mavrothalassitis G, Dimitracopoulos G, Paliogianni F. cAMP regulates IL-10 production by normal human T lymphocytes at multiple levels: a potential role for MEF2. *Mol Immunol.* 46:345-54, doi: 10.1016/j.molimm.2008.
7. Tovey MG, Lallemand C, **Thyphronitis G**. Adjuvant activity of type I interferons. *Biol Chem.* 389:541-5, doi:10.1515/BC.2008.051, 2008.
8. Kogkopoulou O, Tzakos E, Mavrothalassitis G, Baldari CT, Paliogianni F, Young HA, and **Thyphronitis G***. Conditional up-regulation of IL-2 production by p38 MAPK inactivation is mediated by increased Erk1/2 activity. *J Leukoc Biol* 79: 1052-1060, doi: 10.1189/jlb.0705418, 2006
9. Tenta R, Sotiriou E, Pitulis N, **Thyphronitis G**, and Koutsilieris M. Prostate cancer cell survival pathways activated by bone metastasis microenvironment. *J. Musculoskelet. Neuronal. Interact.* 5:135-144. 2005.
10. Veiopoulou C, Kogopoulou O, Tzakos E, Mavrothalassitis G, Paliogianni F, Mitsias D, Moutsopoulos HM and **G. Thyphronitis***. IL-2 and IL-10 production by human CD4+ T cells is differentially regulated by p38: mode-of-stimulation dependent regulation of IL-2. *NeuroImmunomodulation* 11:199-208, doi:10.1159/000078437, 2004.
11. **G. Thyphronitis*** and M. Koutsilieris. Boosting the immune response: an alternative combination therapy for cancer patients. *Anticancer Res.* 24:2443-53, 2004.
12. Tzoanopoulos D, Speletas M, Arvanitidis K, Veiopoulou C, Kyriaki S, **Thyphronitis G**, Sideras P, Kartalis G and Ritis K. Low expression of Interferon Regulatory Factor-1 and identification of novel exons skipping in patients with Chronic Myeloid Leukaemia. *Brit. J. Haematol.* 119:1-8, 2002.
13. Mitsias D, Tzioufas A, Veiopoulou C, Zintzaras E, Tassios E, Kogopoulou O, Moutsopoulos HM and **Thyphronitis G***. The Th1/Th2 cytokine balance changes with the progress of the immunopathologic lesion of Sjogren's syndrome (SS). *Clin. Exp. Immunol.* 128:562-568, 2002.
14. Tapinos N, Polyxronis M, **Thyphronitis G** and HM. Moutsopoulos. Characterization of the cysteine-rich secretory protein 3 gene as an early-transcribed gene with a putative role in the pathology of Sjogren's syndrome. *Arthritis Rheum.* 46:215-222, doi:10.1002/art.10024, 2002
15. Comoy E, Pestel J, Duez C, Stewart GA, Finkelman F, Capron A and **Thyphronitis G***. Do allergens induce type-2 immune responses? *Int. Arch. Allergy Immunol* 118:399-402, DOI: 10.1159/000024147, 1999.
16. Comoy E, Capron A and **Thyphronitis G***. Adjuvant is the major parameter influencing the isotype profiles generated during immunization with a protein antigen, the *Schistosoma mansoni* Sm28-GST. *Scand. J. Immunol.* 47:444-452, 1998
17. Comoy E, Pestel J, Duez C, Stewart GA, Vendeville C, Fournier C, Finkelman F, Capron A and **Thyphronitis G***. The house dust mite allergen, *Dermatophagoides pteronyssinus* promotes type 2 responses, by modulating the balance between IL-4 and IFN- γ . *J. Immunol.* 160:2456-2462, 1998.
18. Comoy E, Vendeville C, Capron A, and **Thyphronitis G***. Infection with *Salmonella typhimurium* modulates the immune response to *chistosoma mansoni* glutathion-S-transferase. *Infect. Immun.* 65:3261-3266, 1997.

19. Comoy E, Capron A and **Thyphronitis G***. In vivo induction of type 1 and 2 immune responses against protein antigens. Int. Immunol. 9:523-531, 1997
20. Duez C, Tscopoulos A, Tillie-Leblond I, **Thyphronitis G**, Wallaert B, Cesbron J-Y, Maquillies P, Tonnel A-B and Pestel J. An in vivo model of allergic inflammation: Pulmonary human cell infiltrate in allergen-challenged allergic Hu-SCID mice. Eur. J. Immunol. 26:1088-1093, 1996.
21. Paliogianni F, Hama N, Mavrothalassitis G, **Thyphronitis G** and Boumpas D. Signal requirements for interleukin-4 promoter activation in human T cells. Cell. Immunol. 168:33-38, 1996
22. King CL, Stupi RJ, Craighead N, June CH and **Thyphronitis G**. CD28 stimulates IL-4 and IL-5 production and promotes Th2 subset differentiation by human CD4+ cells. Eur. J. Immunol. 25:587-595, 1995
23. **Thyphronitis G***, Katona IM, Gause WC and Finkelman FD. Germline and productive C ϵ gene expression during in vivo IgE responses. J. Immunol. 151: 4128-4136, 1993
24. Mills FC, **Thyphronitis G**, Finkelman FD, and MAX EE. Ig μ - ϵ isotype switch in IL-4 treated human B lymphoblastoid cells: evidence for a sequential switch. J. Immunol. 149: 1075-1085, 1992
25. Anastassiou ED, Yamada, H, Boumpas DT, Tsokos GC, **Thyphronitis G**, Balow J and Mond JJ. Cholera toxin promotes the proliferation of anti-antibody-prestimulated human B cells. Cell. Immunol. 140:237-247, 1992
26. **Thyphronitis G***, Kinoshita T, Inoue K, Schweinle JE, Tsokos GC, Metcalf ES, Finkelman FD, and Balow JE. Modulation of mouse complement receptors 1 and 2 suppresses antibody responses in vivo. J. Immunol. 147: 224-230, 1991
27. **Thyphronitis G***, Max EE, and Finkelman FD. Generation and cloning of stable human IgE-secreting cells that have rearranged the C ϵ gene. J. Immunol. 146:1496-1502, 1991
28. **Thyphronitis G**, Banchereau J, Heusser C, Tsokos GC, Levine AD, and Finkelamn FD. Kinetics of interleukin-4 induction and interferon- γ inhibition of IgE secretion by Epstein-Barr virus-infected human peripheral blood B cells. Cell. Immunol. 133: 408-419, 1991
29. Boumpas DT, Anastassiou ED, Tsokos GC, **Thyphronitis G**, and Balow J.E. Gene transcription during in vitro activation of human B lymphocytes with *Staphylococcus aureus* Cowan I strain. J. Immunol. 145: 2701-2705, 1990
30. Lees A, Morris SC, **Thyphronitis G**, Holmes JM, Inman JK and Finkelman, FD. Rapid stimulation of large specific antibody responses with conjugates of antigen and anti-IgD antibody. J. Immunol. 145: 3594-3600, 1990
31. King CL, **Thyphronitis G**, Nutman TB. Enumeration of IgE secreting B-cells: A filter spot-ELISA. J. Immunol. Meth. 132: 37-43, 1990
32. Kinoshita T, **Thyphronitis G**, Tsokos GC, Finkelman FD, Hong K, Sakai H, and Inoue K. Characterization of murine complement receptor type 2 (CR2) and its immunological cross-reactivity with type 1 (CR1). Int. Immunol. 2: 651-659, 1990
33. Tsokos GC, Kinoshita T, **Thyphronitis G**, Patel AD, Dickler HB and Finkelman FD. Interactions between murine B lymphocyte surface membrane molecules: Loaded but not free receptors for complement and the Fc portion of IgG co-cap independently with cross-linked surface Ig. J. Immunol. 144: 239-243, 1990
34. **Thyphronitis G***, Tsokos GC, June CH, Levine AD and Finkelman, FD. IgE secretion by Epstein-Barr virus-infected purified human B lymphocytes is stimulated by interleukin-4 and suppressed by interferon- γ . Proc. Natl. Acad. Sci. USA 86:5580-5584, 1989
35. Tsokos G, **Thyphronitis, G**, Jack RM, and Finkelman FD. Ligand-loaded but not free complement receptors for C3b co-cap with cross-linked B cell surface IgM and IgD. J. Immunol. 141: 1261-1266, 1988

36. Thyphronitis G, D'Almeida M, Neveu T, and Voisin GA. GPLA antigens are not expressed on guinea pig epididymal spermatozoa. Clin. Exp. Immunol. 54: 687-693, 1984