

## CV OUTLINE

### J.A. IKONOMOPOULOS

#### *Personal Information*

- **Family name:** Ikonomopoulos
- **First names:** John
- **Nationality:** Greek



- **Veterinary Doctor** (BSc, Aristotle University of Thessaloniky, Greece, School of Veterinary Medicine) with specialty in **Veterinary Microbiology** (MSc, Royal Veterinary College, University College London, UK) and **Molecular Microbiology** (PhD National and Kapodestrian University of Athens, Medical School of Athens, and Aristotle University of Thessaloniky, Greece, School of Veterinary Medicine).
- **Associate Professor** (tenure position), Department of Animal Science, Agricultural University of Athens, Greece.

#### *Overview of major achievements*

- **Rector** of the School of Animal Sciences of the Agricultural University of Athens, Greece.
- **President** of the European College of Veterinary Microbiology established within the European Board of Veterinary Specializations (EBVS).
- **Founding Member** of the Hellenic Nanotechnology Society for Health Sciences.
- **Expert of the Research Executive Agency** for the management of EU and Euratom research and innovation programmes.
- **Evaluator** of the European Association for Establishments in Veterinary Education (EAEVE Visitor).
- **Registered inventor** and **owner** of 6 approved European Patent Applications relating to molecular and nanotechnology diagnostics.
- **Coordinator/Scientific Responsible** of 20 competitive international research projects.
- **Author** of more than 70 publications in peer review journals, one book chapter, and one University textbook; total impact factor 168.758; hetero-citations 1256; h-index 20.

## *Curriculum Vitae*

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## **EDUCATION**

- 1987. Undergraduate Studies: Aristotle University of Thessaloniki, School of Veterinary Medicine. Graduation in 1993 with Bachelor's degree (Grade: Very Well - 7).
- 1992. Postgraduate Studies (MSc): University of London, Royal Veterinary College, Dep. Master's in Veterinary Microbiology. Graduation 1993. Dissertation title: "Cloning of overlapping peptide fragments of *Brucella suis*, Heat Shock Protein 62 and their use as antigens in ELISA tests".
- 1992-93. Practical Training: Five-month practical training in Molecular Biology in CVL, (Central Veterinary Laboratory), Surrey U.K.
- 1996. Postgraduate Studies (PhD): 1996: PhD conducted in the Aristotle University of Thessaloniki, School of Veterinary Medicine Department of Microbiology. Dissertation title: "Application of Molecular Biology techniques to the diagnosis and epidemiology study of tuberculosis". Awarded the title "Doctor in Veterinary Medicine", in 1999 (Grade: Excellent).

## **PROFESSIONAL EXPERIENCE**

- 1996-2004: Private Veterinary Surgeon.
- 1997-2004: Scientific Associate in the School of Medicine of the National and Kapodestrian University of Athens.
- 2000-2002: Instructor of Microbiology at the SBIE Public Institute of Professional Training.
- 2002 to this day, member of the Teaching and Research Personnel in the Department of Animal Science of the Agricultural University of Athens, Greece.

## MEMBER OF SCIENTIFIC AND PROFESSIONAL GROUPS

- Member of the Geotechnical Chambers of Greece
- Member of the Hellenic Veterinary Medicine Society
- Member of the Hellenic Veterinary Association
- Member of the Hellenic Zootechnic Society
- Member of the European Mycobacteriology Group
- Member of the Hellenic Nanotechnology Society in Health Sciences
- Member of the European College of Veterinary Microbiology

## AWARDS – RECOGNITION

1. **1<sup>st</sup> Congress Award**, 7<sup>th</sup> Hellenic Medical Congress of Thoracic Diseases, 1997, Thessaloniki, Greece.
2. **2<sup>nd</sup> Congress Award**, 25<sup>th</sup> Hellenic Medical Congress, 1999, Athens, Greece.
3. **1<sup>st</sup> Athens Academy Award** for the publication “Effects of p53 mutants derived from lung carcinoma on the p53 responsive element of the MDM2 gene”, 1999, Athens, Greece.
4. **Invited Speaker** in a Round Table held on the topic “Molecular Biology in Pneumonology”. Presentation title: “Application of Molecular Biology to the diagnosis of lung mycobacterial infections”. 11th Hellenic Medical Congress of Thoracic Diseases, October 2001, Thessaloniky, Greece.
5. **1st Congress Award**. 9<sup>th</sup> Hellenic Veterinary Congress, 2002, Thessaloniki, Greece.
6. **Award for the most innovative study**, 2<sup>nd</sup> Hellenic Congress of Inflammatory Bowel Disease, 2003, Athens, Greece.
7. **2<sup>nd</sup> Award** for the best oral presentation, 24<sup>th</sup> Hellenic Congress of Gastroenterology, 2004, Athens, Greece.
8. **Best poster**, 12th World Congress of the International Society for Animal Health, 2007, Poland.
9. **Chair of the Scientific Committee** of the European Congress organized within the frame of the EU-funded activity “Veterinary Network of Laboratories Researching into Improved Diagnosis and Epidemiology of Mycobacterial Diseases”, in Athens, May 2007.
10. **External member** of the ISOGEN Committee (International Society for Genomic and Evolutionary Microbiology) for the nomination of the awardees of the Pasteur

- Veterinary Award 2008.
11. **Invited speaker** to a Round Table, 2nd Hellenic Congress “Modern Dietary Challenges for the Safety and Quality of Food”, 6-8 June 2008, Thessaloniky, Greece.
  12. **External evaluator** of research proposals submitted under the Framework Programme for Research, Technological Development and Innovation 2009-10, to the Research Promotion Foundation of the Democracy of Cyprus.
  13. **External evaluator** of proposals submitted under the Framework Programme for Research, Technological Development and Innovation 2009-2010 (DESMI 2009-2010); University Grants Committee Secretariat 2012, Hong Kong, China.
  14. **External evaluator** for The National Agency for the Evaluation of Universities and Research Institutes (ANVUR) 2004-2010 of Italian universities and research institutes.
  15. **External evaluator** of research proposals submitted to the Portuguese Foundation for Science and Technology, in year 2012.
  16. **External evaluator** of research proposals submitted to the Czech-Norwegian Research Programme (CZ09), in year 2014.
  17. **Chair of the Organizing and Scientific Committee** of the Conference titled “Biosafety of Food of Animal Origin Aimed for Consumption by Children in Greece” held in collaboration with the Greek Gastroenterology Foundation and the Hellenic Veterinary Medicine Society during the 12<sup>th</sup> Hellenic Veterinary Congress, in Athens, Greece, on April 2012.
  18. **Invited speaker** in round table, 12<sup>th</sup> Hellenic Veterinary Medicine Congress “Current health topics concerning the small ruminant industry in Greece”, Athens, April 2012.
  19. **Member of the Editorial Board** of Journal of Infectious Diseases and Immunity.
  20. **Member of the Editorial Board** of the Journal “Mycobacterial Diseases”.
  21. **Member of the Editorial Advisory Board** of “The Open Biomarkers Journal”.
  22. **Expert of the Research Executive Agency** for the management of EU and Euratom research and innovation programmes, from year 2016.
  23. **Founding Member** of the Hellenic Nanotechnology Society in Health Sciences (2016).
  24. **Technical expert/Assessor** of the Hellenic System of Accreditation for the quality standard ISO17025, from year 2017.
  25. **President of the European College of Veterinary Microbiology** that functions under the auspices of the European Board of Veterinary Specialisation, for the period 2016-21.
  26. **Invited speaker** by the Centre of Biological Research of the Hellenic Armed Forces (2017, Title of speech: The context of zoonosis after Koch’s postulates).
  27. **Invited Speaker** at the 33rd Scientific Conference of the Hellenic Zootechnic Society (Preveza, Greece, October 2018).

28. **Invited lecturer** by the Department of Excellence of the Italian Ministry of Education to the School of Veterinary Medicine of the University Aldo Moro, Bari Italy (2019, Subject: Animal Health and Zoonoses).
29. **Invited speaker** at the 73<sup>rd</sup> National Conference of the Italian Society of Veterinary Sciences, on “The nanotechnology approach to microbial detection and identification” (June 19-22 2019, Sardinia, Italy).
30. **Rector** of the School of Animal Biosciences of the Agricultural University of Athens, Greece, for the period 2019-2022.
31. **Chair** of the opening session of the 34<sup>th</sup> Scientific Conference of the Hellenic Zootechnic Society (Volos, Greece, October 2019).
32. **Evaluator** of the European Association for Establishments in Veterinary Education (EAEVE Visitor), from year 2019.
33. **Invited speaker** at the 16<sup>th</sup> International Congress of the Montenegro Veterinary Hospital - XVI CONGRESSO INTERNATIONAL HOSPITAL VETERINARIO MONTENEGRO (Oporto, Portugal, February 2020).

## PATENTS

1. Designated Inventor of a granted National (No. 20030100421) and International patent (PCT/GR2004/000051) for a one-tube nested PCR assay designed for the detection of *Mycovacterium avium* subsp *paratuberculosis*.
2. Designated Inventor of a patent submitted to the European Patent Office (6/3/2009 EP 09003292.1.) with the title "PARATUBERCULOSIS SUSCEPTIBILITY TEST" that refers to the sequencing of the caprine NRAMP1 gene (Accession EU283410).
3. Designated Inventor of a patent submitted to the European Patent Office (18/9/2009 EP090032.1-1223) with the title “Mycobacterial detection” that refers to the application of gold nanoparticles for the detection of mycobacterial pathogens.
4. Designated Owner of a patent submitted to the European Patent Office (30/9/2010 EP100112370) under the title “Mycobacterial detection” that refers to the application of cadmium selenide quantum dots for the detection of mycobacterial peptides.
5. Designated Inventor of a patent submitted to the European Patent Office (17/2/2012 EP12001085.5) under the title “DETECTION OF MYCOBACTERIAL PROTEIN TARGETS USING QUANTUM DOTS (QDs) AND IMMUNOMAGNETIC SEPERATION”.
6. Designated Inventor of a patent submitted to the European Patent Office

(23/2/2012 EP 12001210.9) under the title “NANOPARTICLE APPLICATION FOR THE DETECTION OF PROTOZOAN PATHOGEN DNA”.

## **REGISTRATION OF GENES**

- 1<sup>st</sup> registration of the nucleotide sequence of the *Nramp1* (natural resistance associated macrophage protein 1) gene of goats (*Capra hircus*), partial cds. Liandris E., Gazouli M., and Ikonomopoulos I., 15/11/2007 Accession EU283410.
- 1<sup>st</sup> registration of the full nucleotide sequence of the 3' UTR of the *Nramp1* (natural resistance associated macrophage protein 1) gene of goats (*Capra hircus*), (GenBank accession number JF431430).

## **COORDINATOR OF RESEARCH PROJECTS**

1. 1997, FA-ST 8241, Improvement of *Salmonella* control in animal feeds based on the molecular and biochemical analysis of the product. Exploratory Award, Duration 12 months. Total budget 72,000 ecu.
2. 1997, 96SYN139, Rapid diagnosis of human tuberculosis. Duration 12 months. Total budget 9,200,000 drachmas.
3. 1999, QLRT-1999-30928, Improvement of Prevention Diagnosis and Treatment of sarcoidosis and Crohn's disease. Duration 42 months. Total budget 3,000,000 euro.
4. 2003, Activity Various Studies, the Laboratory of Anatomy Physiology of ASA was registered in the thematic areas Life Sciences – Agrofoods and “Life Sciences – Biotechnology”.
5. 2007, LSHB-CT-2007-036812, Multiparametric detection of bio-molecule conjugated nanoparticles for the diagnostic investigation of mycobacterial infections of humans and animals. Duration 36 months. Total budget 3,200,000 euro.
6. 2009, EL067, Assessment of the biosafety of child food of animal origin in Greece. Duration 36 months. Total budget 440,000 euro.
7. On going from 2010, Molecular Diagnostic Services (project registered to the AUA Research Secretariat aiming at providing diagnostic services to the public). Estimated total outflows 65,000 euro.

## **PARTICIPATION AS SCIENTIFIC RESPONSIBLE IN NATIONAL AND INTERNATIONAL RESEARCH PROJECTS**

1. 1999, EXAW-1999-01447, Production of DNA Grid-based molecular kit for the detection and identification of pathogenic and non-pathogenic bacteria in food. Duration 12 months (Exploratory award). Total Budget 45,000 euro.
2. 1999, QLRT-1999-00226, Validation and standardization of diagnostic Polymerase Chain Reaction (PCR) for detection of food borne pathogens (FOOD-PCR). Duration 36 months. Total budget 2,000,000 euro.
3. 2001, QLK3-CT-2001-70482, Biomolecular image processing tool (BIO-IMAGE). Duration 24 months. Total budget 1,600,000 euro.
4. 2004, (COST) SSPE-CT-2004-501903, Veterinary Network of Laboratories Researching into Improved Diagnosis and Epidemiology of Mycobacterial Diseases. Duration 4 years.
5. 2013, Investigation to determine positive and negative predictive value of PCR for the detection of *Leishmania* spp. in the cat. Conducted in collaboration with the School of Health Sciences of the University of Thessaly, Department of Veterinary Medicine. Amount allocated to the applicant's team, 5,000 euro.
6. 2014, Investigation to determine positive and negative predictive value of PCR for the detection of *Leishmania* spp. in the dog. Conducted in collaboration with the School of Health Sciences of the University of Thessaly, Department of Veterinary Medicine. Amount allocated to the applicant's team, 5,000 euro.
7. 2014: Vaccine-based control of paratuberculosis. Conducted in collaboration with the School of Health Sciences of the University of Thessaly, Department of Veterinary Medicine within the context of the programme "Research Excellence" (Aristeia). Total budget 160,000 euro, amount allocated to the applicant's team, 43,000 euro.



## **PARTICIPANT IN NATIONAL AND INTERNATIONAL RESEARCH PROJECTS**

1. 1999, HC1025, Development of 3D models from histological sections. Duration 36 months. Total budget 2,000,000 euro.
2. 1999, CT98-4373: Concerted action for the setting up of a European Veterinary network on diagnosis research and epidemiology of mycobacterial diseases. Duration 36 months. Total budget 504,000 euro.
3. 2001, BG/IB/2001-AG-03 Improving Veterinary Care, Transfer of know-how to Bulgaria for the incorporation of molecular detection of mycobacteria to Veterinary Practice.
4. 2019, 2018ΣΕ0130000000 The Routes of Bee. Duration 24 months. Total budget 1,360,784 euro, amount dedicated to the applicant's team 70,000 euro.
5. 2019, (COST: ENOVAT, CA18217) European Network for Optimization of Veterinary Antimicrobial Treatment.
6. 2019, (DISARM) Disseminating Innovation Solutions for Antibiotic Resistance Management". Duration 36 months. Total budget 2,000,000 euro.

## SELECTED PUBLICATIONS

- Multiplex PCR assay for the detection of Mycobacterial DNA directly from sputum. Ikonomopoulos JA, Gorgoulis V, Zacharatos P, Kotsinas A, Tsoli E, Karameris A, Panagou P, Kittas C. *In Vivo* 1998, 12(5): 547-551.
- Multiplex PCR assay for the detection of mycobacterial DNA sequences in cases with clinicopathological evidence of tuberculosis and sarcoidosis. Ikonomopoulos JA, Gorgoulis V, Zacharatos P, Kanavaros P, Rassidakis A, Kittas C. *Modern Pathology* 1999, 12(9): 854-862.
- Effects of p53 mutants from lung carcinomas on the p53 responsive element (p 53RE) of the MDM2 gene. Gorgoulis VG, Zacharatos PV, Manolis E, Ikonomoulos JA, Halazonetis TD, Kittas C. *British Journal of Cancer* 1998, 77(3): 374-384.
- Fever and abdominal pain in a 45-year-old woman with cutaneous necrotising vasculitis. Voulgarelis M, Chorti M, Kittas C, Karachristos A, Ikonomopoulos JA, Scopouli FN. *Clinical and Experimental Rheumatology* 1998, 16(1): 72-76.
- Human Papilloma Virus (HPV) is possibly involved in laryngeal but not in lung carcinogenesis. Gorgoulis V, Zacharatos P, Kotsinas A, Rassidakis A, Ikonomopoulos JA, Kanavaros P, Barbatis C, Herrington CS, Kittas C. *Human Pathology* 1999, 30(3): 274-283.
- Experimental Inoculation of Laboratory Animals with Samples Collected from Sarcoidal Patients and Molecular Diagnostic Evaluation of the Results. Ikonomopoulos JA, Gorgoulis VG, Kastrinakis NG, Galanos AA, Karameris A, Kittas C. *In Vivo* 2000, 14(6): 761-765.
- Deregulated expression of c-mos, in non-small-cell lung carcinomas. Relationship with p-53 status, tumor kinetics, and chromosomal instability. Gorgoulis V, Zacharatos P, Mariatos G, Liloglou T, Kokotas S, Kastrinakis N, Kotsinas A, Athanasiou A, Zoumpourlis V, Ikonomopoulos J, Asimakopoulos P, Kittas C. *Cancer Research* 2001, 61(2): 538-549.
- Assessment of mycobacterial, propionibacterial, and human herpesvirus 8 DNA in tissues of Greek patients with sarcoidosis. Gazouli M, Ikonomopoulos J, Trigidou R, Foteinou M, Kittas C, Gorgoulis V. *Journal of Clinical Microbiology* 2002, 40(8): 3060-3063.
- Molecular diagnosis of leishmaniosis in dogs. Comparative application of the traditional diagnostic methods and the proposed assay on clinical samples. Ikonomopoulos J, Kokotas S, Gazouli M, Zavras A, Stoitsiou M, Gorgoulis V. *Veterinary Parasitology* 2003, 113(2): 99-113.
- The C3435T *MDR1* Gene Polymorphism is not associated with susceptibility for Ulcerative Colitis in a Greek Population. Gazouli M, Zacharatos P, Mantzaris G, Ikonomopoulos J, Gorgoulis V. *Gastroenterology* 2004, 126(1 suppl. 1): 367-369.
- Comparative evaluation of PCR assays for the robust molecular detection of *Mycobacterium avium* subsp. *paratuberculosis*. Ikonomopoulos J, Gazouli M, Zacharatos P, Xylouri E, Gorgoulis V. *Journal of Microbiological Methods* 2004, 56(3): 315-321.
- Unexpected detection of DNA by nucleic acid sequence-based amplification technique. Rodriguez-Lazaro D, Lloyd J, Ikonomopoulos J, Pla M, Cook N. *Molecular and Cellular Probes* 2004, 18(4): 251-253.
- A molecular beacon-based real time NASBA assay for *Mycobacterium avium* subsp. *paratuberculosis*. Rodriguez-Lazaro D, Lloyd J, Herreweg A, Ikonomopoulos J, D'Agostino M, Pla M, Cook N. *FEMS Microbiology Letters* 2004, 237(1): 119-126.

- Association of NOD2/CARD15 variants with Crohn's disease in a Greek population. Gazouli M, Zacharatos P, Mantzaris G, Barbatis C, Ikonomopoulos J, Archimandritis A, Lukas J, Papalambros E, Gorgoulis V. *European Journal of Gastroenterology and Hepatology* 2004, 16(11): 1177-1182.
- Real-time PCR-based methods for detection of *Mycobacterium avium* subsp. *paratuberculosis* in water and milk. Rodríguez-Lázaro D, D'Agostino M, Herrewegh A, Pla M, Cook N, Ikonomopoulos J. *International Journal of Food Microbiology* 2005, 101(1): 93-104.
- Characterisation of *Mycobacterium tuberculosis* complex isolates from Greek patients with sarcoidosis by spoligotyping. Gazouli M, Ikonomopoulos J, Koundourakis A, Bartos M, Pavlik I, Overduin P, Kremer K, Gorgoulis V, Kittas C. *Journal of Clinical Microbiology* 2005, 43(9): 4858-4861.
- Detection of *Mycobacterium avium* subsp. *paratuberculosis* in retail cheeses from Greece and the Czech Republic. Ikonomopoulos J, Pavlik I, Bartos M, Svastova P, Ayele WY, Roubal P, Loukas J, Cook N, Gazouli M. *Applied and Environmental Microbiology* 2005, 71(12): 8934-8936.
- *Mycobacterium avium* subsp. *paratuberculosis*, Genetic Susceptibility to Crohn's Disease, and Sardinians: the Way Ahead. Sechi L, Gazouli M, Ikonomopoulos J, Lukas JC, Scanu AM, Ahmed N, Fadda G, Zanetti S. *Journal of Clinical Microbiology* 2005, 43(10): 5275-5277.
- Association between polymorphisms in the Toll-like receptor 4, CD14, and CARD15/NOD2 and inflammatory bowel disease in the Greek population. Gazouli M, Mantzaris G, Kotsinas A, Zacharatos P, Papalambros E, Archimandritis A, Ikonomopoulos J, Gorgoulis VG. *World Journal of Gastroenterology* 2005, 11(5): 681-685.
- Outbreak of acute tuberculosis in a goat herd; First case of *Mycobacterium caprae* isolation in Greece. Ikonomopoulos J, Aranaz A, Balaskas C, Sechi L, Gazouli M. *Online Journal of Veterinary Research* 2006, 10(2): 108-115.
- Relationship between Crohn's Disease infection with *Mycobacterium avium* subsp. *paratuberculosis* and SLC11A1 gene polymorphisms in Sardinian patients. Sechi L, Gazouli M, Sieswerda L, Molicotti P, Ahmed N, Ikonomopoulos J, Scanu A, Pagnini D, Zanetti S. *World Journal of Gastroenterology* 2006, 12(44): 7161-7164.
- The infectivity of sarcoid clinical material and its bacterial content inoculated in CBA mice. Ikonomopoulos J, Gazouli M, Dontas I, Sechi L, Lukas J, Balaskas C, Gorgoulis V, Kittas C. *In vivo* 2006, 20(6b): 807-814.
- Comparative evaluation of positive tests to *Mycobacterium avium* subsp. *paratuberculosis* in clinically healthy sheep and goats of South -West Greece using molecular techniques, serology, and culture. Ikonomopoulos J, Balaskas C, Kantzoura B, Fragiadaki E, Pavlik I, Bartos M, Lukas J, Gazouli M. *The Veterinary Journal* 2007, 174(2): 337-343.
- The functional polymorphisms of NRAMP1 gene in Greeks with sarcoidosis. Gazouli M, Koundourakis A, Ikonomopoulos J, Gialafos JE, Papaconstantinou I, Lukas JC, Vassilis G, Kittas C. *Sarcoidosis Vasculitis and Diffuse Lung Diseases* 2007, 24(2): 153-154.
- Estimation of the spread of pathogenic mycobacteria in organic broiler farms by the polymerase chain reaction. Ikonomopoulos J, Fragiadaki E, Liandris E, Sotirakoglou K, Xylouri E, Gazouli M. *Veterinary Microbiology* 2009, 133(3): 278-282.
- Associations between abortion-records in goats and test-positivity to *Mycobacterium avium* subsp. *paratuberculosis*. Ikonomopoulos J, Liandris E, Andreadou M, Gazouli M. *The Open Veterinary Science Journal* 2009, 3: 1-5.

- Direct detection of unamplified DNA from pathogenic mycobacteria using DNA-derivatized gold nanoparticles. Liandris E, Gazouli M, Andreadou M, Comor M, Abazovic N, Sechi L, Ikonomopoulos J. *Journal of Microbiological Methods* 2009, 78(3): 260-264.
- Linking Chronic Infection and Autoimmune Diseases: *Mycobacterium avium* subspecies paratuberculosis, SLC11A1 Polymorphisms and Type-1 Diabetes Mellitus. Paccagnini D, Sieswarda L, Rosu V, Masala S, Pacifico A, Gazouli M, Ikonomopoulos J, Ahmed N, Zanetti S, Sechi L. *PloS One* 2009, 4(9): e7109.
- Development and characterisation of oligonucleotide-tagged dye-encapsulating EPC / DPPG liposomes. Mourelatou EA, Spyratou E, Georgopoulos A, Makropoulou M, Liandris E, Gazouli M, Ikonomopoulos J, Demetzos K. *Journal of Nanoscience and Nanotechnology* 2010, 10(9): 5548-5556.
- Investigation for the association of the SLC11A1 gene with resistance/sensitivity of goats (*Capra hircus*) to paratuberculosis. Korou LM, Liandris E, Gazouli M, Ikonomopoulos J. *Veterinary Microbiology* 2010, 144(3-4): 353-358.
- Specific Detection of Unamplified Mycobacterial DNA Using Fluorescent Semiconductor Quantum Dots and Magnetic Beads. Gazouli M, Liandris E, Andreadou M, Sechi LA, Masala S, Paccagnini D, Ikonomopoulos J. *Journal of Clinical Microbiology* 2010, 48(8): 2830-2835.
- Detection of Pathogenic Mycobacteria Based on Functionalized Quantum Dots Coupled with Immunomagnetic Separation. Liandris E, Gazouli M, Andreadou M, Sechi LA, Rosu V, Ikonomopoulos J. *PLoS One* 2011, 6(5): e20026.
- Associations between Single Nucleotide Polymorphisms of GDF9 and BMP15 genes and litter size in two dairy sheep breeds of Greece. Liandris E, Kominakis A, Andreadou M, Kapeoldassi K, Chadio S, Tsiligiannis Th, Gazouli M, Ikonomopoulos J. *Small Ruminant Research* 2012, 107(1): 16-21.
- Nanotechnology-based diagnostics; Are we facing the Biotechnology revolution of the 21<sup>st</sup> century? Ikonomopoulos J. *Mycobacterial Diseases*, (2011), 1(1): e102.
- Evaluation of the performance of selected in-house and commercially available PCR and RT-PCR assays for the detection of *Leishmania* DNA in clinical samples. Andreadou M, Liandris E, Kasampalidis IN, Taka S, Antoniou M, Ntais P, Vaiopoulou A, Theodoropoulos G, Gazouli M, Ikonomopoulos J. *Experimental Parasitology* 2012, 131(4): 419-424.
- Reliable Application of PCR: An Elusive Pathway. Ikonomopoulos J. *Mycobacterial Diseases* 2012, 2: e117.
- In vitro expression of the SLC11A1 gene in goat monocyte derived macrophages challenged with *Mycobacterium avium* subsp *paratuberculosis*. Taka S, Liandris E, Gazouli M, Sotirakoglou K, Theodoropoulos G, Bountouri M, Andreadou M, Ikonomopoulos J. *Infection Genetics and Evolution* 2013, 17: 8-15.
- A novel non-amplification assay for the detection of *Leishmania* spp., in clinical samples. Andreadou M, Liandris E, Gazouli M, Taks S, Antoniou M, Theodoropoulos G, Tachtsidis I, Goutas N, Vlachodimitropoulos D, Kasampalidis I, Ikonomopoulos I. *Journal of Microbiological Methods* 2014, 96(1): 56-61.
- Evaluation of the microbial safety of child food of animal origin in Greece. Liandris E, Gazouli M, Taka S, Andreadou M, Vaiopoulou A, Tzimotoudis N, Kasampalidis I, Mpaseas D, Fyliousis G, Poltrionieri P, Cook N, Ikonomopoulos J. *Journal of Food Science* 2014, 79(3): M362-368.

- Evaluation of indirect immunofluorescence antibody test and enzyme-linked immunosorbent assay for the diagnosis of infection by *Leishmania infantum* in clinically normal and sick cats. Chatzis MK, Leontides L, Athanasiou LV, Papadopoulos E, Kasabalis D, Mylonakis M, Rallis T, Koutinas AF, Andreadou M, Ikonomopoulos J, Saridomichelakis MN. *Experimental Parasitology* 2014, 147: 54-59.
- Quantum dots-bevacizumab complexes for in vivo imaging of tumors. Gazouli M, Bouziotis P, Lyberopoulou A, Ikonomopoulos J, Papalois A, Anagnou NP, Eftathopoulos EP. *In Vivo* 2014, 28(6): 1091-1096.
- Functional analysis of 3'UTR polymorphisms in the caprine *SLC11A1* gene and its association with the *Mycobacterium avium* subsp. *paratuberculosis* infection. Taka S, Gazouli M, Sotirakoglou K, Liandris E, Andreadou M, Triantaphyllopoulos K, Ikonomopoulos J. *Veterinary Immunology and Immunopathology* 2015, 167(1-2): 75-79.
- Detection of mycobacterial DNA by a specific and simple lateral flow assay incorporating cadmium selenide quantum dots. Cimaglia F, Liandris E, Gazouli M, Sechi L, Chiesa M, De Lorenzis E, Andreadou M, Styliani T, Mataragka A, Ikonomopoulos J. *Molecular and Cellular Probes* 2015, 29(6): 534-536.
- Detection of *Leishmania*-specific DNA and surface antigens using a combination of functionalized magnetic beads and cadmium selenite quantum dots. Andreadou M, Liandris E, Gazouli M, Mataragka A, Tachtsidis I, Goutas N, Vlachodimitropoulos D, Ikonomopoulos J. *Journal of Microbiological Methods* 2016, 123: 62-67.
- Validation of a Loop-Mediated Amplification/ISO 6570-Based Method for Analysing Soya Meal for the Presence of *Salmonella enterica*. D'Agostino M, Robles S, Hansen F, Ntafis V, Ikonomopoulos J, Kokkinos P, Alvarez-Ordóñez A, Jordan K, Delibato E, Kukier E, Sieradzki Z, Kwiatek K, Milanov D, Petrović T, Gonzalez-Garcia P, Lazaro DR, Jackson EE, Forsythe SJ, O'Brien L, Cook N. *Food Analytical Methods* 2016, 9(11): 2979-2985.
- Epigenetics and inheritance of phenotype variation in livestock. Triantaphyllopoulos K, Ikonomopoulos I, Bannister A. *Epigenetics and Chromatin* 2016, 9(1): 31.
- Interaction between veterinary medicine and nanotechnology; the present and the near future: A Review. Ikonomopoulos J. *International Journal of Environmental and Agriculture Research* 2016, 2(9): 66-71.
- Detection of *Mycobacterium avium* subsp. *paratuberculosis* in cheeses from small ruminants in Tuscany. Galiero A, Fratini F, Mataragka A, Turchi B, Nuvoloni R, Ikonomopoulos J, Cerri D. *International Journal of Food Microbiology* 2016, 217: 195-199.
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