
Curriculum Vitae

Personal information

Name: Eleni Douni
 Gender: Female
 Place of birth: Athens
 Citizenship: Greek

Education and degrees awarded

1992-1998 Ph.D. in Molecular Genetics. Thesis on “Studying the gene expression and biological role of Tumor Necrosis Factor (TNF) and its receptor p75 in transgenic mice”. Department of Biology, University of Athens, & Department of Molecular Genetics-Hellenic Pasteur Institute, Athens, Greece
 1987-1991 Bachelor’s degree in Biology, Department of Biology (First Class Honours), University of Athens, Greece

Current position

Academic position: Associate Professor in Animal Biotechnology
 Laboratory of Genetics
 Department of Biotechnology
 Agricultural University of Athens
 75 Iera Odos, 11855, Athens Greece
 e-mail: douni@aua.gr; Tel. +30 210 5294372

Affiliation: Associate Researcher, Division of Immunology,
 Biomedical Sciences Research Center ‘Alexander Fleming’
 34 Fleming, Vari, 16672, Athens, Greece.
 e-mail: douni@fleming.gr, Tel: +30 210 9656310 ext. 150

Previous work experience

1998-2000 Post Doctoral Research Associate, Molecular Genetics Laboratory, Hellenic Pasteur Institute, Athens Greece
 2000-2001 Post Doctoral Research Associate, Institute of Immunology, B.S.R.C. ‘Al. Fleming’
 2001-2005 Staff Research Scientist - Assistant Professor Level, Institute of Immunology, B.S.R.C. ‘Al. Fleming’
 2005-2006 Staff Research Scientist – Associate Professor Level, Institute of Immunology, B.S.R.C. ‘Al. Fleming’
 2006-2011 Researcher - Assistant Professor Level at the Institute of Immunology, B.S.R.C. ‘Al. Fleming’
 2012-today Associate Researcher, Division of Immunology, B.S.R.C. ‘Al. Fleming’
 2012-2017 Assistant Professor, Laboratory of Genetics, Department of Biotechnology, AUA
 2017-today Associate Professor, Laboratory of Genetics, Department of Biotechnology, AUA

Honors, awards, fellowships

1987-1991 Undergraduate fellowships, State Scholarship for Excellence (IKY), Greek Ministry of Education
 1993-1996 Ph.D. Fellowship, Bodosaki Foundation
 1998-2000 Postgraduate fellowship, Molecular Genetics Laboratory, Hellenic Pasteur Institute, Athens Greece

2008-2010	National representative participating in FELASA (Federation of European Laboratory Animal Science Associations) working group for “refinement of methods for genotyping of genetically modified rodents”, 2008-2010 (www.felasa.eu/workinggroups)
2010	Award for the study “A novel genetic model of osteoporosis by overexpression of human RANKL in transgenic mice” presented by Niti A, Dacquin R, Rinotas V, Jurdic P, Douni E, at the 24 th International Mammalian Genome Conference, Heraklion 17-20 October 2010.
2010	John S. Latsis Public Benefit Foundation, Research project awarded for the Year 2010
2013	Award for the oral presentation “Novel osteoporosis models by overexpressing human RANKL in transgenic mice” by Rinotas V, Papadaki M, Dacquin R, Bonnet N, Jurdic P, Ferrari S, Douni E, at the 64 th Congress of the Hellenic Society of Biochemistry and Molecular Biology, 6-8 December 2013.
2014	Hellenic Ministry of Education, GSRT, grant "ARISTEIA II"
2017	Co-Founder and Executive Board of the International Bone Marrow Adiposity Society (2017-2020) (http://bma-society.org/)
2018	Member of the "Basic Science Practice Action Group, Policies & Consensus Committee" assigned by the European Calcified Tissue Society (http://ectsoc.org/about-ects/policies-consensus-committee)
2018	Award in recognition of an excellent research contribution. 7th International Conference on Osteoimmunology "Interactions of the Immune and Skeletal Systems", 3-8 June 2018, Chania.

Areas of Research Interests

- Functional Genetics for the identification of novel disease targets in mammals
- Study of the pathogenic role of mitochondrial proteins SLC25A46 and DnaJC11 in neurodegenerative diseases
- Analysis of the pathophysiological role of RANKL in osteoporosis, bone marrow adiposity and breast cancer using transgenic mice overexpressing human RANKL
- Development and biochemical characterization of novel RANKL inhibitors, evaluation in cellular assays and in our proprietary transgenic mouse model of RANKL-mediated osteoporosis

Technical Expertise

- Generation and characterization of transgenic and knockout mice
- ENU mutagenesis and screening of novel phenotypes
- Genome- wide genetic analysis using polymorphic markers (SNPs & SSLPs).
- Advanced Molecular Biology practices
- Biochemistry, immunoprecipitation, production of recombinant proteins
- Mitochondria isolation and analysis
- Immunological assays
- Histopathological analysis of mouse tissues including CNS
- Tissue culture practices: Stable and transient transfection of immortalized cell lines; isolation and culture of primary cells
- Proteomic analysis

Research funding

Agency/No: Hellenic Ministry for Development – ΕΠΑΝ 340

- Duration:* 2005-2008
Type: Excellence in the Research Institutes
Title: **Research infrastructures of the Institute of Immunology of the BSRC Fleming**
Role: Co-Investigator
- Agency/No:* Hellenic Ministry for Development – 04AKMON72
Duration: 2005-2008
Type: AKMON (PI: Dr G. Kollias)
Title: **Enhancement of services in transgenesis, on disease models and macromolecular analysis from laboratories of the BSRC Fleming**
Role: Co-Investigator
- Agency/No:* European Commission NoE – LSHG-CT-2005-005203
Duration: 2005-2009
Type: Network of Excellence (24 participating labs, PI: Dr G. Kollias)
Title: **Integrated functional genomics in mutant mouse models as tools to investigate the complexity of human immunological disease (MUGEN)**
Role: Co-Investigator
- Agency/No:* John S. Latsis Foundation *Duration:* 2010
Type: Research project awarded for the Year 2010
Title: **Generation and analysis of a novel genetic model of osteoporosis in transgenic mice overexpressing human RANKL**
Role: Coordinator
- Agency/No:* Hellenic Ministry of Education *Duration:* 2011-2014
Type: National action “Cooperation” (6 part. institutions, PI: Dr G. Kollias)
Title: **From Targets to Leads: Innovative therapeutics for arthritis**
Role: Co-Investigator
- Agency/No:* AMGEN, USA *Duration:* 2012-2013
Type: Funded research protocol (3 participating institutions, PI: E. Douni)
Title: **Rescue of modeled osteoporosis with administration of anti-RANKL therapies in transgenic mice overexpressing human RANKL**
Role: Coordinator
- Agency/No:* Hellenic Ministry of Education *Duration:* 2012-2015
Type: “Thalis” grant (8 participating institutions, PI: Prof. S. Zaoutsos)
Title: **Nanostructured geopolymers and calcium phosphate based biocements and implants**
Role: Co-Investigator
- Agency/No:* Hellenic Ministry of Education *Duration:* 2012-2015
Type: “Thalis” grant (7 participating institutions, PI: Prof. A. Plaitakis)
Title: **Mitochondrial Dysfunction in Neurodegenerative Disorders**
Role: Co-Investigator
- Agency/No:* European Commission *Duration:* 2012-2016
Type: ITN grant (11 participating institutions, PI: Prof. T. Kamradt)
Title: **OSTEOIMMUNE – Unraveling the Interactions between the Immune System and Bone**
Role: Co-Investigator

Agency/No: GSRT, Hellenic Ministry of Education *Duration:* 2014-2015
 Type: ARISTEIA II grant (Excellence)
 Title: **DnaJmito – Role of DNAJC in mitochondrial cristae structure and modeled neuromuscular disease**
 Role: Coordinator

Agency/No: GSRT, Hellenic Ministry of Education *Duration:* 2018-2021
 Type: RESEARCH – CREATE – INNOVATE grant
 Title: **Development of an innovative mouse model of RANKL-induced breast cancer and integration of cutting-edge technologies for the establishment of a preclinical platform for drug evaluation**
 Role: Coordinator

Merits in teaching

2006-today Animal Biotechnology (undergraduate students, 7th sem., AUA)
 2012-today Genetics (undergraduate students, 3rd semester, AUA)
 2015-2019 Genetics of Model Organisms (undergraduate students, 8th semester)
 2016-today Immunology (undergraduate students, 6th sem., AUA)

2001-2009 Invited lecturer at the post graduate Master course program "Methodology of Research in Basic Medical Sciences", Medical School, University of Patras
 2009-2018 Invited lecturer at the post graduate Master course program "Applied Physiology", Medical School, University of Athens
 2010-2015 Invited lecturer at the post graduate Master course program "Introduction of Research Methodology", Medical School, University of Athens
 2012-2014 Lecturer at the post graduate Master course program "Biotechnology and Applications in Agricultural Sciences", Department of Agricultural Biotechnology, AUA
 2014-2018 Lecturer at the post graduate Master course program "System Biology", Department of Agricultural Biotechnology, AUA
 2015-2018 Invited lecturer at the post graduate Master course program "Current topics in Biosciences", Department of Biology, Aristotle University of Thessaloniki
 2016-2018 Invited lecturer at the post graduate Master course program "Molecular Biomedicine", Medical School, University of Athens in collaboration with B.S.R.C. "Al. Fleming"

Supervision

- Diploma thesis supervision of 27 undergraduate students from the Department of Biotechnology, AUA
- Supervisor of 7 Master Theses
- Supervisor of 8 Ph.D. Theses, 6 completed (Vagelis Rinotas/2014, Fotis Ioakeimidis/2014, Alexandra Niti/2015, Maria-Eirini Terzenidou/2017, Maria Papadaki/2019, Foteini Violitzi/2019) and 2 in progress (Anthi Kolokotroni, Vassiliki-Iris Perivolidi)

List of Undergraduate Theses

- Fotis Ioakeimidis, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Studying the role of the cytoplasmic region of Tumor Necrosis Factor (TNF) in transgenic mice", 3-11/2008.

- Alexandros Karakostas, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Genetic analysis of a new mouse model of ataxia", 3-11/2008.
- Toshimi Kano, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Studying the expression of SLC25 in a mouse model of recessive neurological disease", 3-11/2012.
- Foteini Violitzi, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Inhibition of trimerization of BAFF through directed mutagenesis", 2-9/2012.
- Marios-Evangelos Boyongo, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Study of DNAJC11 protein interactions", 3-11/2014.
- Niki Chalkidi, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Evaluation of small molecule inhibitors of RANKL in cell assays" 3-11/2014.
- Theodora Manolakou, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Inactivation of the DnaJC11 gene with CRISPR/CAS9 in a cell line», 3-9/2016.
- Anastasia Rigou, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Characterization of DnaJC11-FLAG transgenic mice", 3-9/2016.
- Emmanouil Siniorakis, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Study of bone marrow adipogenesis in transgenic models of osteoporosis", 3-10/2016.
- Cristina Fracassi, Department of Biosciences and Biotechnology, University of Camerino, Italy, title of undergraduate thesis: "Approaches for analysis of Bone Marrow Adiposity in a mouse model of osteoporosis", 3-6/2016.
- Vassilios Bakogiannis, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Effect of Tumor Necrosis Factor (TNF) deletion in TgRANKL transgenic models of osteoporosis", 11/2016 -7/2017.
- Vassiliki-Iris Perivolidi, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Detection of DNAJC11 protein interactions in transgenic DNAJC11-FLAG mice", 3-8/2017.
- Efthimios Tzortzis, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Study of bone marrow adipogenesis mechanisms in the transgenic osteoporosis model Tg5519", 2-12/2017.
- Panagiota Siatra, Department of Biotechnology, Agricultural University of Athens, title of undergraduate thesis: "Study of bone marrow adipogenesis formation in the transgenic osteoporosis model Tg5516", 4-12/2017.
- Antigone Kontou, Department of Biosciences and Biotechnology, University of Camerino, Italy, title of undergraduate thesis: "Differentiation potential of mesenchymal stromal cells in TgRANKL mouse models of osteoporosis", 1-6/2017.

MSc students' supervision

- Alexandra Niti, Medical School, University of Athens, MSc program "Metabolic Bone Diseases", title of MSc thesis: "Studying the overexpression of RANKL in transgenic mice: Development of a novel osteoporosis model", 2-10/2009.

- Alexandros Karakostas, Department of Biotechnology, Agricultural University of Athens, MSc program "Biotechnology and applications in Agriculture", title of MSc thesis: "Detailed genetic analysis in mouse chromosome 18 for the identification of a novel pathogenetic target causing a lethal neurological phenotype", 2-11/2010.
- Toshimi Kano, Department of Biotechnology, Agricultural University of Athens, MSc program "Biotechnology and applications in Agriculture", title of MSc thesis: "Molecular and Genetic study of human Slc25a46 gene in transgenic mice", 3-9/2013.
- Foteini Violitzi, Department of Biotechnology, Agricultural University of Athens, MSc program "Biotechnology and applications in Agriculture", title of MSc thesis: "Evaluation of novel RANKL inhibitors for the identification of novel anti-osteoporotic drugs", 10/2012-11/2013.
- Eirini Gialitaki, Department of Biotechnology, Agricultural University of Athens, MSc program "System Biology", title of MSc thesis: "Detection of DNAJC11 gene polymorphisms in Amyotrophic Lateral Sclerosis patients", 5-12/2015.
- Ippokratis Lygizos, Department of Biotechnology, Agricultural University of Athens, MSc program "System Biology", title of MSc thesis: "Study of SLC25A46 deletion in the mouse nervous system", 12/2016-10/2017.

PhD students' supervision

- Fotis Ioakeimidis, School of Biology, Aristotle University of Thessaloniki, PhD thesis title: «Study of pathogenic mechanisms in a novel mouse model of autosomal recessive neuromuscular disease with phenotypic, genetic and molecular analysis», 2010-2014. Supervisor Professor: A. Lazou.
- Vagelis Rinotas, Department of Biotechnology, Agricultural University of Athens, PhD thesis title: "Study of RANKL-mediated pathogenic mechanisms in animal models and new therapeutic approaches», 2011-2014. Supervisor Professor: E Douni.
- Niti Alexandra, Medical School, University of Athens, PhD thesis title: "Studying the pathogenic role of RANKL in animal models", 2010-2015. Supervisor Professor: M Koutsilieris.
- Maria-Eirini Terzenidou, Department of Biotechnology, Agricultural University of Athens, PhD thesis title: "Studying the pathogenic role of the mitochondrial carrier SLC25 in a genetic model of neurological disease in mice", 2012-2017. Supervisor Professor: E Douni.
- Maria Papadaki, Department of Biotechnology, Agricultural University of Athens, PhD thesis title: «Studying the role of RANKL in osteoimmune interactions using transgenic mouse models of bone resorption», 2013-2018. Supervisor Professor: E Douni.
- Foteini Violitzi, Department of Biotechnology, Agricultural University of Athens, PhD thesis title: «Study of the pathophysiological role of DnaJC11 gene in a mouse model of neuromuscular disease», 2014-2018. Supervisor Professor: E Douni.
- Anthi Kolokotroni, Department of Biotechnology, Agricultural University of Athens, PhD thesis title: «Study of the pathophysiological role of RANKL protein in the mammary gland of transgenic mice», 2017-ongoing. Supervisor Professor: E Douni.
- Vassiliki-Iris Perivolidi, Department of Biotechnology, Agricultural University of Athens, PhD thesis title "Studying pathophysiological mechanisms in modeled SLC25A46-mediated neurological disease in mice through Molecular Genetics and Proteomic approaches", 2018-ongoing. Supervisor Professor: E Douni.

Other academic merits

Reviewer for International Scientific Journals: Annals of the Rheumatic Diseases, Arthritis Research & Therapy, Clinical and Developmental Immunology, European Journal of Immunology, European Journal of Medicinal Chemistry, FEBS Journal, Frontiers in Cell and Developmental Biology, Frontiers in Endocrinology, Frontiers in Immunology, Frontiers in Pharmacology, International Journal of Molecular Sciences, ISRN Rheumatology, Journal of Clinical Investigation, Journal of Experimental Medicine, Journal of Immunology, Journal of Immunology Research, Journal of Inflammation Research, Laboratory Investigation, Pharmacology, Plos One, Stem Cells

Grant Evaluator for International Funding Bodies

- GSRT, Hellenic Ministry of Education
- State Scholarships Foundation (IKY)
- Hellenic Foundation for Research and Innovation (HFRI)
- Institut Pasteur France, Actions Concertées Inter-Pasteuriennes
- GIS-IBISA French infrastructures
- Research Foundation – Flanders Belgium (FWO)
- Third World Academy of Sciences, Trieste Italy

Member of Scientific Societies

- Co-Founder and Executive Board of the International Bone Marrow Adiposity Society (2017-2020) (<http://bma-society.org/>)
- European Calcified Tissue Society
- American Society for Bone and Mineral Research
- Hellenic Society of Biochemistry and Molecular Biology
- Hellenic Society of Biosciences
- Hellenic Society for the Study of Bone Metabolism
- Hellenic Society of Biomaterials

Organization of conferences

- Member of the Organizing and Examination Committee of the annual course «International Course on Laboratory Animal Science», 2007-2011, B.S.R.C. “Al. Fleming”, Athens
- Organizing member of the International «Workshop on Mouse Immune Phenotyping», 6-8 October 2009, Athens
- Member of the Organizing Committee of the 2nd Conference of Agricultural Biotechnology, October 2012, Athens
- Member of the Organizing Committee of the 66th Conference of the Hellenic Society of Biochemistry and Molecular Biology, 11-13 December 2015, Athens
- Member of the National Advisory Committee of the 28th Annual Conference of the European Society for Biomaterials, 4-8 September 2017, Athens
- Member of the Scientific Committee of the European Calcified Tissue Society Conference 2020

Invited speaker: >50 talks (International conferences, Universities/Research Institutes, Companies).

Presentations in Scientific Conferences: >100

Peer-reviewed Publications in International Scientific Journals: 39

Citations till October 2019: 2397

h-index: 18

Total Impact Factor: 213.58

Average Impact Factor: 6.89

1. Grell M, **Douni E**, Wajant H, Lohden M, Clauss M, Maxeiner B, Georgopoulos S, Lesslauer W, Kollias G, Pfizenmaier K, Scheurich P. (1995). The transmembrane form of Tumour Necrosis Factor (TNF) is the prime activating ligand of the 80 kDa TNF receptor. *Cell*; 83, 793-802.
2. **Douni E**, Akassoglou K, Alexopoulou L, Georgopoulos S, Haralambous S, Hill S, Kassiotis G, Kontoyiannis D, Pasparakis M, Plows D, Probert L, Kollias G. (1995). Transgenic and knockout analysis of the role of TNF in immune regulation and disease pathogenesis. *Journal of Inflammation*; 47, 27-38.
3. Probert L, Akassoglou K, Alexopoulou L, **Douni E**, Haralambous S, Hill S, Kassiotis G, Kontoyiannis D, Pasparakis M, Plows D, Kollias G. (1996). Dissection of the pathologies induced by transmembrane and wild-type tumour necrosis factor in transgenic mice. *Journal of Leukocyte Biology*; 59, 518-525.
4. Pasparakis M, Alexopoulou L, **Douni E**, Kollias G. (1996). Tumour necrosis factors in immune regulation: everything that's interesting is ... new! *Cytokine and Growth Factor Reviews*; 7, 223-229.
5. Kusters S, Tiegs G, Alexopoulou L, Pasparakis M, **Douni E**, Kunstle G, Bluethmann H, Wendel A, Pfizenmaier K, Kollias G, Grell M. (1997). In vivo evidence for a functional role of both tumor necrosis factor (TNF) receptors and transmembrane TNF in experimental hepatitis. *European Journal of Immunology*; 27, 2870-2875.
6. **Douni E**, Kollias G. (1998). A critical role of the p75TNF-R in organ inflammation independent of TNF, LT α or the p55 TNF-R. *Journal of Experimental Medicine*; 188, 1343-1352.
7. Kollias G, **Douni E**, Kassiotis G, Kontoyiannis D. (1999). On the role of tumor necrosis factor and receptors in models of multiorgan failure, rheumatoid arthritis, multiple sclerosis and inflammatory bowel disease. *Immunological Reviews*; 169, 175-194.
8. Kollias G, **Douni E**, Kassiotis G, Kontoyiannis D. (1999). The function of tumour necrosis factor and receptors in models of multi-organ inflammation, rheumatoid arthritis, multiple sclerosis and inflammatory bowel disease. *Annals of the Rheumatic Diseases*; 58, 132-139.
9. Holtmann M, **Douni E**, Schutz M, Mudter J, Lehr H, Gerspach J, Scheurich P, Galle P, Kollias G, Neurath M. (2002). TNF-R2 is upregulated on lamina propria mononuclear cells in Crohn's disease and promotes experimental colitis in vivo. *European Journal of Immunology*; 32:3142-3151.
10. Akassoglou K, **Douni E**, Bauer J, Lassmann H, Kollias G, Probert L. (2003). Exclusive tumor necrosis factor (TNF) signaling by the p75TNF receptor triggers inflammatory ischemia in the CNS of transgenic mice. *PNAS*; 100:709-714.
11. **Douni E**, Sfrikakis P, Haralambous S, Fernandez P, Kollias G. (2004). Attenuation of inflammatory polyarthritis in TNF transgenic mice by diacerein: comparative analysis with dexamethasone, methotrexate and anti-TNF protocols. *Arthritis Research & Therapy*; 6(1):R65-R72.
12. Maung-Maung T, **Douni E**, Aidinis V, Kollias G, Kodama K, Sato K, Satish RL, Mahendran R, Gopalakrishnakone P. (2004). Effect of Phospholipase A2 Inhibitory Peptide on Inflammatory Arthritis in a TNF Transgenic Mouse Model: A Time Course Ultrastructural Study. *Arthritis Research & Therapy*; 6(3):R282-94.

13. Alexopoulou L, Kranidioti K, Xanthoulea S, Denis M, Kotanidou A, **Douni E**, Blackshear PJ, Kontoyiannis DL, Kollias G. (2006). Transmembrane TNF protects mutant mice against intracellular bacterial infections, chronic inflammation and autoimmunity. *European Journal of Immunology*; 36(10):2768-80.
14. Aidinis V, Chandras C, Manoloukos M, Thanassopoulou A, Kranidioti K, Armaka M, **Douni E**, Kontoyiannis DL, Zouberakis M, Kollias G; Mugen NoE consortium. (2008). MUGEN mouse database; animal models of human immunological diseases. *Nucleic Acids Research*; 36: D1048-54.
15. Thwin MM, **Douni E**, Arjunan P, Kollias G, Kumar PV, Gopalakrishnakone P. (2009). Suppressive effect of secretory phospholipase A2 inhibitory peptide on IL-1- β -induced matrix metalloproteinases production in rheumatoid synovial fibroblasts, and its antiarthritic activity in hTNFtg mice. *Arthritis Research & Therapy*; 11:R138. doi: 10.1186/ar2810.
16. Morgan H, Beck T, Blake A, Gates H, Adams N, Debouzy G, Leblanc S, Lengger C, Maier H, Melvin D, Meziane H, Richardson D, Wells S, White J, Wood J; **EUMODIC Consortium**, de Angelis MH, Brown SD, Hancock JM, Mallon AM. (2010). EuroPhenome: a repository for high-throughput mouse phenotyping data. *Nucleic Acids Res*; 38:D577-85. doi: 10.1093/nar/gkp1007.
17. **Douni E**, Rintotas V, Makrinou E, Zwerina J, Penninger JM, Eliopoulos E, Schett G, Kollias G. (2012). A RANKL G278R mutation causing osteopetrosis identifies a functional amino acid essential for trimer assembly in RANKL and TNF. *Human Molecular Genetics*; 21(4):784-98. doi: 10.1093/hmg/ddr510.
18. Papaneophytou CP, Mettou AK, Rintotas V, **Douni E**, Kondopidis GA. (2013). Solvent Selection for Insoluble Ligands, a Challenge for Biological Assay Development: A TNF- α /SPD304 Study. *ACS Medicinal Chemistry Letters*; 4 (1):137–141. doi: 10.1021/ml300380h.
19. Bonaparte D, Cinelli P, **Douni E**, Héroult Y, Maas A, Pakarinen P, Poutanen M, Lafuente MS, Scavizzi F. (2013). FELASA guidelines for the refinement of methods for genotyping genetically-modified rodents: a report of the Federation of European Laboratory Animal Science Associations Working Group. *Laboratory Animals*; 47(3):134-45.
20. Papaneophytou CP, Rintotas V, **Douni E**, Kontopidis G. (2013). A statistical approach for optimization of RANKL overexpression in Escherichia coli: Purification and characterization of the protein. *Protein Expression and Purification*; 90(1):9-19. doi: 10.1016/j.pep.2013.04.005.
21. Zoi OG, Thireou TN, Rintotas VE, Tsoungas PG, Eliopoulos EE, **Douni EK**, Labrou NE, Clonis YD. (2013). Designer Xanthone: An Inhibitor Scaffold for MDR-Involved Human Glutathione Transferase Isoenzyme A1-1. *Journal of Biomolecular Screening*; 18(9):1092-102. doi: 10.1177/1087057113492335.
22. Rintotas V, Niti A, Dacquin R, Bonnet N, Stolina M, Han CY, Kostenuik P, Jurdic P, Ferrari S, **Douni E**. (2014). Novel genetic models of osteoporosis by overexpression of human RANKL in transgenic mice. *Journal of Bone and Mineral Research*; 29(5):1158-69. doi: 10.1002/jbmr.2112.
23. Perperopoulou FD, Tsoungas PG, Thireou TN, Rintotas VE, **Douni EK**, Eliopoulos EE, Labrou NE, Clonis YD. (2014). 2,2'-Dihydroxybenzophenones and their carbonyl N-analogues as inhibitor scaffolds for MDR-involved human glutathione transferase isoenzyme A1-1. *Bioorganic and Medicinal Chemistry*; 22(15):3957-70. doi: 10.1016/j.bmc.2014.06.007.
24. Ioakeimidis F, Ott C, Kozjak-Pavlovic V, Violitzi F, Rintotas V, Makrinou E, Eliopoulos E, Fasseas C, Kollias G, **Douni E**. (2014). A splicing mutation in the novel mitochondrial protein DNAJC11 causes motor neuron pathology associated with cristae disorganization, and lymphoid abnormalities in mice. *PLoS One*; 9(8):e104237. doi: 10.1371/journal.pone.0104237.

25. Alexiou P, Papakyriakou A, Ntougkos E, Papaneophytou CP, Liepouri F, Mettou A, Katsoulis I, Maranti A, Tsiliouka K, Strongilos A, Chaitidou S, **Douni E**, Kontopidis G, Kollias G, Couladouros E, Eliopoulos E. (2014). Rationally designed less toxic SPD-304 analogs and preliminary evaluation of their TNF inhibitory effects. *Archiv der Pharmazie*; 347(11):798-805. doi: 10.1002/ardp.201400198.
26. Papaneophytou C, Alexiou P, Papakyriakou A, Ntougkos E, Tsiliouka K, Maranti A, Liepouri F, Strongilos A, Mettou A, Couladouros E, Eliopoulos E, **Douni E**, Kollias G, Kontopidis G. (2015). Synthesis and biological evaluation of potential small molecule inhibitors of tumor necrosis factor. *Medicinal Chemistry Communications*; 6: 1196-1209. doi.org/10.1039/C5MD00023H
27. Llop-Guevara A, Porrás M, Cendón C, Di Ceglie I, Siracusa F, Madarena F, Rinotas V, Gómez L, van Lent PL, **Douni E**, Chang HD, Kamradt T, Román J. (2015). Simultaneous inhibition of JAK and SYK kinases ameliorates chronic and destructive arthritis in mice. *Arthritis Research & Therapy*; 17:356. doi: 10.1186/s13075-015-0866-0.
28. Agas D, Marchetti L, **Douni E**, Sabbieti MG. (2015). The unbearable lightness of bone marrow homeostasis. *Cytokine & Growth Factor Reviews*; 26(3):347-59. doi: 10.1016/j.cytogfr.2014.12.004.
29. Terzenidou ME, Segklia A, Kano T, Papastefanaki F, Karakostas A, Charalambous M, Ioakeimidis F, Papadaki M, Kloukina I, Chrysanthou-Piterou M, Samiotaki M, Panayotou G, Matsas R, **Douni E**. (2017). Novel insights into SLC25A46-related pathologies in a genetic mouse model. *PLOS Genetics*; 13(4): e1006656. doi: 10.1371/journal.pgen.1006656.
30. Melagraki G, Ntougkos E, Rinotas V, Papaneophytou C, Leonis G, Mavromoustakos T, Kontopidis G, **Douni E**, Afantitis A, Kollias G. (2017). Cheminformatics-aided discovery of small-molecule Protein-Protein Interaction (PPI) dual inhibitors of Tumor Necrosis Factor (TNF) and Receptor Activator of NF- κ B Ligand (RANKL). *PLOS Computational Biology*; 13(4): e1005372. doi: 10.1371/journal.pcbi.1005372.
31. Melagraki G, Ntougkos E, Papadopoulou D, Rinotas V, Leonis G, **Douni E**, Afantitis A, Kollias G. (2018). In Silico Discovery of Plant-Origin Natural Product Inhibitors of Tumor Necrosis Factor (TNF) and Receptor Activator of NF- κ B Ligand (RANKL). *Frontiers in Pharmacology*; 9:800. doi: 10.3389/fphar.2018.00800.
32. Rinotas V, **Douni E**. (2018). Molecular Interaction of BMAT with Bone. *Current Molecular Biology Reports*; 4(2):34–40. DOI: 10.1007/s40610-018-0093-y
33. Melagraki G, Leonis G, Ntougkos E, Rinotas V, Papaneophytou C, Mavromoustakos T, Kontopidis G, **Douni E**, Kollias G, Afantitis A. (2018). Current Status and Future Prospects of Small-molecule Protein-protein Interaction (PPI) Inhibitors of Tumor Necrosis Factor (TNF) and Receptor Activator of NF- κ B Ligand (RANKL). *Current Topics in Medicinal Chemistry*; 18(8):661-673. doi: 10.2174/1568026618666180607084430.
34. Plaitakis A, Kotzamani D, Petraki Z, Delidaki M, Rinotas V, Zaganas I, **Douni E**, Sidiropoulou K, Spanaki C. (2019). Transgenic Mice Carrying GLUD2 as a Tool for Studying the Expressional and the Functional Adaptation of this Positive Selected Gene in Human Brain Evolution. *Neurochemical Research*; 44(1):154-169. doi: 10.1007/s11064-018-2546-3.
35. Anastasilakis AD, Polyzos SA, Makras P, **Douni E**, Mantzoros CS. (2019). Irisin: good or bad for the bone? A new path forward after the reported discovery of irisin receptor? *Metabolism*; 93:100-102. doi: 10.1016/j.metabol.2019.01.013.

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38. Violitzi F, Rinotas V, **Douni E.** (2012). Inhibition of BAFF trimerization with site-directed mutagenesis. *2nd Conference on Agricultural Biotechnology*, 4-5 October, Athens.
39. Terzenidou M, Kano T, Karakostas A, Ioakeimidis F, Kollias G, **Douni E.** (2012). Studying the pathogenic role of a novel SLC25 mitochondrial carrier in a genetic mouse model of neurological disease. *2nd Conference on Agricultural Biotechnology*, 4-5 October, Athens.
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41. Ioakeimidis F, Rinotas V, Fasseas C, Kollias G, **Douni E.** (2012). Identification of the role of DNAJC in mitochondrial structure and neuromuscular function in mice. *2nd Conference on Agricultural Biotechnology*, 4-5 October Athens.
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45. Rinotas V, Violitzi F, Alexiou P, Liepouri F, Maranti A, Tsiliouka K, Strongilos A, Papakyriakou T, Papaneophytou C, Kontopidis G, Couladouros E, Eliopoulos E, **Douni E.** (2013). Novel SPD304-like inhibitors targeting trimerization of human RANKL. *5th International BBBB Conference "From Drug Discovery and Formulation Strategies to Pharmacokinetics-Pharmacodynamics"*, 26-28 September, Athens.
46. Rinotas V, Niti A, Dacquin R, Bonnet N, Ferrari S, Jurdic P, **Douni E.** (2013). Novel models of osteoporosis in transgenic mice overexpressing human RANKL. *ASBMR Annual Meeting*, 4-7 October, Baltimore, USA.
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49. Rinotas V, Papadaki M, Dacquin R, Bonnet N, Jurdic P, Ferrari S, **Douni E.** (2013). Novel osteoporosis models by overexpressing human RANKL in transgenic mice. *64th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 6-8 December, Athens.

50. Terzenidou M, Kano T, Karakostas A, Ioakeimidis F, Kollias G, **Douni E.** (2013). A novel SLC25 family member of mitochondrial carriers causes severe recessive neurological disease in mice. *64th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 6-8 December, Athens.
51. Rinotas V, Violitzi F, Alexiou P, Liepouri F, Maranti A, Tsiliouka K, Strongilos A, Papakyriakou T, Papaneophytou C, Kontopidis G, Couladouros E, Eliopoulos E, **Douni E.** (2014) Novel small molecule inhibitors of human RANKL that target its trimerization. *5th International Conference on Osteoimmunology: Interactions of the Immune and Skeletal Systems*, 15-19 June, Kos Greece.
52. Papadaki M, Rinotas V, **Douni E.** (2014). Osteoimmunological analysis in transgenic mice overexpressing human RANKL. *5th International Conference on Osteoimmunology: Interactions of the immune and skeletal systems*. Aegean Conferences, June 15-20, Kos, Greece.
53. Ioakeimidis F, Violitzi F, Ott C, Kozjak-Pavlovic V, Rinotas V, Fasseas C, **Douni E.** (2014). A splicing mutation in the novel mitochondrial HSP40 co-chaperone DNAJC11 causes neuromuscular disease and lymphoid abnormalities in mice. *65th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 28-30 November, Thessaloniki, Greece. Abstract No 204.
54. Terzenidou M, Segklia A, Kano T, Karakostas A, Violitzi F, Ioakeimidis F, Matsas R, Kollias, **Douni E.** (2014). A nonsense point mutation in a novel SLC25 family member of mitochondrial carriers causes severe recessive neurological disease and cerebellar pathology in mice. *65th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 28-30 November, Thessaloniki, Greece. Abstract No 205.
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56. Violitzi F, Samiotaki M, Ioakeimidis F, Boyongo M, Panayotou G, **Douni E.** (2014). Understanding the physiological role of DNAJC11 through identification of its interactors. *65th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 28-30 November, Thessaloniki, Greece. Abstract No O16.
57. Kano T, Rokidi S, Remboutsika E, Mouzakis D, Zaoutsos S, Bouropoulos N, **Douni E.** (2015). Mechanical stress analysis and osteoblastic induction on calcium phosphate-hydroxyapatite cements. *4th Joint Meeting of the ECTS and IBMS*, 25-28 April, Rotterdam, The Netherlands.
58. Papadaki M, Rinotas V, Kollias G, **Douni E.** (2015). Analysis of Osteoimmune Interactions in Transgenic Mice Overexpressing Human RANKL. *4th Joint Meeting of the ECTS and IBMS*, 25-28 April 2015, Rotterdam, The Netherlands.
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60. Segklia A, Terzenidou M, Papastefanaki F, **Douni E,** Matsas R. (2015). A nonsense point mutation in a novel SLC25 family member of mitochondrial carriers causes severe recessive neurological disease and epilepsy in mice. XII European Meeting on Glial Cells in Health and Disease, 15-18 July, Bilbao, Spain.
61. Rinotas V, Papadaki M, **Douni E.** (2015). RANKL overexpression in transgenic mice leads to trabecular bone loss, cortical porosity and bone marrow adiposity. *1st Bone Marrow Adiposity Meeting*, 28-29 August, Lille, France.

62. Kano T, Rokidi S, Remboutsika E, Mouzakis D, Zaoutsos S, Bouropoulos N, **Douni E.** (2015). Phosphate-Hydroxyapatite Cements: Mechanical Stress Analysis and Osteoblastic Induction. *27th European Conference on Biomaterials*, 30 August - 3 September, Krakow, Poland.
63. Terzenidou M, Segklia A, Kano T, Karakostas A, Violitzi F, Ioakeimidis F, Kollias G, Matsas R, **Douni E.** (2015). A nonsense point mutation in a novel SLC25 family member of mitochondrial carriers causes severe recessive neurological pathology in mice. *FEBS/EMBO Course: Mitochondria in Life, Disease and Death*, 12-15 October, Heraklion, Crete, Greece. Abstract No 49R.
64. Violitzi F, Samiotaki M, Ioakeimidis F, Panayotou G, **Douni E.** (2015). Investigating the function of the novel mitochondrial HSP40 co-chaperone DNAJC11 through domain characterization and identification of its interactors. *FEBS/EMBO Course: Mitochondria in Life, Disease and Death*, 12-15 October, Heraklion, Crete, Greece. Abstract No 64G.
65. Ioakeimidis F, Violitzi F, Rinotas V, Gialitaki E, Ott C, Kozjak-Pavlovic V, Fasseas C, **Douni E.** (2015). A splicing mutation in the novel mitochondrial HSP40 co-chaperone DNAJC11 causes motor neuron pathology and cristae disorganization in mice. *FEBS/EMBO Course: Mitochondria in Life, Disease and Death*, 12-15 October, Heraklion, Crete, Greece. Abstract No 12G.
66. Charalambous M, Papastefanaki F, Terzenidou M, **Douni E.**, Matsas R. (2015). The pathophysiological role of a novel SLC25 family member in the spinal cord and sciatic nerve of mutant mice. *66th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 11-13 December, Athens, Greece.
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68. Rinotas V, Violitzi F, Alexiou P, Liepouri F, Maranti A, Tsiliouka K, Strongilos A, Papakyriakou T, Papaneophytou C, Kontopidis G, Couladouros E, Eliopoulos E, **Douni E.** (2015). Identification of small molecule inhibitors of RANKL as novel antiresorptive agents in osteoporosis. *66th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 11-13 December, Athens, Greece.
69. Papadaki M, Rinotas V, Plestilova L, Kollias G, Jüngel A, **Douni E.** (2015). Expression profile and osteoimmunological interactions in osteoporotic transgenic mice overexpressing human RANKL. *66th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 11-13 December, Athens, Greece.
70. Violitzi F, Samiotaki M, Ioakeimidis F, Rinotas V, Panayotou G, **Douni E.** (2015). Domain characterization and identification of protein interactors of the novel mitochondrial DNAJC11 protein that causes a neuromuscular phenotype in mice. *66th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 11-13 December, Athens, Greece.
71. Papadaki M, Rinotas V, Plestilova L, Kollias G, Jüngel A, **Douni E.** (2016). Osteoimmunological interactions and expression profile in osteoporotic transgenic mice overexpressing human RANKL. *6th International Conference on Osteoimmunology: Interactions of the immune and skeletal systems*. Aegean Conferences, June 17-22, Chania, Greece.
72. Rinotas V, Papadaki M, **Douni E.** (2016). Bone marrow adipogenesis in transgenic mice expressing human RANKL. *6th International Conference on Osteoimmunology: Interactions of the immune and skeletal systems*. Aegean Conferences, June 17-22, Chania, Greece.
73. Rinotas V, Siniorakis E, Papadaki M, **Douni E.** (2016). Analysis of bone marrow adiposity in human RANKL-expressing transgenic mouse models of osteoporosis. *2nd Bone Marrow Adiposity Meeting*, August 25-26, Rotterdam, the Netherlands.

74. Rinotas V, Kontou A, Siniorakis E, Papadaki M, **Douni E.** (2017). Bone Marrow Adiposity in TgRANKL Osteoporosis Mouse Models. *3rd Bone Marrow Adiposity Meeting*, 31 August - 1 September, Lausanne, Switzerland.
75. Kano T, Rinotas V, Rokidi S, Mouzakis D, Zaoutsos S, Bouropoulos N, **Douni E.** (2017). Phosphate-Hydroxyapatite Cements: Porosity Related Mechanical Response And Osteoblastic Induction Behavior. *28th European Conference on Biomaterials*, 4-8 September, Athens, Greece.
76. Lygizos I, Terzenidou M, Samiotaki M, Violitzi F, Panayotou G, **Douni E.** (2017). Studying SLC25A46-mediated pathogenic mechanisms in a genetic mouse model of neuropathology with proteomic analysis. *68th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 10-12 November, Athens, Greece.
77. Violitzi F, Samiotaki M, Perivolidi V, Rinotas V, Grivas I, Markogiannaki M, Haralambous S, Panayotou G, **Douni E.** (2017). Understanding DNAJC11-mediated neuromuscular pathology through identification of its protein interactors with proteomic analysis. *68th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 10-12 November, Athens, Greece.
78. Rinotas V, Kontou A, Tzortzis E, Siatra P, Kolokotroni A, Siniorakis E, Papadaki M, **Douni E.** (2017). Investigating bone marrow adiposity in TgRANKL osteoporosis mouse models. *68th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 10-12 November, Athens, Greece.
79. Papadaki M, Rinotas V, Stavropoulos D, Bakogiannis V, Kollias G, **Douni E.** (2017). RANKL, a novel disease modifier in inflammatory arthritis. *68th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 10-12 November, Athens, Greece.
80. Kolokotroni A, Rinotas V, Giakountis A, Papadaki M, Hatzis P, Plestilova L, Jünger A, **Douni E.** (2017). Investigating the pathophysiological role of RANKL in bone and mammary gland. *68th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 10-12 November, Athens, Greece.
81. Rinotas V, Tzortzis E, Siatra P, Kolokotroni A, Papadaki M, **Douni E.** (2018). Bone marrow adipose tissue (BMAT) in modeled osteoporosis. *7th International Conference on Osteoimmunology: Interactions of the immune and skeletal systems*. Aegean Conferences, 3-8 June, Chania, Greece.
82. Papadaki M, Rinotas V, Violitzi F, Samiotaki M, Panayotou G, **Douni E.** (2018). RANKL, a disease modifier in inflammatory arthritis. *7th International Conference on Osteoimmunology: Interactions of the immune and skeletal systems*. Aegean Conferences, June 3-8, Chania, Greece.
83. Rinotas V, Tzortzis E, Siatra P, Kritikos K, Nikolaou P, Kolokotroni A, Papadaki M, **Douni E.** (2018). Bone Marrow Adiposity in modeled osteoporosis. *4th Bone Marrow Adiposity Meeting*, 29-31 August, Lille, France.
84. Kolokotroni A, Rinotas V, Gkikopoulou E, **Douni E.** (2018). Investigating the pathophysiological role of RANKL in mammary gland development. *69th Congress of the Hellenic Society of Biochemistry and Molecular Biology*, 23-25 November, Larissa, Greece.

Invited Speaker (from 2004)

- 2004.** "Transgenic and knockout systems in Immunology". Hellenic Society of Immunology. Seminar in Immunology 20th cycle. 25 January, Athens, Greece.
- 2004.** "Random mutagenesis in animal models of human immunological diseases for the discovery of new therapeutic targets". Hellenic Conference of Immunology. 8-11 December, Thessaloniki, Greece.
- 2005.** "Anti-TNF and anti-IL-1 therapies: from mouse to human". Hellenic Conference of Pathology. 11-14 October, Athens, Greece.

- 2006.** "Identification of disease targets using random ENU mutagenesis in animal models". 3rd International Biotechnological Conference. 5-7 October, Athens, Greece.
- 2006.** "Novel approaches studying inflammation". 19th Hellenic Rheumatology Conference., 29Nov.-2 Dec., Athens, Greece.
- 2006.** "Random ENU Mutagenesis". MUGEN Transgenesis Gene Targeted Mutagenesis Course. April 10-13, Athens, Greece.
- 2007.** "ENU Mutagenesis". 1st International Course on Laboratory Animal Science. 24 September-5 October, Athens, Greece.
- 2007.** "Molecular Biology and genetically modified animal models". 1st Hellenic Seminar of Experimental Biomedical Research. 11-14 December, Athens, Greece.
- 2008.** "Identification and characterization of a novel loss-of-function missense mutation in the RANKL gene that causes osteopetrosis in mice". Institut de Génomique Fonctionnelle de Lyon, 6 May Lyon, France.
- 2008.** "Functional Genomics for the understanding of pathophysiology in animal models". 14th Scientific Conference of Greek Medical School Students. 9-11 May, Athens, Greece.
- 2008.** "Chronic inflammatory disease mechanisms and development of therapies". 28th European Section Meeting of the International Society for Heart Research. 28-31 May, Athens, Greece.
- 2008.** "Forward Genetics". 2nd International Course on Laboratory Animal Science. 22 September-3 October, Athens, Greece.
- 2008.** "The osteoblast, the osteoclast and osteoporosis". 64th Hellenic Orthopedic Conference. Round table: Osteoporosis today. 8-11 October, Athens, Greece.
- 2008.** "Functional genomics to understand pathophysiology in animal models". 27th Congress of the International Academy of Pathology. 12-17 October, Athens, Greece.
- 2008.** "Genetically modified animal models in Osteoimmunology". 2nd Hellenic Seminar of Experimental Biomedical Research. 20-22 November, Athens, Greece.
- 2009.** "Forward genetics: a tool for the discovery of novel disease targets in Immunology". 2nd Immunology Summer School & Conference, 31 August-4 September, Kefalonia, Greece.
- 2009.** "Forward Genetics as a tool for the identification of novel disease targets". Medical School, University of Crete, 6 July, Heraklion, Greece.
- 2009.** "Genetic Standardization". 3rd International Course on Laboratory Animal Science. 21 September-2 October, Athens, Greece.
- 2009.** "Forward Genetics". 3rd International Course on Laboratory Animal Science. 21 September-2 October, Athens, Greece.
- 2009.** "Forward and Reverse Genetics". Workshop on Mouse Immune Phenotyping. 6-8 October, Athens, Greece.

- 2009.** "Functional Genetics technologies in animal models". 1st Hellenic Conference of Agricultural Biotechnology, 16-18 October, Athens, Greece.
- 2009.** "Forward Genetics as a tool for the identification of novel disease targets". Institute of Biology. N.C.S.R. Demokritos, 5 November, Athens, Greece.
- 2010.** "The role of RANKL in osteoimmunology and development of therapies in transgenic mice". Psoriasis and Arthritides, update and new perspectives. 23-24 January, Heraklion, Greece.
- 2010.** "Transgenic mice overexpressing RANKL as a model of osteoporosis". 18th Hellenic Conference of Hellenic Society of Studying Bone Metabolism. Round table: Experimental models of Osteoporosis. 14-16 May, Athens, Greece.
- 2010.** "Genetic Standardization". 4th International Course on Laboratory Animal Science. 4-15 October, Athens, Greece
- 2010.** "Forward Genetics". 4th International Course on Laboratory Animal Science. 4-15 October, Athens, Greece.
- 2011.** "Osteoimmunology-Mouse models of immune diseases". 3rd Immunology Summer School, 27 June-1 July, Spetses, Greece.
- 2011.** "Genetic Standardization". 5th International Course on Laboratory Animal Science. 16-30 September, Athens, Greece.
- 2011.** "Forward Genetics". 5th International Course on Laboratory Animal Science. 16-30 September, Athens, Greece.
- 2011.** "Modelling RANKL-mediated pathologies in mice". Final EUMODIC meeting, 21-22 November, Geneva, Switzerland.
- 2011.** "Studying RANKL-mediated pathologies in transgenic mice". Geneva University Hospital, 22 November, Geneva, Switzerland.
- 2011.** "Studying the pathogenic role of RANKL in transgenic mice overexpressing human RANKL". 2nd Hellenic Symposium of Research Dermatology. 30 September-2 October, Heraklion, Greece.
- 2012.** Functional Genetics technologies in animal models. 2nd Conference on Agricultural Biotechnology, 4-5 October Athens.
- 2013.** "Functional genomics in the mouse: modeling human diseases". Medical School, University of Patras, 12 March, Patras, Greece.
- 2014.** Novel therapeutic approaches in osteoporosis through RANKL inhibition. 5th International BBBB Conference "From Drug Discovery and Formulation Strategies to Pharmacokinetics-Pharmacodynamics", 26-28 September, Athens.
- 2014.** "RANKL-mediated pathologies and novel therapeutic approaches in modeled osteoporosis". 2nd Autumn School "Techniques in Immunology and Bone Biology" of OSTEOIMMUNE ITN, 2-3 September, Berlin, Germany.

- 2015.** "Identification of novel pathogenic targets in mice through Forward Genetics". Laboratory Animals in Biomedical Research: Theory and practice, 18-22 May, Athens, Greece.
- 2015.** "Identification of novel causative genes for bone and neurological diseases through Functional Genetics approaches in mice". 37th Annual Conference of Hellenic Society for Biological Sciences, 21-23 May, Volos, Greece.
- 2015.** "Identification of small molecule inhibitors of RANKL as novel antiresorptive agents in osteoporosis". 1st International Congress of Controlled Release Society: Small molecules and Biotechnological drugs, 27-28 May, Athens, Greece.
- 2015.** "Genetically altered mouse models of bone and neurological diseases for the identification of novel disease targets". LAS EU Functions Course, 9-17 November 2015, Athens, Greece.
- 2016.** "Genetically altered mouse models of bone and neurological diseases for the identification of novel disease targets". LAS EU Functions Course, 12-21 September 2016, Athens, Greece.
- 2016.** "Modeling osteoporosis in transgenic mice expressing human RANKL". 4th BTCure annual workshop on animal models. 18-20 September 2016, Athens, Greece.
- 2017.** "Biological properties of Phosphate-Hydroxyapatite cements". 27th Interdisciplinary Research Conference on injectable Biomaterials and interventional procedures. 18-21 May, Athens, Greece.
- 2017.** "Identification of novel pathogenic targets in mice through Forward Genetics". TT-RIIP International course "Transgenic technologies in modeling human diseases: Principles, associated technologies, animal management and ethics". 5-13 June, Hellenic Psteur Institute, Athens, Greece.
- 2017.** "Investigation of pathogenic mechanisms in osteoporosis and neurodegenerative diseases through modeling of human diseases in mice". 5th Hellenic forum for Science Technology and Innovation. 5-7 July, Demokritos, Athens, Greece.
- 2017.** "Genetically altered mouse models of bone and neurological diseases for the identification of novel disease targets". 3rd LAS EU Functions Course, 2-11 October, Athens, Greece.
- 2017.** "Forward Genetics: from phenotype to genotype". Workshop on Transgenic animal models. 9 December 2017, Athens, Greece.
- 2017.** "Molecular tools for the genome modification with CRISPR/CAS9, a revolution in transgenesis" Workshop on Transgenic animal models. 9 December 2017, Athens, Greece.
- 2018.** "Genetically altered mouse models of bone and neurological diseases for the identification of novel disease targets". 4th LAS EU Functions Course, 1-11 October, Athens, Greece.
- 2019.** "Applied Genetics for Bone Regeneration". Symposium and Course on "Infected Bone Loss Treatment As a Means of Scientific Improvisation, Innovation and Creativity", 11 May, Athens, Greece.
- 2019.** "Transgenesis and Humanized mouse models". 4th Congress on Gene therapy and Regenerative Medicine, 17-18 May, Athens, Greece.
- 2019.** "Genetically altered mouse models of bone and neurological diseases for the identification of novel disease targets". 5th LAS EU Functions Course, 1-11 October, Athens, Greece.
- 2019.** "From mouse models to humans: the RANKL paradigm". Joint meeting of the Hellenic Society for the Study of Bone Metabolism and the Dutch Society for Calcium and Bone Metabolism, 10-12 October, Athens, Greece.

Other activities

2007 Co-founder of Biomedcode Hellas, a Fleming spin-off for preclinical evaluation studies and novel drug development .

Positions of Trust

2006- present Group leader.

2007-2011 Scientific coordinator of the Animal house unit of BSRC "Al. Fleming".

2003-2011 Member of the institutional animal care and use committee of BSRC "Al. Fleming".

2003-2006 Head of the Animal house unit of BSRC "Al. Fleming".

2001-2006 Study responsible of preclinical trials using new pharmaceuticals in animal models of human diseases, BSRC "Al. Fleming".