



Zafiroula-Iro Georgoussi

Research Director

Laboratory of Cell Signaling and Molecular Pharmacology
Institute of Biosciences and Applications,
National Centre for Scientific Research "Demokritos"
Terma Patriarchou Gregoriou E', 15310 Ag. Paraskevi
Tel: +30 210 6503564, +30 210 6503586

e-mail: iro@bio.demokritos.gr

web page: <http://bio.demokritos.gr/el/research/a/georgoussi>

PERSONAL DATA

Citizenship: Greek.

Family Status: One daughter.

EDUCATION

- 1979: University of Patras, Patra, Greece, BSc in Biology.
1980: Diploma, Queen Elizabeth College, London, UK.
1981-1985: National Hellenic Research Foundation, Centre of Biological Sciences, Athens, Greece (Supervisor: Dr T. Sotiroudis).
1982-1985: Physiological Chemistry, University of Ruhr, Bochum, Germany (Supervisor: Prof. L.M.G. Heilmeyer).
1986: Ph.D, Department of Biology, University of Athens, (Thesis research carried out at the University of Ruhr).

POSTDOCTORAL TRAINING

- Mar.'86-Sept.'86: Post-doctoral Fellow, Ruhr University Bochum, Germany
Oct.'86 - Oct.'89: Post-doctoral Fellow, Howard Huger Medical Institute, Vanderbilt University School of Medicine, Nashville, Tennessee, USA,
Oct.'89 - Sept.'94: Research Associate of the National Centre for Scientific Research "Demokritos", Institute of Biology, Athens, Greece
Apr.'92 - Sept.'92: Research Associate, Molecular Pharmacology Group, University of Glasgow, Scotland, UK
Nov.'94 - Apr.'95: Research Associate, Cellular Signaling and Molecular Pharmacology Group, University of Glasgow, Scotland, UK

POSITIONS HELD

- 1995: Research Scientist, National Centre for Scientific Research "Demokritos", Institute of Biology, Athens, Greece.
1999: Principal Research Investigator, Head of Laboratory of Cellular Signaling and Molecular Pharmacology, Institute of Biology, NCSR "Demokritos".

2011: Research Director, Head of Laboratory of Cellular Signaling and Molecular Pharmacology, Institute of Biosciences and Applications, NCSR "Demokritos".

RESEARCH VISITS AND SABBATICALS

- Molecular Pharmacology Group, Division of Biochemistry and Molecular Biology, University of Glasgow, Glasgow Scotland, UK. (Nov1994-Apr.1995), (Prof. G. Milligan).
- Sabbatical, Department of Pharmacology, Vanderbilt University, School of Medicine, Nashville (Mar. - Oct. 2002), (Prof. H. Hamm).
- Department of Pharmacology, Apr.-May 2003 and Aug.-Sept. 2014, (Prof. H. Hamm).
- National Institute on Drug Abuse (NIDA) Baltimore, MD, (July-Aug. 2011), (Dr T. Shippenberg).

SCHOLARSHIPS/FELLOWSHIPS

1981-1985 PhD Scholarship, National Hellenic Research Foundation, Institute of Biological Sciences, Athens, Greece

1982-1985 PhD Scholarship, University of Ruhr, Department of Physiological Chemistry, Medical School, Bochum, Germany

1992 Royal Society Fellowship

1994-1985 EMBO short Term Fellowship

AWARDS/DISTINCTIONS

- Lipkowski A.W., Kleczkowska P., Kosson P., Klinowiecka A., **Georgoussi Z.** and Tourwe D., Gold Metal of the International Invention Show (IWIS), on "*Chimeric opioid-neurotensin ligands as new prospective analgesics in chronic pain*", Warsaw, Poland, (2008).
- Lipkowski A.W., Kleczkowska P., Kosson P., Klinowiecka A. **Georgoussi Z.** and Tourwe D. The IFIA Scientific Gold Metal of the International Federation of Inventors' Association to on "*Chimeric opioid-neurotensin ligands as new prospective analgesics in chronic pain*", Warsaw, Poland (2008).
- Iatrou K., Swevers L. and **Georgoussi Z.** Second Hellenic Inventors' Award of the Industrial Property Organization, Science and Technology Festival (Zappeion Conference and Exhibition Centre) on "*Genetically modified lepidopteran cell lines expressing high levels of functional mammalian opioid receptors as Hightthroughput screening systems for the identification of opioid receptor agonists and antagonists*", Athens, (2008).
- **Georgoussi Z.** Special Distinction from the Polish Government on Scientific goals of "*Normolife*" aiming to alleviate pain. Polish Embassy in Brussels, (2009).

RESEARCH INTERESTS

- Receptor Biology: G protein-coupled receptors
- Molecular Mechanisms of Signal Transduction
- Modulation of Effectors by GTP-binding and RGS proteins
- Modulation of Transcription Factors and Genes by Opioids
- Role of Opioid Receptors in Stress Conditions
- Neurobiology and Mechanisms of Autophagy
- Identification of Novel Pharmacological Targets and Compounds using Functional Genomics and Proteomics

SUPERVISION OF GRADUATE STUDENT, POSTDOCTORAL FELLOWS & OTHERS

POSTDOCTORAL FELLOWS: M. Papakonstantinou, A. Tserga, V. Papanikolaou, A. Agalou, D. Fourla, T. Teli, N. Balatsos (2004-2005), M. Merkouris, A. Lioupis, M. Gazouli, M. Merkouris, I. Dragatsis

PhD STUDENTS: G. Megaritis UOA, Faculty of Biology, (2005), G. Mazarakou, UOA, Dept of Biology, (2006), E. Morou, UOA, Dept of Biology, (2008), L. Leontiadis, UOA, Dept of Biology (2010), E-M. Georganta, UOA, Biology Dept (2012), M. Papakonstantinou, University of Patras, Dept of Pharmacology, (2014), P. Pallaki UOA, Faculty of Biology (2014-pending 2022), S. Koutloglou, UOA, C. Karoussiotis (2016-pending 2022) A. Symeonof (2019-today), UOA, Dept of Biology.

Msc AND OTHER STUDENTS: S. Koutloglou, Medical School, UOA, (2014), M.Sofotasiou, Biologist, Medical School, UOA (2014), S. Mataranga, University of York, UK (2013), L. Tsoutsi, University of Ioannina (2012), Turnariti R. University of Catania (2008), K. Papachristos, University of Leeds, UK (2003), E. Dovletoglou, Biologist, UOA (2001), L. Chatzilaris, Biologist, UOA, (1995-1997)

UNDERGRADUATE STUDENTS: A. Tsoumalis; G. Trazani; A. Papanagnou D., Myridakis, M. Argyrou; S. Zuccala; C. Ragusa., D. Papavranousi Daponte., G. Kafetzopoulos., I.Koukouli., K. Kapolou., E. Vrana., A. Sotiriou., A. Symeonof., N. Vavouraki., G.Kyriakopoulou., I. Sarropoulos., F. Zambeta., A. Krythariotou., C. Karoussiotis, A.. Sotiriou., A. Sachinidis., F. Nikolos., M. Sarris., A. Papaioannou., T. Kotsogiannis., A. Papageorgiou., M. Xydous.

EUROPEAN CONSORTIUM PARTNERSHIPS

- Member, Network *EnBEST* on Signal Transduction mediated by G proteins (1993-2003)
- Member, *Normolife Net* on research for pain perception (2006-today)
- Member, *ENaROMATIC* consortium for olfaction signaling pathways (2009-today)

- National Representative-Management Committee, EU-COST-Action 1207 “GLISTEN”- *GPCR Ligand Interactions, Structures and Transmembrane Signaling* (2013-2017)
- Member, Management Committee, EU-COST-Action 18133, “ERNEST”- *European Research Network on Signal Transduction* (2019-2023)
- Substitute Member, Management Committee the EU-COST 18240, “Adhere and Rise” (2019-2023)

OTHER SCHOLARLY ACTIVITIES

- Member of the International Society of Neuroscience School Initiative Committee (2015-2017)
- Member of the Board of the International Master’s Program in Neurosciences (2016-today)
- Co-organizer of the Course “*Cellular and Molecular Neuroscience*” for the International Master’s Program in Neuroscience, University of Athens (2016-today)
- Member of the educational programme of the School of Pharmacy, University of Catania, Catania, Sicily (2016-today)
- Member of the Master’s Program «*Molecular and Applied Physiology*», Medical School of Athens (2014-today)
- Member of the Master’s Program “*Molecular basis of Human Disease*”, University of Athens (2010-today)
- Member of the Joint Post-Graduate Programme in «*Applied Biochemistry, Clinical Chemistry, Biotechnology, Evaluation of Pharmaceutical Products*» of the Department of Chemistry, University of Patras and the IBA, NCSR D

ADMINISTRATIVE POSITIONS IN NCSR “DEMOKRITOS”

- Vice President of Post-doctoral board of NCSR “D” (1992-1995)
- Secretary of the Educational Board of IB, NCSR “D” (1999-2005)
- Elected member of the Scientific Consulting Board of IB-A (2004)
- Member of the Research Committee of the NCSR (2000-2004)
- Elected member of the Scientific Consulting Board of IBA (2013-2014; 2017-2019)
- Substitute Member of the Research Ethical Committee of the NCSR “D” (2021-2024).

RESEARCH FUNDING

| Period | Funding Agency | Type of Grant | Topic | Coordinator |
|-----------|----------------|-------------------|--|--------------|
| 1994-1997 | EU | Human Capital and | European Network on Biological Signal Transduction | D. Strosberg |

| | | | | |
|-----------|----------|--|---|---------------|
| | | Mobility | modulated by G proteins | |
| 1998-2001 | GSRT | YPER (with ELPEN Pharmaceutical Company) | Opioid analogs for development of novel analgesics | Z. Georgoussi |
| 1998-2002 | GSRT | EPETII (with ELPEN Pharmaceutical Company) | Novel opioid receptor analogs and targets to combat pain | Z. Georgoussi |
| 1998-2002 | GSRT | EPETII | Analysis and in vivo screening of G-protein coupled receptors-Radiotherapy | S. Chiotellis |
| 1999-2002 | NCSR "D" | DemoErevna | Mapping the sites of interaction of opioid receptors with G proteins | Z. Georgoussi |
| 2000-2001 | GSRT | EPETII (with VIORYL Company) | High-throughput screening for mimetics and antagonists of insect hormones and other insect physiological regulators in plant extracts | K. Iatrou |
| 2003-2005 | GSRT | ENTER (with ELPEN Pharmaceutical Company) | Crosstalk between the neurotensin-1 and opioid receptors: Implications in the development of antipsychotic drugs | Z. Georgoussi |
| 2004-2006 | GSRT | Bilateral Polish-Greece | The role of Regulators of G protein Signaling (RGS) in opioid receptor function | Z. Georgoussi |
| 2004-2005 | GSRT | PRAXE (phase A) | Methods for overexpression and production of recombinant proteins from cloned genes and development of high-throughput screening technologies for new pharmacological effectors in plant extracts | K. Iatrou |
| 2007-2010 | EU | FP6-Health (STREP) | NORMOLIFE: Development of new therapeutic substances and strategies for treatment of pain in patients with advanced stages of cancer | A. Lipkowski |
| 2008-2012 | EU | FP7-Health | ENAROMaTIC: European Network for Advanced Research on Olfaction for Malaria Transmitting Insect Control | K. Iatrou, |

| | | | | |
|-----------|------|---------------------------------------|--|---------------|
| 2011-2013 | GSRT | Greek-Hungarian bilateral cooperation | Self-Assembled ZnO Nanostructures for Engineered Neuronal Networks | E. Makarona |
| 2013-2017 | EU | COST-Action | GLISTEN: GPCR Ligand Interactions, Structures and Transmembrane Signaling | P. Kolb |
| 2014-2015 | GSRT | Excellence II | Neurite Outgrowth: Alternative G protein coupled Opioid receptor Signaling | Z. Georgoussi |
| 2019-2023 | EU | COST-Action | ERNEST: European Research Network on Signal Transduction CA18133 | Z. Georgoussi |

PUBLIC AWARENESS/PRESS RELEASES

- Georgoussi Z. (2000), 'Demochronika' 3: page 17.
- Georgoussi Z. (2007), Innovation Research and Technology, National Documentation Center, "Smart Drugs Alleviating Pain" (TRL: 3-4), Issue 58, page 9.
- Georgoussi Z. (2007), Press release, NCSR «Demokritos» Presidents's Webpage «Smart Drugs for Alleviating Pain», 4th February, 2007.
- Georgoussi Z. (2007), «Aggelioforos" Daily Paper 12th May 2007 "Smart Analgesics".
- EU Parliament Magazine 281, Parliament journal focussing on World Cancer Day, "Normolife ", Feb. 2009, page 28.
http://europabioreports.eu/project.eu/index.php/kb_391/io_758/io.html.
- Georgoussi Z. (2012, 2013), Researchers' Nights 2012 and 2013, "How to combat Pain and Drug Addiction", National Hellenic Research Foundation, Athens.
- Georgoussi Z. (2014, 2015), Researchers' Nights 2014, 2015 "Pain Alleviation and Drug Addiction: Two sides of the same coin", NCSR "Demokritos".

PATENTS/TECHNOLOGY TRANSFER

- Georgoussi, Z. (2004). Patent: "Genetically modified lepidopteran cell lines expressing high levels of functional mammalian opioid receptors as high throughput screening systems for the identification of opioid receptor agonists and antagonists". Greek Patent Office No. 20040100397/30-9-2004 (with K. Iatrou and L. Swevers).
- Georgoussi, Z. (2011). Co-applicant for establishment of a spin-off company (GENEXPA EΠΕ) with K. Iatrou and L. Swevers.

- Georgoussi, Z. (2013). 100 Promising Technologies, «Novel strategies to combat pain-“Smart Drugs” for cancer-related pain therapies», page 7, NCSR “Demokritos”, April 2013.
- Georgoussi, Z. (2011) Member of the laboratory for the provision of specialized scientific and technological services and products entitled: “Biotechnological Products and Services” (coordinated by K. Iatrou).

PUBLICATIONS IN PEER REVIEWED JOURNALS AND BOOKS

1. **Georgoussi Z.** and Sotiroudis T.G. (1985) Inhibition of sarcoplasmic reticulum Ca^{2+} ATPase by 2-mercaptoethanol. *Biochem. Biophys. Res. Commun.* 126: 983-989.
2. **Georgoussi Z.**, and Heilmeyer L.M.G. (1985) Phosphatidylinositol kinase, a key enzyme of phosphatidylinositol metabolism: its role as an intracellular second messenger system, In: *Recent Advances in Biological Membrane Studies* (L. Packer ed.), Plenum Press. p. Vol. **91**.
3. Heilmeyer L.M.G., Assy H.M., Behle G., **Georgoussi Z.**, Schaffer M. Theilezcek R., and Varsanyi M. (1985) Phosphatidylinositol-4-phosphate in sarcoplasmic reticulum: formation, degradation and possible function. 2: 215-239.
4. **Georgoussi Z.**, Hessova Z, Crabb J.W, Theilezcek R., Varsanyi M. and Heilmeyer (1985) *Journal of Muscle Research and Cell Motility*. Phosphorylase kinase—a multifunctional Ca^{2+} -Calmodulin regulated-lipid kinase Vol. 6 Issue: 1 Pages: 94-95.
5. **Georgoussi Z.**, and Heilmeyer L.M.G. (1986) Evidence that phosphorylase kinase exhibits phosphatidylinositol kinase activity. *Biochemistry* 25: 3867-3874.
6. **Georgoussi Z.**, Evangelopoulos A. and Heilmeyer L.M.G. (1986) Labeling of sarcoplasmic reticulum peptides in relation to phosphatidylinositol-kinase with ^{32}P and fluorescein 5-isothiocyanate. *Biochem. Pharmacol* 35: 4571-4573 .
7. **Georgoussi Z.**, Taylor S.J., Bocckino S.B. and Exton J.H.(1990) Purification of the hepatic vasopressin receptor using a novel affinity column. *Biochim. Biophys. Acta*, 1055: 69-74.
8. **Georgoussi Z.**, Taylor S.J., Bocckino S.B. and Exton J.H. (1991) Hepatic vasopressin receptor: a key receptor of phosphoinositide metabolism, *Biological Signal Transduction*, Springer Verlag (K. Wirtz and E. Ross, eds.) Vol. H 52: 73-84.
9. **Georgoussi Z.**, and Zioudrou C. (1993) Effect of a specific δ -opioid antagonist on the functional coupling between opioid receptors and G-proteins. *Biochem. Pharmacol.* 45: 2405-2410.
10. **Georgoussi Z.**, Carr G. and Milligan G. (1993) Measurements of in situ interactions of rat brain opioid receptors with the guanine nucleotide binding protein G_α . *Mol. Pharmacol.* 44: 62-69.
11. **Georgoussi Z.**, Milligan G. and Zioudrou C. (1994) Immunoprecipitation of opioid receptor- G_α -protein complexes. *Regulatory Peptides* 54: 105-106. **Georgoussi Z.**, Milligan G. and Zioudrou C. (1995) Identification of stable opioid receptor- G_α protein complexes using GTP binding selective antisera. In: "Signalling Mechanisms from Transcription Factors to Oxidative Stress". NATO ASI series Springer Verlag (eds. K. Wirtz and L. Packer), H92: 87-98.

12. **Georgoussi Z.**, Milligan G. and Zioudrou C. (1995) Immunoprecipitation of opioid receptor-GTP-binding protein complexes using selective GTP-binding protein antisera. *Biochem. J.* 306: 71-75.
13. **Georgoussi Z.**, Mullaney, I., Wise, A., Carr, G., and Milligan G. (1995) Functional interactions of pertussis toxin-sensitive G proteins with the transfected μ - opioid receptor in Rat- 1 fibroblasts. *Analgesia*, 1: 438-441.
14. Merkouris M., Dragatsis, I., Megaritis, G., Konidakis, G., Zioudrou, C., Milligan G., and **Georgoussi Z.** (1996) Identification of the critical domains of the δ -opioid receptor involved in G protein coupling using site specific synthetic peptides. *Mol. Pharmacol.* 50: 985-993.
15. **Georgoussi Z.**, Hatzilaris E., Wise, A. and Milligan, G. (1997) Interaction of the Rat μ -opioid receptor and a chimeric μ -opioid receptor expressed in COS-7 cells with multiple G proteins. *NATO ASI series Springer Verlag (eds L.M.G. Heilmeyer)* 102: 227-230.
16. **Georgoussi Z.**, Merkouris, M., Mullaney, I., Megaritis, G., Carr, G., Zioudrou, C. and Milligan, G. (1997) Selective interactions of the μ -opioid receptors with pertussis toxin-sensitive G proteins: Involvement of the third intracellular loop and the C-terminal tail in coupling. *Biochem.Biophys. Acta* 1359: 263-274.
17. Merkouris M., Mullaney, I., **Georgoussi, Z.**, and Milligan, G. Regulation of spontaneous activity of the δ -opioid receptor: Studies of inverse agonism in intact cells (1997) *J. Neurochem.* 69: 2115-2122 .
18. Megaritis G. Merkouris, M. and **Georgoussi, Z.** (2000) Functional domains of the δ - and μ -opioid receptors responsible for adenylyl cyclase inhibition *Receptors and Channels* 7(3): 199-212.
19. Morou E., Prombona A., and **Georgoussi Z.** (2001) Expression of the third intracellular loop of the δ - opioid receptor in G protein signaling. *NATO ASI series Springer Verlag (eds L.M.G. Heilmeyer)* A318: 114-122.
20. Vassilaki T. **Georgoussi Z.** and Thermou K. (2003) Somatostatin receptors (sst2) are coupled to Go and modulate GTPase activity in the rabbit retina. *J. Neurochem.* 84:625-631.
21. Swevers L., Farrell, P.J., Kravariti, L., Xenou-Kokoletsi, M., Sdralia, K., Lioupis, A., Morou, E., Balatsos, N., Douris, V. **Georgoussi, Z.**, Mazomenos, V., and Iatrou, K. (2003) Transformed insect cells as screening tools for the discovery of new bioactive compounds. *Comm. Agr. Appl. Biol. Sci.* 68, 333-341.
22. Mazarakou G. and **Georgoussi Z.** (2005) STAT5A interacts with and is phosphorylated upon activation of the μ -opioid receptor *J. Neurochem.* 93, 918-931.
23. Swevers L., Morou E., Balatsos N., Iatrou K. and **Georgoussi Z.** (2005) Functional expression of the mouse δ -opioid receptor in insect cells: development of a cell-based high throughput screening system for detection of opioid receptor ligand mimetics. *Cell Mol. Life Sciences.* 62, 919-930.
24. Morou, E and **Georgoussi Z.** (2005) Expression of the third intracellular loop of the delta opioid receptor inhibits signalling by opioid receptors and other GPCRs. *J. Pharmacol. Exp. Ther.* 315, 1368-1379.
25. **Georgoussi Z.**, Leontiadis, L., Mazarakou G., Merkouris M., Karren H. and Hamm H. (2006) Selective interactions between G protein subunits and RGS4 with the C-terminal domains of the μ - and δ -opioid receptors regulate opioid receptor signalling *Cellular Signaling* 18 (6), 771-782.

26. Douris V. Swevers, L., Labropoulou V., Andronopoulou E, **Georgoussi Z.** and Iatrou K. (2006) Stably transformed insect cell lines: tools for expression of secreted and membrane-anchored proteins and high throughput screening platforms for drug and insecticide discovery. *Advances in Virus Research* 68: 113-156.
27. **Georgoussi Z.** (2008) In "Molecular aspects of G protein-coupled receptors: Interacting proteins and function" on "Novel interactive partners regulating opioid receptor signalling beyond the G protein paradigm" (Invited review) Nova Science publishers (eds F. Ciruela and R. Lujan) Chapter 6, 169-206.
28. **Georgoussi Z.** Leontiadis, L. J. Georganta, E.M., Papakonstantinou, M. Fourla, D-D Sarris, M., Agalou A. (2008) "Chimeric peptides corresponding to intracellular regions of opioid receptors as "baits" for screening novel receptor-interacting partners". 6th Hellenic Forum on Bioactive peptides (ed. P. A. Kordopatis), 83-88.
29. Leontiadis L J., Papakonstantinou M.P. **Georgoussi Z.** (2009) Regulator of G protein signalling 4 confers selectivity to specific G proteins to of the μ - and δ -opioid receptor signalling. *Cellular Signaling* 21 1218-1228.
30. Pasquinucci L., Prezzavento O., Marrazzo A., Amata E., Ronsisvalle S., Tosco P., **Georgoussi Z.**, Fourla D-D, Aricò G. and Ronsisvalle G. (2010) Benzomorphan-based opioid ligands with mixed μ agonist/ δ antagonist activity, *J. Biorg. Med. Chem.* doi:10.1016, 18: 4975-4982.
31. Georganta E-M. Agalou A., **Georgoussi Z.** (2010) Multi-component signaling complexes of the δ -opioid receptor with STAT5B and G proteins. *Neuropharmacology* 59, 139-148.
32. Tsitoura P. Andronopoulou, E. Tsikou, D. Agalou, A. Papakonstantinou, M-P Kotzia, G.A. Labropoulou, V. Swevers, L. **Georgoussi, Z.** and Iatrou K. (2010) Expression and Membrane Topology of Anopheles gambiae Odorant Receptors in Lepidopteran Insect Cells. *PLoS ONE*, 5(11): e15428.
33. Vandormael B, Fourla D, Gramowski A, Weiss D, **Georgoussi Z.** and Tourwé D. (2011) Design and Synthesis of Dmt1-[dermorphin] tetrapeptide as μ/δ opioid receptor agonists. *J. Med.Chem.* 54, 7848-59
34. Pasquinucci L., Parenti, C., Turnaturi, R., Aricò, G., Marrazzo A., Prezzavento O., Ronsisvalle S., **Georgoussi Z.**, Fourla D-D., Scoto G-M., and Ronsisvalle G. (2012) The benzomorphan-based LP1 ligand is a suitable MOR/DOR agonist for chronic pain treatment *Life Sciences*, 90: 66-70.
35. **Georgoussi Z.**, Georganta, E-M., Milligan, G. (2012). The other side of opioid receptor signalling: Regulation by protein-protein interaction. *Curr. Drug Targets*, 13, 80-102.
36. Fourla D-D., Papakonstantinou M.P., Vrana, S. **Georgoussi, Z.** Selective interactions of the C-termini of the δ - and μ -opioid receptor signaling. (2012) *Cell. Signal.* Dec;24(12):2315-28.
37. Kritharidou A., **Georgoussi Z.**, Tsamis C., and Makarona E. (2013) Zinc oxide nanostructures as low-cost templates for neuronal circuit. *Proc. SPIE* 8765, BioMEMS and Medical Micro devices, 87650G doi:10.1117/12.2017620 (EMT103).
38. Georganta E.M. Tsoutsi, L., Gaitanou M. and **Georgoussi Z.** (2013) δ -opioid receptor activation leads to neurite outgrowth and neuronal differentiation via a STAT5B-Gai/o pathway. *J. Neurochem.* doi: 10.1111/jnc.12386. [Epub ahead of print] 127 (3), 329-341.

39. Papakonstantinou M. P., Karoussiotis C., **Georgoussi Z.** (2015) RGS2 and RGS4 proteins: New modulators of the κ -opioid receptor signaling. *Cell Signal.* 27(1): 104-114.
40. Diamantopoulos P., Sofotasiou M., **Georgoussi Z.**, Giannakopoulou P., Pallaki P., Kalala F., Kyrtsonis M-C., ...and Viniou A. (2016) Prognostic significance of Signal Transducer and Activator of Transcription 5a and 5b expression in Epstein-Barr virus positive patients with Chronic Lymphocytic Leukemia. *Cancer Med.* 5(9): 2240-2248. doi.org/10.1002/cam4.804
41. Pasquinucci L., Turnaturi, R., Aricò G., Parenti C., Pallaki P., **Georgoussi Z.**, Ronsisvalle S. (2016) Evaluation of N-substituent structural variations in opioid receptor profile of LP1 antagonists. *J. Biorg. Med. Chem.* 24(12): 2832-2842. doi.org/10.1016/j.bmc.2016.05.005
42. Pasquinucci L. Turnaturi R., Prezzavento O., Arena E. Aricò G., **Georgoussi Z.** and Parenti C. (2017) Development of novel LP1-based analogues with enhanced delta opioid receptor profile. *J. Biorg. Med. Chem.* 25(17):4745-4752 doi.org/10.1016/j.bmc.2017.07.021
43. Pallaki P., Georganta E.M., Serafimidis I., Papakonstantinou M.P., Papanikolaou V., Koutloglou S., Papadimitriou E., Agalou A., Tserga A., Symeonof A., Thomaidou D., Gaitanou M. **Georgoussi Z.** (2017) A novel regulatory role of RGS4 in STAT5B activation, neurite outgrowth and neuronal differentiation. *Neuropharmacology* 117:408-421 doi.org/10.1016/j.neuropharm.2017.02.012
44. Turnaturi R., Parenti C., Prezzavento O., Marrazzo A., Pallaki P., **Georgoussi Z.**, Amata E., Pasquinucci L. (2018) Synthesis and SAR Relationships of LP1 Derivatives: N-Methyl-N-phenylethylamino Analogues as Novel MOR Agonists. *Molecules.* 16:23(3) [doi:10.3390/molecules23030677](https://doi.org/10.3390/molecules23030677)
45. Pasquinucci L., Parenti C., Amata E., Georgoussi Z., Pallaki P., Camarda V., Calò G., Arena E., Montenegro L., Turnaturi R. (2018) Synthesis and structure-activity relationships of (-)-cis-N-normetazocine-based LP1 derivatives. *Pharmaceuticals* 11(2):40 doi.org/10.3390/ph11020040
46. Karoussiotis C. Marti-Solan M., Selent J. and Georgoussi Z. (2020) A highly conserved δ -opioid receptor region determines RGS4 interaction. *FEBS J* 287(4):736-748 doi.org/10.1111/febs.15033
47. Pasquinucci L., Parenti C., Ruiz-Cantero M. C., **Georgoussi Z.**, Pallaki P., Cobos E.J., Amata E., Marrazzo A., Prezzavento O., Arena E., Dichiara M., Salerno L., Turnaturi R. (2020) Novel N-Substituted Benzomorphan-Based Compounds: From MOR-Agonist/DOR-Antagonist to Biased/Unbiased MOR Agonists. *Med. Chem. Lett* [doi: 10.1021/acsmchemlett.9b00549](https://doi.org/10.1021/acsmchemlett.9b00549)
48. Pasquinucci L, Parenti C, **Georgoussi Z.**, Reina L, Tomarchio E, Turnaturi R. (2021) LP1 and LP2: Dual-Target MOPr/DOPr Ligands as Drug Candidates for Persistent Pain Relief. *Molecules* 26(14):4168. doi: 10.3390/molecules26144168.
49. Georgoussi Z., Karoussiotis C., Sotiriou A., Papavranoussi-Daponte D., Polissidis A.V., Nikolettou V. (2022). "The role of κ -Opioid Receptor-Induced Autophagy in Synaptic Alterations" *submitted*

PROCEEDINGS IN INTERNATIONAL CONFERENCES (2012-today)

1. Z. Georgoussi, M.-P. Papakostandinou, D.-D. Furla, S.-M. Vrana, A. Agalou (2012) Spinophilin associates with the C-terminal tail of δ - and μ -opioid receptors to differentially modify their signalling, 8th FENS 2012, 14-18 July, Barcelona.
2. M.P. Papakonstantinou, D.D. Furla, S.M. Vrana, L.J. Leontiadis & Z. Georgoussi. (2012) Chimeric peptides corresponding to intracellular regions of opioid receptors as “baits” for screening novel receptor-interacting partners, 32nd European Peptide Symposium, 2nd to 7th September, Athens.
3. Papakonstantinou M., Leontiadis L., Vrana, S.M., Tsoutsi L. and Georgoussi Z. (2012) Regulator of G protein signaling (RGS) proteins-opioid receptor interactions: drug targets modulating opioid receptor signaling. International Conference on Chemistry for Health 9 – 14 September 2012, National Hellenic Research Foundation, Athens (Oral Presentation).
4. E. Makarona, A. Kritharidou, C. Tsamis and Z. Georgoussi (2012) “Zinc Oxide Nanostructured Substrates as Alternative Low-cost Templates for the Development of Cell-based Circuits” Eurosensors XXVI, Krakow, Poland
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