

CURRICULUM VITAE

Name: **GEORGIOS**
 Surname: **PAMPALAKIS**
 Date of Birth: 2 April 1977
 Place of Birth: Athens, Greece
 Address: Xanthou 7, Thessaloniki, Greece
 Cellular: +30 6974642546
 E-mail: gpampalakis@pharm.auth.gr
 Position: Assistant Professor, Department of Pharmacy
 Aristotle University of Thessaloniki

**METRICS**

h-index: 28, Citations: 2689 (Google Scholar), h-index: 24, Citations: 1970 (Scopus)

Number of papers: 56, Book chapters: 2, Patents: 2, Genbank/PDB submissions: 9

EDUCATION

2000: **B.Sc. Chemistry** (Excellent), Department of Chemistry, University of Patras
 2000-2002: **M.Sc. Pharmaceutical Biotechnology**, Department of Pharmacy, University of Patras
 2002-2005: **Ph.D.** Department of Pharmacy, University of Patras

RESEARCH AND PROFESSIONAL EXPERIENCE

7/2/2018-: **Assistant Professor**, Department of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece
 2016-2017: **Post Doctoral Fellow**, Department of Pharmacy, University of Patras, Greece (c/o Assoc Prof Georgia Sotiropoulou). Role of KLK5 in peeling skin disease (PSD).
 2015-2016: **Post Doctoral Fellow**, Department of Pharmacy, University of Patras, Greece (c/o Assoc Prof Georgia Sotiropoulou). Participation in a program funded by the Parkinson Disease Foundation to study the role of KLK6 on a-synuclein turnover.
 2011-2014: **Post Doctoral Fellow**, Department of Pharmacy, University of Patras, Greece (c/o Assoc Prof Georgia Sotiropoulou). Participation in a program funded by the Greek Secretariat of Research and Technology and E.U. awarded to G. Pampalakis to study the role of KLK5 in Netherton Syndrome.
 2009-2011: **Post Doctoral Fellow**, Department of Pharmacy, University of Patras, Greece (c/o Prof Sofia Antimisiaris). Participation in a FP7 program to develop immunoliposomes that cross the blood-brain barrier.
 2007-2009: **Post Doctoral Fellow**, Leslie Dan Faculty of Pharmacy, University of Toronto, Toronto, Ontario, Canada (c/o Prof Shana O. Kelley). Development of nanoelectrochemical biosensors for the analysis of proteins and nucleic acids.
 2/2-20/8/2002 **Research Associate**, Laboratory of Clinical Biochemistry, Department of Pathology and Laboratory Medicine, Mount Sinai Hospital, Toronto, Ontario, Canada (c/o Prof Eleftherios P. Diamandis)

MILITARY SERVICE

2006-2007: **Military Service**, Greek Air Forces (Sergeant) Fuel and Lubricant analysis in Greek Air Forces Chemical Laboratories

LANGUAGES

Greek (native), English (fluent), TOEIC (Test of English for International Communications): score 900/990

TEACHING EXPERIENCE

- 2018-** **Assistant Professor teaching** «Pharmaceutical Biotechnology» 7th semester, «Pharmaceutical Plant Biotechnology» 8th semester, «Cell Biology» 2nd semester, «Molecular Biology» 3rd semester, Department of Pharmacy, Aristotle University of Thessaloniki and the post-graduate course «Pharmaceutical Biotechnology-Molecular Techniques for the Analysis of Biomolecules»
- 2015-2016** **University Fellow for teaching** «Pharmaceutical Biotechnology» 7th semester, and «Cell Biology» 2nd semester, Department of Pharmacy, University of Patras
- 3/2011-6/2011** **Lecturer P.D. 407/80** «Molecular Biology-Genetics» 4th semester, Department of Pharmacy, University of Patras
- 8/2011-12/2011** **Hellenic Open University (EAP), Supporting teaching staff for** Undergraduate Laboratory Training in Biology
- 10/2011-12/2011** **Lecturer P.D. 407/80** «Pharmaceutical Biotechnology» 7th semester, Department of Pharmacy, University of Patras
- 1/3-31/5/2010** **Lecturer P.D. 407/80** «Molecular Biology-Genetics» 4th semester, Department of Pharmacy, University of Patras

Teaching Handouts: Georgia Sotiropoulou and Georgios Pampalakis (2010) Laboratory Notes and Experiments for Undergraduate course «Molecular Biology-Genetics»-Molecular Biology (Part I)

Teaching Assistance: 2004-2005, 2001-2002, 2000-2001, Teaching Assistant in Lab training of undergraduate Pharmacy students, Department of Pharmacy, University of Patras, Undergraduate Course: "Pharmaceutical Biotechnology"

Trainer in the Postgraduate Training Course on Experimental Animal Handling (2014, 2015, 2016 and 2017) (University of Patras)

RESEARCH INTERESTS

- Molecular biotechnology
- Synthesis and evaluation of organophosphate-based Activity-Based Probes for proteases such as kallikrein-related peptidases (KLKs)
- Biochemical characterization of proteases especially KLKs
- Identification of biochemical pathways that involve KLKs with new approaches
 - animal models
 - *omics*: proteomics and degradomics
- Protein engineering
- Proteinopathies (Parkinson Disease and Amyotrophic Lateral Sclerosis)
- Delineation of biochemical pathways leading to skin desquamation under normal and pathological conditions
- Analysis of biomolecules with nanotechnology
- Isolation and characterization of KLK-like-proteases from snake venoms (venomics)
- Investigation of mechanisms that control gene expression

- Chemobrionics
- Biotechnological applications of new chemobrionic systems

FUNDING-RESEARCH GRANTS

- 13-4-2018 COST European Coopertion in Science and Technology OC-2017-1-22288 “Chemobrionics” (Partner) (4 years)
- 22-3-2018 ELIDEK (Greek Secretariat of Reseach and Technology) “ α -synuclein prion-like particles: in vivo turnover and infectivity (36 months)”
- 10-8-2011 Competitive Postdoctoral Research Grant funded by the Greek Secretariat of Research and Technology and EU (LS4-2139; 2012-2015).
Project Title: Delineation of Klk5-mediated proteolytic pathways in skin desquamation (Akronym: Skink5) (3 years)

PROFESSIONAL AFFILIATIONS

American Association for Cancer Research (Associate Member 2011-)
International Proteolysis Society (Member in-Training, 2007-)
Hellenic Association of Biochemistry and Molecular Biology (2003-)
Association of Hellenic Chemists (2000-)

PRIZES-HONORS

- 25-1-2018 Empirikio Idryma Prize (with Assoc Prof Georgia Sotiropoulou)
- 3-11-2012 Best poster award «George Paxinos» Ximerakis M, **Pampalakis G**, Roumeliotis T, Stefanis L, Garbis SD, Sotiropoulou G, Vekrellis K «Insights into the mechanisms of secreted α -synuclein clearance» Hellenic Society for Neurosciences 2-3 November 2012.
- 2-9-2009 Best poster award, Third International Kallikrein Symposium, Munich (30 August -2 September, 2009), IKS2009 **Pampalakis G**, Prosnikli E, Agalioti T, Vlahou A, Zoumpourlis V, Sotiropoulou G. «Functional Roles of human kallikrein-related peptidase 6 in breast cancer»
- 24-5-2007 Best poster award second Biosciences Conference, University of Patras, Greece
- 14-5-2006 Leonidas Zervas Fellowship for achievements in Bioorganic and Protein Chemistry
- 1996-2000 Honorary Fellowship from IKY (Greek National Fellowship Foundation)

REVIEWER FOR SCIENTIFIC JOURNALS & CONFERENCE PROCEEDINGS

A. Journals

Clinical Chemistry (2), Journal of Biomedical Nanotechnology (5), PLoS One (4), BMC Cancer (3), Anticancer Agents in Medicinal Chemistry (2), International Journal of Biological Sciences (1), Journal of Drug Delivery (2), Clinical Chemistry and Laboratory Medicine (3), Acta Histochemica (1), International Journal of Molecular Sciences (1), Journal of Molecular Biochemistry (1), Expert Review of Proteomics (1), Biomarkers in Medicine (3), Expert Opinion on Drug Delivery (1), Molecular Cancer (1), Expert Opinion on Therapeutic Targets (1), Critical Reviews in Clinical Laboratory Sciences (1), Electroanalysis (1), British Journal of Dermatology (1), Journal of Pathology (1), Neoplasia (1), Alexandria Journal of Medicine (1), Biomaterials (1), Oncotarget (1), F1000Res (3), Biological Chemistry (1), Scientific Reports (1), Human Mutation (3), Human Genomics (1), Human Genomics (4) Biomed Research International (1) Drugs of Today (1), Journal of Oncology (1), Journal of Translational Medicine (1), Journal of Alzheimer’s Disease (1), Molecular Oncology (1), International

Journal of Macromolecules (1), Clinical Biochemistry (3), Natural Products Communications (2), Progress in Neuropsychopharmacology and Biological Psychiatry (1), Artificial Life (1), ChemsystemsChem (2), Journal of Visualized Experiments (1), Journal of Proteome Research (1), Expert Opinion on Orphan Drugs (1), Journal of Biological Research (1)

In parenthesis: the number of reviewed articles

B. Conferences

Computational Bioscience (CompBio 2011), Cambridge, United Kingdom
Jul 11-13, 2011

EDITORIAL BOARD MEMBER

BMC Chemistry (2020-)

GRANT REVIEWER

- Marie Curie grants
- COST
- National Grants “Research-Create-Innovate”

TECHNICAL EXPERTISE

Analytical Biochemistry. Affinity chromatography, HPLC, TLC-HPTLC, SDS-PAGE, Western blot, ELISA, zymography, fluorometry, clinical analysis (cholesterol, uric acid, triglycerides etc)

Basic Biochemistry-Molecular Biology. Gene cloning, DNA/RNA isolation, PCR/RT-PCR, Real-time PCR, oligonucleotide radiolabeling, hybridization, Northern and Southern blot, autoradiography, DNA constructs, PCR mutagenesis, Gene delivery (stable and transient transfection), Recombinant adenoviruses, Analysis of promoters (RACE, RLM-RACE, CAT assays, CAT-ELISA, DNA methylation analysis, EMSA, ChIP)

Recombinant protein production. Production of recombinant proteins in the methylotrophic yeast *Pichia pastoris*, in bacteria and in human cells, protein engineering

Cell culture. Cancer and endothelial cells

Cell assays. Growth curves, cell toxicity, soft agar, cellular motility (wound scratch), *in vitro* blood-brain barrier models

Animal models-Transgenic animals. Orthotopic models for breast cancer investigation, metastasis models (tail vein), genotyping

Chemical Synthesis of Peptides. Fmoc solid state synthesis

Synthesis of organophosphates. Michaelis-Arbuzov and Oleksyszyn reactions, fluorinations for P-F bond generation (synthesis of serine protease inhibitors and activity-based probes)

Electroanalytical Chemistry. Cyclic voltammetry, chronocoulometry, differential pulse voltammetry, square wave voltammetry

Scanning and Transmission Electron microscopy (SEM, TEM). Analysis of biological materials with SEM, analysis of nanomaterials with SEM, negative staining for liposome analysis in TEM, immunoelectron microscopy, OsO₄ staining

Histology-Histochemistry. Mouse and human skin histology, immunohistochemistry, *in situ* zymography

Chemical carcinogenesis. Chemical carcinogenesis models with DMBA/TPA, DMBA alone, MCA (skin and vagina)

Bioinformatics. NCBI, ENSEMBL, EST databases, RasMol, SPDBV, EXPASY, Scaffold (proteomics analysis), Image J, ChemDraw

RESEARCH LECTURES

1. **Georgios Pampalakis**, Eleni Zingkou, Georgia Sotiropoulou, «*Design of therapeutic approaches for Netherton Syndrome and evaluation in animal models*» 3rd Clinical Immunology School, 9-11 December 2016 Vitina, Greece
2. **Georgios Pampalakis**, Vasia-Samantha Sykioti, Methodios Ximerakis, Ioanna Stefanakou-Kalakou, Ronald Melki, Kostas Vekrellis, Georgia Sotiropoulou. «*KLK6 proteolysis is implicated in regulation of the turnover and uptake of extracellular alpha-synuclein species*». 67th Conference of the Hellenic Society of Biochemistry and Molecular Biology 25-27 November 2016, Ioannina, Greece
3. **Georgios Pampalakis** «*Insights into epidermal proteolysis, inflammation and cancer*» National Research Foundation, 13 February, 2015, Athens, Greece
4. **Georgios Pampalakis** «*Insights into extracellular proteolysis, skin inflammation and cancer*» Jeudi 3 Avril 2014 Centre de Recherche sur la Peau, Hopital Saint Louis, Paris, France
5. Ximerakis M, **Pampalakis G**, Roumeliotis T, Stefanis L, Garbis SD, Sotiropoulou G, Vekrellis K «*Extracellular α -synuclein is resistant to direct KLK6 proteolysis*» 5th International Symposium on Kallikreins and Kallikrein-Related Peptidases 28/9-1/10/2013 Toronto, Ontario, Canada.
6. **Pampalakis G**, Sotiropoulou G «*Proteolytic pathways: Pathophysiological functions, pharmacological targeting. The example of KLK5*» Meeting of the Post-Graduate student of the Department of Pharmacy, 23-1-2012, University of Patras, Rion-Patras, Greece
7. **Pampalakis G**, Osahon O, Papadodima O, Chatziioannou A, Zoumpourlis V, Sotiropoulou G «*Biochemical pathways underlying breast cancer suppression by KLK5*». International Kallikrein Symposium ISK2011, 2-4, September 2011, Rhodes, Greece.
8. **Pampalakis G**. First Training Course, Nanoparticles and Alzheimer's Disease, September 5-10, 2009 (University of Patras) «*In vitro models for the Blood Brain Barrier-Targeting the Blood Brain Barrier*»
9. Iacovos Michael, **Georgios Pampalakis**, Angeliki Magklara, Georgia Sotiropoulou, Eleftherios P. Diamandis. «*Human kallikrein 5, an extracellular matrix degrading enzyme, is involved in semen liquefaction and prostate cancer progression*». 9th Scientific Conference of the Hellenic Connective Tissue Society 10-12 May 2007, Athens, Greece
10. G. Sotiropoulou, **G. Pampalakis**, M. Arampatzidou, E. Prosnikli, A. Vlahou, V. Zoumpourlis «*Kallikrein 6 has a tumor suppressor role in breast cancer*». 3th Hellenic Anticancer Conference, 26-29 April 2007, Athens, Greece
11. **Pampalakis G**, Arampatzidou M, Sotiropoulou G. Computational cloning and analysis of human kallikrein 6 orthologue genes. Computational Methods in Molecular Biology: Theory and Applications (ICCMSE 2006), October 28, 2006, Chania, Crete, Greece
12. **G. Pampalakis**, T. Agalioti, G. Sotiropoulou «*Epigenetic silencing of human kallikrein 6 gene underlies a tumor suppressor role in breast cancer*». 57th Conference of the Hellenic Society of Biochemistry and Molecular Biology 9-11 December 2005, Athens, Greece

13. **G. Pampalakis**. «Mechanisms of KLK6 gene down-regulation in breast cancer cell lines» 27-9-2005 Presentation at Professor's Michael Tyers Laboratory. Mount Sinai Hospital, Toronto, Ontario, Canada
14. I. Michael, **G. Pampalakis**, A. Magklara, E.P. Diamandis, G. Sotiropoulou. «Biochemical and enzymatic characterization of human kallikrein 5, a new serine protease involved in cancer progression». 56th Conference of the Hellenic Society of Biochemistry and Molecular Biology 25-11-2004, Larisa, Greece
15. **G. Pampalakis**, E. Papageorgiou, E.P. Diamandis, G. Sotiropoulou. «Regulation KLK6 gene expression through DNA methylation in breast cancer cell lines». 55th Conference of the Hellenic Society of Biochemistry and Molecular Biology 14-11-2003, Athens, Greece
16. **G. Pampalakis**, G. Sotiropoulou, «Pharmacological activation of protease M in metastatic breast tumors with genomic DNA demethylation». 11th Hellenic Pharmaceutical Conference 30-3-2003, Athens, Greece

ORGANIZATION OF SCIENTIFIC CONFERENCES

1. International Kallikrein Symposium ISK2011 (Local Organizing Committee) 2-4, September 2011, Rhodes, Greece
2. 5th Meeting of the International Proteolysis Society (Organizing Committee) Conference and Cultural Center of the University of Patras 20-24 October 2007, Patras, Greece
3. Satellite Postgraduate Course on «Proteomics: Methodologies and Applications» (Organizing Committee) 19-20 October 2007, Patras, Greece
4. Satellite Postgraduate Course on «Enzyme Mechanisms and Kinetics» (Organizing Committee) 19-20 October 2007, Patras, Greece

LIST OF PUBLICATIONS (in peer-review journals)

* corresponding or co-corresponding author

equal contribution

1. Sotiropoulou G*, Zingkou E, **Pampalakis G***. (2021) Redirecting drug repositioning to discover innovative cosmeceuticals. *Exp Dermatol* 30: 628-644 [IF₂₀₁₉=3,368]
2. **Pampalakis G**, Zingkou E, Zoumpourlis V, Sotiropoulou G. (2021) Ectopic expression of KLK6 in MDA-MB-435 melanoma cells reduces tumorigenicity in vivo. *Pathol Res Pract* 217: 153276 [IF₂₀₁₉=2,050]
3. Angelis G, Kordopati GG, Zingkou E, Karioti A, Sotiropoulou G, **Pampalakis G***. (2021) Plausible emergence of biochemistry in Enceladus based on chemobrionics. *Chemistry* 27: 600-604 [IF₂₀₁₈=5,160]
4. Zissi GD, Angelis G, **Pampalakis G***. (2020) The generation and study of a gold-based chemobrionic plant-like structure. *ChemSystemsChem* [IF pending] (in press)
5. Zingkou E, **Pampalakis G**, Sotiropoulou G. (2020) Cathelicidin represents a new target for manipulation of skin inflammation in Netherton syndrome. *Biochim Biophys Acta Mol Basis Dis* 1866: 165831 [IF₂₀₁₈=4,328]
6. Angelis G, **Pampalakis G***. (2020) A self-assembled planar chemical garden in a 3D solution. *ChemistrySelect* 5: 3454-3457 [IF₂₀₁₈=1,716]

7. Zingkou E, **Pampalakis G***, Sotiropoulou G*. (2020) Exacerbated dandruff in the absence of kallikrein-related peptidase 5 protease. *J Dermatol* 47: 311-313 [IF₂₀₁₈=3,377]
 8. Angelis G, Zayed DN, Karioti A, Lazari D, Kanata E, Sklaviadis T, **Pampalakis G***. (2019) A closed chemobronic system as a biochemical delivery platform. *Chemistry* 25: 12916-12919 [IF₂₀₁₈=5,160]
 9. Chen H, Sells E, Pandey R, Abril E, Hsu CH, Krouse RS, Nagle RB, **Pampalakis G**, Sotiropoulou G, Ignatenko IA. (2019) Kallikrein 6 protease advances colon tumorigenesis via induction of the high mobility group A2 protein. *Oncotarget* 10: 6062-6078 [IF₂₀₁₆=5,168]
 10. **Pampalakis G**, Zingkou E, Kaklamanis L, Spella M, Stathopoulos GT, Sotiropoulou G. (2019) Elimination of KLK5 inhibits early skin tumorigenesis by reducing epidermal proteolysis and reinforcing epidermal microstructure. *Biochim Biophys Acta Mol Basis Dis* 1865: 165520 [IF₂₀₁₈=4,328]
 11. Zingkou E, **Pampalakis G**, Charla E, Nauroy P, Kiritsi D, Sotiropoulou G. (2019) A proinflammatory role of KLK6 protease in Netherton Syndrome. *J Dermatol Sci* 95: 28-35 [IF₂₀₁₈=3,986]
 12. **Pampalakis G**, Zingkou E, Sidiropoulos KG, Diamandis EP, Zoumpourlis V, Yousef GM, Sotiropoulou G. (2019) Biochemical pathways mediated by KLK6 protease in breast cancer. *Mol Oncol* 13: 2329-2343 [IF_{2017/2018}=5,264]
 13. **Pampalakis G***. (2019) From chemical gardens to quasibiological inorganic cells. *ChemistrySelect* 4: 2802-2805 [IF₂₀₁₈=1,716]
 14. **Pampalakis G***, Mitropoulos K, Xeromerisiou G, Dardiotis E, Deretzi G, Anagnostouli M, Katsila T, Rentzos M, Patrinos G*. (2019) New molecular diagnostic trends and biomarkers for Amyotrophic Lateral Sclerosis. *Hum Mutat* 40: 361-373 [IF_{2017/2018}=5,359]
 15. Zingkou E, **Pampalakis G**, Kiritsi D, Valari M, Jonca N, Sotiropoulou G. (2019) Activography reveals aberrant proteolysis in desquamation diseases of differing genetic backgrounds. *Exp Dermatol* 28: 86-89 [IF₂₀₁₇=2,868]
 16. Khoury N, Zingkou E, **Pampalakis G**, Zoumpourlis V, Sotiropoulou G. (2018) KLK6 protease accelerates skin tumor formation and progression. *Carcinogenesis* 39: 1529-1536 [IF₂₀₁₈=4,004]
 17. **Pampalakis G**, Zingkou E, Sotiropoulou G. (2018) KLK5, a novel potential suppressor of vaginal carcinogenesis. *Biol Chem* 399: 1107-1111 [IF₂₀₁₈=3,014]
 18. Mitropoulos K, Katsila T, Patrinos GP, **Pampalakis G***. (2018) Multi-omics for biomarker discovery and target validation in biofluids for amyotrophic lateral sclerosis diagnosis. *OMICS* 22: 52-64 [IF₂₀₁₈=2,610]
 19. **Pampalakis G**, Kiritsi D, Zingkou E, Valari M, Sotiropoulou G. (2017) Enhanced proteolytic activities in acral peeling skin syndrome: A role of transglutaminase 5 in epidermal homeostasis. *J Invest Dermatol* 137: 1808-1811 [IF₂₀₁₇=6,448]
- A Figure from this article was chosen from the front cover of this issue of the journal.
20. **Pampalakis G***, Sotiropoulou G*. (2017) Insights into the regulation of proteolytic pathways in skin differentiation. *Br J Dermatol* 176: 1433-1434 [IF₂₀₁₇=6,129]
 21. **Pampalakis G***, Zingkou E, Vekrellis K, Sotiropoulou G*. (2017) "Activography": a novel, versatile and easily adaptable method for monitoring enzymatic activities *in situ*. *Chem Commun* 53: 3246-3248 [IF₂₀₁₇=6,290]
 22. **Pampalakis G**, Sykioti VS, Ximerakis M, Stefanakou-Kalakou I, Melki R, Vekrellis K, Sotiropoulou G. (2017) KLK6 proteolysis is implicated in the turnover and uptake of extracellular alpha-synuclein species. *Oncotarget* 8: 14502-4515 [IF₂₀₁₆=5,168]
 23. Sidiropoulos KG, Ding Q, **Pampalakis G**, White NM, Boulos P, Sotiropoulou G, Yousef G. (2016) KLK6-regulated miRNA networks activate oncogenic pathways in breast cancer subtypes. *Mol Oncol* 10: 993-1007 [IF₂₀₁₆=5,314]

24. **Pampalakis G*** (2016) The generation of an organic inverted chemical garden. *Chemistry* 22: 6779-6782 [IF₂₀₁₆=5,317]
25. **Pampalakis G**, Politi AL, Papanastasiou A, Sotiropoulou G. (2015) Distinct cholesterologenic and lipidogenic gene expression patterns in ovarian cancer - A new pool of biomarkers. *Genes Cancer* 6: 472-479 [IF₂₀₁₄=4,41]
26. Furio L[#], **Pampalakis G[#]**, Michael IP, Nagy A, Sotiropoulou G, Hovnanian A. (2015) KLK5 invalidation reverses cutaneous hallmarks of Netherton syndrome. *PLoS Genet* 11: e1005389 #equal contribution [IF₂₀₁₅ =6,661]
27. Sidiropoulos KG, White NMA, Bui A, Boulos P, Sotiropoulou G, **Pampalakis G**, Ding Q, Khella H, Samuel JN, Yousef GM. (2014) Kallikrein-related peptidase 5 induces miRNA-mediated anti-oncogenic pathways in breast cancer. *Oncoscience* 1: 709-724 [IF₂₀₁₅=3,530]
28. Ximerakis M, **Pampalakis G**, Roumeliotis TI, Sykioti VS, Garbis SD, Stefanis L, Sotiropoulou G, Vekrellis K. (2014) Resistance of naturally secreted α -synuclein to proteolysis. *FASEB J* 28: 3146-3158 [IF₂₀₁₄=5,043]
29. **Pampalakis G**, Obasuyi O, Papadodima O, Chatziioannou A, Zoumpourlis V, Sotiropoulou G. (2014) The KLK5 protease suppresses breast cancer by repressing the mevalonate pathway. *Oncotarget* 15: 2390-2403 [IF₂₀₁₂=6,359]
30. Sotiropoulou G, **Pampalakis G**, Prosnikli E, Evangelatos GP, Livaniou E. (2012) Development and immunological evaluation of a novel chicken IgY antibody specific for KLK6. *Chem Cent J* 6: 148 [IF₂₀₁₂=1,312]
31. Sotiropoulou G*, **Pampalakis G*** (2012) Targeting the kallikrein-related peptidases for drug development. *Trends Pharmacol Sci* 33: 623-634 [IF₂₀₁₂=9,250]
32. Arnold S, **Pampalakis G**, Kantiotou K, Silva D, Cortez C, Missailidis S, Sotiropoulou G. (2012) One round SELEX for the generation of DNA aptamers directed to KLK6. *Biol Chem* 393: 343-353 [IF₂₀₁₂=2,683]
33. Papanastasiou AD[#], **Pampalakis G[#]**, Katsaros D, Sotiropoulou G. (2011) Netrin-1 overexpression is predictive of ovarian malignancies. *Oncotarget* 2: 363-367 #equal contribution [IF₂₀₁₁=4,784]
34. Popescu MT, Mourtas S, **Pampalakis G**, Antimisiaris SG, Tsitsilianis C. (2011) pH-responsive hydrogel/liposome soft nanocomposites for tuning drug release. *Biomacromolecules* 12: 3023-3030 [IF₂₀₁₀=5,325]
35. Canovi M, Markoutsas E, Lazar AN, **Pampalakis G**, Clemente C, Re F, Sesana S, Masserini M, Salmona M, Duyckerts C, Flores O, Gobbi M, Antimisiaris SG. (2011) The binding affinity of anti-A β 1-42 MAb-decorated nanoliposomes to A β 1-42 peptides in vitro and to amyloid deposits in post mortem tissue. *Biomaterials* 32: 5489-5497 [IF₂₀₁₀=7,882]
36. Markoutsas E[#], **Pampalakis G[#]**, Niarakis A, Romero IA, Weksler B, Couraud PO, Antimisiaris SG. (2011) Uptake and permeability studies of BBB-targeting immunoliposomes using the hCMEC/D3 cell line. *Eur J Phar Biopharm* 77: 265-274 #equal contribution [IF₂₀₁₀=4,304]
37. Pavlopoulou A, **Pampalakis G**, Michalopoulos I, Sotiropoulou G. (2010) Evolutionary history of tissue kallikreins. *PLoS One* 5: e13781 [IF₂₀₁₀=4,411]
38. Sotiropoulou G*, **Pampalakis G*** (2010) Kallikrein-related peptidases: bridges between immune functions and extracellular matrix degradation. *Biol Chem* 391: 321-331 [IF₂₀₁₀=3,603]
39. **Pampalakis G**, Diamandis EP, Katsaros D, Sotiropoulou G. (2010) Down-regulation of Dicer expression in ovarian cancer tissues. *Clin Biochem* 43: 324-327 [IF₂₀₀₉=2,019]
40. Sotiropoulou G, **Pampalakis G**, Diamandis EP. (2009) Functional roles of human kallikrein-related peptidases. *J Biol Chem* 284: 32989-32994 [IF₂₀₀₉=5,328]
Published on the occasion of the 105th anniversary of the JBC, reprinted in JBC Thematic Minireview Series Proteolytic Enzymes.
www.jbc.org/site/thematics/proteolytic_enzymes/

41. Yang H, Hui A, **Pampalakis G**, Soleymani L, Liu FF, Sargent E, Kelley SO. (2009) Direct, electronic microRNA profiling reveals differential expression profiles in 30 minutes. *Angew Chemie* 48: 8461-8464 [IF₂₀₀₉=11,829]
Research Highlights in Nature 22 October, 2009 p1030
<http://www.nature.com/nature/journal/v461/n7267/pdf/4611030b.pdf>
42. Fang Z, Soleymani L, **Pampalakis G**, Yoshimoto M, Squire JA, Sargent EH, Kelley SO. (2009) Direct profiling of cancer biomarkers in tumor tissue using a multiplex nanostructured microelectrode integrated circuit. *ACS Nano* 3: 3207-3213 [IF₂₀₀₉=7,493]
43. Sotiropoulou G, **Pampalakis G**, Lianidou E, Mourelatos Z. (2009) Emerging roles of microRNAs as molecular switches in the integrated circuit of the cancer cell. *RNA* 15: 1443-1461 [IF₂₀₀₉=5,198]
44. **Pampalakis G**, Prosnikli E, Agalioti T, Vlahou A, Zoumpourlis V, Sotiropoulou G. (2009) A tumor protective role for human kallikrein-related peptidase 6 in breast cancer mediated by inhibition of epithelial-to-mesenchymal transition. *Cancer Res* 69: 3779-3787 [IF₂₀₀₉=7,543]
45. **Pampalakis G**, Kelley SO. (2009) An electrochemical immunosensor based on antibody-nanowire conjugates. *Analyst* 134: 447-449 [IF₂₀₀₉=3,272]
46. **Pampalakis G**, Scorilas A, Sotiropoulou G. (2008) Novel splice variants of prostate-specific antigen and applications in diagnosis of prostate cancer. *Clin Biochem* 41: 591-597 [IF₂₀₀₈=1,926]
47. **Pampalakis G**, Arampatzidou M, Amoutzias G, Kossida S, Sotiropoulou G. (2008) Identification and analysis of mammalian *KLK6* orthologue genes for prediction of physiological substrates. *Comput Biol Chem* 1776: 22-31 [IF₂₀₀₈=1,837]
48. **Pampalakis G**^{*}, Sotiropoulou G^{*} (2007) Tissue kallikrein proteolytic cascade pathways in normal physiology and cancer. *Biochim Biophys Acta-Rev Cancer* 1776: 22-31 [IF₂₀₀₇=7,264]
49. **Pampalakis G**^{*}, Diamandis EP, Sotiropoulou G. (2006) The epigenetic basis for the aberrant expression of kallikreins in human cancers. *Biol Chem* 387: 795-799 [IF₂₀₀₆=2,752]
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ORIGINAL SUBMISSIONS TO INTERNATIONAL DATABASES

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1. DQ641251: Homo sapiens new PSA transcript variant, mRNA, partial cds
1221 bp mRNA linear
Pampalakis G, Sotiropoulou G. Identification of new PSA isoform.
(Direct Submission, 16-MAY-2006)
2. DQ223012: Homo sapiens kallikrein 6 precursor (KLK6) mRNA, complete cds
alternatively spliced transcript variant 3
Pampalakis G, Sotiropoulou G. (Direct Submission, 26-SEP-2005)
3. AY804248: Homo sapiens kallikrein 6 (KLK6) gene, 5' flanking region
Sotiropoulou G, **Pampalakis G**. (Direct Submission, 27-OCT-2004)
4. AY457039: Homo sapiens kallikrein 6-like mRNA, complete cds
Pampalakis G, Sotiropoulou G. Cloning of novel transcript variants of human kallikrein 6/protease M/zyme/neurosin gene (KLK6)
5. Homo sapiens kallikrein 6 precursor (KLK6) mRNA, complete cds
LOCUS: AY318867, 1517 bp mRNA linear
Pampalakis G, Diamandis EP, Sotiropoulou G. Cloning of novel transcript variants of the human kallikrein 6/protease M/zyme/neurosin gene (KLK6) (Direct Submission, 09-JUN-2003)
6. AY318868: Homo sapiens kallikrein 6-like mRNA, complete sequence
LOCUS: AY318868, 820 bp mRNA linear
Pampalakis G, Diamandis EP, Sotiropoulou G. Cloning of novel transcript variants of the human kallikrein 6/protease M/zyme/neurosin gene (KLK6) (Direct Submission, 10-JUN-2003)
7. AY318869: Homo sapiens kallikrein 6 precursor (KLK6) mRNA, complete cds
LOCUS: AY318869, 1503 bp mRNA linear
Pampalakis G, Diamandis EP, Sotiropoulou G. Cloning of novel transcript variants of the human kallikrein 6/protease M/zyme/neurosin gene (KLK6) (Direct Submission, 09-JUN-2003)
8. AY318870: Homo sapiens kallikrein 6-like mRNA, complete sequence
LOCUS: AY318870, 929 bp mRNA linear
Pampalakis G, Diamandis EP, Sotiropoulou G. Cloning of novel transcript variants of the human kallikrein 6/protease M/zyme/neurosin gene (KLK6) (Direct Submission, 10-JUN-2003)

PDB Database

9. 1GVL_A Chain A, Human Prokallikrein 6 (hK6) Prozyme Proprotease M Proneurosin
LOCUS: 1GVL_A, 223 aa PDB: molecule 1GVL (Method: X-ray Diffraction)
Gomis-Ruth FX, Bayés A, Sotiropoulou G, **Pampalakis G**, Tsetsenis T, Vigellas V, Avilés FX, Coll M.
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2. Chen H, Sells E, Cui H, Pandey, **Pampalakis G**, Sotiropoulou G, Doetschman T, Ignatenko NA. «*Human tissue kallikrein 6 enzyme activity regulates epithelial-mesenchymal transition in colon cancer*» American Association for Cancer Research, Washington, DC, April 1-5
Published in *Cancer Research* 77 (13 Supplement): 854, 2017
3. Khoury N, **Pampalakis G**, Zingkou E, Zoumpourlis V, Sotiropoulou G. «*Elimination of Klk6 inhibits the development and progression of non-melanoma skin cancer in vivo by suppression of skin inflammation*» 7th International Symposium on Kallikreins and kallikrein-related peptidases ISK2017, Tours, France, 26-29 September 2017
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5. **Pampalakis G**, Zingkou E, Valari M, Kiritsi D, Jonca N, Sotiropoulou G. «*Activography: A novel, versatile and easily adaptable histochemical method for monitoring enzymatic activities. Validation in biopsy specimens*» 7th International Symposium on Kallikreins and kallikrein-related peptidases ISK2017, Tours, France, 26-29 September 2017
6. **Pampalakis G**, Zingkou E, Charla E, Jonca N, Schilling O, Sotiropoulou G. «*Delineation of the role of the KLK5 protease in Peeling Skin Disease*» 7th International Symposium on Kallikreins and kallikrein-related peptidases ISK2017, Tours, France, 26-29 September 2017
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9. **Pampalakis G**, Zingkou E, Vekrellis K, Sotiropoulou G. «*Activography: a novel, versatile and easily adaptable diagnostic method for monitoring enzymatic activities in tissues*» Euromedlab, Athens, Greece, 11-15 June 2017
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MISCELLANEOUS PUBLICATIONS

PhD Thesis: Mechanisms of pharmacological modulation of human kallikrein 6 gene expression and analysis of DNA methylation for diagnostic applications/development of diagnostics (December 2005).

Master of Science Thesis: Study of the mechanism of transcriptional regulation of the gene encoding for protease M (November 2002).

Bachelor of Science Thesis: Comparative study of the activation of zelatinase B (MMP-9) by a trypsin-like proteinase isolated form carcinosarcoma Walker 256 (July 2000).

BOOK EDITING

Book of Abstract 5th General Meeting of the International Proteolysis Society.
 Edited by Georgia Sotiropoulou, **Georgios Pampalakis**, Maria Arampatzidou.