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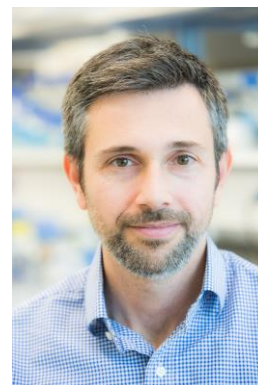
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Professional Experience

- 2017 – present** **Research Associate Professor**
National Hellenic Research Foundation
Institute of Chemical Biology
Athens, Greece
- 2019 – present** **Founder & General Manager**
ResQ Biotech Private Company
- 2013 – 2017** **Research Assistant Professor**
National Hellenic Research Foundation
Institute of Biology, Medicinal Chemistry & Biotechnology
Athens, Greece
- 2016 – present** **Visiting Professor**
University of Thessaly
Department of Biochemistry and Biotechnology
Larissa, Greece
- 2009 – 2012** **Research Lecturer**
National Hellenic Research Foundation
Institute of Biological Research & Biotechnology
Athens, Greece
- 2006 – 2009** **Post-doctoral Research Associate**
The University of Texas at Austin
Institute for Cellular and Molecular Biology
Austin – Texas, USA
Advisor: Prof. George Georgiou

Education

- 2001 – 2006** **PhD**
Department of Chemical and Biological Engineering
Princeton University

- Princeton, USA
 Thesis title: “Engineering Protein-Based Molecular Switches: *In vivo* Regulation of Protein Activity and the Construction of Simple Biosensors”
 Advisor: Prof. David W. Wood
- 1999 – 2001 **Master’s degree**
 Department of Chemical and Biological Engineering
 Princeton University
 Princeton, USA
- 1993 – 1998 **Bachelor’s degree**
 School of Chemical Engineering
 National Technical University of Athens
 Athens, Greece

Awards and distinctions

- 2018  ERC Consolidator Grant
- 2013 – present Elected Delegate of Greece to the Scientific Committee of the Section of Applied Biocatalysis - European Federation of Biotechnology
- 2005 – present Five (5) Awards for Best Conference Presentation
- 2012 – 2015 Excellence in Research Award “ARISTEIA” – General Secretariat of Research and Technology – Greece
- 2011-2015  Marie Curie Fellowship - FP7 PEOPLE International Re-integration Grant
- 2004 William R. Showalter Travel Award, Department of Chemical and Biological Engineering, Princeton University, USA

Teaching Experience

- 2010 – present Supervisor of eleven (11) post-doctoral research associates, eight (8) PhD candidates, and six (6) senior thesis students
 National Hellenic Research Foundation, Greece
- 2015 - present Lecturer – Topic: “Synthetic Biology” & “Protein Engineering” -
 Master’s course: “Bioentrepreneurship”
 University of Thessaly, Greece
- 2015 - present Lecturer – Topic: “Synthetic Biology” - Master’s course: “Systems Biology”
 Agricultural University of Athens, Greece
- 2018 - present Lecturer – Athens International Master’s Programme in Neurosciences

2015 - present	National & Kapodistrian University of Athens, Greece Lecturer – Topic: “Synthetic Biology” - Master’s course: ”Systems Biology”
2016	Agricultural University of Athens, Greece Lecturer – Topic: “Synthetic Biology” - Master’s course: ”Microbial Biotechnology”
2012	National & Kapodistrian University of Athens, Greece Guest Lecturer – Master’s course: “Molecular Biotechnology”
2011	University of Belgrade, Faculty of Chemistry, Serbia Guest Lecturer – Master’s course: “Workshop on Systems Biology” Örebro University, School of Science and Technology, Örebro Life Science Centre, Sweden
January 2004 – May 2004	Teaching Assistant – Undergraduate course: “Chemical Engineering Laboratory” (with Profs. J. Benziger & J. D. Carbeck) Princeton University, Department of Chemical and Biological Engineering, Princeton – New Jersey, USA
September 2003 – January 2004	Teaching Assistant – Undergraduate course: “An Introduction to the Principles of Chemical Engineering” (with Prof. David W. Wood) Princeton University, Department of Chemical and Biological Engineering, Princeton – New Jersey, USA
January 2001 – May 2001	Teaching Assistant – Undergraduate course: “Chemical Reaction Engineering” (with Prof. J. D. Carbeck) Princeton University, Department of Chemical and Biological Engineering, Princeton – New Jersey, USA

Supervision of Junior Researchers

Post-doctoral Research Associates

1. Dr. Maria Tsekrekou (September 2019 – present)
2. Dr. Dafni Delivoria (May 2019 – present)
3. Dr. Anastasia Galanopoulou (May 2019 – present)
4. Dr. Dimitra Zarafeta (May 2018 – present)
5. Dr. Stamatia Bellou (October 2015 – May 2017)
6. Dr. Zacharoula Linardaki (July 2015 – January 2016)
7. Dr. Kalliopi Kostelidou (October 2013 – June 2016)
8. Dr. Michael Fasseas (November 2014 – September 2015)
9. Dr. Lakshmi Tripathi (October 2014 – July 2015)
10. Dr. Evgenia Megalou (March 2013 – March 2014)
11. Dr. Panayota Stathopoulou (February 2013 - February 2014)

PhD Theses

Completed

1. Mrs. Dimitra Gialama

2011-2016. School of Chemical Engineering, National Technical University of Athens

Thesis title: "Application of systems biotechnology approaches for the development of specialized *Escherichia coli* for recombinant membrane protein production"

2. Mrs. Dimitra Zarafeta

2012-2017. School of Chemical Engineering, National Technical University of Athens

Thesis title: "Discovery and characterization of thermostable hydrolytic enzymes from metagenomic libraries derived from extreme environments"

3. Mr. Ilias Matis

2012–2018. School of Chemical Engineering, National Technical University of Athens

Thesis title: "Biosynthesis and Genetic Selection of Cyclic Peptides with Potential Therapeutic Effects Against Alzheimer's Disease: Inhibitors of A β aggregation"

4. Mrs. Dafni Chrysanthi Delivoria

2012–2019. School of Chemical Engineering, National Technical University of Athens

Thesis title: "Molecular evolution of potentially therapeutic compounds against protein misfolding diseases"

In progress

5. Mrs. Myrsini Michou

2016–present. Department of Biochemistry and Biotechnology, University of Thessaly

Thesis title: "Development of optimized bacterial strains for recombinant production of prokaryotic and eukaryotic integral membrane proteins"

6. Mrs. Maria Giannakou

2018–present. Department of Biology, National & Kapodistrian University of Athens

Thesis title: "Application of synthetic biology and molecular evolution approaches for the discovery potentially therapeutic compounds against neurodegenerative diseases caused by protein aggregation"

7. Mrs. Eleni Vasilopoulou

2018–present. Department of Biochemistry and Biotechnology, University of Thessaly

Thesis title: "Development of specialized bacterial strains for enhanced recombinant membrane protein production"

8. Mrs. Awa Diop

2019–present. School of Life Sciences and Health, Aix-Marseille University, France

Thesis title: "Discovery of aggregation inhibitors of polyglutaminated huntingtin as potential therapeutic molecules against Huntington's disease"

Research Assistants

1. Mrs. Alice Papakonstantinou (2014)

2. Mr. Athanasios Lampropoulos (2015)

3 Mrs. Stefania Panoutsou (2012-2017)

4. Mrs. Lyda Krikoni (2018)

5. Mr. Aristeidis Michoglou (2019)

Senior Theses

1. Mrs. Amalia Zafeiri (2013)
Department of Biology, National & Kapodistrian University of Athens
2. Mr. Dimitrios Kissas (2015)
School of Chemical Engineering, National Technical University of Athens
3. Mrs. Frantzeska Sietou (2017)
School of Chemical Engineering, National Technical University of Athens
4. Mr. Angelos Stergios (2017)
Department of Biological Applications and Technologies, University of Ioannina
5. Mrs. Melina Leni (2018)
Department of Biological Applications and Technologies, University of Ioannina
6. Mr. Michael Kyknas (2018)
Department of Biochemistry and Biotechnology, University of Thessaly

Internships

1. Mr. Emmanouil Koutsos (2019); 2. Mrs. Katerina Kasouni (2016); 3. Mrs. Alice Iliadou (2015);
4. Mrs. Athina Stavridou (2015); 5. Mrs. Aydan Karakaya (2015); 6. Mrs. Katerina Prokopou (2015);
7. Mrs. Maria Zacharopoulou (2015); 8. Mrs. Danae Moschidi (2015); 9. Mrs. Ioanna Karagiannaki (2015);
10. Mr. Constantinos Asimakopoulos (2014); 11. Mrs. Cleopatra Avrambou (2014);
12. Mrs. Evmorfia Kilimtzi (2013); 13. Mr. Ioannis Michailides (2013)

Research Interests

- Synthetic Biology
- Chemical Biology
- Biocatalysis
- Protein misfolding and aggregation
- Discovery and preclinical development of chemical rescuers of disease-associated protein misfolding and aggregation with potentially therapeutic properties against Alzheimer's disease, Parkinson's disease, cancer, amyotrophic lateral sclerosis and other disorders
- Enzyme discovery and engineering
- Directed protein evolution
- Development of specialized microbial strains for the production of hard-to-express recombinant proteins
- Microbial production of integral membrane proteins for biochemical and structural studies
- Design and development of protein-based biosensors
- Chemistry-directed emergence of complex phenotypes in microbial cells

Publications in peer-reviewed journals

*Denotes corresponding author

1. Zarafeta, D., Galanopoulou, A., Kaili, S., Chegkazi, M.S., Chrysina, E.D., Kolisis, F.N., Hatzinikolaou, D.G.*, Skretas, G.* 2019. XynDZ5: A new thermostable GH10 xylanase. **Frontiers in Microbiology**. In revision.

2. Giannakopoulou, A., Patila, M., Spyrou, K., Chalmpes, N., Zarafeta, D., Skretas, G., Gournis, D., Stamatis, H.* 2019. Development of a Four-Enzyme Magnetic Nanobiocatalyst for Multi-Step Cascade Reactions. **Catalysts**. Submitted

3. Delivoria, D. C., Chia S., Habchi, J., Perni, M., Matis, I., Papaevgeniou, N., Chondrogianni, N., Dobson, C. M., Vendruscolo, M., Skretas, G.* 2019. Bacterial production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. **Science Advances**. 5 : eaax5108. Impact factor: 12.804.

⇒ Press releases regarding this work:

http://www.eie.gr/nhrf/institutes/icb/news/2019/articles/article_sciadv_eaax5108_en.html

4. Michou, M., Kapsalis, C., Pliotas, C., Skretas, G.* 2019. Optimization of recombinant membrane protein overexpression in the engineered *Escherichia coli* strains SuptoxD and SuptoxR. **ACS Synthetic Biology**. 8(7):1631-1641. Impact factor: 5.571.

5. Ladoukakis, E., Koutsandreas, T., Pilalis, E., Zarafeta, D., Kolisis, F.N., Skretas, G., Chatziioannou, A.* 2019. ANASTASIA: a distributed pipeline for automated integration, analysis and functional characterization of next-generation sequencing metagenomic datasets. **Frontiers in Genetics**. 10:469. Impact factor: 3.517

6. Wohlgemuth, R.*, Littlechild, J., Monti, D., Schnorr, K., Siebers, B., Menzel, P., van Rossum, T., Kublanov, I., Rike, A.G., Skretas, G., Szabo, Z., Peng, X., Young, M. 2018. Discovery of Novel Hydrolases from Hot Environments. **Biotechnology Advances**. 36(8): 2077-2100. Impact factor: 12.831

7. Kostelidou, K., Matis, M., and Skretas, G.*. 2018. Microbial genetic screens and selections for monitoring protein misfolding: tools for the identification of disease-relevant genes and the discovery of potential therapeutic compounds against neurodegenerative diseases. **Current Pharmaceutical Design**. 24(19):2055-2075. Impact factor: 2.412

8. Matis, I., Delivoria, D.C., Mavroidi, B., Papaevgeniou, N., Panoutsou, S., Bellou, S., Papavasileiou, K.D., Linardaki, Z., Stavropoulou, A.V., Vekrellis, K., Boukos, N., Kolisis, F.N., Gonos, E.S., Margarity, M., Papadopoulos, M.G., Efthimiopoulos, S., Pelecanou, M., Chondrogianni, N., Skretas, G*. 2017. An integrated and generalizable bacterial discovery platform for chemical rescuers of disease-associated protein misfolding.

Nature Biomedical Engineering. 1, 838–852. Impact factor: 17.135

⇒ News & Views commentary in *Nature Biomedical Engineering*:

<https://www.nature.com/articles/s41551-017-0149-y>

⇒ Interview in the newspaper "Avgi" regarding this work:

<http://www.avgi.gr/article/10965/8644050/tropopoiemena-bakteria-boethoun-sten-anakalypse-neon-pharmakon-kata-neuroekphylistikon-astheneion>

⇒ Press releases regarding this work:

<http://health.in.gr/news/scienceprogress/article/?aid=1500171023>

<http://www.skaipatras.gr/2017/11/02/ellines-epistimones-aneptyxan-tropopoiemena-vaktiria-gia-tin-anakalypsi-neon-farmakon-gia-tis-nevroekfylistikes-pathisis/>

<http://www.avgi.gr/article/10965/8488436/ellenes-epistimones-aneptyxan-tropopoiemena-bakteria-pou-boethoun-sten-anakalypse-neon-pharmakon>

http://www.eie.gr/nhrf/news/2017/24_10_2017_PressRelease_IBMCB_NatureBiomedicalEngineering_gr.pdf

<http://pub.lucidpress.com/275828af-a166-49a6-af23-63d5a226315a/?src=em>

<http://www.cretalive.gr/health/ellhnes-ereynhtes-allazoun-ta-dedomena-stis-nevroekfylistikes-pathiseis>

<https://news.makedonias.gr/2017/10/3204885/>

<http://www.haniotika-nea.gr/ellines-erevnites-allazoun-ta-dedomena-stis-nevroekfilistikes-pathisis/>

<http://www.iatropedia.gr/ygeia/elliniko-alma-stin-therapeia-ton-nevroekfylistikon-pathiseon-ti-petychan-epistimones-tou-e-e/91406/>

<http://www.nooz.gr/world/tropopoiemena-vaktiria-gia-neuroekfulistikes-pa8iseis>

<http://www.patrnews.com/ellines-epistimones-aneptyxan-tropopoiemena-vaktiria-gia-tin-anakalypsi-neon-farmakon-gia-tis-nevroekfylistikes-pathisis/>

<http://www.multi-news.gr/in-ellines-erevnites-allazoun-dedomena-stis-nevroekfilistikes-pathisis/>

<http://www.nooz.gr/science/tropopoiemena-vaktiria-gia-neuroekfulistikes-pa8iseis>

<http://healthmag.gr/post/8944/allazoun-ta-dedomena-stis-nevroekfylistikes-pathiseis-ti-brhkan-ellhnes-ereynhtes>

<http://blog.nowdoctor.gr/28374-epistimones-aneptuxan-tropopoiemena-baktiria-pou-boithoun-stin-anakalypsi-neon-farmakon-gia-tis-neuroekfulistikes-pathiseis/>

<https://nucleus.gr/?p=7070>

<http://www.amna.gr/health/article/200149/Epistimones-tou-Ethnikou-Idrumatos-Ereunon-aneptuxan-tropopoiimena-baktiria-pou-boithoun-stin-anakalupsi-neon-farmakon-gia-tis-neuroekfulistikes-pathiseis>
<https://analitis.gr/episthmones-toy-ethnikoy-idrymatos-ereynwn-aneptyksan-tropopoihmena-bakthria-poy-boithoyn-sthn-anakalypsh-newn-farmakwn-gia-tis-neyroekfylistikes-pathhseis/>
<https://emvolos.gr/nea-farmaka-gia-tis-nevroekfylistikes-pathisis-apo-ellines-epistimones-tou-ethnikou-idrymatos-erevnon/>
<http://www.typosthes.gr/gr/igia-epistimi/article/143154/ellines-epistimones-enadia-stis-neuroekfulistikes-pathiseis-ti-anakalupsan/>

9. Gialama, D., Delivoria, D.C., Michou, M., Giannakopoulou, A., Skretas, G*. 2017. Functional requirements for DJIA- and RraA-mediated enhancement of recombinant membrane protein production in the engineered *E. coli* strains SuptoxD and SuptoxR. **Journal of Molecular Biology**. 429(12):1800-1816. Impact factor: 5.067.

10. Gialama, D., Kostelidou, K., Michou, M., Delivoria, D.C., Kolisis, F.N., Skretas, G*. 2017. Development of *Escherichia coli* strains that withstand membrane protein-induced toxicity and achieve high-level recombinant membrane protein production. **ACS Synthetic Biology**. 6(2): 284-300. Impact factor: 5.571.

11. Zarafeta, D., Moschidi, D., Ladoukakis, E., Gavrillov, S., Chrysina, E.D., Chatziioannou, A., Kublanov, I., Skretas, G.*, Kolisis, F. N.*. 2016. Metagenomic mining for thermostable esterolytic enzymes uncovers a new family of bacterial esterases. **Scientific Reports**. 6: 38886. Impact factor: 4.011.

12. Zarafeta, D., Szabo, Z., Moschidi, D., Phan, H., Chrysina, E.D., Peng, X., Ingham, C.J., Kolisis, F. N.*, Skretas, G.*. 2016. EstDZ3: a new esterolytic enzyme exhibiting remarkable thermostability. **Frontiers in Microbiology**. 7: 1779. Impact factor: 4.259.

13. Zarafeta, D., Kissas, D., Sayer, C., Gudbergsdottir, S. R., Ladoukakis, E., Isupov, M. N., Chatziioannou, A., Peng, X., Littlechild, J. A.*, Skretas, G.*, and Kolisis, F. N.* 2016. Discovery and characterization of a thermostable and highly halotolerant GH5 cellulase from an Icelandic hot spring isolate. **PLoS One**, 11(1): e0146454. Impact factor: 2.776.

14. Skretas, G.*, and Kolisis, F.N.* 2013. Combinatorial approaches for inverse metabolic engineering applications. **Computational and Structural Biotechnology Journal**. 3(4): e201210021. Impact factor: 4.720.

15. Skretas, G.[‡], Makino, T.[‡], Varadarajan, N., Pogson, M., and Georgiou, G. 2012. Multi-copy genes that enhance the yield of mammalian G protein-coupled receptors in Escherichia coli. ***Metabolic Engineering***. 14(5): 591-602. Impact factor: 7.808.

[‡]Equal contribution

16. Makino, T.[‡], Skretas, G.[‡], and Georgiou, G. 2011. Strain engineering for improved expression of recombinant proteins in bacteria. ***Microbial Cell Factories***. 10(1): 32. Impact factor: 4.402.

[‡]Equal contribution

⇒ Characterized as "Highly accessed"

17. Makino, T.[‡], Skretas, G.[‡], Kang, T.H., and Georgiou, G. 2011. Comprehensive engineering of Escherichia coli for enhanced expression of IgG antibodies. ***Metabolic Engineering***. 13(2): 241-51. Impact factor: 7.808.

[‡]Equal contribution

18. Skretas, G., and Georgiou, G. 2010. Simple genetic selection protocol for isolation of overexpressed genes that enhance accumulation of membrane-integrated human G protein-coupled receptors in Escherichia coli. ***Applied and Environmental Microbiology***. 76(17):5852-9. Impact factor: 4.077.

19. Skretas, G., Carroll, S., DeFrees, S., Schwartz, M., Johnson, K.F., and Georgiou, G. 2009. Expression of active human sialyltransferase ST6GalNAcI in Escherichia coli. ***Microbial Cell Factories***. 8: 50. Impact factor: 4.402.

20. Skretas, G., and Georgiou, G. 2009. Genetic analysis of G protein-coupled receptor expression in Escherichia coli: Inhibitory role of DnaJ on the membrane integration of the human central cannabinoid receptor. ***Biotechnology and Bioengineering***. 102(2):357-367. Impact factor: 4.260.

⇒ "Editors' choice" article

21. Skretas, G., and Georgiou, G. 2008. Engineering G protein-coupled receptor expression in bacteria. ***Proceedings of the National Academy of Sciences USA***. 105(39):14747-14748 Impact factor: 9.580.

22. Link, A.J., Skretas, G., Strauch, E.-M., Chari, N.S., and Georgiou, G. 2008. Efficient production of membrane-integrated and detergent-soluble G protein-coupled receptors in Escherichia coli. **Protein Science**. 17(10): 1857-63. Impact factor: 2.523.

23. Gillies, A., Skretas, G., and Wood, D.W. 2008. Engineering systems for detection and discovery of nuclear hormone-like compounds. **Biotechnology Progress**. 24: 8-16. Impact factor: 1.986.

24. Skretas, G.*, Meligova, A., Villalonga-Barber, C., Mitsiou, D.J., Alexis, M.N., Micha-Screttas, M., Steele, B.R., Screttas, C.G., and Wood, D.W*. 2007. Engineered chimeric enzymes as facile tools for pharmaceutical discovery: Construction of simple bacterial screens for the detection, discovery and assessment of estrogen receptor modulators. **Journal of the American Chemical Society**. 129: 8443-8457. Impact factor: 14.695.

⇒ This work has been featured in a number of press releases:
<http://www.sciencedaily.com/releases/2007/07/070718163719.htm>
<http://www.princeton.edu/engineering/news/publications/equad-news/s07/articles/foh.xml?id=559>
<http://it.moldova.org/news/engineered-e-coli-may-lead-to-new-drugs-59688-eng.html>
http://news.webindia123.com/news/ar_showdetails.asp?id=707200081&cat=&n_date=20070720

25. Skretas, G., and Wood, D.W. 2005. Rapid detection of subtype-selective nuclear hormone receptor binding with bacterial genetic selection. **Applied and Environmental Microbiology**. 71: 8995-8997. Impact factor: 4.077.

26. Skretas, G., and Wood, D.W. 2005. A bacterial biosensor of endocrine modulators. **Journal of Molecular Biology**. 349: 464-474. Impact factor: 5.067.

⇒ Selected as an Article of Outstanding Interest by “Faculty of 1000”

27. Skretas, G., and Wood, D.W. 2005. Regulation of protein activity with small-molecule-controlled inteins. **Protein Science**. 14: 523-532. Impact factor: 2.420.

28. Theologitis M., Screttas G.C., Raptis S.G. and Papadopoulos, M.G. 1999. The polarizability and hyperpolarizability of tetrakis(phenylethynyl)ethene and several of its lithiated derivatives. **International Journal of Quantum Chemistry**. 72: 177-187. Impact factor: 2.920.

Manuscripts in preparation

1. Michou, M., Stergios, A., Skretas, G.* 2019. SuptoxD2.0: A second-generation *Escherichia coli* strain achieving further enhanced recombinant membrane protein production.
2. Delivoria, D.C., Papaevgeniou, N., Matis, I., Chondrogianni, Skretas, G.* 2019. A bacterial discovery platform uncovers different families of macrocyclic peptide inhibitors of A β aggregation.
3. Vasilopoulou, E., Giannakopoulou, A., Michou, M., Skretas, G.* 2019. Comparative functional analysis of RraA homologues as enhancers of recombinant membrane protein production in the engineered *Escherichia coli* strain SuptoxR.

Publications in books

1. Gialama, D., Kollis, F.N., and Skretas, G.*. 2018. New expression systems for GPCRs. In ***Novel Bioprocessing Technology for Production of Biopharmaceuticals and Bioproducts*** (Editors: W. Zhou, and C. Komives). Wiley & Sons.
2. Wood, D.W., and Skretas, G. 2005. Intein reporter and selection systems. In ***Homing endonucleases and inteins*** (Editors: M. Belfort, V. Derbyshire, B.L. Stoddard, and D.W. Wood). Springer.

Publications in conference proceedings

1. Papadopoulos, M.G., Screttas, G.C., Raptis, S.G., and Theologitis, M.M., 1999. The non-linear optical properties of some lithium containing Derivatives. ***Proceedings SPIE***. 3623, 270-278.

Monographs

1. Skretas, G. 2006. ***PhD Thesis***. Engineering protein-based molecular switches: *In vivo* regulation of protein activity and the construction of simple biosensors. Department of Chemical Engineering – Princeton University, USA

Bibliometric indices

- Publications in peer-reviewed journals: 28
- Citations: 741 (Google scholar)

- Hirsch factor (H-factor): 14 (Google scholar)

Patents

Awarded

1. Wood, D.W. and Skretas, G. Bacterial ligand-binding sensor. **United States Patent 7592144**

Applications

1. Skretas, G. and Gialama, D. Systems for recombinant protein production. **PCT/EP2017/025168**
2. Skretas, G. Macrocyclic rescuers for disease-associated protein misfolding. **PCT/IB2018/000622**
3. Skretas, G. and Delivoria, D.C. Cyclic peptide inhibitors of amyloid- β aggregation. **OBI 20190100453**

Technology transfer

Founder and General Manager of ResQ Biotech Private Company, an early-stage drug discovery company dealing with the pre-clinical development of putative therapeutic molecules against disease caused by protein misfolding and aggregation such as amyotrophic lateral sclerosis, Alzheimer's disease and cancer.

Research funding



2019-2024. European Research Council (ERC) Consolidator Grant. Project title: "A unified drug discovery platform for protein misfolding diseases". Total budget: 1,972,000 €. Lab budget: 1,972,000 €. Role: Coordinator - Principal Investigator.



2019-2022. National Strategic Reference Framework 2014-2020. General Secretariat of Research and Technology – Special Actions “Aquaculture – Industrial Materials – Open Innovation in Culture”. Project title: “Development of new functional fish-superfoods for more efficient fish farming”. Total budget: 200,000 €. Lab budget: 60,000 €. Role: Principal Investigator.



2019-2020. National Strategic Reference Framework 2014-2020. General Secretariat of Research and Technology – Research program “Research support with an emphasis on young researchers”. Project title: “Development of second-generation specialized bacterial strains for high-

level recombinant membrane protein production”. Total budget: 37,000 €. Lab budget: 37,000 €. Role: Coordinator - Principal Investigator.



2019-2022. Hellenic Foundation for Research and Innovation. Scholarships to PhD candidates. Doctoral research fellow: Eleni Vasilopoulou. Total budget: 32,400 €. Lab budget: 32,400 €. Role: Coordinator - Principal Investigator.



2018-2021. Horizon 2020. Call: H2020-NMBP-TR-IND-2018-2020 (TRANSFORMING EUROPEAN INDUSTRY). Topic: BIOTEC-01-2018. Project title: “Fostering Synthetic Biology standardisation through international collaboration” (BioRoboost). Total budget: 2,000,000 €. Lab budget: 10,200 €. Role: Partner.



2018-2021. Hellenic Foundation for Research and Innovation. Research Projects for Postdoctoral Researchers. Project title: “Targeting secretion and misfolding of α -synuclein to reduce transmission of pathology in Parkinson’s disease: An interdisciplinary approach coupling neurobiology with biotechnology”. Coordinator: Dr. Evangelia Emmanouilidou. Total budget: 180,000 €. Lab budget: 36,000 €. Role: Partner.



2018-2021. National Strategic Reference Framework 2014-2020. Fellowships for Doctoral Research IKY-NSRF. Doctoral research fellow: Maria Giannakou. Total budget: 29,400 €. Lab budget: 29,400 €. Role: Coordinator- Principal Investigator.



2018-2019. National Strategic Reference Framework 2014-2020. General Secretariat of Research and Technology – Research program “Research support with an emphasis on young researchers”. Project title: “Novel biocatalytic devices for effective exploitation of plant biomass”. Coordinator: Prof. Haralambos Stamatis. Total budget: 56,350 €. Lab budget: 15,000 €. Role: Partner.



2018-2019. National Strategic Reference Framework 2014-2020. General Secretariat of Research and Technology – Research program “Support of infrastructures for research and Innovation”. Project title: “Synthetic Biology: from omics technologies to genomic engineering (OMIC-ENGINE)”. Coordinator: Prof. Kostas Mathiopoulos. Total budget: 4,000,000 €. Lab budget: 70,000 €. Role: Principal Investigator for NHRF research activities.



2017-2019. National Strategic Reference Framework 2014-2020. General Secretariat of Research and Technology – Research program “KRIPIS”. Project title: “Targeted therapeutic approaches against degenerative conditions_B”. Coordinator: Dr. Alexandros Pintzas. Total budget: 900,000 €. Lab budget: 24,000 €. Role: Partner.



2017-2019. National Strategic Reference Framework 2014-2020. Fellowships for Post-doctoral Research. Post-graduate research fellow: Dr. Artemis Giannakopoulou. Total budget: 26,000 €. Lab budget: 26,000 €. Role: Coordinator- Principal Investigator. *Declined by the Fellow.*



2016-2019. National Strategic Reference Framework 2014-2020. Fellowships for Doctoral Research. Doctoral research fellow: Myrsini Michou. Total budget: 29,400 €. Lab budget: 29,400 €. Role: Coordinator-Principal Investigator.



2016-2017. State Scholarships Foundation (IKY) Fellowships of Excellence in Postgraduate Studies - Siemens Program. Post-graduate research fellow: Dr. Zacharoula Linardaki. Total budget: 24,000 €. Lab budget: 24,000 €. Role: Coordinator - Principal Investigator.



2016-2017. State Scholarships Foundation (IKY) Fellowships of Excellence in Postgraduate Studies - Siemens Program. Post-graduate research fellow: Dr. Artemis Giannakopoulou. Total budget: 17,000 €. Lab budget: 17,000 €. Role: Coordinator - Principal Investigator. *Declined by the Fellow.*



2015-2017. Research Program “Excellence” State Scholarships Foundation (IKY) - Siemens. Project title: “Thermostable enzymic nanodevices as catalysts for the production of biofuels from renewable carbon sources”. Coordinator: Prof. Dimitris Hatzinikolaou. Total budget: 50,000 €. Lab budget: 24,800 €. Role: Partner.



2015-2017. State Scholarships Foundation (IKY) Fellowships of Excellence in Postgraduate Studies - Siemens Program. Post-graduate research fellow: Dr. Stamatia Bellou. Total budget: 37,000 €. Lab budget: 37,000 €. Role: Coordinator - Principal Investigator.



2015. John S. Latsis Public Benefit Foundation – Scientific Studies. Project title: “Protein tools for programming cell behavior in synthetic biology”. Total budget: 12,000 €. Lab budget: 12,000 €. Role: Coordinator- Principal Investigator.



2013-2015. State Scholarships Foundation (IKY) Fellowships of Excellence in Postgraduate Studies - Siemens Program. Post-graduate research fellow: Dr. Kalliopi Kostelidou. Total budget: 40,000 €. Lab budget: 40,000 €. Role: Coordinator- Principal Investigator.



2013-2015. National Strategic Reference Framework 2007-2013. General Secretariat of Research and Technology – Research program “KRIPIS”. Project title: “Targeted therapeutic approaches against degenerative conditions”. Coordinator: Dr. Alexandros Pintzas. Total budget: 1,500,000 €. Lab budget: 48,000 €. Role: Partner.



2013. John S. Latsis Public Benefit Foundation – Scientific Studies. Project title: “Using bacteria and worms for the battle against Alzheimer’s disease”. Coordinator: Dr. Niki Chondrogianni. Total budget: 12,000 €. Lab budget: 6,000 €. Role: co-Coordinator.



2012-2015. National Strategic Reference Framework 2007-2013. General Secretariat of Research and Technology – Research program “ARISTEIA”. Project title: “Directed Evolution of Small-Molecule Therapeutics Against Neurodegenerative Diseases”. Total budget: 216,000 €. Lab budget: 190,000 €. Role: Coordinator- Principal Investigator.



2012-2015. National Strategic Reference Framework 2007-2013. Greek Ministry of Education, Research and Religious Affairs – Research program “THALIS”. Project title: “Biosynthesis and Genetic Selection of Cyclic Peptides with Potential Therapeutic Effects Against Alzheimer's Disease: Inhibitors of A β aggregation”. Coordinator: Dr. Stathis Gonos. Total budget: 540,000 €. Lab budget: 171,000 €. Role: Principal Investigator.



2011-2015. FP7 European Union Cooperation Program KBBE-2010.3.5-04 - Microbial diversity and metagenomic mining for biotechnological innovation. Project title: “Systematic screening for novel hydrolases from hot environments”. Coordinator: Prof. Xu Peng. Total budget: 5,500,000 €. Lab budget: 150,000 €. Role: Partner.



2011-2015. FP7 European Union Marie-Curie International Reintegration Grant. Project title: “Directed evolution of small-molecule cancer therapeutics”. Coordinator: Dr. Sotiris Kyrtopoulos. Total budget: € 100,000. Lab budget: € 100,000. Role: Marie Curie Fellow.



2011-2015. National Strategic Reference Framework 2007-2013. General Secretariat of Research and Technology – Research program “SYNERGASIA”. Project title: “Development of novel Angiogenesis-Modulating Pharmaceuticals by screening of natural compounds and synthetic analogues”. Coordinator: Prof. Nektarios Aligiannis Total budget: 1,412,000 €. Lab budget: € 150,000. Role: Partner.

Participation in Scientific Networks



Management Committee Member for Greece. COST Action BM1405 | Non-globular proteins - from sequence to structure, function and application in molecular physiopathology (NGP-NET) | 26 March 2015 - 25 March 2019.



Substitute Management Committee Member for Greece. COST Action BM1307 | European network to integrate research on intracellular proteolysis pathways in health and disease (PROTEOSTASIS) | 25 April 2014 - 24 April 2018.



Substitute Management Committee Member for Greece. COST Action CM1303 | Systems Biocatalysis (SysBioCat) | 20 November 2013 - 19 November 2017.



Representative of the General Secretariat of Research and Technology of Greece to meetings and workshops of the European research network ERA-Net “Synthetic Biology” (ERA-Synbio).

Collaborations

International academic

1. Prof. Michele Vendruscolo, Centre for Protein Misfolding Diseases, Department of Chemistry, University of Cambridge, Cambridge, UK
2. Dr. Christos Pliotas, School of Biology, University of St Andrews, St Andrews, UK
3. Prof. Terry K. Smith, School of Biology, University of St Andrews, St Andrews, UK
4. Prof. Xu Peng, Department of Biology, University of Copenhagen, Copenhagen, Denmark
5. Dr. Ilya Kublanov, Department of Microbial Communities, Winogradsky Institute of Microbiology, St Petersburg, Russia
6. Prof. Jennifer A. Littlechild, College of Life and Environmental Sciences, University of Exeter, Exeter, UK.

Domestic academic

1. Prof. Fragiskos Kolisis, School of Chemical Engineering, National Technical University of Athens, Athens, Greece
2. Dr. Maria Pelecanou, Institute of Biosciences and Applications, National Centre for Scientific Research "Demokritos", Athens, Greece
3. Dr. Konstantinos Vekrellis, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
4. Prof. Spyros Efthimiopoulos, Department of Biology, National & Kapodistrian University of Athens, Athens, Greece
5. Prof. Dimitris Hatzinikolaou, Department of Biology, National & Kapodistrian University of Athens, Athens, Greece
6. Prof. Ioulia Smonou, Department of Chemistry, University of Crete.
7. Dr. Niki Chondrogianni, Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic research Foundation, Athens, Greece
8. Dr. Aristotelis Chatziioannou, Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic research Foundation, Athens, Greece
9. Dr. Michael N. Alexis, Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic research Foundation, Athens, Greece
10. Dr. Evangelia Chrysina, Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic research Foundation, Athens, Greece

Industrial

1. ResQ Biotech (Greece)
2. Novozymes (Denmark)
3. Sigma-Aldrich (currently Merck) (USA)
4. Galenica (Greece)

Invited presentations

1. October 2019. “Design and development of microbial cell factories for high-level recombinant protein production”. FEBS Advanced Lecture Course “Biosystem Design: Computational and Experimental Approaches”. Spetses, Greece.
2. September 2019. “Engineered Bacteria as an Early Stage Drug Discovery Platform Against Protein Misfolding Diseases”. Centre for Misfolding Diseases International Conference 2019. Cambridge, UK.
3. September 2019. “Engineering bugs for the discovery of new drugs against diseases caused by protein misfolding and aggregation”. Biomedical Research Foundation, Academy of Athens. Athens, Greece.
4. April 2019. “Engineering bugs for the discovery of new drugs against diseases caused by protein misfolding and aggregation”. Department of Medicine, University of Patras. Patras, Greece.
5. November 2018. “Engineering bugs for the discovery of new drugs against protein misfolding diseases”. 6th Young Scientists Forum – 69th Congress of the Hellenic Society for Biochemistry and Molecular Biology. Larisa, Greece.
6. June 2018. “Synthetic biology: Engineered cell factories for industrial production of new products”. Summer School of Mikrobiokosmos 2018 - The role of microbiome in ecosystem functioning, food security and environmental protection, Mt. Pelion, Greece.
7. March 2018. “Engineering bugs for the discovery of new drugs against diseases caused by protein misfolding and aggregation”, Department of Biological Sciences, University of Cyprus, Nicosia, Cyprus.
8. January 2018. “Engineering bacteria for the discovery of potential therapeutics against neurodegenerative diseases”. Department of Biochemistry and Biotechnology, University of Thessaly, Larisa, Greece.
9. November 2017. “Engineered bugs for the discovery of new drugs against protein misfolding and aggregation”, Institute of Biotechnology and Biomedicine - Universitat Autònoma de Barcelona, Barcelona, Spain.

10. November 2017. "Engineering bacteria for the discovery of potential therapeutics against neurodegenerative diseases", The Life Science Centre, School of Science and Technology, Örebro University, Örebro, Sweden.
11. May 2017. "Molecular evolution of macrocyclic rescuers of disease-associated protein misfolding", Centre for Protein Misfolding Diseases, Department of Chemistry, Cambridge University, Cambridge, UK.
12. May 2017. "Molecular evolution of cyclic oligopeptide rescuers of disease-associated protein misfolding", Astex Therapeutics Ltd., Cambridge, UK.
13. May 2017. "Molecular evolution of macrocyclic rescuers against disease-associated protein misfolding", School of Chemistry, University of St. Andrews, St. Andrews, UK.
14. February 2016. "Engineering E. coli for high-level production of eukaryotic integral membrane proteins", BioStruct-X Workshop "Dilemmas in structural biology: selection & integration of methods", Athens, Greece.
15. December 2013. "Engineering bacteria for the discovery of potentially therapeutic compounds against protein misfolding diseases", ERASynBio Interdisciplinary Workshop on Synthetic Biology, Athens, Greece.
16. January 2013. "Strain engineering for enhanced accumulation of recombinant membrane proteins in Escherichia coli". PepTalk – The Protein Science Week. Palm Springs, California, USA.
17. December 2007. "Engineering *Escherichia coli* for high-level expression of (eukaryotic) integral membrane proteins". Institute of Molecular Biology and Biotechnology – Institute of Research and Technology, Heraklion-Crete, Greece.
18. April 2006. "Engineering protein-based molecular switches: In vivo regulation of protein activity and the construction of simple biosensors". Laboratory of Biotechnology, School of Chemical Engineering, National Technical University of Athens, Athens, Greece.
19. January 2006. "Engineering protein-based molecular switches: In vivo regulation of protein activity and the construction of simple biosensors". Institute of Chemical Engineering and High-Temperature Chemical Processes, Patras, Greece.

Conference presentations

85. Vasilopoulou E., Gialama D., Michou M., Giannakopoulou, A., and Skretas, G. 2019. SuptoxR – An engineered *Escherichia coli* strain that enables recombinant production of membrane proteins at high yields. EMBO Workshop "Tools for Structural Biology of Membrane Proteins". Hamburg, Germany. October 7-9.
84. Galanopoulou A., Delivoria D.C., and Skretas, G. 2019. Discovery of novel antimicrobial agents targeting proteins associated with biofilm formation. FEBS Advanced Lecture Course "Biosystem Design: Computational and Experimental Approaches". Spetses, Greece. September 29 - October 7.

83. Vasilopoulou E., Gialama D., Michou M., Giannakopoulou, A., and Skretas, G. 2019. SuptoxR – An engineered *Escherichia coli* strain that enables recombinant production of membrane proteins at high yields. FEBS Advanced Lecture Course “Biosystem Design: Computational and Experimental Approaches”. Spetses, Greece. September 29 - October 7.
82. Michou M., Gialama D., Stergios A., Kapsalis, K., Pliotas, C. and Skretas, G. 2019. SuptoxD & SuptoxD2.0: First- and second- generation specialized *Escherichia coli* strains for high-level recombinant membrane protein production. FEBS Advanced Lecture Course “Biosystem Design: Computational and Experimental Approaches”. Spetses, Greece. September 29 - October 7.
81. Matis I., Delivoria D. C., Mavroidi B., Papaevgeniou N., Panoutsou, S., Bellou, S., Linardaki Z., Stavropoulou A., Efthimiopoulos S., Pelecanou M., Chondrogianni N., and Skretas G. 2019. Engineering bugs for the discovery of new drugs against diseases caused by protein misfolding and aggregation. Conference “Emerging applications of microbes”, Leuven, Belgium. June 3–4.
80. Matis I., Delivoria D. C., Mavroidi B., Papaevgeniou N., Panoutsou, S., Bellou, S., Linardaki Z., Stavropoulou A., Efthimiopoulos S., Pelecanou M., Chondrogianni N., and Skretas G. 2019. Engineering bugs for the discovery of new drugs against diseases caused by protein misfolding and aggregation. Workshop on “Strategies and tools for modulating pathologic protein self-assembly”, Porto, Portugal. March 21–22.
79. Michou M., Gialama D., Stergios A., and Skretas, G. 2018. SuptoxD2.0 – An engineered *Escherichia coli* strain that enables recombinant production of membrane proteins at high yields. 69th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Larisa, Greece. November 23-25.
78. Matis I., Delivoria D. C., Mavroidi B., Papaevgeniou N., Panoutsou, S., Bellou, S., Linardaki Z., Stavropoulou A., Efthimiopoulos S., Pelecanou M., Chondrogianni N., and Skretas G. 2018. Engineering bugs for the discovery of new drugs against neurodegeneration and other diseases caused by protein misfolding and aggregation. 4th Applied Synthetic Biology in Europe, Toulouse, France. October 24–26.
77. Matis I., Delivoria D. C., Mavroidi B., Papaevgeniou N., Panoutsou, S., Bellou, S., Linardaki Z., Stavropoulou A., Efthimiopoulos S., Pelecanou M., Chondrogianni N., and Skretas G. 2018. Engineering bugs for the discovery of new drugs against diseases caused by protein misfolding and aggregation. 4th NGP-NET symposium - Non-globular proteins in molecular physiopathology. Druskininkai, Lithuania. September 12-14.
76. Matis I., Delivoria D.C., Mavroidi B., Papaevgeniou N., Panoutsou S., Bellou S., Boukos N., Pelecanou M., Chondrogianni N., Skretas G., 2017. Molecular evolution of macrocyclic rescuers of disease-associated protein misfolding. 68th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Athens, Greece. November 10-12.
75. Michou M., Giannakopoulou A., Gialama D., Kostelidou K., Pletsas V., and Skretas, G. 2017. SuptoxD, an *Escherichia coli* strain that enables recombinant production of membrane proteins at high yields. 68th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Athens, Greece. November 10-12.
74. Matis I., Delivoria D. C., Mavroidi B., Papaevgeniou N., Panoutsou, S., Bellou, S., Linardaki Z., Stavropoulou A., Efthimiopoulos S., Pelecanou M., Chondrogianni N., and Skretas G. 2017. Molecular evolution of macrocyclic rescuers of disease-associated protein misfolding. 3rd NGP-

NET symposium - Non-globular proteins in molecular physiopathology. Kosice, Slovakia. August 28-September 1. **[Award for Best Poster presentation]**.

73. Delivoria D. C., Linardaki Z., Matis I., Bellou, S., Pletsa V., and Skretas G. 2017. Identification of potentially therapeutic short cyclic peptides against protein misfolding diseases. OCC World Congress and Annual SFRR-E Conference 2017 Metabolic Stress and Redox Regulation. Berlin, Germany. June 21-23.

72. Matis I., Delivoria D. C., Panoutsou, S., Bellou, S., Mavroidi B. , Papaevgeniou N., Stavropoulou A., Linardaki Z., Efthimiopoulos S., Chondrogianni N., Pelecanou M. and Skretas G. 2016. Molecular evolution of short cyclic peptides that rescue the misfolding, aggregation, and the associated pathogenic effects of proteins linked to protein misfolding diseases. 3rd PROTEOSTASIS Action Meeting - Proteostasis and its Biological Implications. Lisbon, Portugal. November 2-5.

71. Delivoria, D., Linardaki, Z., Matis, I., Bellou, S., Pletsa, V. and Skretas, G. 2016. Molecular evolution of compounds that rescue the misfolding and the associated pathogenic effects of proteins associated with protein misfolding diseases. FEBS Advanced Lecture Course on "Redox Regulation of Metabolic Processes". Spetses, Greece. September 19-25. **[Award for Best Poster presentation]**.

70. Matis I., Delivoria D. C., Panoutsou, S., Bellou, S., Mavroidi B. , Papaevgeniou N., Stavropoulou A., Linardaki Z., Efthimiopoulos S., Chondrogianni N., Pelecanou M. and Skretas G. 2016. Molecular evolution of short cyclic peptides that rescue the misfolding, aggregation, and the associated pathogenic effects of proteins linked to protein misfolding diseases. 2nd NGP-NET Symposium - Non-globular proteins in molecular physiopathology. Belgrade, Serbia. September 14-18.

69. Skretas, G. 2016. Engineering bacteria for the discovery of potential therapeutic compounds against protein misfolding diseases. 11th World Congress on Biotechnology and Biotech Industries Meet. Berlin, Germany. July 28-29.

68. Skretas, G. 2016. Discovery of therapeutic compounds against protein misfolding diseases. 3rd Greek Innovation Forum. Athens, Greece. January 8-10.

67. Moschidi, D., Zarafeta, D., Ladoukakis, E., Chatzioannou, A., Gavrilov, S., Kublanov, I., Szabó, Z., Peng, X., Skretas, G. and Kolisis, F. 2013. High-throughput screening of metagenomic libraries for the detection of thermostable hydrolases using E. coli expression systems. 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Athens, Greece. December 6-8.

66. Matis I., Delivoria D. C., Mavroidi B. , Papaevgeniou N., Stavropoulou A., Linardaki Z., Margarity M., Efthimiopoulos S., Chondrogianni N., Pelecanou M. & Skretas G. 2015. Bacterial biosynthesis & high-throughput screening of cyclic peptides with potential therapeutic properties for Alzheimer's disease. 8th Swedish-Greek Conference in Life Sciences. Athens, October 12-13.

65. Matis I., Delivoria D. C., Mavroidi B. , Papaevgeniou N., Stavropoulou A., Linardaki Z., Margarity M., Efthimiopoulos S., Chondrogianni N., Pelecanou M. & Skretas G. 2015. Engineering bacteria for the discovery of potentially therapeutic compounds against protein misfolding diseases. Biotrans 2015. Vienna, Austria, 26-30 July.

64. Matis I., Delivoria D. C., Mavroidi B. , Papaevgeniou N., Stavropoulou A., Linardaki Z., Panoutsou, P., Margarity M., Efthimiopoulos S., Chondrogianni N., Pelecanou M. & Skretas G. 2015. Directed evolution of short cyclic peptides that rescue the misfolding and the associated pathogenic effects of proteins linked to protein misfolding diseases. NMR Applications in Life Sciences Exploring Peptides & Proteins. Patras, Greece. 18-20 June.
63. Matis I., Delivoria D. C., Mavroidi B. , Papaevgeniou N., Stavropoulou A., Linardaki Z., Margarity M., Efthimiopoulos S., Chondrogianni N., Pelecanou M. & Skretas G. 2015. Molecular evolution of cyclic peptides that inhibit the aggregation and neurotoxicity of the amyloid beta peptide in vitro and in vivo. NMR Applications in Life Sciences Exploring Peptides & Proteins. Patras, Greece. 18-20 June **[Award for Best Poster presentation]**.
62. Panoutsou S., Skretas G. 2015. Discovery of chemical substances with possible therapeutic properties against motor neuron disease. NMR Applications in Life Sciences Exploring Peptides & Proteins. Patras, Greece. 18-20 June.
61. Delivoria, D.C., and Skretas, G. 2015. Identification of potentially therapeutic short cyclic peptides that rescue the misfolding of a carcinogenic p53 variant. NMR Applications in Life Sciences. Patras, Greece. 18-20 June.
60. Mavroidi, B., Matis, I., Delivoria, D. C., Paravatou-Petsotas, M., Skretas, G., Pelecanou, M. 2015. Evaluation with CD and cellular assays of new aggregation inhibitors of the β -amyloid peptide of Alzheimer's disease. 9th Panhellenic Interdisciplinary Conference on Alzheimer's Disease and 1st Mediterranean on Neurodegenerative Diseases. Thessaloniki, Greece. 14-17 May.
59. Linardaki, Z., Stavropoulou, A.V., Matis, I., Delivoria, D. C., Skretas, G., Margarity, M., Efthimiopoulos, S. 2015. Effects of Selected Biosynthetic Cyclic Peptides on A β Oligomer Formation and on the Toxic Action of A β Oligomers in Primary Neurons. 9th Panhellenic Interdisciplinary Conference on Alzheimer's Disease and 1st Mediterranean on Neurodegenerative Diseases. Thessaloniki, Greece. 14-17 May.
58. Matis, I., Delivoria, D. C., Mavroidi, B., Papaevgeniou, N., Chondrogianni, N., Pelecanou, M., Skretas, G. 2015. Molecular evolution of compounds that rescue the misfolding and the associated pathogenic effects of proteins associated with protein misfolding diseases. EMBO Conference on Molecular chaperones: From molecules to cells and misfolding diseases. Heraklion, Crete, Greece. 8-13 May **[Award for Best Poster presentation]**.
57. Skretas G. 2015. Directed evolution of small-molecule therapeutics against neurodegenerative diseases. 6th Mikrobiokosmos Conference. Athens, Greece. 3-5 April.
56. Matis I., Mavroidi V., Delivoria D. C., Pelecanou M., Skretas G. 2015. Biosynthesis and genetic screening of compounds, as potential therapeutic means for Alzheimer's disease. 6th Mikrobiokosmos Conference. Athens, Greece. 3-5 April.
55. Delivoria, D. C., and Skretas, G. 2015. Identification of potentially therapeutic cyclic peptides that enhance the stability of a carcinogenic p53 variant. 6th Conference of the Hellenic Scientific society Mikrobiokosmos, Athens, Greece. 3-5 April.
54. Dimitra Zarafeta, Dimitrios Kissas, Efthymios Ladoukakis, Aristotelis Chatziioannou, Christopher Sayer, Misha Isupov, Jennifer Littlechild, Soley R. Gudbergsdottir, Xu Peng, Sergey

Gavrilov, Elizaveta A. Bonch-Osmolovskaya, Georgios Skretas, Fragiskos N. Kolisis. 2015. Discovery of novel thermostable hydrolases of industrial interest by metagenomic screening 6th Mikrobiokosmos Conference. Athens, Greece. 3-5 April [**Award for Best Poster presentation**].

53. Gialama, D., Kostelidou, K., Kolisis, F. N., Skretas, G. 2015. Making life better for Escherichia coli cells that produce toxic membrane proteins. 6th Mikrobiokosmos Conference. Athens, Greece. 3-5 April.

52. Panoutsou S., Skretas G. 2015. Discovery of chemical substances with possible therapeutic properties against motor neuron disease. 6th Mikrobiokosmos Conference. Athens, Greece. 3-5 April.

51. Gialama, D., Kolisis, F. N., Skretas, G. 2015. Making life better for Escherichia coli cells that produce toxic membrane proteins. EMBO conference on the Mechanisms and regulation of protein translocation. Dubrovnik, Croatia. 21-25 March.

50. Matis, I., Delivoria, D., Mavroidi, V., Papaevgeniou, N., Chondrogianni, N., Pelecanou, M., Skretas, G. 2015. Molecular evolution of compounds with potentially therapeutic effects against protein misfolding diseases. AD/PD 2015. Nice, France. 18-22 March.

49. Matis, I., Mavroidi, B., Delivoria, D. C., Papaevgeniou, N., Chondrogianni, N., Pelecanou, M., Skretas, G. 2015. Molecular evolution of compounds with potentially therapeutic effects against protein misfolding diseases. EMBO Conference on The regulation of aging and proteostasis. Jerusalem, Israel. 15-20 February.

48. Zarafeta, D., Ladoukakis, E., Kissas, D., Gudbergsdottir, S. R., Gavrilov, S., Chatziioannou, A., Bonch-Osmolovskaya, E. A., Peng, X., Skretas, G., Kolisis, F. N. 2015. Discovery and characterisation of two thermostable hydrolases from HotZyme metagenomes. The HotZyme Project Final Symposium: Discovery of Extremophilic Novel Enzymes with Application for Industrial Biotechnology. Haifa, Israel. 9-10 February.

47. Matis, I., Mavroidi, B., Delivoria, D. C., Papaevgeniou, N., Chondrogianni, N., Pelecanou, M., Skretas, G. 2014. Molecular evolution of compounds with potentially therapeutic effects against protein misfolding diseases. 1st Meeting of the COST PROTEOSTASIS Network. Valencia, Spain. 5-7 November.

46. Zarafeta, D., Ladoukakis, E., Kissas, D., Gudbergsdottir, S. R., Gavrilov, S., Chatziioannou, A., Bonch-Osmolovskaya, E. A., Peng, X. Skretas, G., Kolisis, F. N. 2014. Discovery of novel thermostable enzymes of industrial interest by metagenomic screening. 4th International Conference on Novel Enzymes. Ghent, Belgium. 14-17 October.

45. Matis, I., Mavroidi, V., Delivoria, D. C., Pelecanou, M., Skretas, G. 2014. Biosynthesis and high-throughput genetic screening of cyclic peptides with potential therapeutic properties for Alzheimer's disease. SFRR-Europe/IUBMB Advanced School - Biochemical basis of healthy ageing. Spetses, Greece. 22-28 September.

44. Zarafeta, D., Ladoukakis, E., Kissas, D., Gudbergsdottir, S. R., Gavrilov, S., Chatziioannou, A., Bonch-Osmolovskaya, E. A., Peng, X. Skretas, G., Kolisis, F. N. 2014. Discovery of novel thermostable enzymes of industrial interest by metagenomic screening. 10th International Congress on Extremophiles. Saint Petersburg, Russia. 7-11 September.

43. Matiadis, D., Skretas, G., Igglessi-Markopoulou, O., Markopoulos, J. 2014. Synthesis of “head-to-tail” cyclic all-L-pentapeptides. 3rd European Peptide Symposium. Sofia, Bulgaria. 31 August – 5 September.
42. Gialama, G., Kolisis, F., and Skretas, G. 2014. Making life better for Escherichia coli cells that overproduce toxic membrane proteins. 16th European Congress on Biotechnology, Edinburgh, United Kingdom. July 13-17.
41. Zarafeta, D., Ladoukakis, E., Kissas, D., Gudbergsdottir, S. R., Gavrilov, S., Chatziioannou, A., Bonch-Osmolovskaya, E. A., Peng, X. Skretas, G., Kolisis, F. N. 2014. Discovery of novel thermostable enzymes of industrial interest by metagenomic screening. 16th European Congress on Biotechnology. Edinburgh, Scotland. July 13-16.
40. Matis, I., Delivoria, D., Papaevgeniou, N., Chondrogianni, N., and Skretas, G. 2014. Engineering bacteria for the discovery of potential therapeutic compounds against protein misfolding diseases. 16th European Congress on Biotechnology, Edinburgh, United Kingdom. July 13-17.
39. Skretas, G. -“Engineering bacteria for the discovery of potentially therapeutic compounds against protein misfolding diseases”, 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Athens, Greece. December 6-8.
38. Matis, I., Delivoria, D. C., Skretas, G. 2013. Biosynthesis and high-throughput genetic screening of cyclic peptides with potential therapeutic properties for Alzheimer’s disease. 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Athens, Greece. December 6-8. **[Award for Best Poster presentation]**.
37. Gialama, D., Kolisis, F., and Skretas, G. 2013. Engineering Escherichia coli strains that suppress the toxicity of membrane protein overexpression. 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology. December 6-8.
36. Zarafeta, D., Skretas, G. and Kolisis, F. 2013. High-throughput screening of metagenomic libraries for the detection of thermostable hydrolases using E. coli expression systems. 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Athens, Greece. December 6-8.
35. Delivoria, D. C., and Skretas, G. 2013. Identification of potentially therapeutic compounds that enhance the stability of a carcinogenic p53 variant. 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology. Athens, Greece. December 6-8.
34. Skretas, G. 2013. Engineering bacteria for the discovery of potentially therapeutic compounds against protein misfolding diseases, 2nd Symposium on applied synthetic biology in Europe, Malaga, Spain. November 25–27.
33. Matis, I., Delivoria, D., Papaevgeniou, N., Chondrogianni, N., and Skretas, G. 2013. Engineering bacteria for the discovery of potential therapeutic compounds against protein misfolding diseases. EMBO-EMBL Symposium “New approaches and concepts in microbiology”, EMBL Heidelberg, Germany. October 14-16.
32. Delivoria, D. C., and Skretas, G. 2013. Identification of potentially therapeutic compounds that enhance the stability of a carcinogenic p53 variant. International Summer School on Protein Interactions, Assemblies and Human Disease. Spetses, Greece. September 16-26.

31. Matis, I., Delivoria, D. C., Kolisis, F., and Skretas, G. 2013. Biosynthesis and genetic screening of compounds with potential therapeutic properties for Alzheimer's disease, through the use of *E. coli* cells. 9th Panhellenic Scientific Chemical Engineering Congress. Athens, Greece. May 23-25.
30. Zarafeta, D., Skretas, G. and Kolisis, F. 2013. High-throughput screening of metagenomic libraries for the detection of thermostable hydrolases using *E. coli* expression systems. 9th Panhellenic Scientific Chemical Engineering Congress. Athens, Greece. May 23-25.
29. Delivoria, D. C., Kolisis, F., and Skretas, G. 2013. Use of simple bacterial hosts and of molecular evolution approaches for the discovery of compounds with potentially anti-cancer properties. 9th Panhellenic Scientific Chemical Engineering Congress. Athens, Greece. May 23-25.
28. Gialama, D., Kolisis, F., and Skretas, G. 2013. Modification and study of bacterial strains of *Escherichia coli* with the aim to produce membrane proteins using methods of Systems Biology. 9th Panhellenic Scientific Chemical Engineering Congress. Athens, Greece. May 23-25.
27. Skretas, G. 2013. Strain Engineering for Enhanced Accumulation of Recombinant Membrane Proteins in *Escherichia coli*, EMBO Conference "The Biology of molecular chaperones: From molecules, organelles and cells to misfolding diseases". Santa Margherita di Pula, Italy, May 17-22.
26. Gialama, D., Kolisis, F., and Skretas, G. 2012. Overcoming the toxicity of membrane proteins in *Escherichia coli*. Food, Health and well-being, Belgrade Food International Conference, Belgrade, Serbia. November 26-28.
25. Skretas, G., Makino, T., Varadarajan, N., Pogson, M., and Georgiou, G. 2012. Multi-copy genes that enhance the yield of mammalian G protein-coupled receptors in *Escherichia coli*. 15th European Congress on Biotechnology. Istanbul, Turkey. September 23-26.
24. Skretas, G., Makino, T., Varadarajan, N., Pogson, M., and Georgiou, G. 2012. Multi-copy genes that enhance the yield of mammalian G protein-coupled receptors in *Escherichia coli*. 26th Annual Symposium of the Protein Society. San Diego, California, USA. August 5-8.
23. Skretas, G. 2011. Engineered bacteria for the detection, discovery, and assessment of human hormones. 2nd Faculty of Chemistry – University of Belgrade ERA Workshop, Belgrade, Serbia. October 18-19.
22. Skretas, G., Meligova, A., Villalonga-Barber, C., Mitsiou, D.J., Alexis, M.N., Micha-Screttas, M., Steele, B.R., Screttas, C.G., and Wood, D.W. 2010. Engineered bacteria for the discovery and assessment of human endocrine modulators. 3rd Swedish-Greek Conference in Life Sciences. Athens, March 25-27.
21. Makino, T., Skretas, G., and Georgiou, G. 2010. Genetic Optimization of G-Protein Coupled Receptor Expression in *Escherichia coli*. ACS National Meeting, San Francisco, California, USA, March 21-25.
20. Skretas, G., and Wood, D.W. 2009. Construction of simple bacterial hormone sensing systems based on engineered allosteric enzymes. MicroBiokosmos. Athens, December 11-13.

19. Makino, T., Skretas, G., and Georgiou, G. 2009 Strain Engineering for Enhanced Expression of IgG in *Escherichia coli* Using High Throughput Screening. 20th Annual IBC Conference on Antibody Engineering. San Diego, USA, December 6 – December 10
18. Skretas, G., and Georgiou, G. 2008 Genetic analysis of G protein-coupled receptor expression in *Escherichia coli*. AIChE 2008 National Meeting, Philadelphia, Pennsylvania, USA, November 16-November 21
17. Skretas, G., Varadarajan, N., and Georgiou, G. 2008 Genetic engineering of *Escherichia coli* for high-level expression of integral membrane proteins. AIChE 2008 National Meeting, Philadelphia, Pennsylvania, USA, November 16-November 21
16. Skretas, G., Link, A.J., and Georgiou, G. 2008 Genetic analysis of heterologous membrane protein expression in *Escherichia coli*. Microbial Genetics and Genomics V, Cassis, France, May 16-19.
15. Skretas, G., and Wood, D.W. 2005 An engineered chimeric enzyme for use in drug sensing, discovery and development. AIChE 2005 National Meeting, Cincinnati, Ohio, USA, October 30-November 4.
14. Skretas, G., and Wood, D.W. 2004 Ligand-induced protein Splicing: a general way of achieving post-translational regulation of protein activity in vivo. AIChE 2005 National Meeting, Cincinnati, Ohio, USA, October 30 - November 4.
13. Skretas, G., and Wood, D.W. 2005 Construction of simple in vivo drug screening systems. 18th Mid-Atlantic Biochemical Engineering Consortium, Rutgers University, Rutgers, New Jersey, USA, April 8.
12. Skretas, G., and Wood, D.W. 2005 Engineering hormone-sensitive bacteria. 229th ACS National Meeting, San Diego, California, USA, March 13-17.
11. Skretas, G., and Wood, D.W. 2005 Post-translational regulation of protein activity with small-molecule-controlled peptide splicing. 229th ACS National Meeting, San Diego, California, USA, March 13-17.
10. Skretas, G., and Wood, D.W. 2004 Evolution of allosteric protein switches and biosensors. Evolution at Princeton Symposium, Princeton University, Princeton, New Jersey, USA, December 13.
9. Skretas, G., and Wood, D.W. 2004 Engineering hormone-sensitive bacteria for efficient drug screening. AIChE 2004 National Meeting, Austin, Texas, USA, November 7-12.
8. Skretas, G., and Wood, D.W. 2004 Controlling protein function with peptide splicing. AIChE 2004 National Meeting, Austin, Texas, USA, November 7-12.
7. Skretas, G., and Wood, D.W. 2004 Development of generic molecular protein switches. First International Meeting on Synthetic Biology, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA, June 10-12.
6. Skretas, G., and Wood, D.W. 2004 Engineering hormone-sensitive bacteria: A step further towards efficient drug screening. 17th Mid-Atlantic Biochemical Engineering Consortium, University of Maryland Baltimore County, March 22. *Award for Best Presentation.

5. Skretas, G., and Wood, D.W. 2003 Generating small-molecule-controlled inteins for applications in biotechnology. AIChE 2003 National Meeting, Austin, Texas, USA, November 16-21.
4. Skretas, G., Duggan, H.C., and Wood, D.W. 2003 A novel screening/selection system for protein splicing. AIChE 2003 National Meeting, San Francisco, California, USA November 16-21.
3. Skretas, G., and Wood, D.W. 2003 Generating small-molecule-controlled inteins for applications in biotechnology. 16th Mid-Atlantic Biochemical Engineering Consortium, University of Maryland at College Park, College Park, Maryland, USA, March 14.
2. Skretas, G., and Wood, D.W. 2003 Generating small-molecule-controlled inteins for biotechnology applications. Vaccine Bioprocess Engineering Symposium, Merck Research Laboratories, West Point, Pennsylvania, USA, March 7.
1. Papadopoulos, M.G., Skretas, G., Raptis, S.G., Theologitis M.M. 1999 Nonlinear optical properties of lithium-containing derivatives. SPIE Photonics West, San Jose, California, USA, January 23-29.

Other Activities

Member of scientific societies

1. Hellenic Society of Biochemistry and Molecular Biology
2. European Federation of Biotechnology
3. The Protein Society
4. American Chemical Society
5. American Institute of Chemical Engineers

Editorial activities

1. Guest Associate Editor for *Frontiers in Microbiology*. Special topic | Second Edition: Protein Aggregation And Solubility In Microorganisms (Archaea, Bacteria And Unicellular Eukaryotes): Implications And Applications
2. Review Editor in Synthetic Biology for *Frontiers in Bioengineering and Biotechnology*

Reviewer for peer-review journals

1. ACS Synthetic Biology
2. Metabolic Engineering
3. Cells
4. PLoS One
5. BBA – Biomembranes
6. Mechanisms of Ageing and Development
7. Marine Drugs
8. Microbial Cell Factories

9. Catalysts
10. Frontiers in Microbiology
11. Journal of Microbiology
12. Applied Biochemistry and Biotechnology
13. Analyst
14. Molecules
15. Gene Reports
16. Bioengineering
17. Biodegradation
18. Plant Biotechnology Journal

Reviewer for research proposals & projects

1. 2019. Proposal evaluator. National Research Foundation, Singapore
2. 2019. Proposal evaluator. Science Fund of the Republic of Serbia, Serbia
3. 2018-2019. Proposal evaluator. State Scholarships Foundation (IKY), Greece
4. 2018. Proposal evaluator. Knowledge Foundation, Sweden
5. 2010, 2015. Proposal evaluator. General Secretariat of Research and Technology, Greece
6. 2014. Project evaluator. The Ministry of Education, Youth and Sports, Czech Republic: Czech-Norwegian Research Programme
7. 2014. Proposal evaluator. European Commission: ERASynBio Joint Call for Transnational Research Projects: Building Synthetic Biology Capacity Through Innovative Transnational Projects

Organizer of conferences and workshops

1. November 2019. Organizing Committee Member, 70th Annual Conference of the Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece
2. November 2018. Organizing Committee Member, International Conference on Biotechnology 2018 - Novel Trends and Innovations in Biotechnology, Dubai, United Arab Emirates
3. March 2018. Organizing Committee Member, Biotech-2018, Rome, Italy
4. October 2017. Organizing Committee Member, 10th Swedish-Hellenic Life Sciences Conference, Athens, Greece
5. November 2016. Organizing Committee Member -12th Euro Biotechnology Congress, Alicante, Spain.

6. July 2016. Organizing Committee Member - 2nd Industrial Biotechnology and Bioeconomy Congress, Berlin, Germany.
7. October 2015. Organizing Committee Member - 8th Swedish-Hellenic Life Sciences Conference, Athens, Greece.
8. 2013 - 2014. Organizing Committee Member of the Annual Seminar Series of the Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic research Foundation, Athens, Greece.
9. 2012 - 2013. Organizing Committee Member of the Annual Seminar Series of the Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic research Foundation, Athens, Greece.
10. 2011 - 2012. Organizing Committee Member of the Annual Seminar Series of the Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic research Foundation, Athens, Greece.
11. October 2011. Organizing Committee Member - 4th Swedish-Hellenic Life Sciences Conference & Course on Systems Biology, Athens, Greece.
12. 2010 - 2011. Organizing Committee Member of the Annual Seminar Series of the Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic research Foundation, Athens, Greece.

Publicity – Media exposure

Television interviews:

⇒ Interview on the ERT TV documentary “The roads to economic growth”:

<https://webtv.ert.gr/ert2/16ion2019-oi-dromoi-tis-anaptyxis/?fbclid=IwAR3KIUkUf2uuJ5dF5vcQAIZKfa-lpl9edEbD8nWTGByxAzlexIFSTnp2olw>

⇒ Interview on the ERT3 TV show i-lab:

<https://webtv.ert.gr/ert3/i-lab/22dek2018-i-lab/>

Newspaper interviews:

⇒ Interview in “Kathimerini”:

<https://www.kathimerini.gr/1032541/article/epikairothta/ellada/ekanan-thn-idea-toys-epixeirhsh>

⇒ Interview in “Naftemporiki”:

<https://www.naftemporiki.gr/story/1423235/xrimatodotisi-ellina-ereuniti-gia-baktiria-sotires>

⇒ Interview in “Kathimerini”:

<http://www.kathimerini.gr/1000909/article/epikairothta/ellada/ena-kyttariko-ergasthrio-kata-as8eneiwn>

⇒ Interview in “Avgi”:

<http://www.avgi.gr/article/10965/8644050/tropopoiemena-bakteria-boethoun-sten-anakalypse-neon-pharmakon-kata-neuroekphylistikon-astheneion>