

CURRICULUM VITAE

Name: Maria E. Grigoriou
Address: Koleti 2, Alexandroupolis, 68100
Telephone: (30) 25510-30657
Fax: (30) 25510-30657
e-mail: mgrigor@mbg.duth.gr
Homepage: <http://utopia.duth.gr/~mgrigor/>
Nationality: Greek
Languages: Greek (native), English, French, Spanish

Education and Training

- 1986** B.Sc. in Biology, Department of Biology, University of Athens, Athens, Greece.
- 1986-1988** Graduate student at the Department of Biology, University of Crete and Institute of Molecular Biology and Biotechnology (IMBB), Heraklion, Greece.
- 1988** *M.Sc.* in Molecular Biology, University of Crete and Institute of Molecular Biology and Biotechnology (IMBB) Heraklion, Greece.
Thesis Advisor: Prof. S. Papamatheakis
- 1988 - 1993** Graduate student at the Department of Biology, University of Crete and Institute of Molecular Biology and Biotechnology (IMBB), Heraklion, Greece.
- 1993** PhD in Molecular Biology
Thesis Title: «The functional organisation of the MHC class II proximal 5' regions: elements and factors that determine tissue specific and interferon gamma activity of E α and E β promoters».
Thesis Advisor: Prof. S. Papamatheakis
University of Crete and Institute of Molecular Biology & Biotechnology (IMBB), Heraklion, Greece.

- 1993 - 1995** Post-doctoral fellow at the laboratory of Prof. D. Karagogeos.
University of Crete, Medical School and Institute of Molecular Biology & Biotechnology (IMBB), Heraklion, Greece.
- 1995 - 2000** Post-doctoral fellow at the laboratory of Prof. V. Pachnis.
Division of Developmental Neurobiology, National Institute for Medical Research, Mill Hill, London, UK.
- 2000-2005** Teaching Biology at the Hellenic-American Educational Foundation (HAEF), Athens, Greece.
- 2002-2005** Temporary teaching staff (P.D. 407/80)
Department of Molecular Biology & Genetics, Democritus University of Thrace, Alexandroupolis, Greece.
- 2005- 2012** Assistant Professor of Molecular Biology.
Department of Molecular Biology & Genetics, Democritus University of Thrace, Alexandroupolis, Greece
- 2012- present** Associate Professor of Molecular & Developmental Biology.
Department of Molecular Biology & Genetics, Democritus University of Thrace, Alexandroupolis, Greece.
- 2014-present** Chair of the Department of Molecular Biology & Genetics, Democritus University of Thrace, Alexandroupolis, Greece.

Fellowships-Awards

1986 – 1988	Graduate Student (MSc) Fellowship from the Institute of Molecular Biology & Biotechnology, Heraklion, Crete.
1988 – 1993	Graduate Student (PhD) fellowship from the University of Crete Heraklion, Crete.
1986 – 1993	Graduate (PhD) Student Fellowship from the Institute of Molecular Biology & Biotechnology, Heraklion, Crete.
1994	Xanthopoulos-Pneumatikos annual award for the best PhD thesis discussed in 1993 in Biosciences.
1993 – 1995	Post Doctoral Fellowship from the Institute of Molecular Biology & Biotechnology, Heraklion, Crete.
1995-1996	Post Doctoral Fellowship from the Medical Research Council, London, UK.
1996 – 1998	TMR (Training and Mobility for Researchers) Marie Curie Fellowship from the European Union.
1998 – 2000	Post Doctoral Fellowship from the Medical Research Council, London, UK.
2000	Marie Curie Return grant from the European Union.
2013	Kardjali Hospital Award for the design and development of the Molecular Diagnostics laboratory of the hospital.

Grants

Grant	Budget (euro)
<p>1. Differentiation of human neural stem cells to cholinergic neurons: the role of the transcription factor LHX7. BILATERAL S.&T. COOPERATION between the HELLENIC RE-PUBLIC and the REPUBLIC OF POLAND, GSRT, 3RD COMMUNITY SUPPORT FRAMEWORK, OPERATIONAL PROGRAM "COMPETITIVENESS" (EPAN) Measure 4.3, Action 4.3.6.1. Duration: 2006-2007 Project Leader: M. Grigoriou</p>	11,740
<p>2. Development of infrastructure for the identifications of carriers of inherited diseases. INTERREG IIIA Greece-Bulgaria, 3RD COMMUNITY SUPPORT FRAMEWORK, Measure 3.1. Duration: 2006-2008 Project Leader: M. Grigoriou</p>	300,000
<p>3. Detection and functional characterization of insecticide resistance mutations in <i>Bactrocera oleae</i> and <i>Bactrocera dorsalis</i>, for environmentally compatible control applications. SCIENTIFIC and TECHNOLOGICAL COOPERATION Between RTD ORGANISATIONS in GREECE and RTD ORGANISATIONS in TAIWAN Measure 4.3, Action 4.3.6.1. Duration 2006- 2008 Project Leader: John Vontas</p>	60,000
<p>4. ace-1 mutation in natural populations of mosquitos in Evros providence «Bioapplications Company» Duration: 2008-present Project Leader: M. Grigoriou</p>	15,000
<p>5. Strengthening Regional Bioresearch Potential in Greece: Advanced scientific performance at the Department of Molecular Biology and Genetics in Thrace, 7th Framework REGPOT-2008-1 EUROPEAN UNION Project Leader: M. Agianian</p>	1,000,000

6. Cross-Border Collaboration for the Promotion of Technological Applications and Scientific Education on Medicinal Molecular Biology.
INTERREG IIIA Greece-Bulgaria, 3RD COMMUNITY SUPPORT FRAMEWORK, Measure 3.1.
Duration: 2011-2013
Project Leader: G. Skavdis
509,407
7. "miREG: MicroRNAs and Transcription Factor Networks in the regulation of cell differentiation, aging and tumorigenesis"
GSRT/Thalis Action.
Duration: 2012-2015
Project Leader: J. Papamatheakis
600,000

Teaching

A. Undergraduate courses

2003 – present *Developmental Biology (compulsory course, 5th semester).*

The course covers general principles of animal development. Invertebrate and vertebrate model organisms - *C. elegans*, *Drosophila melanogaster*, chick, *Xenopus*, mouse and human are studied. The intimate connection between Developmental Biology and Evolution, is an important theme throughout the course.

2005 – present *Stem cell & Regenerative Biology (Elective, 6th semester).*

An elective course for students interested in Stem Cell Biology/Regenerative Biology. Students are introduced to the basics of Regenerative Biology and Stem Cell Biology as well as to key technologies in stem cell research. The course also covers key concepts of the applications of stem cells from the laboratory to the clinic.

2005 - present *Molecular Neurobiology (compulsory course, 7th semester, co-taught with Ass. Professor A. Paleologou).*

An introductory course in modern Molecular Neurobiology. The course covers experimental work on a wide range of invertebrate and vertebrate model organisms. Emphasis is given in the molecular mechanisms underlying neurological disorders.

2012 – present *Methods in Molecular Biology (compulsory hands-on laboratory course, 5th semester, co-taught with Professor R. Sandaltzopoulos, As. Professor G. Skavdis, Ass. Professor A. Galanis & Ass. Professor A. Paleologou).*

A hands-on laboratory course aiming to introduce the students to the basic methods used in molecular

biology research. In addition students are taught how to record and interpret scientific data as well as to formulate hypotheses and to design appropriate experiments to test them.

2005 – present Supervision of 22 students performing Diploma Theses in the Department of Molecular Biology & Genetics, DUTH.

2014- present Supervision of 10 undergraduate students performing Practical training in the Department of Molecular Biology & Genetics, DUTH.

2005 – 2012 ERASMUS program co-ordinator for the Department of Molecular Biology and Genetics, Democritus University of Thrace

B. Graduate courses

2007 – present Supervision of 4 PhD students.

2014 – present Master's Program “Translational Research in Molecular Biology & Genetics”

- Stem cells: from Biology to applications
- Stem cells: ethical, policy & legislation issues
- Biomarkers of pluripotency

2016 – present Master's Program “Didactics of Biosciences”

- The laboratory in Biosciences education

Publications

Publications	27
Total impact factor:	183,7
Average impact factor:	7,10
Total citations:	3581
h-index	14

1. Stylianopoulou E., Kalamakis G., Pitsiani M., Fysekis I., Ypsilantis P., Simopoulos C., Skavdis G. & **Grigoriou M.** (2016) HSPC280, a winged helix protein expressed in the subventricular zone of the developing ganglionic eminences, inhibits neuronal differentiation. *Histochem Cell Biol.* 145 (2), 175-184.
2. Poulatsidou K.N., Lagoudaki R., Touloumi O., Kesidou E., Boziki M., Ravanidis S., Chlichlia K., **Grigoriou M.** & Grigoriadis N. (2015) Immunophenotype of mouse cerebral hemispheres-derived neural precursor cells. *Neurosci Lett.* 611: 33-39. doi: 10.1016/j.neulet.2015.11.011.
3. Ravanidis S., Poulatsidou K.N., Lagoudaki R., Touloumi O., Polyzoidou E., Lourbopoulos A., Nousiopoulou E., Theotokis P., Kesidou E., Tsalikakis D., Karacostas D., **Grigoriou M.**, Chlichlia K. & Grigoriadis N. (2015) Subcutaneous Transplantation of Neural Precursor Cells in Experimental Autoimmune Encephalomyelitis Reduces Chemotactic Signals in the Central Nervous System. *Stem Cells Transl Med.* pii: sctm.2015-0068.
4. Stylianopoulou E, Skavdis G & **Grigoriou M.** Zinc-based fixation for high-sensitivity in situ hybridization: a nonradioactive colorimetric method for the detection of rare transcripts on tissue sections. (2014) *Methods Mol Biol.* 1211: 125-38. doi: 10.1007/978-1-4939-1459-3_11.
5. Sadikoglou E, Daoutsali E, Petridou E, **Grigoriou M** & Skavdis G. Comparative analysis of internal ribosomal entry sites as molecular tools for bicistronic expression. (2014) *J Biotechnol.* 181: 31-4. doi: 10.1016/j.jbiotec.2014.03.033.
6. Stylianopoulou E., Lykidis D., Ypsilantis P., Simopoulos C., Skavdis G. & **Grigoriou M.** (2012) A rapid and highly sensitive method of non radioactive colorimetric in situ hybridization for the detection of mRNA on tissue sections. *PLoS ONE* 7(3): e33898. doi:10.1371/journal.pone.0033898.
7. Paschou P., Stylianopoulou E. Karagiannidis J., Rizzo R., Tarnok Z., Wolanczyk T., Hebebrand J., Nöthen M.J., Lehmkuhl G., Farkas L., Nagy P., Szymanska U., Lykidis D., Androutsos C., Tsironi V., Koumoula A., Barta C., Ypsilantis P.,

- Simopoulos C., TSGeneSEE, Skavdis G. & **Grigoriou M.** (2012) Evaluation of the LIM homeobox genes *LHX6* and *LHX8* as candidates for Tourette Syndrome. *Genes, Brain and Behaviour*, Mar 21. doi: 10.1111/j.1601-183X.2012.00778.x.
8. Kazanidou A., Nikou D., **Grigoriou M.**, Vontas J. & Skavdis G. (2009) Short report: a multiplex PCR assay for simultaneous genotyping of *kdr* and *ace-1* loci in *Anopheles gambiae*. *Am J Trop Med Hyg.* 80: 236-8.
 9. Liodis P., Denaxa M., **Grigoriou M.**, Akufo-Addo C., Yanagawa Y. & Pachnis V. (2007) *Lhx6* activity is required for the normal migration and specification of cortical interneuron subtypes. *J. Neurosci.* 27: 3078-3089.
 10. Fragkouli A., Hearn C., Errington M., Cooke S., **Grigoriou M.**, Bliss T., Stylianopoulou F. & Pachnis V. (2005) Loss of forebrain cholinergic neurons and impairment in spatial learning and memory in LHX7-deficient mice. *Eur. J. Neurosci.* 21: 2923–2938.
 11. Parnavelas J.G., Anderson S.A., Lavdas A., **Grigoriou M.**, Pachnis V. & Rubenstein J.L. (2000). The contribution of the ganglionic eminence to the neuronal cell types of the cerebral cortex. *Novartis Found. Symp.* 228: 129-139; discussion 139-147.
 12. **Grigoriou M.**^{*}, Lavdas^{*} A., Pachnis V. & Parnavelas J. (1999). The medial ganglionic eminence gives rise to a population of early neurons in the developing cerebral cortex. *J. Neurosci.* 19: 7881-7888. (^{*}*equal contribution*)
 13. Taraviras S., Marcos-Gutierrez C.V., Durbec P., Jani H., **Grigoriou M.**, Sukumaran M., Wang L.C., Reisman G. & Pachnis V. (1999) Signalling by the RET tyrosine kinase receptor and its role in the development of the mammalian enteric nervous system. *Development* 126: 2785-2797.
 14. Tucker A., Yamada G., **Grigoriou M.**, Pachnis V. & Sharpe T. (1999). Fgf8 determines rostral-caudal polarity in the first branchial arch. *Development* 126: 51-61.
 15. **Grigoriou M.**^{*}, Tucker A.^{*}, Sharpe P. & Pachnis V. Expression and regulation of *Lhx6* and *Lhx7*, a novel subfamily of LIM homeodomain encoding genes, suggests a role in mammalian head development. (1998) *Development* 125: 2063-2074. (^{*}*equal contribution*)
 16. Pachnis V., Durbec P., Taraviras S., **Grigoriou M.** & Natarajan D. (1998) III. Role Of the RET signal transduction pathway in development of the mammalian enteric nervous system. *Am. J. Physiol.* 275: G183-G186.
 17. Natarajan D., **Grigoriou M.**, Marcos-Gutierrez C.V., Atkins C. & Pachnis V. (1999). Multipotential progenitors of the mammalian enteric nervous system

- capable of colonizing aganglionic bowel in organ culture *Development* 126: 157-168.
18. Durbec P., Marcos-Gutierrez C.V., Kilkenny C., **Grigoriou M.**, Wartiovaara K., Suvanto P., Smith D., Ponder B., Costantini F., Saarma M., Sariola H. & Pachnis V. (1996). GDNF signalling through the Ret receptor tyrosine kinase. *Nature* 381: 789-793.
 19. Trupp M., Arenas E., Fainzilber M., Nilsson A.S., Sieber B.A., **Grigoriou M.**, Kilkenny C., Salazar-Gruesso E., Pachnis V., Arumae U., Saarma M., Sariola H. & Ibanez C. (1996). Functional receptor for GDNF encoded by the *c-ret* proto-oncogene. *Nature* 381: 785-788.
 20. **Grigoriou M.** (1993). The functional organisation of the MHC class II proximal 5' regulatory regions: Elements and factors that determine tissue specific and interferon- γ activity of *E β* promoter. Ph.D thesis, University of Crete.
 21. **Grigoriou M.**, Kastrinaki M.C., Modi W., Theodorakis K., Mankoo B., Pachnis V., & Karagogeos D. (1995). Isolation of the human *MOX2* homeobox gene and localisation to chromosome 7p22.1-p21.3. *Genomics* 26: 550-555.
 22. Thanos D., **Grigoriou M.**, Stravopodis D., Liapaki K., & Papamatheakis J. (1993). The MHC class II *E β* promoter: A complex arrangement of positive and negative elements determines B cell and interferon gamma regulated expression. *Nucleic Acids Res.* 21: 6010-6019.
 23. Vassiliadis S., Kyrpides N., Stravopodis D., **Grigoriou M.**, Athanassakis I. & Papamatheakis J. (1993) Investigation of intracellular signals generated by γ -interferon and IL-4 leading to the induction of class II antigen expression. *Mediators Inflamm.* 2: 343-348.
 24. Vassiliadis S., Stravopodis D., **Grigoriou M.**, Kyrpides N. & Papamatheakis J. (1993) One- and two-level regulation patterns affecting NF kappa B mRNA activity after treatment with TNF-alpha, IFN-gamma and IL-4. *Eur. Cytokine Netw.* 4: 25-30.
 25. Athanassiadis A., **Grigoriou M.**, Thanos D., Papamatheakis J. & Kokkinidis, D. 1990. Complete sequence of the Pvu II restriction enzyme *Nucleic Acids Res.* 18: 6434.
 26. Athanassakis I., Galanopoulos V., **Grigoriou M.**, and Papamatheakis J. (1989) Induction of class II MHC antigen expression on the murine placenta correlates with fetal abortion. *Cell. Immunol.* 128: 438-449.
 27. Thanos D., Mavrothallasitis G, **Grigoriou M.**, Bygrave A. & Papamatheakis J. (1990) Multiple control regions regulate the constitutive and inducible expression of *E α* gene. *Ann. N. Y. Acad. Sci.* 546: 255-257.

Books

M. Grigoriou – G. Skavdis «Introduction to Biology» Savvalas ed., Athens 2002.

Fysekis I., Chytoudis-Peroudis C.C., Stylianopoulou E., Skavdis G., & M. Grigoriou. «Methods in Molecular Biology-A laboratory manual, Part II», Alexandroupolis 2015.