



## George C. Rodakis

Born: July 30, 1948

Nationality: Greek

Professor of Molecular & Evolutionary Biology

National & Kapodistrian University of Athens

Faculty of Biology

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## Academic Qualifications

1971

### BA in Biology

*Dept. of Biology, University of Patras, Greece*

1978

### Ph.D. in Biology

*Dept. of Biology, University of Athens, Greece*

## Appointments

1967 – 1971

(3 mo/yr) Responsible of Quality Control in Food Canning Companies

1967 – 1971

Teaching and Research Assistant, *University of Patras*

1973 – 1978

**Lecturer**, *University of Athens, Faculty of Biology*

1975 – 1976

(6 mo/yr) Visiting Post-Grad. Student, *Harvard University*

1978 – 1986

**Senior Lecturer**, *University of Athens, Faculty of Biology*

1978 – 1980

Post-Doctoral Fellow, *Harvard University*

1981 – 1984

(4-6 mo/yr) Post-Doctoral Research Fellow, *Harvard University*

1986 – 1994

**Assistant Professor**, *University of Athens, Faculty of Biology*

1994 – 2010

**Associate Professor**, *University of Athens, Faculty of Biology*

2004 – 2005

Visiting Professor, *Department of Biology, University of Crete*

2010 – present

**Professor of Molecular & Evolutionary Biology**, *University of Athens, Faculty of Biology*

## Postgraduate Studies

1975, 1976  
5–6 mo. per year

### The Biological Laboratories, Harvard University

- *Methods & Techniques on Protein Fractionation, Isolation, Amino acid Analysis and Sequencing*
- *Computational Phylogenetic Analysis of Protein Sequences*

## Postdoctoral Research

1978 – 1980  
&  
1981– 1984  
3 mo. per year

### The Biological Laboratories, Harvard University

- *Structural and Phylogenetic Analysis of Bombyx mori chorion genes as revealed by cDNA clones and genomic sequences*
- *Methods & Techniques on Recombinant DNA Technology*
- *Computer aided Analysis of DNA and Protein sequences*

1979 1 month	<b>University of California, Irvine</b> <i>Methods of Rearing and Microdissection of Bombyx mori</i>
<b>Postdoctoral Fellowships</b>	
1978 – 1979	<b>EMBO Postdoctoral Research Fellowship</b> <i>The Biological Laboratories, Harvard University</i>
1978 – 1980	<b>NIH - Fogarty Postdoctoral Research Fellowship</b> <i>The Biological Laboratories, Harvard University</i>
1980 – 1984 3 months per year	<b>Harvard University Postdoctoral Res. Fellowships</b> <i>The Biological Laboratories, Harvard University</i>
<b>Other distinctions</b>	
1967 – 1971 1971 1975, 1976	<ul style="list-style-type: none"> <li>• Fellowship (IKY) for undergraduate studies.</li> <li>• National Award for taking BA degree in the shortest possible time with honors.</li> <li>• Fellowship of Greek Ministry of Coordination for postgraduate studies and research in Harvard University</li> </ul>
<b>Member of:</b>	
<ul style="list-style-type: none"> <li>• Hellenic Society of Biological Sciences</li> <li>• Hellenic Biochemical and Biophysical Society</li> <li>• The Malacological Society of London</li> <li>• International Society of Sericology</li> </ul>	
<b>Teaching Experience</b>	
<b>Courses (undergraduate level):</b>	
<ul style="list-style-type: none"> <li>• Evolution - Molecular Evolution</li> <li>• Molecular Biology</li> <li>• Advanced Molecular Biology</li> <li>• Computers in Biology</li> <li>• General Biology</li> <li>• Biochemistry (student practicals)</li> <li>• Cell Biology (student practicals)</li> <li>• Genetics (student practicals)</li> </ul>	
<b>Courses (postgraduate level, M.Sc.):</b>	
<ul style="list-style-type: none"> <li>• Molecular Evolution</li> <li>• Computer aided DNA and protein sequence analysis</li> <li>• Advanced Molecular Biology</li> <li>• Recombinant DNA Methods and Techniques</li> <li>• Bioinformatics</li> </ul>	
<b>Supervision of Ph.D. students:</b>	
<ul style="list-style-type: none"> <li>• Completed: Six Ph.D. theses (V. Douris, E. Hatzoglou, L. Kravariti, A. Mizi, K. Venetis, F. Ieremiadou, E. Kyriakou) on topics related to Molecular Biology and Molecular Evolution.</li> <li>• Up to now, member of about 50 advisory committees and external examiner for more than 60 Ph.D. students.</li> </ul>	

1998 – 1999  
1980 – today  
1980 – today

## Other responsibilities

- Head of Dept. of Biochemistry & Molecular Biology
- Evaluator of research proposals (National, EU, USA-NSF grant applications) and of applications for post-grad. & post-doc. fellowships (National and EU organizations)
- Referee of research articles (SCI scientific journals, Genetics, Mol. Biol. Evol., etc.)

## Research Experience

- Recombinant DNA technology.
- Computer sequence analysis - Phylogenetic analysis.
- Analytical and preparative methods in protein fractionation and isolation.
- Protein sequencing.

## Scientific Interests

- Molecular Biology, Molecular Genetics, Evolutionary Genomics.
- Structure, function, gene organization and evolution of Metazoan mtDNA.
- Computational Molecular Phylogeny and Phylogeography.
- Structure, evolution, and regulation of eukaryotic multigene families.

## Current Research Projects

- Molecular basis of the unorthodox phenomenon of Doubly Uniparental Inheritance of mtDNA in bivalve mollusks.
- Phylogeographic analysis of the genus *Albinaria* (Gastropoda: Clausiliidae), based on mtDNA and nuclear sequences.
- Structure, evolution, and regulation of eukaryotic multigene families. Focused on *Bombyx mori* chorion genes superfamily.
- Validation of PCR as diagnostic tool for deletions in human mitochondrial DNA.

## Research Impact Indexes

- Number of citations: Total, >900; average per year, 25; per article, 25.
- Publication's Impact Factor: Total, ~180; average, 5.0.
- *h-index*: 18.

## Publications

### **Ph.D. Thesis**

- Rodakis, G. C. (1978). *The Chorion of the insect Antheraea polyphemus: A model system for the study of Molecular Evolution*. University of Athens.

### **Books**

1. Rodakis, G.C. (2000). *Evolution*. Hellenic Open University, ed., ISBN: 960-538-243-1
2. Rodakis, G.C. (2001). *Introduction to Evolutionary Biology*. Litsas Medical Publications, ed., ISBN: 960-372-049-6

### **Abstracts in International and National Conferences**

- 82, in eight of them as invited speaker

**Publications in International peer reviewed Scientific Journals**

1. Kyriakou, E., L. Kravariti, T. Vasilopoulos, E. Zouros and Rodakis, G. C. (2015). A protein binding site in the M mitochondrial genome of *Mytilus* is essential for its paternal transmission. *Gene*. **562**: 83-94.
2. Kyriakou, E., E. Chatzoglou, G. C. Rodakis and Zouros, E. (2014). Does the ORF in the control region of *Mytilus* mtDNA code for a protein product?. *Gene*. **546**: 448-450.
3. Kyriakou, E., E. Chatzoglou, E. Zouros and Rodakis, G. C. (2014). The rRNA and tRNA transcripts of maternally and paternally inherited mtDNAs of *Mytilus galloprovincialis* suggest presence of a 'degradosome' in mussel mitochondria and necessitate the re-annotation of the l-rRNA/CR boundary. *Gene*. **540**: 78-85
4. Kyriakou, E., Kravariti, L., Zouros, E. and Rodakis, G. C. (2013). Sex-specific mtDNA-protein interactions in a system of obligatory biparental mtDNA inheritance and the exceptional role of perinuclear mitochondria. *FEBS JOURNAL* **280**: 260-260.
5. Chatzoglou, E., Kyriakou, E., Zouros, E. and Rodakis G. C. (2013). The mRNAs of maternally and paternally inherited mtDNAs of the mussel *Mytilus galloprovincialis*: Start/end points and polycistronic transcripts. *Gene* **520**: 156-165.
6. Ladoukakis, E. D., Theologidis, I., Rodakis, G. C. and Zouros, E. (2011). Homologous recombination between highly diverged mitochondrial sequences: Examples from maternally and paternally transmitted genomes. *Mol. Biol. Evol.* **28**: 1847-1859.
7. Kyriakou, E., Zouros, E. and Rodakis, G. C. (2010). The atypical presence of the paternal mitochondrial DNA in somatic tissues of male and female individuals of the blue mussel species *Mytilus galloprovincialis*. *BMC Res. Notes* **3**: 222.
8. Giokas, S., Thomaz, D., Douris, V., Lecanidou, R. and Rodakis, G. C. (2010). 5000 years of molecular evolution in a human transported land snail population. *J. Moll. Stud.* **76**: 49-56.
9. Cao, L., Ort, B. S., Mizi, A., Pogson, G., Kenchington, E., Zouros, E. and Rodakis, G. C. (2009). The control region of maternally and paternally inherited mitochondrial genomes of three species of the sea mussel genus *Mytilus*. *Genetics* **181**: 1045-1056.
10. Ieremiadou, F. and Rodakis, G. C. (2009). Correlation of the 4977 bp mitochondrial DNA deletion with human sperm dysfunction. *BMC Res. Notes* **2**: 18.
11. Venetis, C., Theologidis, I., Zouros, E. and Rodakis, G. C. (2007). A mitochondrial genome with a reversed transmission route in the Mediterranean mussel *Mytilus galloprovincialis*. *Gene* **406**: 79-90.
12. Douris, V., Giokas, S., Thomaz, D., Lecanidou, R. and Rodakis, G. C. (2007). Inference of evolutionary patterns of the land snail *Albinaria* in the Aegean archipelago: is vicariance enough? *Mol. Phyl. Evol.* **44**: 1224-1236.
13. Rodakis, G. C., Cao, L., Mizi, A., Kenchington, E. and Zouros, E. (2007). Nucleotide content gradients in the maternal and paternal mitochondrial genomes of *Mytilus galloprovincialis*. *J. Mol. Evol.* **65**: 124-136.
14. Venetis, C., Theologidis, I., Zouros, E. and Rodakis, G. C. (2006). No evidence for presence of maternal mitochondrial DNA in the sperm of *Mytilus galloprovincialis* males. *Proc. Roy. Soc. B* **273**: 2483-2489.
15. Mizi, A., Zouros, E. and Rodakis, G. C. (2006). Multiple events are responsible for an insertion in a paternally inherited mtDNA of the mussel *Mytilus galloprovincialis*. *Genetics* **172**: 2695-2698.
16. Mizi, A., Moschonas, N., Zouros, E. and Rodakis, G. C. (2005). The complete maternal and paternal mitochondrial genomes of the Mediterranean mussel *Mytilus galloprovincialis*: Implications for the Doubly Uniparental Inheritance mode of mtDNA. *Mol. Biol. Evol.* **22**: 952-967.
17. Cao, L., Kenchington, E., Zouros, E. and Rodakis, G. C. (2004). Evidence that the large non-coding sequence is the main control region of maternally and paternally

- transmitted mitochondrial genomes of the marine mussel (*Mytilus* spp). *Genetics* **137**: 835-850.
18. Kravariti, L., Thomas, J.-L., Sourmeli, S., Rodakis, G. C., Mauchamp, B. Chavancy, G. and Lecanidou, R. (2001). The biolistic method as a tool for testing the differential activity of putative silkworm chorion gene promoters. *Ins. Bioch. Mol. Biol.* **31**: 473-479.
  19. Douris, V., Cameron, R. A. D., Rodakis, G. C. and Lecanidou, R. (1998). Mitochondrial phylogeography of the land snail *Albinaria* in Crete: Long-term geologic and short-term vicariance effects. *Evolution* **52**: 116-125.
  20. Douris, V., Giokas, S., Lecanidou, R., Mylonas, R. and Rodakis, G. C. (1998). Phylogenetic analysis of mitochondrial DNA and morphological characters suggest a need for taxonomic re-evaluation within the Alopinae (Gastropoda: Clausiliidae). *J. Moll. Studies* **64**: 81-92.
  21. Hatzoglou, E., Lecanidou, R. and Rodakis, G. C. (1995). Complete sequence and gene organization of the mitochondrial genome of the land snail *Albinaria coerulea*. *Genetics* **140**: 1353-1366.
  22. Douris, V., Rodakis, G. C., Giokas, S., Mylonas, M. and Lecanidou, R. (1995). Mitochondrial DNA and morphological differentiation of *Albinaria* populations (Gastropoda: Clausiliidae). *J. Moll. Studies* **61**: 65-78.
  23. Kravariti, L., Lecanidou, R. and Rodakis, G. C. (1995). Sequence analysis of a small early chorion gene subfamily interspersed within the late gene locus of *Bombyx mori*. *J. Mol. Evol.* **41**: 24-33.
  24. Lecanidou, R., Douris, V. and Rodakis, G. C. (1994). Novel features of metazoan mtDNA revealed from sequence analysis of three mitochondrial DNA segments of the land snail *Albinaria turrita* (Gastropoda: Clausiliidae). *J. Mol. Evol.* **38**: 369-382.
  25. Rodakis, G. C. and Lecanidou, R. (1992). The possible evolutionary significance of repeat elements near and within an early chorion gene in the late chorion locus of *Bombyx mori*. *J. Mol. Evol.* **34**: 315-323.
  26. Lecanidou, R. and Rodakis, G. C. (1992). Three copies of the early gene 6F6 are interspersed in and around the late chorion gene cluster of *Bombyx mori*. *J. Mol. Evol.* **34**: 304-314.
  27. Hibner, B. L., Burke, W. D., Lecanidou, R., Rodakis, G. C. and Eickbush, T. H. (1988). Organization and expression of three genes from the silkworm early chorion locus. *Developmental Biology* **125**: 423-431.
  28. Kafatos, F. C., Spoerel, N., Mitsialis, S. A., Nguyen, H. T., Romano, C., Lingappa, J. R., Mariani, B. D., Rodakis, G. C., Lecanidou, R. and Tsitilou, S. G. (1987). Developmental control and evolution in the chorion gene families of insects. *Advances in Genetics* **24**: 223-242.
  29. Lecanidou, R., Rodakis, G. C., Eickbush, T. H. and Kafatos, F. C. (1986). Evolution of the silk moth chorion gene superfamily: Gene families CA and CB. *Proc. Natl. Acad. Sci., USA* **83**: 6514-6518.
  30. Eickbush, T. H., Rodakis, G. C., Lecanidou, R. and Kafatos, F. C. (1985). A complex set of early chorion DNA sequences from *Bombyx mori*. *Developmental Biology* **112**: 368-376.
  31. Rodakis, G. C., Lecanidou, R. and Eickbush, T. H. (1984). Diversity in chorion multigene family created by tandem duplications and a putative gene - conversion event. *J. Mol. Evol.* **20**: 265-273.
  32. Rodakis, G. C., Moschonas, N. K., Regier, J. C. and Kafatos, F. C. (1983). The B multigene family of chorion proteins in Saturniid silkworms. *J. Mol. Evol.* **19**: 322-332.

33. Tsitilou, S. G., Rodakis, G. C., Alexopoulou, M., Kafatos, F. C., Ito, K. and Iatrou, K. (1983). Structural features of B family chorion sequences in the silkmoth *Bombyx mori*, and their evolutionary implications. *EMBO J.* **2**: 1845-1852.
34. Hamodrakas, S. J., Paulson, J. R., Rodakis, G. C. and Kafatos F. C. (1983). X-ray diffraction studies of a silkmoth chorion. *Int. J. Biol. Macromol.* **5**: 149-153.
35. Lecanidou, R., Eickbush, T. H., Rodakis, G. C. and Kafatos F. C. (1983). Novel B family sequence from an early chorion cDNA library of *Bombyx mori*. *Proc. Natl. Acad. Sci., USA* **80**: 1955-1959.
36. Rodakis, G. C. and Kafatos, F. C. (1982). Origin of evolutionary novelty in proteins: How a high-cysteine chorion protein has evolved. *Proc. Natl. Acad. Sci., USA* **79**: 3551-3555.
37. Rodakis, G. C., Moschonas, N. K. and Kafatos, F. C. (1982). Evolution of a multigene family of chorion proteins in silkmoths. *Mol. Cell. Biol.* **2**: 554-563.
38. Jones, C. W., Rosenthal, N., Rodakis, G. C. and Kafatos, F. C. (1979). Evolution of two major multigene families as inferred from cloned cDNA and protein sequences. *Cell* **18**: 1317-1332.
39. Kafatos, F. C., Efstratiadis, A., Goldsmith, M. R., Jones, C. W., Maniatis, T., Regier, J. C., Rodakis, G. C., Rosenthal, N., Sim, G. K., Thireos, G. and Villa-Komaroff, L. (1978). The developmentally regulated multigene families encoding chorion proteins in Silkmoths. In *Differentiation and Development*, Miami Winter Symposia, vol. **15** (F. Ahmad, J. Schultz, T. R. Rusell and R. Werner, eds). Academic Press, NY pp. 299-315.

## Invited talks

1. Rodakis, G. C. (2011). "W. Heisenberg, Fashionable Biology and Modern Biology". 1<sup>st</sup> Summer School of Proteins. Faculty of Biology, National and Kapodistrian University of Athens. July 1, 2011. Athens.
2. Rodakis, G. C. (2010). "The (re)construction of life". Circle of speeches "Society & Health – Modern Developments and Reflections". National Hellenic Research Foundation. November 9, 2010. Athens.
3. Rodakis, G. C. (2009). "The Darwinism 'syndrome'". 60<sup>th</sup> National Hellenic Conference of Hellenic Society of Biochemistry and Molecular Biology. November 20-22, 2009. Athens.
4. Rodakis, G. C. (2009). "Surpassing the conventional boundaries of a scientific field: Evolutionary Biology from Darwin to current days". Eugenides Foundation in cooperation with British Council. June 1, 2009. Athens.
5. Rodakis, G. C. (2009). "Exceeding the conventional limits of a scientific discipline: The evolutionary biology from Darwin to modern composition". Faculty of Philosophy of Science in cooperation with Faculty of Biology & Medical School of National and Kapodistrian University of Athens. April 29, 2009. Athens.
6. Rodakis, G. C. (2009). "1809-2009: From yesterday to today and, why not, to tomorrow of our evolution". National Hellenic Congress "HEALTH-ENVIRONMENT-EDUCATION", National and Kapodistrian University of Athens. March 28-29, 2009. Athens.
7. Rodakis, G. C. (2009). "Is there determinism in the evolution of organisms?". National Hellenic Research Foundation in cooperation with British Council and the French Institute. February 10, 2009. Athens.
8. Rodakis, G. C. (2009). "From Darwin to date: An interpretation attempt of modern 'evolutionary perception'". Ralleio High School of Piraeus for Girls in co-

organization with Panhellenic Union of Bioscientists (Π.Ε.Β.) and Prefecture of Piraeus. January 23-24, 2009. Piraeus.

9. Rodakis, G. C. (2008). "The determinism of evolutionary dynamics of organisms: an interpretation based on the "Darwinian logic" and on modern molecular biology". 12th National Hellenic Conference of the Hellenic Physical Society. March 20-23, 2008. Kavala.
10. Rodakis, G. C. (2008). "A journey to evolutionary biology: a modern composition of evidence that determine its content". Meeting: "Evolution as a unifying principle of biology", Panellenic Union of Bioscientists (Π.Ε.Β.) and the Department of "Biological Applications & Technologies" of the University of Ioannina. Feb. 29, 2008.
11. Rodakis, G. C. (2007). "The biological determinism of dogmatism". 3<sup>rd</sup> Scientific Congress of Bioethics. University of Crete. October 5-7, 2007. Panormo, Rethymno, Crete.
12. Rodakis, G. C. (2007). "A journey to evolutionary biology (questions? contradictions? A modern composition)". 29<sup>th</sup> Hellenic Society of Biological Sciences' Conference. May 17-19, 2007. Kavala.
13. Rodakis, G. C. (2007). "A journey with few stops in the evolutionary biology (or, evidence that determine the content of evolutionary biology". National Hellenic Research Foundation, circle of speeches of the Delphi Society. March 29, 2007. Athens.
14. Rodakis, G. C. (2006). "The "specificity" of Evolutionary Biology". Faculty of Biology, Univ. of Patras. December 7, 2006. Patra.
15. Rodakis, G. C. (2005). "The evolutionary history of Man" in frames of "Café of Science" (Cafe Scientifique) Euroscience. British Council. December 1, 2005. Athens.
16. Rodakis, G. C. (2004). "Objectivity in Sequence Alignment". Workshop in Bioinformatics. Department of Biology, University of Crete & IMBB (FORTH), funded by UNESCO OFFICE IN VENICE. September 13-18, 2004. Crete.
17. Rodakis, G. C. (2004). "The rationale of evolutionary biology". University and Institute of Technology and Research of Crete.
18. Rodakis, G. C. (2003). "Mitochondrial DNA, Doubly Uniparental Inheritance and the rule of exceptions". 25<sup>th</sup> Hellenic Society of Biological Sciences' Conference. May 29 – June 1, 2003 Mytilini.
19. Rodakis, G. C. (2002). "The modern evolutionary perception". Post-graduate Seminars. Special Synodical Committee of Bioethics. November 26, 2002. Athens.

## List of research grants

1978-1980	Project: "Isolation and partial aminoacid sequencing of specific chorion proteins from National Institute of Health. U.S.A. (this fund accompanied the approval of the Fogarty postdoctoral fellowship). Budget: \$3.000.
1980-1984	Annually released research grants by the University of Athens.
1984-1986	Project: "Structure, organization, regulation and evolution of multy-gene families in eukaryotic organisms: Study of genes that are expressed in the early stages of choriogenesis in <i>Bombyx mori</i> ". Principal Investigators: G. C. Rodakis and R. Lecanidou. Funded by Greek Ministry of Research and Technology. Grant # ΠΑΕΤ 1983-84. Budget: 2.500.000,00 GRD.
1987-1989	Project: "Structural and evolutionary analysis of a complex gene family that is expressed in early stages of choriogenesis in <i>Bombyx mori</i> ". Principal Investigators: G. C. Rodakis and R. Lecanidou. Funded by Greek Ministry of Research and Technology. Grant # ΠΡΟΠΕ 86-87. Budget: 3.000.000,00 GRD.
1990-1992	Project: "Molecular analysis of mitochondrial DNA (mtDNA) of the genus <i>Albinaria</i> (Mollusca). Contribution to the study of molecular evolution and phylogeography of the genus in Greece". Principal Investigators: G. C. Rodakis and R. Lecanidou. Funded by Greek General Secretariat for Research and Technology. Grant # 89ΕΔ40. Budget: 4.825.000,00 GRD.
1994-1995	Project: "The Molecular Systematics of the terrestrial mollusk genus <i>Albinaria</i> in the Cyclades and Crete in relation to classical taxonomy and the environmental history of the region". Anglo-Hellenic Joint research: University of Athens (G. C. Rodakis and R. Lecanidou) and University of Sheffield (R. A. D. Cameron). 2-year research grant in frames of transnational agreements between the University of Athens and British Counsil. Budget: 1.600.000,00 GRD.
July 1996 – June 1998	Project: "Molecular analysis of mitochondrial DNA of <i>Albinaria coerulea</i> (Gastropoda: Clausiliidae): Investigation of the RNA-editing phenomenon and detection of cis regulatory elements". Principal Investigator: R. Lecanidou. Funded by Greek General Secretariat for Research and Technology. Grant # 95ΕΔ154. Budget: 8.000.000,00 GRD.
July 1996 – June 1998	Project: "Study of the activating and suppression factors of the expression of the early chorion genes of the silkmoth <i>Bombyx mori</i> ". Principal Investigator: G. C. Rodakis. Funded by Greek General Secretariat for Research and Technology. Grant # 95ΕΔ155. Budget: 8.000.000,00 GRD.
Mar 2000 – Oct 2001	Project: "Molecular and structural analysis of the atypical correlation of gender and mitochondrial DNA inheritance in the genus <i>Mytilus</i> ( <i>Bivalvia: Mytilidae</i> )". Joint research: Institute of Marine Biology of Crete (E. Zouros, Principal Investigator), University of Athens (G. C. Rodakis), and University of Crete (V. Galanopoulos). Funded by Greek General Secretariat for Research and Technology. Grant # 99ΕΔ120. Budget: 50.000.000,00 GRD.
Sep 2002 – Aug 2003	Project: "Investigation of paleogeography of Aegean through phylogenetic analysis of mitochondrial DNA of the land snail <i>Albinaria coerulea</i> ". Principal Investigator: G. C. Rodakis. Funded by University of Athens, Special Account for Research Grants, Grant #56/90/4231, 870,00 €.
Mar 2003 – Oct 2007	Project: "Recombination in animal mitochondrial DNA". Joint research: University of Athens, Dept. of Biochemistry & Molecular Biology (G. C. Rodakis, Principal Investigator) and Dept. of Cell Biology (L. H. Margaritis), and University of Crete, Dept. of Biology (E. Zouros). Funded by Greek General Secretariat for Research and Technology. Grant # 01ΕΔ42. Budget 211.298,60 €.
Mar 2004 – Oct 2006	Project: "Development of original methodology and software for the creation of multiple alignments of biological macromolecules sequences and their objective evaluation" Joint research: University of Athens, Dept. of Cell Biology and Biophysics (S. Hamodrakas, Principal Investigator) and Dept. Biochemistry & Molecular Biology (G. C.



	Rodakis). Funded by Greek Ministry of Education, Lifelong Learning and Religious Affairs (Pythagoras I). Budget 65.000,00 €.
Sep 2005 – Aug 2006	Project: "Determination of break-points of the primary transcription product of animal mtDNA and investigation of the engagement of secondary structures." Principal Investigator: G. C. Rodakis. Funded by University of Athens, Special Account for Research Grants (Kapodistrias). Grant #70/4/7805. Budget: 1.750,00 €.
Sep 2007 – Aug 2008	Project: "The fidelity of the phenomenon of Doubly Uniparental Inheritance (DUI) of mitochondrial DNA (mtDNA): Investigation of the unexpected presence of the maternal or/and paternal mtDNA types in somatic tissues and gametes of <i>Mytilus galloprovincialis</i> ". Principal Investigator: G. C. Rodakis. Funded by University of Athens, Special Account for Research Grants (Kapodistrias). Grant #70/4/7805. Budget: 1.300,00 €.
Sep 2008 – Aug 2009	Project: "Molecular diagnosis of deletions in mitochondrial DNA of sperm of infertile and normal men: Association of deletions with male infertility in connection with the results of assisted reproduction methods". Funded by University of Athens, Special Account for Research Grants. Budget: 1.500,00 €.
Sep 2010 – Aug 2011	Project: "Detection of gender-specific <i>cis</i> -elements in the paternal mitochondrial DNA of the species <i>Mytilus galloprovincialis</i> , that are involved in its transmission route in male offsprings". Principal Investigator: G. C. Rodakis. Funded by University of Athens, Special Account for Research Grants, Budget: 940,85 €.
Sep 2011 – Aug 2012	Project: "Detection of gender-specific <i>cis</i> -elements in the paternal mitochondrial DNA of the species <i>Mytilus galloprovincialis</i> , that are involved in its transmission route in male offsprings". Principal Investigator: G. C. Rodakis. Funded by University of Athens, Special Account for Research Grants, Budget: 962 €.
Sep 2012 – Aug 2013	Project: "Detection of gender-specific <i>cis</i> -elements in the paternal mitochondrial DNA of the species <i>Mytilus galloprovincialis</i> , that are involved in its transmission route in male offsprings". Principal Investigator: G. C. Rodakis. Funded by University of Athens, Special Account for Research Grants, Budget: 909,5 €.
Sep 2013 – Aug 2014	Project: "Detection of gender-specific <i>cis</i> -elements in the paternal mitochondrial DNA of the species <i>Mytilus galloprovincialis</i> , that are involved in its transmission route in male offsprings". Principal Investigator: G. C. Rodakis. Funded by University of Athens, Special Account for Research Grants, Budget: 981,2 €