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EDUCATION

1994-1998 **BS** in Biology, School of Biology, Aristotle University of Thessaloniki, Greece, grade 8.54/10 - Excellent (top 3%).

1999-2001 **Post-Graduate studies**, Applied Genetics and Biotechnology, School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece.

1999-2004 **PhD** Thesis in Genetics, Molecular Biology and Evolution, School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece

APPOINTMENTS - EMPLOYMENT

2004-2009 **Postdoctoral fellow**, Molecular Biology of Cancer, GenNYSis Center for Excellence in Cancer Genomics, State University of New York at Albany, Albany, NY, USA

2009-2011 **Senior Research Fellow**, Cellular and Molecular Biology of Cancer, Department of Cancer Biology, Mayo Clinic Cancer Center, Jacksonville, FL, USA

2011-2016 **Research Associate**, Cellular and Molecular Biology of Cancer, Department of Cancer Biology, Mayo Clinic Cancer Center, Jacksonville, FL, USA

2014-2016 **Instructor** of Cancer Biology, Mayo Clinic College of Medicine, Jacksonville, FL, USA

2016-present **Assistant Professor**, Department of Regenerative Medicine and Cell Biology, Medical University of South Carolina, Charleston, SC, USA

2016-present **Abney Scholar, Hollings Cancer Center**, Medical University of South Carolina, Charleston, SC, USA

HONORS-AWARDS

- 1997-1998** **Tzivoglou Foundation Award** for undergraduate studies (Institutional, 1/year). Aristotle University of Thessaloniki, Thessaloniki, Greece
- 2000-2002** **Bodossaki Foundation Fellowship** for PhD studies (National, 2/year). Aristotle University of Thessaloniki, Thessaloniki, Greece
- 2014-2016** **Jay and Deanie Stein Career Development Award for Cancer Research, Mayo Clinic** (04/01/14 - 07/31/16, \$100,000). Reversal of Ecad/p120-induced tumorigenicity of Inflammatory Breast Cancer cells via miRNA-mediated reprogramming.
Role: PI

PUBLICATIONS**A. Original Research Articles**

- 2005** **Kourtidis A** and Scouras ZG. Analysis and characterization of the transcriptional unit of a new *Mytilus galloprovincialis* (Mollusca, Bivalvia) *hsp70* gene. ***DNA Sequence*** 16:36-43.
- 2006** **Kourtidis A**, Drosopoulou E, Nikolaidis N, Hatzi VI, Chintiroglou CC, Scouras ZG. Identification of several cytoplasmic HSP70 genes from the Mediterranean mussel (*Mytilus galloprovincialis*) and their long-term evolution in Mollusca and Metazoa. ***Journal of Molecular Evolution*** 62:446-459.
- 2006** **Kourtidis A**, Drosopoulou E, Pantzartzi CN, Chintiroglou CC, Scouras ZG. Three new satellite sequences and a mobile element found inside HSP70 introns of the Mediterranean mussel (*Mytilus galloprovincialis*). ***Genome*** 49:1451-1458
- 2007** Evans SC, **Kourtidis A**, Markham TS, Miller J, Conklin DS, Torres A. microRNA target detection and analysis for genes related to breast cancer using MDLcompress. ***EURASIP Journal on Bioinformatics and Systems Biology*** 43670.
- 2008** Lastro ML, **Kourtidis A**, Farley K, Conklin DS. xCT expression reduces the early cell cycle requirement for calcium. ***Cellular Signaling*** 20:390-399.
- 2008** Ranganathan AC, Ojha S, **Kourtidis A**, Conklin DS, Aguirre-Ghiso JA. Dual function of PERK in tumor cell growth arrest and survival. ***Cancer Research*** 68:3260-3268.
- 2008** O'Connell CB, Lončarek J, Hergert P, **Kourtidis A**, Conklin DS, Khodjakov A. The spindle assembly checkpoint monitors attachment and not tension during Mitosis with an Unreplicated Genome (MUG). ***Journal of Cell Biology*** 183:29-36.
- 2009** Pantzartzi CN, **Kourtidis A**, Drosopoulou E, Yiangou M, Scouras ZG. Isolation and characterization of two cytoplasmic *hsp90* genes from *Mytilus galloprovincialis* (Mollusca: Bivalvia) that contain a complex promoter with a p53 binding site. ***Gene*** 431:47-54.
- 2009** **Kourtidis A**, Srinivasaiah R, Carkner RD, Brosnan MJ, Conklin DS. Peroxisome proliferator-activated receptor- γ protects ERBB2-positive breast cancer cells from palmitate toxicity. ***Breast Cancer Research*** 11:R16
- 2009** Adam AP, George A, Schewe D, Bragado P, Iglesias BV, Ranganathan A, **Kourtidis A**, Conklin DS, Aguirre-Ghiso JA. Computational identification of a p38^{SAPK} regulated

- transcription factor network required for tumor cell quiescence. *Cancer Research* 69:5664-72.
- 2010** **Kourtidis A**, Jain R, Carkner RD, Eifert C, Brosnan MJ, Conklin DS. An RNAi screen identifies metabolic regulators *NR1D1* and *PBP* as novel survival factors for breast cancer cells with the *ERBB2* signature. *Cancer Research*, 70:1783-92
- 2012** Ngok SP, Geyer R, Liu M, **Kourtidis A**, Agrawal S, Wu C, Seerapu HR, Lewis-Tuffin LJ, Moodie K, Huveltdt D, Marx R, Baraban J, Storz P, Horowitz A, Anastasiadis PZ. VEGF and Angiopoietin-1 exert opposing effects on cell junctions by regulating the Rho GEF Syx. *Journal of Cell Biology*, 199(7): 1103-15.
- 2013** Ngok SP, Geyer R, **Kourtidis A**, Storz P, Anastasiadis PZ. Phosphorylation-mediated 14-3-3 binding regulates the function of the RhoGEF Syx. *Journal of Biological Chemistry*, 288(9):6640-50.
- 2013** Ngok SP, Geyer R, **Kourtidis A**, Feathers RW, Mitin N, Der C, Anastasiadis PZ. TEM4 is a junctional RhoGEF required for cell-cell adhesion, monolayer integrity, and barrier function. *Journal of Cell Science*, 126 (Pt 15): 3271-7.
- 2013** Eifert C, Wang X, Kokabee L, **Kourtidis A**, Jain R, Gerdes MJ, Conklin DS. A novel isoform of the B cell tyrosine kinase BTK protects breast cancer cells from apoptosis. *Genes Chromosomes Cancer*, 52(10):961-75.
- 2013** Daechsel JC, Ngok SP, Lewis-Tuffin LJ, **Kourtidis A**, Johnston L, Feathers RW, Anastasiadis PZ. The RhoGEF Syx regulates the balance of Dia and ROCK activities to promote polarized cancer cell migration. *Molecular and Cellular Biology*, 33(24):4909-18
- 2014** Xu D, Vamsee-krishna C, **Kourtidis A**, Conklin DS, Shi H. In search of novel drug target sites on estrogen receptors using RNA aptamers. *Nucleic Acid Therapeutics*, 24(3):226-38.
- 2015** **Kourtidis A**, Huveltdt D, Yanagisawa M, Copland JA, Anastasiadis PZ. Pro-tumorigenic phosphorylation of p120 catenin in renal and breast cancer. *PLOS ONE*, 10(6):e0129964.
- 2015** **Kourtidis A**, Ngok SP, Pulimeno P, Feathers RW, Carpio L, Baker T, Carr JM, Yan IK, Borges S, Perez EA, Storz P, Copland JA, Patel T, Thompson EA, Citi S, Anastasiadis PZ. Distinct E-cadherin-based complexes regulate cell behaviour through miRNA processing or Src and p120-catenin activity. *Nature Cell Biology*, 17(9):1145-57.
(**Top read:** ~30,000 views to date; **Faculty of 1000:** Two Recommendations - 4 stars, to date; **Nature Medicine: News in Brief**, October 2015, 21, 1112–13; **Highlighted in BBC news and other news outlets**)
- 2016** **Kourtidis A** and Anastasiadis PZ. PLEKHA7 defines an apical junctional complex with cytoskeletal associations and miRNA-mediated growth implications. *Cell Cycle* 2016 15: 498-505
- 2016** Fiorotto R, Villani A, **Kourtidis A**, Scirpo R, Amenduni M, Cadamuro M, Spirli C., Anastasiadis PZ, Strazzabosco M. CFTR controls biliary epithelial inflammation and permeability by regulating Src tyrosine kinase activity. Submitted to *Hepatology*.
- 2016** **Kourtidis A**, Necela B, Carr J, Thompson EA, Anastasiadis PZ. Association of the zonula adherens with RISC. Submitted to *Nature Cell Biology*.
- 2016** **Kourtidis A**, Olsen L, Benitez J, Carr J, Thompson EA, Anastasiadis PZ. PLEKHA7 reverses inflammatory breast cancer growth via miRNAs. In preparation for *Breast Cancer Research*.

B. Reviews, Book Chapters, Editorials

- 2007** **Kourtidis A**, Eifert C, Conklin DS. RNAi Applications in Target Validation. *Ernst Schering Research Foundation Workshop*. 61:1-21
- 2007** Eifert C, **Kourtidis A**, Conklin DS. RNA interference libraries in dissecting molecular pathways of the human cell. *RNAi*. BIOS Advanced Methods Press, Editor: Martin Latterich. pp 47-63
- 2011** Baumann J, Karch C, **Kourtidis A**, Conklin DS. Electronics of HER2/neu Positive Breast Cancer Cells. *Breast Cancer Cells/Book 5*. InTech, Editor: Brunhilde Felding-Habermann. pp 17-36
- 2013** **Kourtidis A**, Ngok SP, Anastasiadis PZ. p120 catenin: an essential regulator of cadherin stability, adhesion-induced signaling, and cancer progression. In: *Progress in Molecular Biology and Translational Science - The molecular biology of cadherins*. Editors: P. Michael Conn - Frans Van Roy; 116: 409-32.
- 2016** **Kourtidis A** and Anastasiadis PZ. Bringing together cell-to-cell adhesion and miRNA biology in cancer research. *Future Oncology* 2016 12: 1211-1214

C. Media Publications

- 2015** **Kourtidis A**. The new RNA world in research and cancer therapy: no dogmas attached. *DoveMed*, September 23, 2015. <http://www.dovemed.com/dovemed-blog/new-rna-world-research-and-cancer-therapy-no-dogmas-attached/>

CONFERENCE ABSTRACTS

- 1998** **Kourtidis A**, Nikolaidis N, Chintiroglou C, and Scouras ZG. Analysis of the mtDNA in populations of the Sphaeromatidae family (Crustacea, Isopoda). *Proceedings of the 20th Hellenic Society for Biological Sciences (HSBS)*, pp 144.
- 2001** Chintiroglou C, Skoufas G, Arsenoudi P, **Kourtidis A** and Scouras ZG. Structure of the natural populations of *Mytilus galloprovincialis* Lmk. in Thermaikos gulf. *Proceedings of the 36th Commission Internationale pour l'Exploration Scientifique de la Méditerranée (CIESM)*, pp 254.
- 2002** **Kourtidis A**, Hatzis V, Nikolaidis N, Drosopoulou E, Chintiroglou C, and Scouras ZG. Molecular studies on *Mytilus galloprovincialis* populations in Thermaikos gulf. *Proceedings of the 9th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions (ICZEGAR)*, pp 80.
- 2002** **Kourtidis A**, Hatzis V, Drosopoulou E, Nikolaidis N, Chintiroglou C, and Scouras ZG. Isolation and characterization of an *hsp70* sequence from *Mytilus galloprovincialis*. *Proceedings of the 24th HSBS*, pp 146.
- 2003** **Kourtidis A**, Pantartzzi C, Drosopoulou E, Chintiroglou C, and Scouras ZG. Application of microsatellite primers in populations of the bivalve *Mytilus galloprovincialis* of Thermaikos gulf. *Proceedings of the 25th HSBS*, pp 167.

- 2003** **Kourtidis A**, Pantzartzi C, Drosopoulou E, Chintiroglou C, and Scouras ZG. A study on the populations of the bivalve *Mytilus galloprovincialis* from Thermaikos gulf using molecular markers. *Abstract in the Society of Hellenic Ecologists (SHE) Congress*.
- 2003** Drosopoulou E, Karamanlidis A, Vittas S, **Kourtidis A**, and Scouras ZG. Preliminary results on the study of the brown bear population in Grevena area using molecular markers. *Abstract in SHE Congress*.
- 2004** **Kourtidis A**, Hatzis V, Drosopoulou E, and Scouras ZG. Isolation and mapping of *hsp70* sequences from *Mytilus galloprovincialis*. *Proceedings of the 25th HSBS*, pp 169.
- 2005** **Kourtidis A**, Curley M, and Conklin DS. Functional genomic analysis of breast cancer cell tumorigenicity. *Proceedings of the 4th Era of Hope DOD Breast Cancer Research Program Meeting*. pp 47.
- 2005** **Kourtidis A** and Conklin DS. An RNAi screen on Genes Overexpressed in Breast Cancer. *SUNY at Albany, Department of Biomedical Sciences Annual Retreat, October 11*.
- 2006** Evans SC, Markham TS, Torres A, **Kourtidis A**, and Conklin DS. An Improved Minimum Description Length Learning Algorithm for Nucleotide Sequence Analysis. *Proceedings of the Fortieth Asilomar Conference on Signals, Systems and Computers*. pp 1843-1850.
- 2007** Adam AP, George A, Iglesias BV, Ranganathan AC, **Kourtidis A**, Conklin DS, and Aguirre-Ghiso JA. Induction of tumor cell quiescence by p38^{SAPK} requires positive regulation of p53 and Dec2/BLHBH3. *Cold Spring Harbor Phosphorylation, Signaling and Disease Meeting*.
- 2007** **Kourtidis A**, Carkner RD, DiRusso CM, Brosnan MJ, and Conklin DS. 2007. An RNAi screen identifies lipid metabolism as a survival pathway for breast cancer cells with the ERBB2 amplicon. *SUNY at Albany, Department of Biomedical Sciences Annual Retreat, October 9*.
- 2008** **Kourtidis A**, Carkner RD, Brosnan MJ, and Conklin DS. An RNAi screen identifies enhanced triglyceride storage as a survival factor for breast cancer cells with the ERBB2 amplicon. *Proceedings of the 99th Annual Meeting of the American Association for Cancer Research (AACR)*, abstract #938.
- 2008** Pantzartzi CN, **Kourtidis A**, Drosopoulou E, Yiangou M, and Scouras ZG. Evolution of a gene duplication of the cytosolic HSP90 genes. *Proceedings of the 30th HSBS*, pp 436.
- 2008** **Kourtidis A**, Carkner RD, Eifert C, Brosnan MJ, and Conklin DS. 2008. An RNAi screen identifies lipid metabolism as a survival pathway for breast cancer cells with the ERBB2 amplicon. *SUNY at Albany, Department of Biomedical Sciences Annual Retreat, October 7*.
- 2008** **Kourtidis A**, Carkner RD, Eifert C, Brosnan MJ, and Conklin DS. An RNAi screen identifies regulators of lipid metabolism as survival factors for breast cancer cells with the ERBB2 amplicon. *Capital Region Cancer Research group (CRCR) - Bioconnex conference on Cancer Genomics, Rensselaer Polytechnic Institute, November 7*.
- 2010** **Kourtidis A**, Huveltdt D, and Anastasiadis PZ. Distinct p120-cadherin complexes regulate either Rac1 activation and cell migration, or junction maturation and epithelial cell compaction. *Nature Conferences - The Miami 2010 Winter Symposium: Targeting Cancer Invasion and Metastasis, February 21-24*.
- 2010** Xu D, **Kourtidis A**, Conklin DS, Shi H. Creating RNA aptamers to modulate functions of human estrogen receptor alpha. *RNA & oligonucleotide therapeutics, Cold Spring Harbor Laboratory Meetings*, pp. 9.

- 2010** **Kourtidis A**, Huvelde D, and Anastasiadis PZ. Distinct p120-cadherin complexes regulate either Rac1 activation and cell migration, or junction maturation and epithelial cell compaction. *Gordon Research Conference: Signaling by Adhesion Receptors, July 11-16.*
- 2011** **Kourtidis A**, Carpio L, and Anastasiadis PZ. Distinct p120-cadherin complexes promote either epithelial junction maturation or cell motility and tumor progression. *Gordon Research Conference: Cell Contact and Adhesion, June 19-24.*
- 2011** Ngok SP, Geyer R, **Kourtidis A**, Huvelde D, Agrawal S, Marx R, Baraban J, Storz P, Horowitz A, and Anastasiadis PZ. VEGF and Angiopoietin-1 exert opposing effects on cell junctions by regulating the RhoGEF Syx. *Gordon Research Conference: Cell Contact and Adhesion, June 19-24.*
- 2013** Baumann JM, **Kourtidis A**, Conklin DS. The lipogenic phenotype of HER2/neu-positive breast cancer cells. *Proceedings of the 104th Annual Meeting of the American Association for Cancer Research (AACR), abstract #1894*
- 2013** **Kourtidis A**, Carpio LR, Pulimeno P, Baker TR, Feathers RW, Carr JM, Ngok SP, Dachsel JC, Perez EA, Storz P, Copland JA, Thompson EA, Citi S, Anastasiadis PZ. Adhesion signaling in tumor progression. *18th World Congress on Advances in Oncology and 16th International Symposium on Molecular Medicine. October 10-12, Crete, Greece.*
- 2015** **Kourtidis A**, Carr JM, Yan IK, Patel T, Thompson EA, and Anastasiadis PZ. Association of the RNAi machinery with the zonula adherens regulates growth-related signaling. *Gordon Research Conference: Cell Contact and Adhesion, June 28-July 3.*
- 2015** **Kourtidis A**, Carr JM, Yan IK, Patel T, Thompson EA, and Anastasiadis PZ. Association of the RNAi machinery with the zonula adherens regulates growth-related signaling. *American Society for Cell Biology (ASCB) Annual Meeting, December 12-16.*

SEMINAR TALKS

- 2004** "Isolation, molecular and phylogenetic analysis of genes of the HSP70 family in the bivalve mollusc *Mytilus galloprovincialis*". GenNYSis Center for Excellence in Cancer Genomics, SUNY at Albany, Albany, NY, September 29
- 2004** "Isolation, molecular characterization and phylogenetic analysis of genes of the HSP70 family in the bivalve mollusc *Mytilus galloprovincialis*, Lmk. 1819". PhD Thesis Seminar. School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece, December 2.
- 2007** "Genes on the ERBB2 amplicon are important for breast cancer cell homeostasis and survival". David Axelrod Institute, Wadsworth Center, Albany, NY, October 9.
- 2008** "An RNAi screen identifies regulators of fat metabolism as survival factors for breast cancer cells with the ERBB2 amplicon." GenNYSis Center for Excellence in Cancer Genomics, SUNY at Albany, Albany, NY, June 20
- 2009** "An RNAi screen identifies regulators of fat metabolism as survival factors for breast cancer cells with the ERBB2 signature." Mayo Clinic Cancer Center, Griffin Cancer Research Building, Jacksonville, Florida, April 21
- 2010** "Distinct p120-catenin complexes regulate either junction maturation and epithelial cell compaction or cell motility and migration". Mayo Clinic Cancer Center, Griffin Cancer Research Building, Jacksonville, Florida, September 21

- 2011** "A brief history of cell metabolism and polarity". Department of Biological Sciences, University of Cyprus, Nicosia, Cyprus, February 25
- 2012** "The double life of p120: who's to blame?" Mayo Clinic Cancer Center, Griffin Cancer Research Building, Jacksonville, Florida, February 7
- 2012** "How minimal disruptions in normal epithelial architecture can induce tumorigenesis". University of Florida College of Medicine Grand Rounds, University of Florida - Shands Hospital, Jacksonville, Florida, December 5
- 2013** "The Adherens Junction protein PLEKHA7 suppresses pro-tumorigenic signals in epithelial cells". Mayo Clinic Cancer Center, Griffin Cancer Research Building, Jacksonville, Florida, April 16
- 2014** "PLEKHA7: can a protein with an unpopular name become popular in cancer research?" Mayo Clinic Cancer Center, Griffin Cancer Research Building, Jacksonville, Florida, April 1
- 2015** "There is some interference at the junctions". Mayo Clinic Cancer Center, Griffin Cancer Research Building, Jacksonville, Florida, April 14
- 2015** "Cell-cell junctions regulate cell behavior via miRNAs" University of North Florida, Department of Biology seminar series, Jacksonville, Florida, November 6
- 2015** "Association of the RNAi machinery with the zonula adherens regulates growth-related signaling". Microsymposium talk, *American Society for Cell Biology (ASCB) Annual Meeting*, San Diego, California, December 15
- 2016** "There is some interference at the junctions". Department of Regenerative Medicine and Cell Biology, Medical University of South Carolina, Charleston, South Carolina, January 4
- 2016** "A Novel Association of the RNAi Machinery with the Adherens Junctions". Department of Molecular, Cellular and Developmental Biology, University of California Santa Barbara, Santa Barbara, California, January 13
- 2016** "RISCy business at the junctions". Mayo Clinic Cancer Center, Griffin Cancer Research Building, Jacksonville, Florida, March 30

ORIGINAL GENBANK SUBMISSIONS

- 2003** **Kourtidis A** and Scouras ZG. *Mytilus galloprovincialis hsp70-1* gene for heat shock protein 70. Accession #: AJ585375
- 2004** **Kourtidis A** and Scouras ZG. *Mytilus galloprovincialis hsp70-2* gene for heat shock protein 70. Accession #: AJ783711
- 2004** **Kourtidis A** and Scouras ZG. *Mytilus galloprovincialis hsp70-3* gene for heat shock protein 70. Accession #: AJ783712
- 2004** **Kourtidis A** and Scouras ZG. *Mytilus galloprovincialis hsp70-4* gene for heat shock protein 70. Accession #: AJ783713
- 2004** **Kourtidis A** and Scouras ZG. *Mytilus galloprovincialis hsc71* gene for heat shock cognate 71, exons 1-6. Accession #: AJ783714
- 2004** **Kourtidis A** and Scouras ZG. *Mytilus galloprovincialis* partial *hsc70* gene for heat shock cognate 70, exons 4-5. Accession #: AJ783715

PATENTS

- ❖ Conklin DS, and **Kourtidis A.** Regulators of Fat Metabolism as Anti-Cancer Targets. US Patent Application # 20100267803. Filed 2009.
- ❖ Conklin DS, Eiffert C, and **Kourtidis A.** Bruton's Tyrosine Kinase as Anti-Cancer Drug Target. US Patent # 8,513,212.

PROFESSIONAL MEMERSHIPS

2006-2009	Capital Region Cancer Research (CRCR) group, Albany, NY
2009-2016	Mayo Clinic Research Fellow Association (MRFA)
2010-present	Mayo Clinic Alumni Association
2009-present	Hellenic Bioscientific Association in the USA (HBA-USA)
2015-present	American Society for Cell Biology (ASCB)

JOURNAL PEER-REVIEWER

- ❖ Nature Methods
- ❖ Journal of Cell Biology
- ❖ Journal of Cell Science
- ❖ Oncogene
- ❖ Breast Cancer Research
- ❖ International Journal of Cancer
- ❖ BMC Biology
- ❖ Current Medicinal Chemistry
- ❖ Medical Science Monitor

MENTORING-TEACHING**A. Mentoring of Students and Trainees**

- ❖ **Undergraduate students:**
 - Rodoniki Athanasiadou (2000-2001)
 - Elena Bousiaki (2001-2002)
 - Olympia Papadaki (2001-2002)
 - Ioanna Chiotoglou (2002-2003)
 - Aggeliki Tserga (2002-2003)
 - Elise Kochoumian (2005)
 - Adey Teshome (2005)
 - Rich Yerry (2005-2006)
 - Benjamin Yeung (2008)

- Lomeli Carpio (2010)
- Kathryn Dasburg (2011)
- Lauren Olsen (2013)
- ❖ **Graduate students:**
 - Vasiliki Hatzi (2001-2002)
 - Aglaia Topoglidi (2001-2002)
 - Chrysoula N. Pantzartzi (2003-2004)
 - Daiying Xu (2008-2009)
 - Jesus Benitez (2013)
 - Alicia Fleming (2014)
- ❖ **Research Technicians:**
 - Matthew Curley (2004-2005)
 - Rekha Srinivasaiah (2007-2008)

B. Teaching

- 2000-2001** Assistant in courses in “**Anthropology**”, School of Biology, Aristotle University of Thessaloniki, Greece.
Hours/semester: 12
Syllabus: Morphometrics of human skulls and skeletons; age determination; sex determination; human skeleton evolution
- 2000-2002** Assistant in courses in “**Genetics**”, School of Biology, Aristotle University of Thessaloniki, Greece.
Hours/semester: 18
Syllabus: Drosophila crossings (F1, F2); “Hardy-Weinberg” equilibrium; inheritance of dominant-recessive and autosomal-sexual genes; inheritance of linked genes; Karyotype preparation; chromosomal abnormalities; total genomic DNA isolation and purification from Drosophila specimens or human blood cells; agarose gel electrophoresis.
- 2000-2004** Assistant in “**Special Topics in Genetics**”, School of Biology, Aristotle University of Thessaloniki, Greece.
Hours/semester: 18
Syllabus: Total Genomic library construction and screening; mitochondrial DNA (mtDNA) isolation and purification; restriction enzyme mapping of genomic library fragments and of mtDNA (RFLPs); PCR amplification of target genes; Bioinformatic analysis of gene structure; Bioinformatic analysis of gene evolution - phylogenetic tree construction.
- 2000-2003** Teaching Genetics, Molecular Biology, Cellular Biology, and Evolution to High School students, Thessaloniki, Greece