

LABORATORY OF ANATOMY –HISTOLOGY-EMBRYOLOGY

POSTAL ADDRESS: **PAPADIAMANTOPOYLOY 123**
TEL.Nr **210-7461483**
FAX: **210-7461483**
E-MAIL [emanolis\[at\]nurs.uoa\[dot\]gr](mailto:emanolis[at]nurs.uoa[dot]gr)
NAME OF THE HEAD OF THE **MANOLIS EVAGELOS**
LABORATORY:
WEBSITE: **<http://www.nurs.uoa.gr/klinikes-ergastiria-kai-kentra/ergastiria/tomeas-basikon-spydon/ergastirio-anatomias-istologias-embryologias>**.

HEAD OF THE LABORATORY DETAILS

1. FEBRUARY 1995: Diploma in Radiation Protection for the Use of Radionuclides in Research. Harvard University.
2. NOVEMBER 1995. Diploma of Research Fellow in Pediatric Otolaryngology, Massachusetts Eye and Ear Infirmary, Harvard Medical School..
3. OKTOBER 1993 – NOVEMBER 1995: Research Fellowship με τον Καθηγητή Schuknecht. Department of Ear Histopathology. Harvard Medical School - Temporal Bone Lab. Massachusetts Eye and Ear Infirmary.
4. OKTOBER 1993 – NOVEMBER 1995: Post-Doctoral Fellowship. Department of Radiology. Harvard Medical School, Massachusetts Eye and Ear Infirmary.
5. OKTOBER 1993 – NOVEMBER 1995: Post-Doctoral and Research Fellowship. Department of Pediatric Otolaryngology, Massachusetts Eye and Ear Infirmary, Harvard Medical School
6. OKTOBER 1994 – NOVEMBER 1995: Research Fellowship. Department of Genetics, Seidman Lab., Harvard Medical School.

LABORATORY PERSONNEL

Teaching and Research Staff

MARIOLIS-SAPSAKOS THEODOROS

MARKOGIANNAKIS ANTONY

SECRETARY

DROSI EVAGELIA

COURSES

UNDERGRADUATE COURSES

1. Anatomy – Histology - Embryology I
2. Anatomy – Histology - Embryology II
3. Clinical Neuroanatomy (Elective course)
4. Head and Neck Surgery (Elective course)

POSTGRADUATE COURSES

1. Graduate Courses Department of Science, University of Athens. Academic Year 2000 until today. Discipline: Clinical Chemistry. Course: Elements of Anatomy - Histology - Embryology
2. Graduate Courses Department of Biology, University of Athens. Academic years 2003 to today. Specialization: Clinical Biochemistry - Molecular Diagnostics. Course: Special Topics in Anatomy - Physiology.
3. Postgraduate Courses Department of Medicine, University of Crete. Academic year 2003 until today. Major: Neuroscience. Course: Clinical Nefroanatomiki

RESEARCH INFRASTRURE

1. LABARATORY ANATOMIAS –HISTOLOGIAS-EMBRYOLOGIAS
2. PLANT MOLECULAR TECHNIQUES
3. Unit Cell
4. PLANT GENETIC ANALYSIS INHERIDED DISEASES
5. CONTROL UNIT ANTIMICROBIAL SENSITIVITY AND ACTION PHARMACOKINETIC ANTIMICROBIAL SUBSTANCES

RESEARCH PROGRAMS

- 1 Molecular genetics: a) National program record of hereditary diseases in the Greek territory and training of medical and nursing staff for prevention and treatment. b) identified the gene responsible for hereditary colon adenocarcinoma with molecular biology techniques. (Laboratory of Histology and Embryology School of Medicine, University of Athens). Funded by the Special Research Account. (April 1997, Certificate 61).
- 2 Histopathology: A study of endothelial injury in the lung after application of positive pressure. Laboratory of Anatomy - Histology and ICU, Hospital K.A.T Department of Nursing, University of Athens. Funded by the Research Committee of the University of Athens in the Research Program "Kapodistrias." (December 2002, Certificate 62).
- 3 Study of biological tissue with Laser x-ray: Development laboratory in-vivo and in-vitro experiments to study the antimicrobial activity of Laser Radiation on multiresistant pathogenic bacteria. (Department of Anatomy, Histology and Embryology and Department of Physics-Laser Department of Nursing,

University of Athens). Funded by the Special Research Account. (February 2009, Certificate 75).

PUBLICATIONS

- 1** Manolis E, Tsakris A, Kandiloros D, Kanellopoulou M, Malamou-Lada E, Ferekidis E, Adamopoulos G, Legakis NJ. "Alterations to the oropharyngeal and nasopharyngeal microbial flora of children after tonsillectomy and adenoidectomy". *J Laryngol Otol* 1994 Sep; 108 (9) :763-7.
Subject: Surgery - Clinical Microbiology
Methods: Identification of pathogenic and saprophytic bacteria
References: 4
Impact factor: 0.561
- 2** Manolis E, Yandavi N, Nadol Jr JB, Eavey RD, McKenna M, Rosenbaum S et al .. "A Gene for Non - Syndromic Autosomal Dominant Progressive Postlingual Sensorineural Hearing Loss Maps to Chromosome 14q12-13." *Hum Mol Genet* 1996 Jul; 5 (7) :1047-50.
Subject: Genome Anatomy - Neurootology
Methodology: "Linkage Analysis" Genetic Connection
Reports: 67
Impact factor: 8.099
- 3** Gorgoulis VG, Zacharatos PV, Manolis E, Ikonomopoulos JA, Damalas A, Lamprinopoulos C, Rassidakis GZ, Zoumpourlis V, Kotsinas A, Rassidakis AN, Halazonetis TD, Kittas C. "Effects of p53 mutants derived from lung carcinomas on the p53-responsive element (p53RE) of the *MDM 2 gene*". *Br J Cancer* 1998; 77 (3) :374-84.
Subject: Oncology
Methods: Molecular Biology
References: 20
Impact factor: 4.459
- 4** Manolis EN, Eavey RD, Cunningham MJ, Weber AL. "Enlarged Vestibular Aqueduct as a Marker for Hearing Loss in Children". *Clin Pediatr (Phila.)* 1998 Nov; 37 (11) :689-91.
Subject: Radiographic Anatomy - Otology
Methods: CT temporal bone
References: -
Impact factor: 0.726
- 5** Zacharatos PV, Gorgoulis VG, Kotsinas A, Manolis EN, Liloglou T, rassidakis AN, Kanavaros P, Field JD, Halazonetis T, Kittas C. "Modulation of wild-type p53 activity by mutant p53 R273H depends on the p53 resnponsive element (p53RE). A comparative study between the p53REs of the MDM2, WAF1/Cip1 and Bax genes in the lung cancer environment". *Anticancer Res* 1999 Jan-Feb; 19 (1A) :579-87.
Subject: Oncology
Methods: Molecular Biology
References: 4
Impact factor: 1.479

- 6** Garinis G, Spanakis N, Theodorou V, Gorgoulis V, Manolis E, Karameris A, Valis D. "Comparison of the enzyme-linked immunoasorbant assay III, recombinant immunoblot third generation assay, and polymerase chain reaction method for detection of hepatitis C virus infection I haemodialysis patients. "
J Clin Lab Anal 1999; 13 (3) :122-5.
Subject: Virology
Methods: Molecular Biology
References: 6
Impact factor: 1.117
- 7** Spanakis NE, Gorgoulis V, Mariatos G, Zacharatos P, Kotsinas A, Garinis G, Trigidou A, Tsimara-Papastamatiou H, Kouloukousa M, Manolis EN, Kittas C. "Aberrant p16 expression is correlated with hemizygous deletions at the 9p21-22 chromosome region in non-small cell lung carcinomas".
Anticancer Res 1999 May-Jun; 19 (3 A) :1893-9
Subject: Oncology - Genetics
Methods: Molecular Biology
References: 11
Impact factor: 1.479
- 8** Gorgoulis VG, Tiniakos DG, Mariatos G, Manolis EN, Mitropoulos D, Kittas C. "Recent advances in early prostatic cancer".*Anticancer Res.* 1999 May-Jun; 19 (3B) :2327-48. Review.
Subject: Oncology
Methodology: Overview
References: 2
Impact factor: 1.479
- 9** Ikonomopoulos JA, Gorgoulis VG, Zacharatos PV, Manolis EN, Kanavaros P, Rassidakis A, Kittas C. "Multiplex polymerase chain reaction for the detection of mycobacterial DNA in cases of tuberculosis and sarcoidosis".*Mod Pathol* 1999 Sep; 12 (9) :854-62. Review.
Subject: Bacteriology
Methods: Molecular Biology
References: 29
Impact factor: 3.753
- 10** Manolis E, Eavey RD, Sangwatanaroj S, Halpin C, Rosenbaum S, Watkins H, Jarcho J, Seidman CE, Seidman JG. "Hereditary Postlingual Sensorineural Hearing Loss Mapping to Chromosome Xq21".
Am J Otol. 1999 Sep; 20 (5) :621-6
Subject: Neurootology - Genome Anatomy
Methodology: "Linkage Analysis" - Genetic Connection
References: 5
Impact factor: 0.737
- 11** Gorgoulis VG, Mariatos G, Manolis EN, Zacharatos P, Kotsinas A, Liloglou T, Vogiatzi t, Tsagkaraki A, Kokotas S, Tsoli E, Alchanatis M, Sfikakis PP, Asimacopoulos PJ, Field Jk and Kittas C. "Allelic imbalance at the 5q14 locus is associated with decreased apoptotic non-small cell lung carcinomas (NSCLCs). Possible synergistic effect with alterations on apoptosis. "
Lung Cancer 2000 Jun; 28 (3) :211-24

Subject: Oncology - Genetics

Methods: Molecular Biology

References: 7

Impact factor: 3.554

- 12** *Eavey RD, Manolis EN, Lubianca J, Merchant S, Seidman JG and Seidman C. "Mutations in COCH (formerly Coch5b2) cause DFNA 9." Adv Otorhinolaryngol 2000; 56:101-2*
Subject: Neurootology - Genetics
Methods: Linkage Analysis
References: 3
Impact factor;
- 13** *Athanasidou A, Gorgoulis VG, Zacharatos P, Mariatos G, Kotsinas A, Liloglou T, Karameris a, foukas p, Manolis EN, Field JK and Kittas C. "C-mos immunoreactivity is an indicator of good prognosis in lung cancer." Histopathology. 2000 Jul; 37 (1) :45-54*
Subject: Oncology
Methods: Immunohistochemistry
References: 8
Impact factor: 3.216
- 14** *Fotiadis C, Manolis EN, Troupis TG, Gorgoulis VG and Sechas MN. "Endoscopic resection of a large granular cell tumor of the esophagus." J Surg Oncol. 2000 Dec; 75 (4) :277-9*
Subject: Surgical Oncology
Methods: Endoscopic Surgery
References: 4
Impact factor: 2.183
- 15** *Mariatos G, Gorgoulis VG, Zacharatos P, Kotsinas A, Vogiatzi T, Rassidakis G, Foukas P, Liloglou T, Tiniakos D, Angelou N, Manolis EN, Veslemes M, Field JK and Kittas C. "Expression of p16 (INK4A) and alterations of the 9p21-23 chromosome region in non-small-cell lung carcinomas: relationship with tumor growth parameters and ploidy status". Int J Cancer. 2000 Mar 20; 89 (2) :133-41*
Subject: Oncology
Methods: Molecular Biology
References: 21
Impact factor: 4.693
- 16** *Ikonomopoulos JA, Gorgoulis VG, Kastrinakis NG, Zacharatos PV, Kokotas SN, Evangelou K, Kotsinas AG, Tsakris AG, Manolis EN and Kittas CN. "Sensitive differential detection of genetically related mycobacterial pathogens in archival material". Am J Clin Pathol. 2000 Dec; 114 (6) :940-50*
Subject: Bacteriology - Histology
Methods: Immunohistochemistry - Molecular Biology
References: 12
Impact factor: 2.939
- 17** *Spanakis Ne, Garinis Ga, Alexopoulos Ec, Patrinos Gp, Menounos Pg, Sklavounou A, Manolis En, Gorgoulis Vg and Valis D. "Cytokine serum levels in patients with chronic HCV infection". J Clin Lab Anal. 2002; 16 (1) :40-6*

Subject: Immunology - Virology

Methodology: terminology

References: 8

Impact factor: 1.117

- 18** Tsakris A, Papadimitriou E, Douboyas J, Stylianopoulou F and Manolis E. "Emergence of vancomycin-intermediate *Staphylococcus aureus* and *Staphylococcus sciuri*, Greece. "
Emerg Infect Dis. 2002 May; 8 (5): 536-7
Subject: Clinical Microbiology
Methodology: Study of antimicrobial resistance by molecular methods
References: 8
Impact factor: 5.094
- 19** Margeli Ap, Manolis E, Skaltsas Sn, Tsarpalis Ks, Mykoniatis Mg, Theocharis Se. "Hepatic Stimulator Substance activity in an animal model of fulminant hepatic failure and encephalopathy".
Dig Dis Sci. 2002 Oct; 47 (10): 2170-8
Subject: Toxicology
Methods: Laboratory animals, Biochemistry, Toxicology
References: 9
Impact factor: 1.448
- 20** Garinis GA, Menounos PG, Spanakis NE, Papadopoulos k, Karavitis G, parassi i, Christeli E, Patrinos GP, Manolis EN, Peros G. "Hypermethylation-associated transcriptional silencing of E-cadherin in primary sporadic colorectal carcinomas (SCRCs)".
J. Pathol. 2002 Dec; 198 (4): 442-9
Subject: Surgery - Oncology
Methods: Immunohistochemistry
References: 14
Impact factor: 5.759
- 21** Garinis GA, Spanakis NE, Menounos PG, Manolis EN, Peros G. "Transcriptional impairment of b-catenin / E-cadherin complex is not associated with b-catenin mutations in colorectal carcinomas".
Br J Cancer. 2003 Jan 27; 88 (2) :206-9
Subject: Surgical Oncology
Methods: Immunohistochemistry - Molecular Biology
References: 3
Impact factor 4.459
- 22** Garinis gA, Manolis En, Spanakis Ne, Patrinos Gp, Peros G and Menounos Pg. "High frequency of concomitant mm23-H1 and E-cadherin transcriptional inactivation in primary non-inheriting colorectal carcinomas".
J Mol Med. 2003 Apr; 81 (4) :256-63
Subject: Surgical Oncology
Methods: Immunohistochemistry - Molecular Biology
References: 1
Impact factor: 5.157
- 23** Argeli M Ap, Papadimitriou L, Ninos S, Manolis E, Mykoniatis Mg, Theocharis Se. "Hepatic Stimulator Substance administration ameliorates liver regeneration in an animal model of fulminant

- hepatic failure and *encephalopathy*".
Liver Int. 2003 Jun;23(3):171-8
Subject: Toxicology
Methods: Laboratory animals - Biochemistry - Toxicology
References: 9
Impact factor: 2.344
- 24** Spanakis N, Manolis EN, Tsakris A, Tsiodras S, Panagiotopoulos T, Saroglou G, Legakis NJ. "Coxsackievirus B3 sequences in the myocardium of fatal cases in a cluster of acute myocarditis in Greece"
J Clin Pathol. 2005 Apr;58(4):357-60
Subject: Clinical Virology
Methods: Immunological and molecular techniques
References: 2 Impact factor: 2.245
- 25** Sofianou D, Peftoulidou M, Manolis EN, Sofianos E, Tsakris A. "A fatal case of Ludwig's angina and mediastinitis caused by an unusual microorganism, *Gemella morbillorum*".
Scand J Infect Dis. 2005;37(5):367-9
Subject: Clinical Microbiology
Methods: Investigation of bacterial infection
References: -
Impact factor: 1.560
- 26** Metzidie E, Manolis EN, Pournaras S, Sofianou D, Tsakris A. "Spread of an unusual penicillin- and imipenem resistant but ampicillin susceptible phenotype among *Enterococcus faecalis* clinical isolates".
J Antimicrob Chemother. 2006 Jan;57(1):158-60.
Subject: Clinical Microbiology
Methods: Molecular Methods
References: -
Impact factor: 3.891
- 27** Karapavlidou P, Sofianou D, Manolis EN, Pournaras S, Tsakris A. "CTX-M-1 extended- spectrum beta-lactamase-producing *Proteus mirabilis* in Greece". *Microb Drug Resist.* 2005 Winter;11(4):351-4.
Subject: Clinical Microbiology
Methods: Characterization of a new beta-lactamase by molecular methods
Reviews: 0
Impact factor: 1.936
- 28** Manolis EN, Tsakris A, Kaklamanos I, Markogiannakis A, Siomos K. "In vivo effect of carbon dioxide laser-skin resurfacing and mechanical abrasion on the skin's microbial flora in an animal model".
Dermatol Surg. 2006 Mar;32(3):359-64.
Subject: Plastic Surgery
Methods: Laboratory animals - Histology
References: -
Impact factor: 2.309
- 29** Ikonomidis A, Pournaras S, Markogiannakis A, Maniatis AN, Manolis EN, Tsakris A. "Low genetic diversity of the intrinsic OXA-51-like class D carbapenemases among *Acinetobacter baumannii* clinical isolates in Greece".

Epidemiol Infect. 2007 Jul;135(5):877-81.

Subject: Infectious Diseases

Methods: Molecular Methods

References: -

Impact factor: 1.809

- 30** Baltayiannis N, Markogiannakis A, Sfyridis P, Manolis EN, Anagnostopoulos D, Bolanos N, Hatzimichalis A, Tsakris A . "The influence of local instillation of fusidic Acid on the development of microbial complications after lung resection".
J Chemother. 2006 Jul;18(3):285-92.
Subject: Surgery - Infectious Diseases
Methods: Surgery
References: -
Impact factor: 1.374
- 31** POULOU A, MANOLIS EN, MARKOU F, ROPOTOS A, GEORGIADIS M, TSAKRIS A . "Fatal massive hemolysis as the first manifestation of Clostridium perfringens septicemia in a patient with non-systemic or local predisposing disorder". Anaerobe. 2007 Feb;13(1):40-2.
Subject: Clinical Microbiology
Methods: Investigation of bacterial infection
References: -
Impact factor: 0.814
- 32** MANOLIS EN, KAKLAMANOS I, Spanakis N, FILIPPOU D, PANAGIOTAROPOULOS T, TSAKRIS A, SIOMOS K. " tissue concentration of transforming growth factor β 1 and basic fibroblast growth factor in skin wounds created with a CO₂ laser and scalpel: A comparative experimental study, using an animal model of skin resurfacing".
Wound Repair. Regen. 2007 Mar-Apr;15(2):252-7
Subject: Plastic Surgery
Methods: Laboratory animals - Histology
References: -
Impact factor: 2.230
- 33** KIEKKAS P, BROKALAKI H, MANOLIS EN, ASKOTIRI P, KARGA M, BALTOPOULOS I . G . "Fever and standard monitoring parameters of ICU patients: A descriptive study".
Intensive Crit Care Nurs. 2007 Oct;23(5):281-8
Subject: Intensive Care
Methods: Clinical Evaluation of the grade fever
References: -
Impact factor: -
- 34** FILIPPOU D, PAPADOPOULOS VP, TRIGA A, FILIPPOU G, RIZOS SP, SKANDALAKIS P, MANOLIS EN . "Nitric oxide, antioxidant capacity, nitric oxide synthase, and xanthine oxidase plasma levels in a cohort of burn patients".
Burns. 2007, Dec;33(8):1001-7.
Subject: Plastic Reconstructive Surgery

Methods: Biochemical Markers

References: -

Impact factor: 1.139

- 35** PAPADOPOULOS V, FILIPPOU D, MANOLIS EN, MIMIDIS K. " Haemostasis impairment in patients with obstructive jaundice". J. Gastrointestin Liver Dis. 2007 Jun;16(2):177-86.Review.
- Subject: Surgery - Oncology*
Methodology: Biochemistry - Molecular Techniques
References: -
Impact factor: -
- 36** MANOLIS E, FILIPPOU D, THEOCHARIS S, PANAGIOTAROPOULOS T, LAPPAS D, MOMPHERATOU E. "Anatomical landmarks: Dimensions of the mastoid air cell system in the Mediterranean population. Our experience from the anatomy of 298 temporal bones". Anat Sci Int. 2007 Sep;82(3), 139-46.
Subject: Skull Base Anatomy / Anatomy Descriptive
Methodology: Measurements of Land - Marks temporal Bone Dissection of cadaveric material
References: -
Impact factor: -
- 37** KIEKKAS P, BROKALAKI HE, MANOLIS E, SAMIOS A, SKARTSANI CH AND BALTOPOULOS G. "Patient severity as an indicator of nursing workload in the intensive care unit". Nurs Crit Care. 2007 Jan-Feb;12(1):34-41.
Subject: Intensive Care
Methods: Clinical Evaluation
References: -
Impact factor: -
- 38** MARKOGIANNAKIS A , FILDISIS G , TSIPLAKOU S , IKONOMIDIS A , KOUTSOUKOU A , POURNARAS S , MANOLIS EN , BALTOPOULOS G , TSAKRIS A . "Cross- transmission of multidrug-resistant *Acinetobacter baumannii* clonal isolates causing septic episodes in a trauma intensive care unit". Infect Control Hosp Epidemiol. 2008 May;29(5):410-7.
Subject: Clinical Microbiology
Methods: Molecular Methods
References: -
Impact factor: 2.236
- 40** KIEKKAS P, SAKELLAROPOULOS C, BROKALAKI HE, MANOLIS E , SAMIOS A, SKARTSANI CH, BALTOPOULOS G. "Nursing workload associated with fever in the general intensive care unit". Am J Crit Care.2008 Nov;17(6):522-31
Subject: Intensive Care
Methods: Clinical Evaluation
References: -
Impact factor: 1.685
- 41** KIEKKAS P, SAKELLAROPOULOS C, BROKALAKI HE, MANOLIS E , SAMIOS A, SKARTSANI CH, BALTOPOULOS G ."Association between nursing workload mortality of intensive care unit patients".

J Nurs Scholarsh. 2008;40(4):385-90

Subject: Intensive Care

Methods: Clinical Evaluation

References: -

Impact factor: 1.250

- 42** *MANOLIS E, FILIPPOU D, PAPADOPOULOS P, KAKLAMANOS J, KATOSTARAS T, CHRISTIANAKIS E, BONATSOS G, TSAKRIS A.*

"The culture site of gallbladder affects recovery of bacteria in symptomatic cholelithiasis".

J Gastrointest Liver Dis.2008 Jun;17(2):179-82

Subject: Surgery - Clinical Microbiology

Methodology: Exploring the bacterial infection

References: -

Impact factor: -

- 43.** *MANOLIS E, FILIPPOU D, PAPADOPOULOS P, TSOUMAKAS K, KATOSTARAS T, CHRISTIANAKIS E, FILDISIS G, MOMPHERATOU E*

."Temporal bone and mastoid process morphology in Mediterranean Population".

Ital J Anat Embryol.2008 Apr-Jun;113(2)117-28

Subject: Skull Base Anatomy / Anatomy Descriptive

Methodology: Measurements of Land - Marks Dissection / temporal bone from cadaveric material

References: -

Impact factor: -

- 44** *MANOLIS E, FILIPPOU D, TSOUMAKAS C, DIOMIDOUS M, CUNNINGHAM M, KATOSTARAS T, WEBER A, EAVEY R.* "Radiological evaluation of the ear anatomy in cholesteatoma".

J Craniofac Surg. 2009 May;20(3):807-10

Subject: Aktinologia - Skull Base Anatomy

Methodology: imaging (CT, MRI)

References: -

Impact factor: 0.739