

CURRICULUM VITAE

Dr. Evangelos Kolettas, B.Sc.(HONS)(LON), Ph.D.(LON)
Associate Professor of Molecular Cell Biology
Laboratory of Biology, School of Medicine
Faculty of Health Sciences, University of Ioannina, Greece

SHORT CV

Evangelos Kolettas BSc(HONS)(LON), PhD(LON), Associate Professor of Molecular Cell Biology

EDUCATION:

1981 - 1983: *Higher Diploma in Applied Biology*, Biology Department, Sunderland Polytechnic, UK
1983 - 1986: *B.Sc. (Hons) in Biochemistry*, Biochemistry Dept., King's College, University of London
1986 - 1991: *Ph.D. in Biochemistry/Genetics**, Department of Biochemistry, King's College, University of London & Genetics Division, MRC National Institute for Medical Research, London (*Submitted: 9/1990; PhD viva: 6/1991; Awarded: 17/7/1991)

Continuing Education: Short online courses (Coursera) leading to *Statement of Accomplishment* in:

10/2012 - 01/2013: *Experimental Genome Science*, University of Pennsylvania, USA; 03/02/2013
01/2013 - 04/2013: *Introduction to Genetics and Evolution*, Duke University, USA; 09/04/2013
07/2013 - 08/2013: *Epigenetic Control of Gene Expression*, University of Melbourne; 05/09/2013
08/2013 - 11/2013: *Introductory Human Physiology*, Duke University, USA; 14/11/2013
11/2013 - 12/2013: *Genes and the Human Condition: From Behaviour to Biotechnology*, University of Maryland, USA; 07/01/2014

POSITIONS:

6/2015 - Present: **Associate Professor of Molecular Cell Biology**, Laboratory of Biology, School of Medicine, Faculty of Health Sciences, University of Ioannina (Uoi), Greece

2007 - Present: **Group Leader**, Biomedical Research Division, Institute of Molecular Biology & Biotechnology (EU-Life), Foundation for Research & Technology, Ioannina

Undergraduate Teaching (MBBS & MSci in Applied Biology & Biotechnology):

- *Core Biology I & II:* Cell and Molecular Biology lectures
- *Pathological Oncology* (optional course module): Molecular Basis of Cancer
- *Stem Cell Biology* (optional module)

Postgraduate Teaching:

1. MSc in Molecular Cell Biology and Biotechnology
 - *Molecular Cell Biology* (course module)
 - *Molecular Oncology* (course module)
2. MSc in Basic Biomedical Sciences
 - *Biology & Biochemistry* (course module)
 - *Genetic Engineering and Gene Therapy* (course module)
 - *Biology of Stem Cells and Applications in Regenerative Medicine* (course module)

Molecular Cancer Biology & Senescence Research Group (*Cell signalling and Regulatory networks in DNA damage, inflammation, senescence and cancer*):

Theme 1: *NF- κ B signalling pathways and IKK/NF- κ B-miRNA transcriptional regulatory network in DNA damage and inflammation impacting on senescence and cancer.*

NF- κ B signalling pathways regulate inflammation and are involved in carcinogenesis: *Functional roles and mechanisms of action of IKK α - vs IKK β -mediated NF κ B-dependent or independent signalling, and IKK/NF κ B-miRNA regulatory network on DNA damage and inflammation impacting on senescence and cancer, using novel inducible retro/lentivectors in in vitro cell culture models and in vivo novel mouse cancer models, and by employing biochemical and molecular cell biology techniques, bio-imaging and high-throughput molecular analysis in conjunction with bioinformatics.*

Theme 2: CRISPR/Cas9 screening technology: *Identifying novel regulators involved in cell signalling, DNA damage, inflammation, senescence and cancer, by employing functional kinase- or transcription factor-specific CRISPR/Cas9 screens in appropriate reporter cells.*

Theme 3: *TP53 tumour suppressor pathway in DNA damage, senescence and cancer.*

2014 - 6/2015: Associate Professor of Physiology with emphasis in Molecular Physiology,
Laboratory of Biology, School of Medicine, FHS, UoI, Greece

Undergraduate and Postgraduate teaching, and Research: As above

2002 - 2014: Assistant Professor of Physiology with emphasis in Molecular Physiology,
Laboratory of Physiology, School of Medicine, UoI, Greece

Undergraduate Teaching in MBBS (2003-2014):

- *Human Physiology I:* Cell Physiology; Biological Membrane Structure-Function and Transport; Physiology of the Digestive System

Postgraduate Teaching:

1. MSc in Agricultural Product Assurance & Quality (2003-2008)
2. MSc in Pain Control: *Physiology of the Digestive system* (2004-2013)
3. MSc in Agro-chemistry and Biological Products (2004-2013)
4. MSc in Biotechnology (2008-2014)

Cancer Biology and Senescence Research Group: *Role of IKK-mediated NF- κ B-dependent or - independent signalling in senescence and cancer*

1998 - 2002: Professor of Chemistry and Biochemistry

Department of Aquaculture & Fisheries, Technological Education Institute (TEI) of Epirus, Greece

Undergraduate Teaching (Course modules lead):

- *Organic Chemistry, Fish Biochemistry, Fish Nutrition, Biotechnology of aquatic organisms,* to Diploma in Aquaculture and Fisheries, TEI of Epirus
- *Genetics,* Degree in Agro-ecology, UoI/TEI of Epirus, Ioannina

Research: *Fish Genetics*

1995 - 1998: Lecturer in Biochemistry (Fixed-term)

Laboratory of Biochemistry, School of Medicine, University of Thessaly, Larisa, Greece

Undergraduate Teaching:

- *Organic Chemistry:* Aldehydes and ketones; Carboxylic acids
- *Biochemistry I:* Topics in Structural and Metabolic Biochemistry
- *Biochemistry II:* Biochemistry of connective tissues and extracellular matrix

Research: *Heat shock proteins in lymphocytes*

1997 - 1998: Lecturer in Genetics (Fixed-term), Laboratory of Genetics

Department of Agricultural Biotechnology, Agricultural University of Athens, Greece

Undergraduate Teaching: *Animal Biotechnology* (course module)

6/2 - 26/2/97: Visiting Scientist (Travel grant), Wellcome Trust Centre for Cell-Matrix Research and Biochemistry Division, School of Biological Sciences, University of Manchester, UK

Research: *Modulation of chondrocyte differentiation by cytokines*

1996 - 1997: Lecturer in Biochemistry (Fixed-term), Department of Nursing

School of Health & Welfare Professions, TEI of Thessaly, Greece

Undergraduate Teaching: *Biochemistry* including Bioenergetics & Enzymology

1990 - 1994: Postdoctoral Fellow, Arthritis and Rheumatism Research Council UK,

Biochemistry Dept., Charing Cross and Westminster Medical School, London, UK

Research: *Chondrocyte immortalisation and differentiation*

Undergraduate Teaching: *Biochemistry of Cancer* to MBBS and BSc Biochemistry

1988 - 1990: Experimental Demonstrator, Department of Biochemistry, King's College London

Undergraduate Practical classes to MBBS, BDS and BSc Biochemistry students

PROJECT / THESIS SUPERVISION

- Higher Diploma Projects: 4
- BSc Projects: 6
- MSci Projects: 2
- MSc theses: 7
 - MSc theses examination committees: 6
- PhD theses, as: (a) *Supervisor*: 8; (b) *Member of supervising committee*: 10
 - PhD theses examination committees: 23
- Postdoctoral Supervision: 4
- I act as an internal and external undergraduate and postgraduate theses examiner
- Mentoring early career researchers (PhDs, Postdocs and lecturers): 13

RESEARCH GRANTS (24 competitive grants as PI, co-PI, Consortium Coordinator or Member)

- 1997 - 2003: 3 grants, 21.000 € (as PI)
- 2003 - 2004: 5 grants, 30.000 € (3 as PI)
- 2004 - 2009: 6 grants, 340.400 € (4 as PI & 2 as co-PI)
- 2012 - 2016: 5 grants, 1.125.000 € (1 as Coordinator, 3 as PI & 1 as Member)
- 2017 - 2019: 3 grants, 617.000 € Total: 2.133.400 €
- 2020 - 2021: 1 IMBB Research Institute internal grant, 10.000 €
- 2020 - 2023: 1 University of Ioannina Consortium Biomedical grant, 3.000.000 € (Kolettas lab: 110.000 € for *kinase-specific CRISPR/Cas9 screens in NSCLC growth and responses*)

GRANT / JOURNAL REVIEWER

- Reviewed 30 grant proposals submitted to national funding bodies, BBSRC, WCR(AICR), MRC South Africa, Czech Science Foundation
- Reviewed 64 manuscripts in a variety of journals (*Biochem J, Biochem Pharmacol, Biol Cell, BMC Cancer, Biomedicines, Cancers, Cell Cycle, Cells, Cell Death Dis, Commun Biol-NP, Curr Med Chem, Exp Gerontol, FEBS J, Histol Histopathol, Int J Med Sci, J Ageing Res, J Cell Mol Med, J Cell Physiol, J Clin Med, J Gerontol, J Hepatol, Mech Ageing Dev, Oncogene, PLoS One, Stem Cells Transl Med*)

EDITORIAL WORK

- Journal Editorial Member: *ISRN Cell Biology* (open access, peer-reviewed journal) (2012 - 2014)
- Guest Editor for a special issue of *CELLS* (2021) (IF 4.366, rising to 5.656) on '*The DNA Damage Response in Cell Physiology and Disease*' (https://www.mdpi.com/journal/cells/special_issues/Damage_Response)
- Guest co-editor for a joint special issue of *CANCERS-CELLS* (MDPI)(2021(co-editor in *Cancers*; IF 6.126) on '*NF- κ B signalling in cellular responses to threats, cancer development and therapy*' (https://www.mdpi.com/journal/cancers/special_issues/nuclear_factor_kappaB; https://www.mdpi.com/journal/cells/special_issues/NF-Kappa_B)

PUBLICATIONS

- *Methods book series*: Two chapters in '*Cell and Tissue Culture: Laboratory Procedures*' (Wiley & Sons, Publ.), on gene transfer methods of oncogenes in mammalian cells (1994)
- *Book chapters in Greek*: Three chapters for a textbook '*Elements in Cell Biology*' (1997)
- *Books/Chapters*: Scientific co-editing/translation in Greek of Textbooks and/or Chapters (Ch):
 - '*Human Physiology: From Cells to Systems*', by L. Sherwood (2012) 8th e Cengage, Co-Editor and translation/editing of Chapter 16: The Digestive System (Academic Press, Greece, 2014)
 - '*Molecular Biology of the Cell*' by Alberts *et al* (2014) Garland Science, translation/editing of Chapter 22: *Stem Cells and Tissue Renewal* (Utopia, Greece, 2018)
 - '*Molecular Cell Biology*' by Lodish *et al* (2016), Freeman & Co, Co-Editor, and translation/editing of Chapter 5: Fundamental Molecular Genetic Mechanisms (Utopia, Greece, May 2020)
 - '*Principles of Development*' by Wolpert *et al* (2019), 6th e, OUP, Ch1: *History & Basic Concepts*
- **53** abstracts/posters to national, British, European and international conferences/workshops.

- **1** Invited editorial (*Curr Vasc Pharmacol*), **46** full papers in peer-reviewed journals (*Nature, J Cell Biol, Cell Res, J Cell Sci, Free Rad Biol Med, ACS Chem Biol, Rheumatol, Biochem Pharmacol, J Cell Mol Med, J Mol Biol, Mobile DNA, Cell Signal, Eur J Biochem, FEBS J, FEBS Lett, Exp Cell Res, Cell Oncol, Exp Gerontol, Mech Ageing Dev, J Cell Biochem, Int J Oncol, Arch Biochem Biophys, Mol Cell Biochem, J Theor Biol, Histo Histopathol, Biosci Rep, Biomedicines, J Exp Clin Cancer Res, Cells, Cancers, Life Sci Alliance, Sensors & Actuators: B. Chemical*).

Since July 2020, I have published 4 papers, 2 papers have been submitted, a fourth paper has been resubmitted, and several others are under preparation for submission. I am guest co-editor for a special issue of *Cells* on 'DNA damage response in cell physiology a disease', and for *Cancers* on 'NF- κ B signalling in cancer development & therapy', in which two additional papers will be submitted.

My published work with an impact factor of >260 has received 3280 citations (*h22*), which are expected to increase in the next few years due to several recently published and upcoming papers.

SCIENTIFIC COLLABORATORS

1. National: University of Ioannina, IMBB-FORTH, University of Athens, Biomedical Research Foundation Academy of Athens, BSRC 'A. Fleming' Athens, Democritus University of Thrace.

2. European: Brunel University London, Nottingham Trent University, Sussex University, Essex University, University of Heidelberg/University of Heidelberg Hospital

3. International:

USA: Stony Brook University NY, UPenn, New Mexico University, Iowa State University

HONOURS and AWARDS (1985 - 2004): 7

MEMBERSHIP

- Societies: Hellenic Society of Biochemistry and Molecular Biology, Hellenic Society of Biological Sciences, Hellenic Association for Molecular Cancer Research, International Cell Senescence Association, Cancer Epigenetics Society

- Digital networks: Models of Human Diseases Consortium; Metabolism and Cancer; Hypoxia in Cancer; Cancer Molecular Therapeutics Research Association (CMTRA); Drug Targets and Biomarkers; Epic Epigenetics Forum; Epigenetics; Epigenie; Gene & Cell Therapy network

CONFERENCE/WORKSHOP ORGANISATION (Member of the organising/scientific committee)

- 3rd European NF- κ B subunit workshop, Corfu, Greece (10/2016).

- 67th Hellenic Society of Biochemistry and Molecular Biology annual conference, Ioannina, Greece (11/2016).

- I am known to UK, European and other researchers in the field of NF- κ B signalling in health and disease.

CONFERENCES (National, British, European and International Conferences attended): **41**

SCIENTIFIC LECTURES (Invited speaker): **34** (National, Cyprus, UK)

FULL CV

PERSONAL DETAILS

Name: Evangelos Kolettas, B.Sc.(Hons)(LON), Ph.D.(LON)

Positions: • **Associate Professor of Molecular Cell Biology**, Laboratory of Biology
School of Medicine, Faculty of Health Sciences, University of Ioannina, Greece, and
• **Group Leader, Molecular Cancer Biology and Senescence (CBS) Group**
Biomedical Research Division, Institute of Molecular Biology & Biotechnology
(IMBB)(EU-Life), Foundation for Research & Technology (FORTH), Ioannina, Greece

Place of Birth: Greece **Nationality:** Greek **Sex:** Male

Work address: Laboratory of Biology, School of Medicine, Faculty of Health Sciences
University of Ioannina, University Campus, 45110 Ioannina, Greece

Work Tel: 0030-26510-07578 (office); 0030-26510-07758 (lab)

Mobile Tel.: 0030-6944304837

Fax: 0030-26510-07863

E-mail: ekoletas@uoi.gr; ekoletas@gmail.com

Skype: [evangelos.kolettas](https://www.skype.com/user/evangelos.kolettas)

Website: <http://www.imbb.forth.gr/en/> (group site under construction)

<https://www.linkedin.com/in/kolettas/>

<https://scholar.google.com/citations?user=3hbUwhIAAAJ&hl=en>

https://www.researchgate.net/profile/Evangelos_Kolettas

ORCHID ID: [0000-0002-5820-487X](https://orcid.org/0000-0002-5820-487X)

EDUCATION

1972 - 1978: Apolytirion (Graduation Certificate), 2nd Lyceum, Ioannina, Greece (09/1978)

1978 - 1979: Norrington Oxford English Centre, 145 Banbury Road, Oxford OX2 7AN, UK.

1979 - 1981: South East London Technical College (SELTEC), Breakspears Road, Lewisham Way, Lewisham, SE4 1UT, London, UK (10/1979 – 06/1981).

➤ G.C.E. 'A' Levels:

• Pure Mathematics (632), Grade 'B' (AEB) (06/1979)

• Modern Greek (715), Grade 'E' (U London Board) (06/1980)

➤ Certificate in English for foreign students, Grade '3' (Pass) (JMB) (03/1981)

1981 - 1983: **Higher Diploma (H.D.) in Applied Biology** (07/1983) (01/10/1981-01/07/1983)

Department of Biology, Life Sciences Building, Sunderland Polytechnic, Chester Road, Sunderland SR1 3SD, UK

Diploma Projects (1982 - 1983):

1. Investigation of the ascorbic acid oxidase activity in different plant tissues.

Supervisor (Biochemistry): Dr. Vivian Hancock, PhD.

2. Isolation of soil actinomycetes and investigation of antibiotic production using different substrates and microorganisms such as *E. coli*, *S. aureus*, *P. fluorescens* and *B. subtilis* as bacterial markers for antibiotic production by the isolated soil actinomycetes. *Supervisor (Microbiology):* Dr. John Terry, PhD

1983 - 1986: **B.Sc. (HONS) in Biochemistry** (2.1) (08/1986) (03/10/1983-01/08/1986)

Department of Biochemistry, King's College London (KQC), University of London, Kensington Campus, Atkins Bldg, Camden Hill Rd, Kensington, London W8 7AH, UK

BSc Project: *The effects of various fatty acids upon the rate of elastolysis of bovine ligamentum nuchae elastin by porcine pancreatic elastase*

Supervisor: Prof. Harold Baum, PhD, FRSC, FIBiol, Head of Biochemistry Dept., KCL

1986 - 1991: *Ph.D. in Biochemistry (Genetics)* (07/1991) (01/10/1986-05/09/1990)
Department of Biochemistry, King's College, University of London, Strand Campus, Strand, London WC2R 2LS, and
Genetics Division, MRC National Institute for Medical Research (NIMR), The Ridgeway, Mill Hill, London NW7 1AA, UK
PhD Thesis*: '*Factors involved in the immortalisation and neoplastic transformation of rodent and human embryonic fibroblasts*', University of London
Supervisors: Drs Robin Holliday, FRS and Robert F. Rosenberger, Genetics Division, MRC NIMR; Dr Alan Hipkiss, Biochemistry Dept., King's College London
(*Submitted: 09/1990; Defended: 06/1991; Awarded: 17/07/1991)

Continuing Education (Coursera: <https://www.coursera.org>)

15/10/2012 - Statement of Accomplishment in *Experimental Genome Science*
21/01/2013: Perelman School of Medicine and Wistar Institute, University of Pennsylvania, Philadelphia, USA; Grade: 84.8%; 03/02/2013; Duration 12 weeks.
04/01/2013 – Statement of Accomplishment with distinction in *Introduction to Genetics & Evolution*, Biology Dept., Duke University; Grade: 88.6%; 9/4/2013; Duration 10 wk
09/04/2013: **01/07/2013 – Statement of Accomplishment with distinction in *Epigenetic Control of Gene Expression***
28/08/2013: Molecular Medicine Division, Walter & Eliza Hall Institute of Medical Research and Department of Genetics, University of Melbourne, Australia
Grade: 96.7%; 05/09/2013; Duration 6 weeks.
05/08/2013 – Statement of Accomplishment with distinction in *Introductory Human Physiology*
11/11/2013: Department of Cell Biology, Duke Medical Centre, Duke University, Durham, NC, USA Grade: 87%; 14/11/2013; Duration 10 weeks.
04/11/2013 – Statement of Accomplishment with distinction in *Genes and the Human Condition: From Behaviour to Biotechnology*, College of Agriculture and Natural Resources, University of Maryland, US; Grade: 99.8%; 7/01/2014; Duration 6 weeks

PROFESSIONAL EXPERIENCE (*Teaching and Research*)

1988 - 1990: *Experimental Demonstrator in Biochemistry*
Department of Biochemistry, King's College, University of London, London UK
(15/10/1988-30/05/1989 & 15/10/1989-30/05/1990)
Undergraduate Teaching as PhD student: *Experimental Biochemistry* (BC105), *Cells & Molecules* (BC106), *Experimental immunobiology*, Practical classes to MBBS, BDS & BSc Biochemistry
1990 - 1994: *ARC Postdoctoral Research Assistant* funded by the ***Arthritis and Rheumatism Research Council UK***, Department of Biochemistry, Charing Cross and Westminster Medical School, University of London, UK (01/10/1990-30/09/1994)
Research: *Chondrocyte immortalisation & differentiation*, under Hon. Prof. Helen Muir, FRS, CBE
Undergraduate Teaching (as Assistant Lecturer in Biochemistry): *Biochemistry of Cancer*
1994 - 1995: *National Military Service*, Division of Health (21/09/1994-21/09/1995)
1996 - 1997: *Lecturer in Biochemistry* (Fixed-term), Department of Nursing, Technological Educational Institute (TEI) of Thessaly, Larisa, Greece (07/10/1996-27/06/1997)
Undergraduate Teaching: *Biochemistry*
06/2 - 26/2/97: *Visiting Scientist in Biochemistry* (Travel grant), Wellcome Trust Centre for Cell-Matrix Research/Biochemistry Division, School of Biological Sciences, University of Manchester, UK (06/02-26/02/1997)
Research: *Modulation of chondrocyte differentiation by cytokines*; *Head:* Prof. Tim Hardingham

1997 - 1998: Lecturer in Genetics (Fixed-term), Laboratory of Genetics, Department of Agricultural Biotechnology, Agricultural University of Athens, Athens, Greece
(15/10/1997-28/02/1998)

Undergraduate Teaching: *Animal Biotechnology*

1995 - 1998: Lecturer in Biochemistry (407/80; Fixed-term), Laboratory of Biochemistry, School of Medicine, University of Thessaly, Larisa, Greece
(01/09/1995-28/02/1998)

Undergraduate Teaching: Lectures & practicals in MBBS.

- *Organic Chemistry*
- *Biochemistry I* (Metabolism)
- *Biochemistry II* (Biochemistry of connective tissues)
- *Practical classes*
- Research: *Heat shock proteins (Hsp)70 and Hsp90 in isolated human lymphocytes*

1998 - 2002: Professor TEI of Chemistry and Biochemistry, Head of the Chemistry & Biochemistry Lab, Department of Aquaculture & Fisheries, Technological Educational Institute (TEI) of Epirus, Greece
(25/02/1998 - 31/10/2002)

Undergraduate Teaching

- Diploma in Aquaculture and Fisheries (1998-2002):
 - *Organic Chemistry* for the life sciences
 - *Fish Biochemistry*
 - *Fish Nutrition*
 - *Biotechnology of aquatic organisms*
 - *Practical classes*
- Degree in Agro-ecology students, UoI/TEI of Epirus
 - *Genetics*

Research: *Fish Genetics*

2002 - 2014: Assistant Professor of Physiology with emphasis in Molecular Physiology
Cell & Molecular Physiology Unit, Laboratory of Physiology, School of Medicine, University of Ioannina (Uoi), Ioannina, Greece
(31/10/2002-10/04/2014)

Undergraduate Teaching: Human Physiology I, Lectures & Practicals to Medical students

- *Membrane Biochemistry and Physiology: Membrane Structure-Function and Transport*
- *Physiology of Digestive System*
- *Practical Classes*

Postgraduate Teaching:

- 1. MSc in Agricultural Product Assurance and Quality** (2003-2008)
 - *Genetically-modified organisms and Environmental Pollution and Mutagenesis*
- 2. MSc in Pain Control** (2004-2013): *Introduction to Metabolism and Digestive System*
- 3. MSc in Agrochemistry & Biological Products**, Uoi/TEI of Epirus, Ioannina, Greece (2004-13)
 - *Animal Biotechnology*
- 4. MSc in Biotechnology** (2008-2017): Cell Cycle Regulation and Cancer (see below)

Research: *Molecular Cancer Biology and Senescence Group:* Role of IKK-mediated NF- κ B-dependent and -independent signalling on DNA damage, senescence and cancer

04/2007 - Present: Group Leader, Biomedical Research Division, Institute of Molecular Biology & Biotechnology, Foundation for Research and Technology, Ioannina, Greece.

Research: *Molecular Cancer Biology and Senescence (CBS) Group* (see below)

2014 - 2015: Associate Professor of Physiology with emphasis in Molecular Physiology,
Laboratory of Biology, School of Medicine, Faculty of Health Sciences (FHS), UoI,
University Campus, 45110 Ioannina, Greece (10/04/2014 - 10/06/2015)

Undergraduate and Postgraduate Teaching and Research: Please see below

06/2015 - Present: Associate Professor of Molecular Cell Biology

Laboratory of Biology, School of Medicine, FHS, UoI, University Campus,
45110 Ioannina, Greece (10/06/2015-Present)

Undergraduate Teaching: *Biology I and II* (core modules) - *Molecular Cell Biology* lectures and practical classes to MBBS and MSci in Applied Biology and Biotechnology students (2014-):

- **Biology I** (1st year, 2nd Semester, MBBS): Molecular Cell Biology lectures
- **Biology II** (2nd year, 1st Semester, MBBS): Molecular Cell Biology lectures
- **Biology of Stem Cells** (Optional course module, 3rd yr, Semester 1, MBBS and MSci in Applied Biology & Biotechnology)
- **Pathological Oncology** (Optional course module, 5th yr, Semester 1. MBBS): *Molecular Basis of Cancer*

Postgraduate Teaching:

1. MSc in Molecular Cell Biology and Biotechnology, University of Ioannina, Greece

- *Molecular Cell Biology* (course module)
- *Molecular Cell Biology of Stem Cells & applications in Regenerative Medicine* (Course module)
- '*Molecular Oncology: Cell growth, differentiation and cancer*' (Course module lead)

2. MSc in Basic Biomedical Sciences, UoI Medical School, Greece (2015-Present)

- *Genetic Engineering and Gene Therapy* (course module) (2015-18)
- *Biology and Biochemistry* (course module)
- *Biology of Stem Cells and applications in Regenerative Medicine* (course module)

RESEARCH: Molecular Cancer Biology & Senescence (MCBS) Research Group

(*Cell Signalling and Regulatory networks in DNA damage and inflammation impacting on senescence and cancer*):

1. NF- κ B Signalling pathways and IKK/NF- κ B-miRNA regulatory network in inflammation and cancer

IKK/NF- κ B transcription factors are the main regulators of immunity and inflammation and are also involved in haematological and solid malignancies. We focus on: (i) the regulation and mechanisms of action of the inhibitor of NF- κ B kinase (IKK) complex, which is essential for the activation of the NF- κ B transcription factor family that are pivotal regulators of pro-inflammatory and stress-like responses in tissue homeostasis in health and disease, and (ii) the impact of each IKK on the regulation of fundamental cellular processes, and their diverse physiological effects in different cells. On-going research projects focus on the:

IKK-mediated signalling pathways, and IKK/NF- κ B-miRNA transcriptional regulatory network on urethane-induced non-small cell lung cancer (NSCLC) development and progression

We showed that CHUK/IKK α acts as NSCLC tumour suppressor by controlling hypoxia (HIF)-inducible pathways required for the enhanced growth of tumors *in vivo*. In contrast, IKK β /NF- κ B acts as tumour promoter by, at least in part, downregulating the metastasis suppressor CD82.

Our research interests focus on the '*Functional roles and mechanisms of action of IKK α - versus IKK β -mediated NF- κ B-dependent or -independent signalling pathways, and IKK/NF- κ B-miRNA regulatory network*, on:

I. DNA damage and Senescence

- (a) *Molecular crosstalk between the DNA damage response (DDR) and the mitotic Spindle Assembly Checkpoint (SAC) impacting on senescence and cancer, in response to chemotherapeutic drugs*

II. Cancer

- (b) ONGOING: *IKK/NF- κ B in non-small cell lung cancer (NSCLC) development and progression*
- *Defining an epigenetic mechanism of CHUK's tumour suppressor function in human NSCLC*
- (c) *Impact of canonical canonical NF- κ B in mutant EGFR-mediated NSCLC to identify novel NF- κ B-regulated cancer biomarkers and potential therapy targets*
- (d) *Inflammatory cytokine-induced DNA damage, and vice versa, leading to genomic instability & cancer*

focusing a combination of *in vitro* cell culture models generated by retro-/lenti-viral vectors, and *in vivo* novel tissue-specific transgenic mouse models, and by employing biochemical and molecular cell biology techniques, bio-imaging (confocal laser scanning microscopy), and high-throughput molecular analysis (RNA-seq and Nanostring miRNA analysis in conjunction with bioinformatics).

2. CRISPR/Cas9 screening to identify novel regulators of DNA damage, inflammation and cancer

Identifying novel regulators of cell signalling involved in inflammation-induced DNA damage, senescence and cancer, by employing domain-specific CRISPR/Cas9 screening technology such as a functional kinase- and/or a transcription factor (TF)-specific CRISPR/Cas9 screen

- (a) '*Identification of novel oncogenic protein kinases involved in lung cancer for the development of anticancer therapies*'. Employing a functional kinase-specific CRISPR/Cas9 screen to ablate the kinome to identify novel PKs involved in NSCLC growth and responses
Funded; PI: **E. Kolettas**; Budget: 100000 €, 2021-23

3. TP53 tumour suppressor pathway in DNA damage, senescence and cancer

We have generated normal and telomerised human embryonic lung fibroblasts, MRC-5 and IMR-90, expressing different p53 mutants including lung-specific p53 mutants (p53^{143Val}, p53^{249Ser}, p53^{273His}). These cells can be used in conjunction with human lung cancer cells differing in their p53 status such as A549 (wt p53, or bearing p53^{143Val}, p53^{249Ser}, p53^{273His} mutants), H1299 (p53-null or bearing p53^{143Val}, p53^{249Ser}, p53^{273His} mutants), H1437 (mutp53), and H1792 (mutp53) to investigate the impact of p53-miRNA regulatory network in DNA damage in senescence and cancer.

THESIS SUPERVISION

Undergraduate Diploma Projects (Aquaculture & Fisheries Dept., TEI of Epirus, Greece) **(2000-2): 4**

BSc Degree Projects [University of Ioannina (UoI) Medical School (UoIMS), Greece] **(2001-19): 7**

- 2001 - 2002:** 1. Despina Spanou. (2002). *Comparison of the anti-apoptotic activity of Clusterin/Apolipoprotein J with Bcl-2 in response to C₂-ceramide in human keratinocytes (HaCaT)*. Degree in Biochemistry, UoIMS.
- 2002 - 2003:** 2. Violeta Tsavdara. (2003). *The role of Bcl-2 on 2-methoxyestradiol-induced effects on cell proliferation and apoptosis of human Jurkat T-cell leukaemic cells*. Degree in Biochemistry, UoIMS.
- 2004 - 2005:** 3. Christina Sissoula. (2005). *The role of Bcl-2 on the responses of human leukaemic cells to natural antioxidant and anti-inflammatory compounds*. Degree in Applied Biology & Biotechnology, Department of Applied Biology & Biotechnology, UoI.
- 2005 - 2006:** 4. Maria Troumouliari. (2006). *The role of fos oncogenes on the responses of human keratinocytes (HaCaT) to ropivacaine*. Degree in Biochemistry, UoIMS.
- 2013 - 2014:** 5. Eleni Bakavou. (2014). *The role of IKK α on the differentiation of mouse embryonic stem cells (E14)*. Degree in Applied Biology and Biotechnology, Department of Applied Biology and Biotechnology (ABB), UoI.
- 2014 - 2015:** 6. Eleni Kaliatsi. (2015). *Role of IKK α and IKK β on the responses of human lung cancer cells to anticancer drugs*. Degree in Applied Biology & Biotechnology, Department of Applied Biology and Biotechnology (ABB), UoI

MSci Degree Projects [University of Ioannina (Uoi) Medical School (UoIMS), Greece](2018-): 2	
2018 - 2019:	7. Georgia Alabasi. (2019). <i>Role of DNA damage-induced IKKβ-regulated miR-342 in human NSCLC</i> . MSci in Applied Biology & Biotechnology, ABB Dept., Uoi.
2020 - 2021:	8. Evridiki-Christina Paniopoulou. (2020). <i>The role of cancer-related cell surface cluster of differentiation (CD) molecules-tetraspanins on cancer cell growth</i> . MSci Applied Biology & Biotechnology, Applied Biology and Biotechnology Dept., Uoi
M.Sc. in Biotechnology theses supervision, Uoi Medical School (UoIMS),Greece (2010-2020): 4	
2009 - 2010:	1. Maria Doukeridou. (2010). <i>The role of Ha-RasV12 in epithelial-to-mesenchymal cell transition</i> .
2011 - 2012:	2. Aikaterini Touloupi. (2012). <i>Role of p53 on the DNA damage responses of human cells</i>
2013 - 2014:	3. Eugenia Roupakia (2014) <i>Role of IKK-mediated NF-κB signalling on the regulation of E2F target genes in human lung cancer cells in response to DNA damage</i>
2016 - 2017:	4. Alexia Tasioula. (2017). <i>The role of NF-κB signalling pathways on the responses of human lung cancer cells to chemotherapeutic drugs</i> .
M.Sc. Theses Co-supervision (2018-2019): 1	
2018 - 2019:	5. Ioannis Mantziouridis. (2019). <i>Role of miR-32 on the survival of human lung cancer cells exposed to ultraviolet radiation</i> . MSc in Translational Research in Biomedicine, Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece; Co-supervisor
M.Sc. in Molecular Cell Biology & Biotechnology theses supervision, Uoi Medical School: 2	
2021 - 2022	6. Alexandros Sarras (2021). <i>Role of CD81/TSPAN28 on lung cancer</i> .
2021 - 2022	7. Simoni Besta (2021). <i>Impact of miR-9 on NSCLC development</i> .
Member of MSc in Biotechnology theses examination committees, UoIMS, Greece (5 Staff member examination committees) (2013 - 2018): 5	
2013 - 2014:	1. Vasiliki-Elpida Karamani. (2014). <i>Searching for inhibitors against mutant phosphoinositide-3-kinase using in vitro cell-based assay system</i> . Prof. S. Christoforidis (supervisor), Laboratory of Biological Chemistry, UoIMS
2014 - 2015:	2. Ioanna Tsikari. (2015). <i>Studying the effects of microcystin-LR on the embryonic development of the model organism zebrafish</i> . Prof. T. Papamarcacki (supervisor), Laboratory of Biological Chemistry, UoIMS
2014 - 2015:	3. Aikaterini Tsatsaki. (2015). <i>Analysis of evolutionary conserved purine transporters with NCS2 motifs</i> . Prof. E. Frilingos (supervisor), Biological Chemistry Lab., UoIMS
2016 - 2017:	4. Maria Hetikoglou. (2017). <i>Generation of PI3 kinase mutants to identify specific pharmacological inhibitors</i> . Prof. S. Christoforidis (supervisor), Biological Chemistry, UoIMS
2017 - 2018:	5. Nikos Dimou. (2018). <i>Effects of sulpiride on the metabolic profile of human lung cancer cells</i> . Prof. M. Konstanti (supervisor), Pharmacology Lab, UoIMS
Member of MSc in Molecular Cell Biology & Biotechnology theses examination committees, UoIMS, Greece (5 Staff member examination committees) (2018 -): 1	
2019 - 2020:	6. Eleni Anagnostopoulou (2020). <i>Evolutionary analysis of the transmembrane symporters of members of the NAT/NCS2 family of purine transporters: Investigation of the role of Ser/Gly-377 in the specificity of the xanthine permease cluster transporters</i> . Prof. E. Frilingos (supervisor), Laboratory of Biological Chemistry, UoIMS

Ph.D. Degree Theses

2002 - 2019: As Main Supervisor, UoIMS, Greece: 8

- 2002 - 2005:** 1. Ioannis Skoufos. (2005). *The role of anti-apoptotic genes on the effects of DNA damaging agents on mammalian cells*. PhD in Cell and Molecular Physiology, Laboratory of Physiology, UoIMS
- 2002 - 2006:** 2. Soultana Markopoulou. (2006). *The role of oncogenic stress on human fibroblast senescence, apoptosis and neoplastic transformation*. PhD in Cell and Molecular Physiology, Laboratory of Physiology, UoIMS
- 2004 - 2008:** 3. Christina Batsi. (2008). *The role of NF- κ B signalling on human lung fibroblast survival in response to oncogenic and oxidative stress*. PhD in Cell and Molecular Physiology, Laboratory of Physiology, UoIMS
- 2006 - 2009:** 4. Alexandros Sfikas. (2009). *The role of NF- κ B signalling on human lung epithelial tumour cell survival in response to DNA damage*. PhD in Cell and Molecular Physiology, Laboratory of Physiology, UoIMS.
- 2006 - 2009:** 5. Evangelia Tselikou. (2009). *The role of Pim-2 kinase, an NF- κ B-target gene, on cell survival in response to oxidative stress*. PhD in Cell and Molecular Physiology, Laboratory of Physiology, UoIMS
- 2016 - 2019:** 6. Nektaria-Maria Leli. (2019). *Studying the Integrated stress response in tumor progression and drug resistance (Identifying Novel Mediators of the Unfolded Protein Response Pathway Utilizing a Functional Genome Wide CRISPR/Cas9 Screen)*. PhD in Molecular Cell Biology, Biology Lab, UoIMS (Defended May 2019) [with Prof. C. Koumenis, Perelman School of Medicine, UPenn, USA]
Present: Postdoc Fellow, Radiation Oncology Dept., Smilow Center for Translational Research Perelman School of Medicine & Abramson Cancer Center, UPenn
- 2015 - 2020:** 7. Eugenia Roupakia. (2020). *Impact of NF- κ B signalling pathways on lung carcinogenesis and on the control of NF- κ B-target genes*. PhD in Molecular Cell Biology, Laboratory of Biology, UoIMS.
Present: Biology Lab, UoIMS/Biomedical Research Division, IMBB-FORTH, Ioannina
- 2021 -** 8. Simoni Besta. (2021-). *Defining the mechanism of action of CHUK/IKK α kinase and additional lung-specific protein kinases in lung cancer*. PhD in Molecular Cell Biology, Laboratory of Biology, UoIMS.

2005 - 2019: Member of supervising PhD Theses committees (co-supervisor), UoIMS: 10

- 2001 - 2005:** 1. Evangelos Kontargiris. (2005). *The effects of anaesthetics on the expression of metal-binding enzymes*. PhD in Physiology, Laboratory of Physiology, UoIMS
- 2001 - 2005:** 2. Eleni Leneti-Manou. (2005). *Investigation of the effects of phyto-oestrogens on cancer cells*. PhD in Physiology, Laboratory of Physiology, UoIMS
- 2005 - 2008:** 3. Alexandros Gouveris. (2008). *Investigation of the role of the mitochondrial thioredoxin system on cell physiology*. PhD in Biological Chemistry, UoIMS; conducted at the Laboratory of Biochemistry, BRFAA, Greece
- 2004 - 2009:** 4. Vasiliki Skiada. (2009). *Studies on the molecular mechanisms of apoptotic cell death in response to hydrogen peroxide and TNF α* . PhD in Biological Chemistry, Laboratory of Biological Chemistry, UoIMS
- 2008 - 2011:** 5. Eleni Hatzoura. (2011). *The role of the thioredoxin family on the regulation of cell functions*. PhD Biological Chemistry, UoIMS; conducted at BRFAA, Greece
- 2009 - 2016:** 6. Stefania Mantziou. (2016). *Characterising the molecular mechanisms of retrotransposition*. PhD in Biology, Laboratory of Biology, UoIMS
- 2014 - 2018:** 7. Maria Tokamani. (2018). *MiRNA involved in signalling pathways operating in lung cancer*. PhD in Molecular Biology and Genetics (MBG); conducted in part at MBG

Dept., Democritus University of Thrace (DUTH), Alexandroupolis, Thrace,
Present: Postdoctoral Fellow, Molecular Biology and Genetics Dept., DUTH, Greece

- 2018 - :** 8. Konstantina Niaka. (2018-). *Studying the role of cytostatic factor Emi2 on the regulation of cell cycle of mammalian oocytes and pre-implantation embryos*. PhD in Cell & Developmental Biology, Applied Biology & Biotechnology Dept., UoI
- 2019 - :** 9. Panagiotis Ntellas. (2019-). *Studying the role of cancer-related cell surface cluster of differentiation (CD) molecules on cancer cell growth: Role of canonical NF- κ B signalling on CD regulation*. PhD in Medical Oncology, UoIMS
- 2021 -** 10. Andreas-Epameinontas Koubis (2021-). *Role of miRNAs in non-Hodgkin lymphomas: Correlation with prognosis and therapy*. PhD in Haematology, UoIMS

2003 - 2020: Member of PhD theses examination committees, UoIMS, Greece: 22
(7 Staff member examination committees - internal and external)

- 2003 - 2005:** 1. Vasiliki Papalimnaiou. (2003). *Cell adhesion molecules in benign stomach lesions*. PhD in Physiology, Laboratory of Physiology, UoIMS.
2. Mikel Nakuci. (2003). *Investigation of the skin's alkali neutralising ability in health and skin diseases*. PhD in Dermatology, Dermatology Clinic, UoIMS.
3. Paschalis-Adam Doulias. (2004). *Investigating the role of iron-binding factors on the molecular mechanisms of DNA damage and apoptosis of cells exposed to H₂O₂*. PhD in Biological Chemistry, Laboratory of Biological Chemistry, UoIMS.
- 2005 - 2010:** 4. Athanasia Salma. (2008). *Involvement of the Hsp70 chaperone protein on the mechanism of SV40 LTA_g-induced cell transformation*. PhD in Biology, UoIMS.
5. George Boukakis. (2009). *The biological role of proteins that bind hnRNA and mRNA and their regulation in human lung cancer*. PhD in Biological Chemistry; UoIMS; conducted at the Institute of Biological Sciences and Biotechnology (IBSB), National Hellenic Research Foundation (NHRF), Athens, Greece.
6. Christina Papadopoulou. (2009). *Investigation of the role of proteins that bind hnRNA and mRNA in experimental lung carcinogenesis*. PhD in Biological Chemistry, UoIMS; conducted at IBSB, NHRF, Athens, Greece.
7. Georgia Oikonomou. (2010). *Proteomic analysis of colon cancer cells*. PhD in Biological Chemistry, UoIMS; conducted at the Institute of Molecular Oncology, Biomedical Sciences Research Centre 'Alexander Fleming', Athens, Greece.
- 2011 - 2015:** 8. Eftyxia Dimitriadou. (2011). *Detection of chromosomal abnormalities and epigenetic changes during retrotransposition*. PhD in Biology, UoIMS.
9. Apostolos Mikroulis. (2013). *Cholinergic activities in rat hippocampus following interictal-like epileptiform activity induction*. PhD in Physiology, Physiology Lab, Department of Applied Biology and Biotechnology, ABB Dept., UoI.
10. Alexandra Primikiri. (2013). *Investigating the bioactivity of natural products as anti-neoplastic & anti-angiogenic agents*. PhD Chemistry, Chemistry Dept., UoI.
11. Athanasios Karapetsas. (2014). *Molecular Biomarkers in ovarian cancer*. PhD in Molecular Biology and Genetics (MBG), MBG Dept., DUTH, Greece.
Present: Postdoctoral Fellow, MRC Protein Phosphorylation and Ubiquitylation Unit, College of Life Sciences, University of Dundee, UK
12. Violetta Maltabe. (2015). *In vitro differentiation of mouse embryonic stem cells to endothelial cells*. PhD in Biology, Laboratory of Biology, UoIMS.
Present: Postdoctoral Fellow, Biomedical Research Division, IMBB-FORTH, Greece
13. Sotiroula Thrasyvoulou. (2015). *Correlation of VL30 retrotransposition with epithelial-to-mesenchymal cell transition in progenitor mouse epithelial breast cells*. PhD in Biology, Laboratory of Biology, UoIMS.

- 2016 - 2020:**
14. Fotini Gartziou. (2016). *Mechanisms of retrotransposition regulation in glial cells*. PhD in Biology, Laboratory of Biology, UoIMS.
 15. Diana-Maria Potsi. (2016). *The role of nuclear lamina in asymmetric cell division in mouse embryonic stem cells*. PhD in Biology, Laboratory of Biology, UoIMS.
 16. Odysseas Patounas. (2017). *Investigations on protein arginine methyltransferases in differentiation and cancer*. PhD Applied Biology and Biotechnology, ABB Dept, UoI
 17. Eleftheria Karanika. (2018). *Epigenetic regulator and asymmetric cell division of mouse embryonic stem cells*. PhD in Biology, Laboratory of Biology, UoIMS.
 18. Eleftheria-Maria Chatzantonaki. (2018). *Stochastic aspects of chromatin and nuclear envelope dynamics in mouse embryonic stem cells*. PhD in Biology, Laboratory of Biology, UoIMS
 19. Andromaxi Labrianidou. (2018). *Investigation of the translational control of c-myc mRNA by RNA binding proteins*. PhD Applied Biology & Biotechnology, UoI
 20. Anastasia Kougioumtzi. (2018) *Identification and functional analysis of angiogenesis regulators in PIK3CA mutant colon cancer cells*. PhD in Biological Chemistry, Laboratory of Biological Chemistry, UoIMS
 21. Ekaterini Galanopoulou (2020). *Investigating the impact of the inactivation between Rab5 and ACAT2 in endocytosis*. PhD in Biological Chemistry, Laboratory of Biological Chemistry, UoIMS
 22. Theofani Kiosse (2020) *The role of mitotic kinases in asymmetric cell division: Functional role of the mitotic kinase Haspin in mouse embryonic stem cells and male gametes*. PhD in Biology, Laboratory of Biology, UoIMS.
 23. Maria Chatziathanasiadou, MSc (2021) *Biological evaluation of the anti-cancer activity of bioactive compounds of natural products, their analogues and formulations*. PhD in Organic Chemistry & Biochemistry, Section of Organic Chemistry & Biochemistry, Department of Chemistry, UoI

Supervision of Postdoctoral Fellows, UoIMS & Biomedical Research Division, IMBB-FORTH	
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|---------------------|--|
| 2013 - 2015: | 1. Dr. rer. Carmen Eckerich, PhD: ' <i>Defining novel mechanisms whereby IKKα and IKKβ impact on lung cancer development and progression in vivo</i> '
Present: Biomedical Research Division, IMBB-FORTH, Ioannina, Greece |
| 2013-2018: | 2. Dr. Evangelia Chavdoula, BSc, PhD: ' <i>Defining novel mechanisms whereby IKKα and IKKβ impact on lung cancer development and progression in vivo</i> '
Present: Department of Cancer Biology and Genetics, Comprehensive Cancer Center and College of Medicine, Ohio State University, USA |
| 2013 - 2019: | 3. Dr. Georgios Markopoulos, BSc, PhD: ' <i>Defining canonical NF-κB regulated target genes involved in lung cancer to develop novel biomarkers and potential therapies</i> '
Present: Institute of Neurosurgery, University of Ioannina Medical School, Greece |
| 2021 - 2023: | 4. Dr. Eugenia Roupakia, BSc, MSc, PhD: ' <i>Identification of novel oncogenic protein kinases involved in lung cancer for the development of anticancer therapies</i> '
Present: Laboratory of Biology, University of Ioannina Medical School, and Biomedical Research Division, IMBB-FORTH, Ioannina, Greece |

Summary of Supervision Experience

- *Higher Diploma Literature/Experimental Projects*: 4
- *BSc Projects*: 6
- *MSci Projects*: 2
- *MSc theses*: 7
 - MSc examination committees: 6
- *PhD theses*, as: (a) *Supervisor*: 8 (b) *Member of supervising committee*: 9
 - PhD examination committees: 23
- Postdoctoral Supervision: 4
- I act as an internal and external undergraduate and postgraduate theses examiner

COLLABORATIVE TEACHING AND RESEARCH AGREEMENT

05/2007 - 04/2014: Agreement of Cooperation to promote co-operation in the fields of teaching and research between the Department of Biological Sciences, University of Cyprus and the Laboratory of Physiology, University of Ioannina Medical School, Greece.

ACADEMIC AND RELATED COMMITTEES

- 1999 - 2002:** Member of Selection Committees of new and existing staff members for the TEI of Epirus and other similar Institutes, Greece.
- 2002 - Pres:** Member of the General assembly of the Section of Clinical and Basic Functional Sciences, School of Medicine, University of Ioannina (UoI), Greece.
- 2003 - 2007:** Member of the Scientific Committee of the Biochemistry Programme, UoI, Greece.
- 25/09/2005:** Member of the Physiology examining committee for entry to Pharmacy, Central examinations committee of Greek Universities, KEEME, AUTH, Thessaloniki).
- 2013 - 2014:** Member, Health Committee of District of Epirus appointed by the Ministry of Health.
- 2014 - Pres:** Member of the Scientific Committees for the MSc in Biotechnology and the MSc in Basic Biomedical Sciences, University of Ioannina School of Medicine, Greece.
- 2019 - Pres** Member of the UoI Medical School examining committee for entry to MBBS

DEPARTMENTAL AND RELATED ACADEMIC WORK

1. Management of course modules:
- (a) Lead of the course module: '*Genetic Engineering and Gene Therapy*' in the MSc in Basic Biomedical Sciences.
 - (b) Lead of the course module: '*Molecular Oncology: Cell growth, differentiation and cancer*' in the MSc in Molecular Cell Biology and Biotechnology.
2. Invitation of speakers / seminars:
- 1) Dr. Christos Polytarchou, Assistant Professor of Medicine, Center for Systems Biomedicine, Division of Digestive Diseases, UCLA School of Medicine, LA, USA.
Title of lecture: '*Acting on an RNA stage*'; Wednesday 18/03/2015
 - 2) Dr. Apostolos Klinakis, Principal Investigator, Biomedical Research Foundation, Academy of Athens (BRFAA), Athens, Greece
Title of lecture: '*Notch signalling in bladder homeostasis*'; Monday 30/03/2015, Time: 14:00
 - 3) Dr. Dimitrios Liakopoulos, Group leader, Montpellier Cell Biology Research Center, CNRS, Montpellier, France
Title of lecture: '*Mitotic spindle organisation through polyvalent protein interactions*'.
Tuesday 16/4/2019
 - 4) Dr. Maria Hatzia Apostolou, Group leader in Epigenetics, Biosciences, Nottingham Trent University

Title of lecture: '*Current methods/technologies for the study of miRNAs and their regulatory role in cancer inflammation*', Wednesday 16/12/2020

5) Professor Georgios Giamas, Professor of Cell Signalling (Biochemistry), Head of the Department of Biochemistry & Biomedicine, School of Life Sciences. University of Sussex

Title of lecture: '*Tumour microenvironment and extracellular vesicles in cancer*'

Wednesday 13/01/2021

6) Dr. Emmanouil Karteris, Senior Lecturer in Biomedical Sciences, Biosciences, Brunel University London

Title of lecture: '*Emerging use of liquid biopsies as non-invasive biomarkers: Current landscape and future perspectives*', Wednesday 20/01/2021

4. Organisation of Conferences/Workshops:

1) Member of the organising and scientific committee of the XVIIth FECTS (Federation of the European Connective Tissue Societies) Meeting, Patras, Greece, July 2000.

2) Member of the organising and scientific committee of the '3rd European NF- κ B subunit workshop', Corfu island, Greece, 3-5/10/2016 (<http://nf-kappab.eu/>; <http://nf-kappab.eu/committee/>)

3) Member of the organising & scientific committee of the 67th Conference of the Hellenic Society of Biochemistry & Molecular Biology, Ioannina, Greece, 25-27/11/2016 (www.eebmb2016.gr).

HONOURS AND AWARDS

1985 - 1986: *Schilizzi Foundation*, London, UK - **Partial studentship** during undergraduate studies at King's College, University of London, UK.

1988 - 1989: *Schilizzi Foundation*, London, UK - **Partial studentship** during postgraduate studies at MRC NIMR/King's College, University of London, UK.

1990 - 1994: *Arthritis and Rheumatism Research Council UK, Postdoctoral Research Fellowship*, Department of Biochemistry, Charing Cross and Westminster Medical School, University of London, UK.

1996 - 1997: *Wellcome Trust Travel Grant*, Wellcome Trust Centre for Cell-Matrix Research/Biochemistry, School of Biological Sciences, Manchester University, UK

2000 - 2001: *European Society for Regional Anaesthesia, 1st Research Proposal Award.*

24/09/2002: **1st Presentation Award International Conference on 'ALGOS 2002'** of the Worldwide Institute of Pain (WIP) September 21-24, 2002, Santorini, Greece.

16/04/2004: **State Certificate in English Language, Highest Level C2 (Excellent)**, Hellenic Ministry of Education, Greece (Certificate No: 292/KB/16-04-2004).

PROFESSIONAL MEMBERSHIP (Full member; no expiration time)

- Hellenic Society of Biochemistry and Molecular Biology (HSBMB) (Full member, 1996)
- Hellenic Society of Biological Sciences (HSBS) (Full member, 2006)
- Hellenic Association for Molecular Cancer Research (Full member, 2009)
- International Cell Senescence Association (ICSA; previous European SCA) (Member, 03/2014)
- Cancer Epigenetics Society (Associate Member; Membership ID number: 957) (22/08/2017)

Previous (1986-1994):

- Biochemical Society, UK
- Institute of Biology, UK
- British Society of Cell Biology (BSCB)
- British Society of Matrix Biology (BSMB)
- *Alumni Association:* University of Sunderland; King's College London; MRC NIMR London, UK

Digital networks and discussion Forum

- Models of Human Diseases Consortium

- Metabolism and Cancer
- Hypoxia in Cancer
- Cancer Molecular Therapeutics Research Association (CMTRA)
- Drug Targets and Biomarkers
- Epic Epigenetics Forum
- Epigenetics
- Epigenie (Epigenetics, Stem Cells and Synthetic Biology news; <https://epigenie.com/>)
- Gene and Cell Therapy network

EDITORIAL WORK

• Journal Reviewer (64 papers):

- **A:** *Acta Biochim Biophys Sin* (Feb'10); *AGE* (Jan'09); *Arch Biochem Biophys* (June'07)
- **B:** *Biochem J* (Feb'07, July'07, Feb'13); *Biochem Pharmacol* (Apr'09, Sep'09, Jan'10, June'10, Nov'10, Oct'11, Apr'12, Apr'16); *Biol Cell* (July'11); *BMC Cancer* (June'20); *Biosci Rep* (Mar'17, Aug'17, Nov'17); *Biomedicines* (Mar'18)
- **C:** *Cell Death Dis* (Oct'12); *Curr Med Chem* (June'10; June'17); *Cell Cycle* (Mar'18); *Cancers* (Mar'19; June'19; June'20); *Cells* (May'19, Nov'19); *Commun Biol* (Nature NPG) (Oct'19)
- **E:** *Exp Gerontol* (July'19; July'20)
- **F:** *FEBS J* (May'13)
- **H:** *Histol Histopathol* (May'05); *Hormones* (Dec'07)
- **I:** *ISRN Cell Biol* (Oct'12); *Int J Med Sci* (Nov'18); *Int J Mol Med* (Jan'21)
- **J:** *J Ageing Res* (Nov'10); *J Cell Mol Med* (Sep'10); *J Gerontol (Biol Sci)* (Jan'08); *J Cell Physiol* (Mar'18; May'19); *J Hepatol* (Nov'19); *J Clin Med* (Aug'20)
- **M:** *Mech Ageing Dev* (Oct'07, Dec'08, Mar'09, Sep'09, May'10, Oct'11, Nov'13, June'19)
- **N:** *Neurochem Int* (June'10)
- **O:** *Oncotarget* (Oct'17; June'18); *Oncogene* (Oct'20); *Oncogene* (Nov'20)
- **P:** *PLoS One* (Feb'12, July'13; Dec'13, July'14; Aug'17)
- **S:** *Stem Cells Transl Med* (Sep'19)

- **Book review:** Review of the outline of the book on '*MicroRNA in human cancer*', by Massimo Negrini, George A. Calin, Carlo M. Croce; Elsevier / Academic Press

- **Journal Editorial Member:** *ISRN Cell Biology* (open access, peer-reviewed journal) (2012 - 14)

- **Guest co-editor**, special issue for *Cells* (Impact Factor: 4.366 increasing to 5.656) on: '*The DNA Damage Response in Cell Physiology and Disease*' (2020-21) (https://www.mdpi.com/journal/cells/special_issues/Damage_Response)

- **Asc. Prof. Evangelos Kolettas**, BSc, PhD, University of Ioannina Medical School, Greece,
- **Prof Vassilis Gorgoulis**, MD, PhD, EMBO Member, University of Athens Medical Sch, Greece

- **Guest co-editor** for a joint special issue of *Cancers - Cells* (MDPI)(2020-21) on '*NF-κB signalling in cellular responses to threats, cancer development and therapy*' **CANCERS** (Impact Factor: 6.162):

https://www.mdpi.com/journal/cancers/special_issues/nuclear_factor_kappaB;

https://www.mdpi.com/journal/cells/special_issues/NF-Kappa_B)

Guest Co-editors:

- **Asc. Prof. Evangelos Kolettas**, BSc, PhD, University of Ioannina Medical School, Greece
- **Professor Kenneth B. Marcu**, PhD, Stony Brook University, New York, and
- **Professor Johannes A. Schmid**, PhD, Medial University of Vienne, Austria

GRANT REVIEWS (Total: 30)

National (18) (2010-2019)

Programme 'HERAKLEITOS', Hellenic Ministry of Education/EU, Greece; 'KARATHEODORI' Programme Grants, University of Patras, Greece; Research Support for New Scientists-EDBM34-A & B cycle_ESPA2014-20; Research Support for Postdoctoral fellows, Hellenic Foundation for State Fellowships

International (12) (2010-2020): Biotechnology & Biological Sciences Research Council (BBSRC),UK; MRC SIR Grant, Medical Research Council of South Africa, Cape Town, SA; Czech Science Foundation, Department of Medical & Biological Sciences, Prague, Czech Republic; Association of International Cancer Research (AICR), UK

RESEARCH GRANTS (Total: 24)

1997 - 2003: 3 grants, budget of ~21.000 €; Funded by the Research Committee, TEI of Epirus

2003 - 2004: 5 grants with a total budget of ~30.000 €, funded by the Research Committees of the TEI of Epirus and the University of Ioannina, the European Society for Regional Anaesthesia (ESRA), and the Empeirikion Foundation, Greece

2004 - 2009: 6 grants with a total budget of 340.400 € (Kolettas lab: 190.000 €)

- 1 '*Regulation of the anti-proliferative responses of normal human fibroblasts by the transcription factors E2F1 and NF-κB.*
Research Grant (2003-5); PI: **E. Kolettas**, Funding: Empeirikion Foundation; Budget: 8.000 €
- 2 '*Oncogenic stress on human cells: The effects of oncogenic stress on cell proliferation, senescence, apoptosis and neoplastic transformation.*
Programme HERAKLEITOS (2004-2006); PI: **E. Kolettas**, UoI
Funding: Hellenic Ministry of Education/EU; Budget: 33.369 €
- 3 '*Mechanism of action of 2-methoxyestradiol on human T leukaemic cells: The role of the anti-apoptotic gene Bcl-2 and of the transcription factor NF-κB.*
Programme: Bilateral Scientific Agreement between Greece-Cyprus (2004-2006)
PI (Greece): **E. Kolettas**, UoI School of Medicine, Greece
PI (Cyprus): Prof. A. Constantinou, Biological Sciences Dept., University of Cyprus
Funding: General Secretariat of Research and Technology (GSRT), Hellenic Ministry of Development; Budget: 11.400 € (each)
- 4 '*Studies on the antioxidant properties and mechanism of action of components of *Oregano vulgare* L. spp. *Hirtum* in vitro and in vivo.*
Programme ARCHIMIDES II (2005-7), PI: G. Manos, TEI of Epirus; Co-PI: **E. Kolettas**, UoI
Funding: Hellenic Ministry of Education/EU; Budget: 55.531 €
- 5 '*Mechanisms of action of the transcription factors E2F1 and NF-κB related to cellular senescence and apoptosis of human diploid fibroblasts.*
Programme PYTHAGORAS II (2005-2007); PI: **E. Kolettas**, UoI
Funding: Hellenic Ministry of Education/EU; Budget: 50.000 €
- 6 '*Molecular mechanisms involved in H₂O₂ and TNFα-induced apoptosis of tumour cells*
Programme PENED 2003 (2006-2009); PI: D. Galaris, UoI Medical School, Greece
Co-PIs: **E. Kolettas** and P. Kanavaros, UoI Medical School, Greece
Funding: GSRT, Hellenic Ministry of Development; Budget: 180.000 €

2012 - 2016: 5 grants with a total budget of 1.125.000 (Kolettas lab: 261.600 €)

- 7 '*Defining novel mechanisms whereby IKK dependent-NF- κ B activation impacts on the control of E2F-target genes in normal and cancer cells*'
Secondary Title: 'Defining novel mechanisms whereby IKK-dependent NF- κ B activation impacts on the control of E2F-target genes during lung cancer development and progression'
Programme THALIS (CancerTFs)_ESPA; Coordinator: **E. Kolettas**, Uol
<http://excellence.minedu.gov.gr/thales/en/thalesprojects/379435>
Total Budget: 600.000 €; Duration: 39 months (09/2012-12/2015)
- 8 '*Senescence and Longevity - Interaction of Genetic and Environmental factors: The role of genetic and environmental factors in aging and longevity*'; **WP: NRF2 in HDF senescence**
Programme THALIS (GenAge)_ESPA; Coordinator: G. Garinis, IMBB-FORTH, Crete
Funding: HMDev/EU, Greece; Duration: 39 months (09/2012-12/2015)
<http://excellence.minedu.gov.gr/thales/en/thalesprojects/380228>
Total Budget: 600.000 €; Kolettas lab: 21.600 € to fund a postdoc researcher for 18 months
- 9 '*Investigation of the role of IKK-mediated NF- κ B signalling on the regulation of E2F-target cell cycle effectors during K-Ras-induced senescence of human fibroblasts*'
Funding: 'State (IKY) Fellowships of Excellence for Postdoctoral Research in Greece - SIEMENS' Programme', State Scholarships Foundation (01/01/2014-31/12/2015)
<https://www.iky.gr/el/upotrofies-aristias-siemens/item/1227-apotelesmata-postdoctoralikysiemens>
PI: **E. Kolettas**, IMBB-FORTH; Postdoctoral fellow: G. Markopoulos; Budget: 39.000 €
- 10 Research Programme for the Development of Research Institutes
IMBB-FORTH Institutional Programme Grant: KRIPIS-1 - '*Biology, Biophotonics and Health: Modern technological approaches & applications in the field of Biology, Photonics & Health*', Programme: Programmatic Agreements between Research Centres-GSRT 2015-2017, in the framework of the Hellenic Republic-Siemens agreement (01/04/2015 - 31/05/2017)
Workpackage 3.1: Biomedical Research - 'Biological - Experimental Models & Systems Biology organisations'; Research title: '*The role of IKK/NF- κ B signalling pathways on DNA damage and cancer*'; PI: **E. Kolettas**, IMBB-FORTH; Postdoctoral fellow: G. Markopoulos
PhD student funded: Eugenia Roupakia, Funding: GSRT, Hellenic Ministry of Education, Greece; Budget as Participant: 8.000 €
- 11 '*Impact of IKK α and IKK β signalling on the control of E2F-target genes during K-Ras oncogene-mediated senescence of human fibroblasts*'
Research Grants in Biomedical Sciences (13/02/2014 - 11/02/2016)
Funding: FONDATION SANTÉ; <http://www.fondationsante.org/index.php?id=researchgrants>
PI: **E. Kolettas**, IMBB-FORTH; Budget: 40.000 €

2017 - 2019: 3 grants with a total budget of 617.000 € (Kolettas lab:75.350 €)

- 12 '*Impact of canonical NF- κ B signalling, IKK β -NF κ B p65, on lung carcinogenesis*'
IMBB-FORTH Institutional Programme Grant for the Development of Research Institutes: KRIPIS2: '*BIOMEDTECH-Molecular Analysis of Biological Systems and Disease Models*'
Funding: General Secretariat of Research and Technology (GSRT), Greece
Duration: 12 months (15/9/2017-15/09/2018)
Total Budget: 580.000 € for 12 teams including overheads; **Kolettas lab** Budget: 38.350 €
- 13 '*Defining canonical NF- κ B regulated target genes involved in lung cancer to develop novel biomarkers and potential therapies*'
Programme: ARCHERS: Advancing Young Researchers' Human Capital in Cutting Edge Technologies in Systems Biology Approaches and Personal Genomics for Health and Disease Treatment (Ref # SNF0031); Postdoctoral Fellow: Dr. G. Markopoulos
Funding: S. NIARCHOS Foundation; PI: **E. Kolettas**; Budget: 28500€; 7/2017- 7/2018
- 14 '*Investigation of canonical NF- κ B regulated target genes involved in lung cancer to develop novel potential therapies*'
Programme: Stavros Niarchos Foundation - FORTH Fellowships for PhD candidates –

ARCHERS: Advancing Young Researchers' Human Capital in Cutting Edge Technologies in the Preservation of Cultural Heritage and the Tackling of Societal Challenges
Funding: STAVROS NIARCHOS FOUNDATION (SNF)
PI: **E. Kolettas**, IMBB-FORTH; PhD Candidate: Eugenia Roupakia
Budget: 8.400 €; Duration: 12 months (01/2019 - 12/2019)

2020 - 2023: 2 grants with a total budget of 3.010.000 € (Kolettas lab:110.000 €)

15 '*Investigation of the mechanism of action of the canonical NF- κ B signalling pathway in lung carcinogenesis*'

Programme: Internal IMBB Bridging/Supporting Research Grant

PI: **E. Kolettas**

Funding body: IMBB-FORTH, Ioannina, Greece

Total budget: 10.000 €; Duration: 12 months (2020-21)

16 '*Identification of novel oncogenic protein kinases involved in lung cancer for the development of anticancer therapies*' (Work package WP1-4)

Employing a functional kinase-specific CRISPR/Cas9 screen to ablate 482 protein kinase (PK) genes to identify novel PKs involved in NSCLC growth and responses.

Programme: *Research Excellence* BIOMED-20 (Cancer, Developmental Biology a Physiology)

Coordinator: S. Georgatos; University of Ioannina; PI (WP1-4): **E. Kolettas**

Funding body: Hellenic Ministry of Economy and Development

Total budget: 3.000.000 €; Budget (lab): 110.000 €; Duration: 2021-2023

PUBLICATIONS

I. Chapters in Books and Books

- 1. *Elements of Cell Biology (2007)*** (Editors: Griva E, Salamoura A & Tzima E), EFYRA Publishing Co. (in Greek).
 - *Cell Cycle* (Chapter 13, pp 283-287)
 - *Multicellular organisms and tissues* (Chapter 15, pp 315-321), and
 - *Extracellular Matrix of Connective Tissue* (Chapter 16, pp323-355).
- 2. *Human Physiology: From Cells to Systems* by Laurelee Sherwood, 8th International edition 2012, Brooks/Cole Cengage Learning;** Chapters 20, pp928.

Scientific Co-editing of the translation in Greek of the book; *Co-editors*: **E. Kolettas**, Laboratory of Biology, School of Medicine, and A. Psarropoulou, Department of Applied Biology & Biotechnology, University of Ioannina; and
Scientific editing/translation of Ch16: The Digestive System.
Publishers: Academic Press, Greece (2014).
- 3. *Molecular Biology of the Cell*, by B. Alberts, D. Bray, J. Watson & J. Lewis, 2014, Garland Science**

Co-edited the translation in Greek of Chapter 22: *Stem Cells & Tissue Renewal*, 2018.
Publishers: Utopia Publishing Co., Greece (2019)
- 4. *Molecular Cell Biology*, by Lodish H, Berk A, Kaiser CA, Krieger M, Bretscher A, Ploegh H, Amon A and Martin KC, 8th edition, 2016, WH Freeman & Co, 24 Chapters, pp1166.**

Scientific Co-editing of the translation in Greek of the book (Eds: **Kolettas E**, Marangos P & Georgatos SD), and Translation/editing of Chapter 5: *Fundamental Molecular Genetic Mechanisms* (Part II: Biomembranes, Genes & Gene Regulation), 2020; *Publishers*: Utopia Publishing Co., Greece (April 2020).
- 5. *Principles of Development*, by Wolpert L, Tickle C & Arias AM, 2019, 6th e; Oxford University Press. (P. Marangos, editor)**

Scientific translation in Greek of Chapter 1: *History and Basic Concepts of Development*.
Publishers: Broken Hill Publicers Ltd, Cyprus (May 2020).

II. Chapters in Book Series (2)

1. **Kolettas E**, Gonos ES and Spandidos DA. (1994). Retroviral genes - *Myc*. Chapter 26: Immortalisation Methods, Units 26.7.1, Part 26H, Module 26H:1. In ***Cell and Tissue Culture: Laboratory Procedures*** (Griffiths JB, Doyle A & Newell DG, Eds), John Wiley & Sons, Ltd.
2. Gonos ES. **Kolettas E** and Spandidos DA. (1994). Retroviral genes - *Ras*. Chapter 26: Immortalisation Methods, Units 26.7.2, Part 26H, Module 26H:2. In ***Cell and Tissue Culture: Laboratory Procedures*** (Griffiths JB, Doyle A & Newell DG, Eds), John Wiley & Sons, Ltd.

III. Conferences Oral Presentations & Posters: 40 at National, British & International conferences

1. **Kolettas E**. (1988). Isolation and characterisation of genes which can suppress permanent cell growth and neoplastic transformation in mammalian cells. *Poster 23*, EMBO/CRC/NIEHS (EMBO/Cancer Research Campaign/National Institute of Environmental Health Sciences) Workshop on 'Tumour Suppressor genes and Negative growth regulation', Nethybridge, Scotland, 17-21 April 1988.
2. **Kolettas E**, Mason RMM and Muir HI. (1993). Differential responses of growth factor- and oncogene-expressing human keratinocytes to transforming growth factor (TGF) β 1. *Poster 72*, CRC/Beatson Institute International Cancer Conference on 'The cellular, molecular and clinical aspects of squamous cell carcinomas', Glasgow, Scotland, July 1993.
3. **Kolettas E**, Yu RCH, Harper K, Mason RMM and Muir HI. (1993). Heparin inhibits the growth of human keratinocytes: The effects of oncogenes encoding protein tyrosine kinases (PTKs). *Oral Presentation 13*, Annual Meeting of the British Society for Investigative Dermatology, Nottingham, UK, 20-21 September 1993.
4. **Kolettas E** and Muir HI. (1993). Human articular chondrocyte expression of type II collagen is retained on long-term culture and is unaffected by SV40 large-T antigen expression. *Poster 19*, British Connective Tissue Society Workshop on 'Cartilage structure and Osteoarthritis', Lilly Research Centre, Earl Wood, Windlesham, Surrey, UK, 21 May 1993.
5. **Kolettas E** and Muir HI. (1993). Changes in extracellular matrix gene expression by SV40 transformation in human fibroblasts. *Oral Presentation*, West London Matrix Biology Group meeting on 'The Molecular basis of extracellular matrix in health & disease', Imperial College, London, 23 November 1993.
6. **Kolettas E**, Owen RD, Barrett JC and Muir HI. (1996). Regulation of phenotypic expression and cell survival by cytokines and cultured conditions in mammalian chondrocytes. *Hellenic Biochemical Society (HBS) Newsletter 41*:57-58.
7. **Kolettas E**, Santra M, Iozzo RV and Muir HI. (1996). Regulation of decorin gene expression by cytoplasmic oncogenes in human cells. *HBS Newsletter 41*:45-46.
8. **Kolettas E**, Kovatcev D and Bonanou-Tzedaki S. (1997). Expression of hsp70 in thalassaemic mononuclear cells. *Poster 9*, Molecular & Cellular Pharmacology group meeting of the Biochemical Society on 'Cellular responses to stress', Dundee University, UK, 29-31/7/1997
9. **Kolettas E**, Hardingham TE, Muir HI and Barrett JC. (2000). Inhibition of the chondrocyte phenotype and cell survival by IL-1 is mediated by the master chondrocyte-regulatory Sox9 gene and is relieved by IGF-1. *Poster E35*, XVIIth FECTS meeting, University of Patras, Greece, 1-5 July 2000.
10. **Kolettas E**, Barrett JC and Muir HI. (2000). Neither SV40 large-T antigen expression nor immortalisation by itself abrogates chondrocyte-specific gene expression. *Poster E36*, XVIIth FECTS Meeting, University of Patras, Greece, 1-5 July 2000.
11. **Kolettas E**, Evangelou A, Bonanou-Tzedaki S and Gonos ES. (2000). Thermal responses and cell survival of a spontaneously immortalised human keratinocyte cell line and oncogene-expressing lines derived from it: Role of heat shock proteins and clusterin/apoJ. *Poster 1423*, 18th International Congress of Biochemistry and Molecular Biology on 'Beyond the Genome: Understanding and exploiting molecules and cells in the 3rd millennium', International Convention Centre, Birmingham, England, 26-20 July 2000.
12. **Kolettas E**, Tenopoulou M, Galaris D, Gonos ES and Evangelou A. (2000). Vanadium inhibits HaCaT cell proliferation but it does not induce apoptosis. *Poster*, FESTEM Meeting, Venice, Italy, 16-21 May 2000.

13. Kontargiris E, **Kolettas E**, Vadalouca A, Koutsoukou V, Evangelou A and Kalfakakou V. (2002). Zn-Endopeptidase (NEP) related to ropivacaine effects on HaCaT cells. *Abstract* OP41, pp 112; 'ALGOS 2002', World Institute of Pain Int. Symposium, Santorini, Greece, 21-24/09/2002
14. Kontargiris E, Kalfakakou V, Vadalouca A, Evangelou A, Gonos ES and **Kolettas E**. (2002). Ropivacaine-induced apoptosis of HaCaT cells is blocked by ectopic expression of clusterin/Apolipoprotein J. *HSBMB Newsletter* 49:149-153 [Proceedings of the 54th Conference of the Hellenic Society of Biochemistry and Molecular Biology (HSBMB), Greece].
15. Tenopoulou M, **Kolettas E**, Frillingos S, Gonos ES and Galaris D. (2002). The role of clusterin (ApoJ) and Bcl-2 in DNA damage and apoptosis in cells exposed to H₂O₂. *HSBMB Newsletter* 49:341-345 (Proceedings of the 54th Conference of HSBMB, Greece).
16. Markopoulou S and **Kolettas E**. (2006). p53^{143ala} sensitised human diploid fibroblasts to C₂-ceramide-induced apoptosis: Role of Bcl-2. *Poster*, Hellenic Society of Biosciences, Athens, Greece, April 2006.
17. Markopoulou S, Batsi C, Thomas C, Kontargiris E, Evangelou A, Kanavaros P and **Kolettas E**. (2006). Overexpression of Bcl-2 protected Jurkat cells from 2-methoxyestradiol-induced apoptosis. *Poster*, 2nd InterCongress of the European Society of Pathology, Ioannina, Greece, 24-27/5/2006
18. Batsi C, Kanavaros P, Marcu KB and **Kolettas E**. (2006). Suppression of NF-κB activation pathway provokes premature senescence of human diploid fibroblasts. *HSBMB Newsletter* 53:37. (Proceedings of 58th HSBMB Conference), University of Patras, Greece, 9-11/11/2006.
19. Batsi C, Marcu KB and **Kolettas E**. (2007). The role of NF-κB in cellular senescence. *Poster*, 12th Congress of the International Association of Biomedical Gerontology on the 'Molecular Mechanisms and Models of Ageing', Spetses Island, 20-24 May 2007.
20. **Kolettas E**. (2007). 2-methoxyestradiol, a promising anti-tumour agent: From basic research to the clinic. *Oral Presentation*, International Conference on 'Molecular Targets for Cancer Prevention, Diagnosis and Treatment', University of Cyprus, Lemesos, Cyprus, 7-10/10/2007.
21. Kontargiris E, **Kolettas E**, Vadalouca A and Kalfakakou V. (2007). Role of Zn in ropivacaine and neutral endopeptidase: Toxic effects of human keratinocyte cells. *Poster, Cell Biology and Toxicology*, Abstract 8; P03:58. [Joint Conference on: 'Trace elements in diet, nutrition, and health: essentiality & toxicity'], Creta Maris Conference Center, Hersonissos, Crete, 21-26/10/2007.
22. Batsi Ch, Kontargiris E, Markopoulou S, Trougakos IP, Gonos ES and **Kolettas E**. (2008). Vanadium-induced apoptosis of HaCaT cells is mediated by c-fos and involves up-regulation of nuclear clusterin/apolipoprotein J. *Oral Presentation*, 5th Clusterin/Apolipoprotein J (CLU) Workshop, Spetses island, 2-5 June 2008.
23. Tselikou E, Sfikas A, Batsi C, Vartholomatos G, Galaris D, Kanavaros E and **Kolettas E**. (2008). Pim-2, a serine/threonine protein kinase, protects human fibroblasts from H₂O₂-induced apoptosis. *Poster*, 6th Conference of the Hellenic Society of Free Radicals and Oxidative Stress, Ioannina, Greece, 18-21/9/2008.
24. Kontargiris E, Vadalouca A, **Kolettas E** and Kalfakakou V. (2009). Ropivacaine downregulates neutral endopeptidase and induces zinc-inhibited apoptosis on HaCaT cells. *Poster* 13, Int. Symposium of the Worldwide Institute of Pain 'ALGOS 2009', Mykonos, Greece, 18-21/6/2009
25. Primikyri A, Karali E, Chi S-W, **Kolettas E**, Briasoulis E, Fotsis T, Tzakos A and Gerotheranassis I. (2012). Charting polyphenol-Bcl-2 and Bcl-X_L interactions by the use of NMR, calorimetry, docking calculations and *in vitro* studies. *Poster*, 15th Hellenic Symposium of Medicinal Chemistry, Athens, Greece, 25-27 May 2012.
26. Roupakia E, Markopoulos G, Kakaniaris N, Marcu KB and **Kolettas E**. (2014). Regulation of Cdc6 expression by NF-κB in response to DNA damage. *Poster* P146 (Regulation of Gene Expression), Proceedings, 65th Conference of Hellenic Society of Biochemistry & Molecular Biology (HSBMB), Thessaloniki, Greece, 28-30 November 2014.
27. Maltabe V, Bakavou E, Markopoulos G, Roupakia E, Marcu KB, **Kolettas E** and Kouklis P. (2014). IKKα promotes stem cell differentiation to endothelial cells. *Poster* P58 (Stem Cells & Tissue Regeneration), 65th HSBMB Conference, Thessaloniki, Greece, 28-30 November 2014.
28. Roupakia E, Markopoulos G, Polytarchou C, Hatzia Apostolou M and **Kolettas E**. (2015). Replicative or oncogene-induced senescence leads to differential miRNA expression in human diploid fibroblasts. *Poster* P015, 66th HSBMB Conference, Athens, Greece, 11-13/12/2015

29. Chavdoula E, Stathopoulos GT, Marcu KB, Klinakis A and **Kolettas E**. (2015). Deletion of IKK β reduces urethane-induced lung cancer development in mice. *Poster P138*, 66th HSBMB Conference, Athens, Greece, 11-13 December 2015.
30. Markopoulos G, Roupakia E, Eckerich C, Vartholomatos G, Fackelmayer FO, Marcu KB and **Kolettas E**. (2015). Uncovering an ATM - NF- κ B positive feedback loop involved in DNA damage responses. *Poster P163*, 66th HSBMB Conference, Athens, Greece, 11-13/12/2015.
31. Gkartziou F, Noutsopoulos F, Vartholomatos G, Thrasyvoulou S, Mantziou S, **Kolettas E**, Markoula M, Georgiou I, Kyritsis A and Tzavaras T. (2015). Valproic acid induces HERV-K10 retrotransposition correlated with neural differentiation and growth arrest of human glioblastoma cells. *Poster P160*, 66th HSBMB Conference, Athens, Greece, 11-13 December 2015.
32. Mantziou S, Markopoulos G, Vartholomatos G, Gkartziou F, **Kolettas E** and Tzavaras T. (2015). Retrotransposition of a recombinant SVA retrotransposon is correlated with phenotypic changes at A549 cells. *Poster P169*, 66th HSBMB Conference, Athens, Greece, 11-13/12/2015.
33. Thrasyvoulou S, Vartholomatos G, Markopoulos G, Gkartziou F, Noutsopoulos D, Charchanti, A, **Kolettas E**, Constantinou AI and Tzavaras T. (2015). VL30 retrotransposition correlates with epithelial-mesenchymal transition and cancer stem cell generation in progenitor mouse epithelial breast cells. *Poster P202*, 66th HSBMB Conference, Athens, Greece, 11-13/12/2015.
34. Markopoulos G, Roupakia E, Tokamani M, Vartholomatos G, Hatzia Apostolou M, Sandaltzopoulos R, Polytarchou C, and **Kolettas E**. (2016). Deciphering the roles of microRNAs in the senescence response of human fibroblasts. *Poster (Ageing)*, 67th HSBMB Conference, Ioannina, Greece, 24-27 November 2016.
35. Chavdoula E, Roupakia E, Markopoulos G, Kokkalis A, Polyzos A, Fackelmayer FO, Thanos D, Klinakis A, Marcu KB and **Kolettas E**. (2016). Functional role of IKK α in non-small cell lung carcinogenesis. *Poster (Molecular and Cellular Basis of Human Disease)*, 67th HSBMB Conference, Ioannina, Greece, 24-27 November 2016.
36. Roupakia E, Chavdoula E, Markopoulos G, Fackelmayer FO, Klinakis A, Marcu KB and **Kolettas E**. (2016). Loss of IKK β reduces cell proliferation and impairs lung cancer development. *Poster (Molecular and Cellular Basis of Human Disease)*, 67th HSBMB Conference, Ioannina, Greece, 24-27 November 2016.
37. Tokamani M, Miaoulis L, Karapetsas A, Polytarchou C, **Kolettas E** and Sandaltzopoulos R. (2016). MiRNAs linking the NF- κ B signalling pathway with the RB/E2F regulatory circuitry. *Poster (Epigenetics and Regulation of Gene Expression)*, 67th HSBMB Conference, Ioannina, Greece, 24-27 November 2016.
38. Kafetzopoulou K, Miaoulis E, Tokamani M, Markopoulos G, Roupakia E, **Kolettas E** and Sandaltzopoulos R. (2017). The gene expression regulators TFG, NFYB and DNMT3 are targeted by miR-221/222. *Poster*, 68th HSBMB Conference, Athens, Greece, 10-12/11/2017.
39. Tokamani M, Korpidou M, Mourati S, Niavi C, Petkou K, Ziridou E, Sandaltzopoulou E, Ampartzidis I, Markopoulos G, Roupakia E, **Kolettas E** and Sandaltzopoulos R. (2017). MiR-342-3p targets *fosB* and *maf* in lung cancer linking canonical NF- κ B activity to the regulation of cell proliferation. *Poster*, 68th HSBMB Conference, Athens, Greece, 10-12 November 2017.
40. Niavi C, Tokamani M, Mourati S, Korpidou M, Ziridou E, Sandaltzopoulou E, Markopoulos G, Roupakia E, **Kolettas E**, Sandaltzopoulos R. (2018). Deciphering an IKK/NF- κ B-miRNA transcriptional regulatory network in NSCLC cell proliferation: Interaction between miR-342-3p and FOSB, MAF. *Poster (Biochemical & Molecular Biology)*, 21st Annual Undergraduate Research Symposium in Chemical & Biological Sciences, UMBC, Baltimore, USA, 20/10/2018.

IV. Abstracts Published in Journals (13)

1. Yu RCH, Buluwela L, **Kolettas E**, Alaibac M and Chu AC. (1993). Comparison between the Cytomegalovirus early and Moloney murine leukaemia virus LTR promoters in their ability to produce transiently and stably transfected CD1a-expressing HeLa cells. *J. Invest. Dermatol.* 100(4) (P40):436.
2. Yu RCH, **Kolettas E**, Buluwela L, Kamalati T, Alaibac M and Chu AC. (1993). Increased CD1a expression at lower temperatures by stably transfected HeLa cells. *J Invest Dermatol.* 100(4):443.
3. **Kolettas E** and Muir HI. (1994). Retroviral-mediated gene transfer into articular chondrocytes: a potential for gene therapy. (*Abstract/Oral presentation III-45*, Session IIIB 'Potentials for Gene

- Therapy*, 5th International Conference on 'The Molecular Biology and Pathology of Matrix', 19-12/06/1994, Medical College, Thomas Jefferson University, PA, USA). **Matrix Biology** 14:406.
4. **Kolettas E** and Muir HI. (1994). Isolation and characterisation of conditionally immortalised articular chondrocyte cell lines from adult homozygous *H-2K^b tsA58* transgenic mice. (*Abstract/Oral Presentation IV-10*, Session IV 'Expression of Normal and Mutated Genes in Cells and Men', 5th International Conference on 'The Molecular Biology & Pathology of Matrix', 19-12/06/1994, Jefferson Medical College, Thomas Jefferson University). **Matrix Biology** 14:410.
 5. **Kolettas E**, Evangelou A, Bonanou-Tzedaki S and Gonos ES. (2000). Thermal responses and cell survival of a spontaneously immortalised human keratinocyte cell line and oncogene-expressing cell lines derived from it: role of heat shock proteins and clusterin/apoJ. **Biochem. Soc. Trans.** 28(5):A373-A373.
 6. Evangelou A, **Kolettas E**, Tenopoulou M, Galaris D, Gonos ES and Manos G. (2002). Vanadium inhibits HaCaT cell proliferation but it does not induce apoptosis. **Metal Ions Biol. Med.** 7:154-8
 7. Charalambous Ch, Batsi Ch, **Kolettas E** and Constantinou AI. (2007). Induction of apoptosis by 2-methoxyestradiol in Jurkat cells is associated with topoisomerase II activation (*Abstract/Poster, 'Cellular responses to anticancer Drugs'*, Conference of the American Association of Cancer Research (AACR), Los Angeles, CA, USA, 2007). **Cancer Res** 67 (Suppl 9):3234.
 8. Kontargiris E, **Kolettas E**, Vadalouca A and Kalfakakou V. (2008). Role of Zn in ropivacaine and neutral endopeptidase: toxic effects on human keratinocyte cells. **Cell Biol. & Toxicol.** 8.P03:58.
 9. Batsi Ch, Kanavaros P, Marcu KB and **Kolettas E**. (2008). *Ras*^{V12}-induced premature senescence of human fibroblasts is rescued by constitutively activated *IKK β* (*Abstract/Poster 33rd FEBS Congress/11th IUBMB, Athens, 28/6-3/7, 2008*). **FEBS J.** 275(1):149.
 10. Sfikas A, Galani V, Chondrogiannis G, Kastamoulas M, Vartholomatos G, Bai M, Markopoulou T, **Kolettas E** and Kanavaros P. (2008). TNF α effect on the cell death of the A549 lung carcinoma cells (*Abstract 696*, European Society of Pathology, London, 10/2008). **Histopathol.** (S1) 53:303.
 11. Galani V, Chondrogiannis G, Kastamoulas M, Sfikas A, Vartholomatos G, Markopoulou T, Arvanitis D, **Kolettas E** and Kanavaros P. (2009). TNF α , IL1 β , IL13 and IFN γ effects on the cell death of the A549 lung carcinoma cells (*Abstract/Poster P8-45*, 34th FEBS Congress, Prague, Czech Republic, 4-9/7/2009). **FEBS J.** 276:310.
 12. Galani V, Kastamoulas M, Chondrogiannis G, Vartholomatos G, Vlachopoulou E, Arvanitis, D, Liloglou, T, **Kolettas E**, Baltogiannis D, Sofikitis N and Kanavaros P. (2010). Cytokine effects on the cell cycle and death of lung and prostate carcinoma cells (*Abstract/Poster*, European Respiratory Society Annual Congress). **Virchows Archives** 457(2):231-232.
 13. Primikyri A, Hatzimichael E, Karali E, Kostaras E, Manztaris M, Shin J-S, Chi S-W, **Kolettas E**, Gerothanassis I, Briasoulis E and Tzakos A. (2013). Decoding the BH3-mimetic pro-apoptotic activity of quercetin in Jurkat cells (*Abstract/Poster 1672*, 5th American Society of Hematology annual meeting, Session-Chemical Biology & Experimental Therapeutics, 7-10/12/2013, New Orleans, USA). **Blood** 122(21):1672.

V. Full Publications in Greek Periodicals (1)

Kolettas E. (2005). 2-methoxyestradiol, a promising anti-tumour agent: From basic research to the clinic. **Forum in Clinical Oncology** 4(2-3):172-179.

VI. Journal Publications (47) (IF, Impact Factor; C, Citations)

1. Rosenberger RF, Gounaris EG and **Kolettas E**. (1991). Mechanisms responsible for the limited and immortal phenotype in cultured mammalian cells. **J. Theor. Biol.** 148:383-392
2. **Kolettas E**, Gonos ES and Spandidos DA. (1994). Overexpression of *Ha-Ras* oncogene transforms rodent fibroblasts with low frequency but not human diploid fibroblasts. **Int. J. Oncol.** 4:43-47.
3. **Kolettas E**, Buluwela L, Bayliss MT and Muir HI. (1995). Expression of cartilage-specific molecules remains unaffected by long-term culture of human articular chondrocytes. **J. Cell Sci.** 108:1991-1999.

4. Yu RCH, **Kolettas E**, Kamalati T, Chu AC and Buluwela L. (1997). Stable expression of CD1a molecule in human epithelial cell lines shows temperature-dependent expression and affects cell morphology and growth. *Arch. Dermatol. Res.* 289(6):352-359.
5. **Kolettas E**, Spandidos DA and Rosenberger RF. (1997). SV40 transformation of embryonic human diploid fibroblasts results in multiple changes in gene expression. *Int J Oncol* 11(4):717-725.
6. **Kolettas E**, Khazaie K and Rosenberger RF. (1997). Overexpression of the human *c-erbB* (*EGF Receptor*) proto-oncogene fails to alter the lifespan or promote tumourigenic growth of normal and SV40-transformed human fibroblasts. *Int J Oncol.* 11(5):1071-1080.
7. **Kolettas E**, Lymboura M, Khazaie K and Luqmani YA. (1998). Modulation of human elongation factor 1-delta gene expression by oncogenes in human epithelial cells. *Anticancer Res.* 18:385-392.
8. **Kolettas E** and Rosenberger RF. (1998). Suppression of decorin gene expression and induction of anchorage-independent growth by overexpression of *v-src* oncogene in human fibroblasts. *Eur. J. Biochem.* 254(2):266-274.
9. Assimakopoulos DA, **Kolettas E**, Zagorianakou N, Evangelou A, Skevas A and Agnantis N. (2000). Prognostic significance of p53 in the cancer of the larynx. *Anticancer Res.* 20(5):3555-3564 (Invited Review).
10. **Kolettas E**, Evangelou E and Gonos ES. (2001). *v-FBR-fos* oncogene fails to rescue mammalian cells from growth arrest but affects the responses of human fibroblasts to heparin. *Anticancer Res.* 21(1A):435-444.
11. Paschos I, Natsis L, Nathanailidis C, Kagalou I and **Kolettas E**. (2001). Induction of androgenesis and gynogenesis in the goldfish *Carassius auratus* oranda. *Reproduction in Domestic Animals* 36(3-4):195-198.
12. **Kolettas E**, Muir HI, Barrett JC and Hardingham TE. (2001). Chondrocyte phenotype and cell survival are regulated by culture conditions and by specific cytokines through the expression of Sox9 transcription factor. *Rheumatology* 40(10):1146-1156.
13. Petropoulou C, Trougakos I, **Kolettas E**, Toussaint O and Gonos ES. (2001). Clusterin / Apolipoprotein J is a novel biomarker of cellular senescence that does not affect the proliferative capacity of human diploid fibroblasts. *FEBS Lett.* 509:287-297.
14. Barradas M, Gonos ES, Zebedee Z, **Kolettas E**, Petropoulou C, Delgado MD, Leon J, Hara E and Serrano M. (2002). Identification of a candidate tumour suppressor gene specifically activated during *ras*-induced senescence. *Exp. Cell Res.* 173(2):127-137.
15. Gonos ES, Agrafiotis D, Dontas AS, Efthimiopoulos S, Galaris D, Karamanos NK, Kletsas D, **Kolettas E**, Panagyotou G, Sekeri-Pataryas KE, Simoes D, Sourlingas TG, Stathakos D, Stratigos AJ, Tavernarakis N, Trougakos IP, Tsiganos CP and Vinyos DH. (2002). Ageing Research in Greece. *Exp. Gerontol.* 37(6):735-747.
16. Assimakopoulos DA, **Kolettas E**, Evangelou A and Patrikakos G. (2002). The role of CD44 in the development and prognosis of squamous cell carcinoma of head and neck. *Histol. Histopathol.* 17(4):1269-1281. (Invited Review).
17. Charalabopoulos K, Papalimneou V, Evangelou A, Kalfakakou V, Kiortsis D, **Kolettas E**, Alamanos J, Charalabopoulos A and Agnantis NJ. (2003). Is the E-cadherin downregulation observed in Helicobacter pylori infection associated with gastric cancer development? An additional element in the disease jigsaw. *Exp. Oncol.* 25(4):270-273.
18. Kontargiris E, **Kolettas E**, Vadalouca A, Trougakos IP, Gonos ES and Kalfakakou V. (2004). Ectopic expression of clusterin/apolipoprotein J or Bcl-2 decreases the sensitivity of HaCaT cells to toxic effects of ropivacaine. *Cell Res.* 14(5):415-422.
19. **Kolettas E**, Skoufos I, Kontargiris E, Markopoulou S, Tzavaras T and Gonos ES. (2006). Bcl-2 but not clusterin/apolipoprotein J protected human diploid fibroblasts and immortalised keratinocytes from ceramide-induced apoptosis: Role of p53 in the ceramide response. *Arch. Biochem. Biophys.* 445:184-195.
20. **Kolettas E**, Thomas C, Leneti E, Skoufos I, Mbatsi C, Sisoula C, Manos M and Evangelou A. (2006). Rosmarinic acid failed to suppress hydrogen peroxide-mediated apoptosis but induced apoptosis of Jurkat cells which was suppressed by Bcl-2. *Mol. Cell. Biochem.* 285:111-120.
21. Bartkova J, Rezai N, Lontos M, Karakaidos P, Kletsas D, Issaeva N, Vassiliou LV, **Kolettas E**, Niforou K, Zoumpourlis VC, Takaoka M, Nakagawa H, Tort F, Fugger K, Johansson F, Sehested M, Andersen CL, Dyrskjot L, Ørntoft T, Lukas J, Kittas C, Helleday T, Halazonetis

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lacks the dimerization arm and correlates with cellular malignancy. *J. Cell. Biochem.* 119(2):2110-2123

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39. Roupakia E, Markopoulos G and **Kolettas E**. (2018). IL-12-mediated transcriptional regulation of matrix metalloproteinases. *Bioscience Rep.* 38(3) BSR20171420 (*Invited*)
40. Markopoulos G, Roupakia E, Tokamani M, Alabasi G, Sandaltzopoulos R, Marcu KB and **Kolettas E**. (2018). Roles of NF- κ B signalling in the regulation of miRNAs impacting on inflammation in cancer. *Biomedicines* 6(2):40, 198-216
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42. Markopoulos G, Roupakia E, Marcu KB and **Kolettas E**. (2019). Epigenetic regulation of inflammatory cytokine-induced epithelial-to-mesenchymal cell transition and in the generation of cancer stem cells. *Cells* 8(10), Sep 25, pii: E1143
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Life Science Alliance is a new journal launched by an alliance of EMBO Press, Rockefeller University Press & Cold Spring Harbor Laboratory Press.
44. Tsailanis A, Renziehausen A, Kiriakidi S, Vrettos EI, Markopoulos GS, Sayyad N, Hirmiz B, Aguilar M-I, Del Borgo MP, **Kolettas E**, Widdop RE, Mavromoustakos T, Crook T, Syed N, and Tzakos AG. (2020). Enhancement of glioblastoma multiforme therapy through a novel Quercetin-Losartan hybrid. *Free Rad. Biol. Med.* 160:391-402.
45. Ntellas P, Mavroeidis L, Gkoura S, Gazouli I, Amylidou A-L, Papadaki A, Zarkavelis G, Mauri D, Karpathiou G, **Kolettas E**, Batistatou A and Pentheroudakis G. (2020). Old player-new tricks: Non angiogenic effects of the VEGF/VEGFR pathway in cancer. *Cancers* (Basel) 12(11):E3145
46. Roupakia E, Markopoulos GS and **Kolettas E**. (2021). Genes and pathways involved in senescence bypass identified by functional genetic screens. *Mech. Ageing. Dev.* Jan 8; 194:111432
For the special MAD issue on 'The bright and dark side of cellular senescence' (Eds: V.G. Gorgoulis, University of Athens Medical School, Greece; R. Di Micco, Telethon Institute for Gene Therapy, Ospedale San Raffaele, Milan, Italy; M. Kovatcheva, Institute for Research in Biomedicine, Barcelona, Spain) <https://www.sciencedirect.com/journal/mechanisms-of-ageing-and-development/special-issue/10S35Q64NBZ>
47. Diamantis DA, Agalou A, Chatziathanasiadou MV, Markopoulos GS, Bellou S, Kanaki Z, Crook T, Syed N, Rampias T, Klinakis A, **Kolettas E**, Beis D and Tzakos AG. (2021). Biotin-Yellow a biotin guided NIR turn-on fluorescent probe for cancer targeted diagnosis. *Sensors and Actuators: B. Chemical* (accepted)

Guest co-editor of special issues for the journals CELLS and CANCERS (2020-2021)

- Special Issue for **CELLS** (IF 4.366, rising to 5.656) on '**The DNA Damage Response in Cell Physiology and Disease**' (https://www.mdpi.com/journal/cells/special_issues/Damage_Response)
- Joint Special Issue for **Cancers - Cells** (co-editor in **Cancers**; IF 6.126) on: '**NF- κ B signalling in cellular responses to threats, cancer development and therapy**' (https://www.mdpi.com/journal/cancers/special_issues/nuclear_factor_kappaB; https://www.mdpi.com/journal/cells/special_issues/NF-Kappa_B)

*equal contribution

Impact factor: >260; **Citations:** 3280, *h22*; <http://scholar.google.gr/citations?user=3hbUwhIAAAAJ&hl=eI>

CONFERENCES (41 National, British, European and International Conferences attended)

1. EMBO/CRC/NIEHS Workshop on '*Tumour Suppressor Genes and Negative Growth Regulation*', Nethybridge, Scotland, UK, 17-21 April 1988.
2. Royal Society Workshop on '*DNA Methylation and Gene Expression*', London, UK, 03/1988.
3. MRC National Institute for Medical Research Scientific Conference on '*Developmental Biology and Cellular Processes*', University of Warwick, Coventry, England, UK, 22-23/09/1988.
4. British Society for Cell Biology & British Connective Tissue International Society Meeting on '*Cell Biology of Cartilage & Bone*', Christ Church College, University of Oxford, 17-20/09/1990.
5. Inaugural Symposium of the CRC/Wellcome Trust Institute of Developmental Biology and Cancer, on '*Developmental Biology and Cancer*', University of Cambridge, UK, July 1991.
6. West London Cancer Research Group Meeting on '*Cellular, Molecular and Clinical aspects of Cancer*', Charing Cross & Westminster Medical School, University of London, UK, 08/05/1992.
7. British Society for Research into Ageing Workshop on '*Wound Healing*', King's Fund Centre, London, UK, 15 February 1993.
8. British Connective Tissue Society workshop on '*Cartilage Structure and Osteoarthritis*', Lilly Research Centre, Earl Wood, Windlesham, Surrey, England, UK, 21 May 1993.
9. CRC/Beatson Institute International Cancer Conference on '*The Clinical, Cellular and Molecular aspects of Squamous Cell Carcinomas*', Glasgow, Scotland, UK, 11-15 July 1993.
10. Annual Meeting of the British Society for Investigative Dermatology, on '*Cellular, Molecular and Clinical Dermatology*', University of Nottingham, England, 20-21 September 1993.
11. Meeting of the British Association for Cancer Research and the British Royal Society of Surgery, on '*Cellular, Molecular and Clinical Oncology*', London, England, UK, 19/11/1993.
12. Meeting of West London Matrix Biology Group on '*The Molecular Basis of Extracellular Matrix in Health and Disease*', Imperial College, University of London, UK, 23 November 1993.
13. The Royal Society, meeting on '*Death from inside out: The role of apoptosis in development, tissue homeostasis and malignancy*', London, England, UK, 23-24 February 1994.
14. Meeting of the West London Matrix Biology Group on '*Current Research in Matrix Biology*', Imperial College, University of London, England, UK, 10 March 1994.
15. 5th International Conference on '*The Molecular Biology and Pathology of Matrix*', Institute of Molecular Medicine, Thomas Jefferson University, Philadelphia, USA, 19-22 June 1994.
16. 45th Conference of the Hellenic Society of Biochemistry & Biophysics, University of Patras, Greece, 10-11 May 1996.
17. 4th Conference, Hellenic Society of Connective Tissue Research, Athens, Greece, 13/05/2000.
18. XVIIth FECTS meeting, University of Patras, Patras, Greece, 1-5 July 2000.
19. 54th Conference of the Hellenic Society of Biochemistry & Molecular Biology (HSBMB), University of Ioannina, Greece, 10-12 October 2002.
20. 28th Conference of Hellenic Society of Biological Sciences, Ioannina, Greece, 18-20 May 2006.
21. 58th Conference of the HSBMB, University of Patras, Greece, 9-11 November 2006.
22. 12th Congress, International Association of Biomedical Gerontology, Spetses Island, Greece, 20-24/5/2007.
23. International Conference on '*Molecular Targets for Cancer Prevention, Diagnosis and Treatment*', University of Cyprus, Lemesos, Cyprus, 7 -10 October 2008.
24. 59th Conference of the HSBMB, Athens, Greece, 7-9 December 2007.
25. 5th *Clusterin/Apolipoprotein J (CLU)* Workshop, Spetses Island, 2-5 June 2008.
26. 6th Conference, Society of Free Radicals & Oxidative Stress, Ioannina, Greece, 18-21/9/2008.
27. 1st International Conference on Molecular Cancer Research, on '*Inflammation & Cancer*', '*Cancer Signalling Pathways & Crosstalks*' and '*Targeted Therapies in Cancer*', Hellenic Association for Molecular Cancer Research, Royal Olympic Hotel, Athens, Greece, 27-29/11/2009
28. Workshop on '*Genomic Determinants of Inflammation*' organised by the EU FP7-funded research consortium '*Model-In*', Hotel Amarilia, Vouliagmeni, Athens, Greece, 2-3 April 2012.
29. '*1st European NF- κ B subunit workshop*' (organised by Prof N. Perkins, Newcastle University & Prof. L. Schmitz, Justus-Liebig University of Giessen), University of Giessen, Germany, 1-3/10/2012.
30. 1st World Hellenic Biomedical Association (WHBA) postgraduate symposium in '*Translational Medicine*' with the support of the University of Ioannina. Round Table with Prof. Harald zur Hausen (Nobel Laureate), Dr. K. Drosatos, WHBA President, Ioannina, Greece, 28/02/2012.
31. Scientific meeting of the Institute of Molecular Biology and Biotechnology (IMBB), Foundation of

- Research & Technology (FORTH), Herakleion, Crete, Greece, 27-28 April 2013.
32. INsPiRE International Workshop on: '*Oncogenic Pathways & Antitumour Responses*', Biomedical Research Foundation of the Academy of Athens (BRFAA), Greece, 23-25/04/2014.
 33. '*2nd European NF- κ B subunit workshop*' [organised by Drs S. Rocha (Dundee), N. Perkins, (Newcastle), R. Carmody (Glasgow) & L. Stark (Edinburgh), K. Campbell (Glasgow)], Atholl Palace Spa Hotel, Pitlochry, Scotland, UK, 6-8 October 2014.
 34. 65th Conference of the HSBMB, Thessaloniki, Greece, 9-11 November 2014.
 35. 1st International workshop on '*Reshaping Drug Discover. The Intrinsically Disordered Proteome as Drug Target*' [Organising Committee: K. Dunker (USA), A. Tzakos (GR)], Uol, Greece, 19/06/2015.
 36. 66th Conference of the HSBMB, Eugenides Foundation, Athens, Greece, 11-13/12/2015.
 37. Scientific meeting of the Institute of Molecular Biology & Biotechnology (IMBB), Foundation of Research & Technology (FORTH), Herakleion, Crete, Greece, 20-22 May 2016.
 38. '*3rd European NF- κ B subunit workshop*' [organised by Drs D. Thanos (BRFAA), E. Kolettas (University of Ioannina), M. Angelopoulos (BRFAA), G. Mosialos (Aristotle U Thessaloniki), Corfu Chandris Hotel & Villas, Dassia, Corfu, Greece, 3-5 October 2016 (<http://nf-kappab.eu/>).
 39. 67th Conference of the Hellenic Society of Biochemistry & Molecular Biology (HSBMB), 'Karolos Papoulias' Conference Center, University of Ioannina, Greece, 24-27 November 2016; Member of the organising/scientific committee (www.eebmb2016.gr)
 40. 12th Molecular Oncology & Targeted Therapies Workshop, Round table Chair on *Genomic atlases of solid tumours*, organised by the Department of Medical Oncology, University of Ioannina Medical School, the Oncology Clinic, University Hospital of Ioannina, and the Society for Tumour heterogeneity, Hotel Du Lac, Ioannina, Greece, 31/3-1/4, 2018.
 41. 13rd Molecular Oncology & Targeted Therapies Workshop, organised by the: Society for Tumour heterogeneity, Department of Medical Oncology, University of Ioannina Medical School & Oncology Clinic University Hospital, Ioannina, Greece, 29-30/03/2019.

SCIENTIFIC LECTURES (34 as Invited speaker)

1. '*Cooperation of ras and myc oncogenes in rat and human embryonic fibroblasts*'. Biochemistry, Dept., Charing Cross & Westminster Medical School, London, UK (Prof A. Malcolm), 18/01/1991.
2. '*Role of cytoplasmic and nuclear oncogenes on rat and human embryonic fibroblasts*'. Anatomy Dept., University of Cardiff College of Medicine, Wales (Prof Charles Archer), 8/12/1991.
3. '*Attempts to immortalise human articular chondrocytes using temperature-sensitive oncogenes delivered by retroviral-mediated gene transfer*'. Division of Biochemistry, Kennedy Institute of Rheumatology, Hammersmith, London, UK (Dr M. Bayliss & Prof T. Hardingham), 12/03/1992.
4. '*Comparison of the effects of the collaborating cytoplasmic and nuclear oncogenes on human and rat cells*'. Biology Lab, University of Ioannina Med Sch, Greece (Dr T. Tzavaras), 6/12/1993
5. '*Heparin inhibits the growth of human keratinocytes: The effects of oncogenes encoding protein tyrosine kinases (PTKs)*'. Annual Meeting of the British Society for Investigative Dermatology, Nottingham, UK, 20-21 September 1993.
6. '*The effects of a thermolabile SV40 large T-antigen on human chondrocytes*'. Biochemistry Lab, Chemistry Dept., University of Patras, Greece (Dr D. Vinyos & Prof, C. Tsiganos), 26/10/1993.
7. '*Isolation and characterisation of conditionally immortalised articular chondrocyte cell lines from adult homozygous H-2K^b tsA58 transgenic mice*'. West London Matrix Biology Group meeting, Imperial College, University of London, UK, 10 March 1994.
8. '*Use of conditionally immortalised articular chondrocyte cell lines isolated from adult homozygous H-2K^b tsA58 transgenic mice*'. 5th International Conference on 'The Molecular Biology and Pathology of Matrix'. Thomas Jefferson University, PA, USA (Organisers: Prof. Darwin Prockop, Thomas Jefferson U & Prof. Bjorn R. Olsen, Harvard Medical School), 19-22/06/1994
9. '*Regulation of decorin gene expression by cytoplasmic oncogenes in a spontaneously-immortalised human keratinocyte line*'. Department of Medical Oncology, Charing Cross & Westminster Medical School, University of London (Prof. Charles Coombes), 9/9/1994.
10. '*Regulation of decorin gene expression by cytoplasmic oncogenes*', 45th Conference of Hellenic Society of Biochemistry & Biophysics, University of Patras, Greece, 10-11 May 1996.
11. '*Regulation of phenotypic expression and survival of mammalian chondrocytes by cytokines*

- and culture conditions*', 45th Conference of the Hellenic Society of Biochemistry & Biophysics, University of Patras, Greece, 10-11 May 1996.
12. '*Factors regulating mammalian chondrocyte growth, differentiation and cell survival*'. Wellcome Trust Centre for Cell-Matrix Research/Biochemistry Division, University of Manchester, UK (Prof. Timothy E. Hardingham), 24 February 1997.
 13. '*Regulation of phenotypic expression and survival of mammalian chondrocytes by cytokines and culture conditions*', Laboratory of Molecular Oncology, Institute of Biology & Biotechnology, National Hellenic Research Foundation, (Dr. E. S. Gonos), 18 April 1997.
 14. '*Regulation of chondrocyte survival*'. 4th Conference of the Hellenic Society of Connective Tissue Research, Hippokrateion Hospital, Athens, (Dr A. Charonis), 13 May 2000.
 15. '*Probing the mechanisms of action of collaborating viral ras and myc oncogenes in mammalian cells*'. Centro Unificato di Ricerca Biomedica Applicata (CURBA), University of Bologna, Italy, (Prof. P. Chieco and K. B. Marcu, CURBA, University of Bologna, Italy), 16 October 2002.
 16. '*The role of oncogenic stress on the homeostasis of human fibroblasts*', Dermatology Clinic, University Hospital Medical School, University of Ioannina (Prof. I. Hatzis), 11 February 2004.
 17. '*Bcl-2-mediated apoptotic block is linked to cell cycle arrest*'. Department of Biological Sciences, University of Cyprus, Nicosia, Cyprus, (Prof. A. I. Constantinou), 10 December 2004.
 18. '*Bcl-2-mediated apoptotic block to 2-methoxyestradiol linked to G₁/S cell cycle arrest involves nuclear association of Bcl-2 and up-regulation of p27^{Kip1}*'. UoI Med School, Greece, 15/3/2006.
 19. '*The role of Bcl-2 on 2-methoxyestradiol-induced apoptosis*'. Laboratory of Biological Chemistry, University of Ioannina Medical School, Greece, 29 April 2006.
 20. '*Constitutively activated IKK β rescues human diploid fibroblasts from RasV12-induced premature senescence*'. 58th HSBMB Conference, University of Patras, Greece, 9-11/11/2006.
 21. '*2-methoxyestradiol: From basic science to clinical applications*'. Interdepartmental scientific lectures on Molecular Oncology, University of Ioannina, Greece, 01 May 2007.
 22. '*2-methoxyestradiol, a promising antitumour agent: From basic research to the clinic*', International Conference on 'Molecular Targets for Cancer Prevention, Diagnosis and Treatment', University of Cyprus, Lemesos, Cyprus, 7-10 October 2008.
 23. '*Vanadium-induced apoptosis of HaCaT cells is mediated by c-fos and involves up-regulation of nuclear clusterin/apolipoprotein J*'. 5th Clusterin/Apolipoprotein J workshop, Spetses Island, Greece, 2-5/06/2008
 24. '*The role of NF- κ B on replicative and oxidative-stress-induced senescence*'. 6th Hellenic Conference of the Society of Free Radicals & Oxidative Stress, Ioannina, Greece, 18-21/09/2008.
 25. '*The role of NF- κ B on DNA damage responses*', Biology Laboratory, UoI Medical School, Ioannina, Greece, 5/6/2009
 26. '*Functional roles and mechanisms of action of IKK α - and IKK β -mediated NF- κ B signalling during lung carcinogenesis*', 1st World Hellenic Biomedical Association (WHBA) post-graduate symposium in *Translational Medicine*, University of Ioannina, 28 February 2012.
 27. '*Function of NF- κ B catalytic subunits in cell proliferation and lung cancer*', Scientific meeting of the Institute of Molecular Biology and Biotechnology (IMBB), Foundation for Research & Technology (FORTH), Herakleion, Crete, Greece, 27-28 April 2013.
 28. '*Impact of IKK α on cell growth and urethane-induced lung tumourigenesis*', Scientific meeting of the IMBB-FORTH, Herakleion, Crete, Greece, 20-22 May 2016.
 29. '*Different functional roles of IKK α and IKK β in NSCLC development*'. '3rd European NF- κ B subunit workshop', Chandris Hotel, Corfu, Greece, 3-5 October 2016 (<http://nf-kappab.eu/>).
 30. '*An IKK β -miRNA pathway involved in oncogene-initiated senescence*', 2017 Fellows Symposium, Research Grants in Biomedical Sciences, Fondation Santé grantees, (organised by Prof. S. Artavanis-Tsakonas), Ionic Center 11 Lisiou Str., Plaka, Athens, Greece, 6/10/2017.
 31. '*NF- κ B - miRNA Regulatory Network in non-small cell lung cancer*'. Invited speaker, 12th Molecular Oncology & Targeted Therapies Workshop, organised by the: Society for Tumour heterogeneity, Department of Medical Oncology, University of Ioannina Medical School & Oncology Clinic University Hospital, Ioannina, Greece, 30-31/03/2018.
 32. '*Role of tetraspanins in cell homeostasis and cancer*'. Invited speaker, 13rd Molecular Oncology & Targeted Therapies Workshop, organised by the: Society for Tumour heterogeneity, Department of Medical Oncology, UoI Medical School & University Hospital of Ioannina, Greece, 29-30/03/2019.

33. 'Canonical versus noncanonical NF- κ B signalling in lung carcinogenesis', School of Life Sciences, University of Essex, Colchester, Essex, UK (Dr. Charalampos Rallis), 18/02/2021.
<https://www.essex.ac.uk/events/2021/02/18/canonical-vs-non-canonical-nf-kappab-signalling-in-lung-carcinogenesis>
34. 'Impact of canonical vs noncanonical NF- κ B signalling on lung carcinogenesis', Department of Biochemistry and Biomedicine, School of Life Sciences, University of Sussex, (Prof. George Giamas, Head of the Department of Biochemistry and Biomedicine), 16/04/2021.

SCIENTIFIC COLLABORATIONS

I. National

- *Cancer and DNA damage responses*

1. Professor Anna Goussia, Department of Pathology, School of Medicine, University of Ioannina, and Pathology Laboratory, NHS-University Hospital of Ioannina.

- *Mice and high-throughput technologies*

2. Dr. Apostolos Klinakis, Researcher A' (Professor) & Biomedical Research Foundation of the Academy of Athens (BRFAA), Athens, Greece.
3. Dr. Zoi Kanaki, Staff Research Scientist, BRFAA, Athens, Greece.

- *NF- κ B - miRNA Regulatory Network*

4. Professor Rafael Sandaltzopoulos, PhD, Department of Molecular Biology & Genetics, Democritus University of Thrace, Alexandroupolis, Thrace, Greece.

II. European

- *Impact of NF- κ B - miRNA regulatory network in DDR, inflammatory diseases and cancer*

1. Dr. Christos Polytarchou, and Dr. Maria Hatzia Apostolou, Department of Biosciences & The John van Geest Cancer Research Centre, Nottingham Trent University, Nottingham, UK

- *Cancer Biology*

2. Dr Emmanouil Karteris, Biosciences, Department of Life Sciences, Brunel University London, UK
3. Professor Georgios Giamas, Head of Department of Biochemistry & Biomedicine, School of Life Sciences, University of Sussex, UK
4. Dr. med. Mark Kriegsmann and Dr. Katharina Kriegsmann, University Hospital of Heidelberg, Germany

- *Cell Senescence and autophagy*

5. Dr. Charalampos Rallis, School of Life Sciences, Essex University, UK

III. International

1. Professor (Emeritus) Kenneth B. Marcu, PhD, Professor of Cell Biology & Biochemistry, Department of Cell Biology & Biochemistry, Stony Brook University, New York, USA.

Provided (IKK α ^{fl/fl} and IKK β ^{fl/fl}):LacZ mice to cross with SPC-CreER^{T2} mice provided by Prof. Brigid L.M. Hogan, PhD(CAM), FRS, Professor & Chair of the Department of Cell Biology, Duke University Medical Center, Durham, NC, USA.

- *Collaboration on CD/Tetraspanins in cancer*

2. Dr. Jennifer Gillette, Asc. Professor, Department of Pathology, University of New Mexico, USA
3. Dr. Christopher S. Stipp, Associate Professor, Department of Biology, University of Iowa, USA