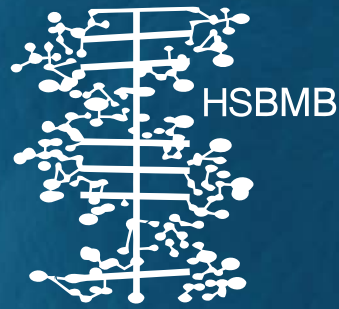
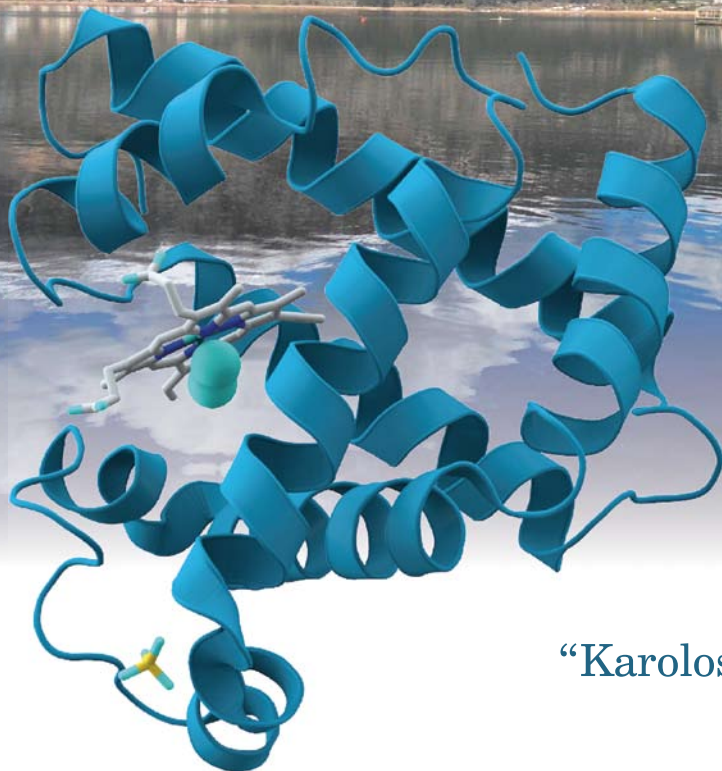


67th



Panhellenic Conference of the
Hellenic Society for Biochemistry
and Molecular Biology (HSBMB)



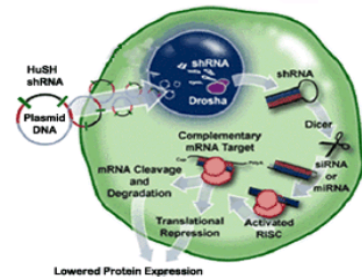
25-27
November 2016




“Karolos Papoulias” Conference Center
University of Ioannina, Ioannina




FINAL PROGRAM

Lab Supplies Scientific

Laboratory Reagents – Equipment – Consumables



-  **shRNA**
Human, mouse & rat. *Lentiviral shRNA - new!*
-  **siRNA**
Human, mouse, rat
Guaranteed knockdown
-  **Exact shRNA**
Design against any species, any variant.

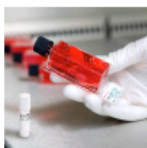
-  **MicroRNA Expression Plasmids**
Genome-wide coverage for human & mouse miRNA
-  **MicroRNA qPCR Assays**
SYBR Green qPCR assays for miRNA expression profiling
-  **3'UTR Clones as MicroRNA Target**
Study microRNA target and function

Shaping Epigenetics Discovery

Chromatin, DNA methylation, RNA analysis

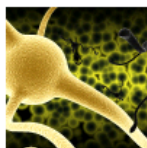


Clontech **TAKARA** cellartis



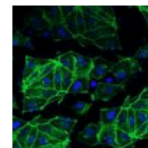
Stem Cell Generation

Stem Cell Culture



Stem Cell Characterization

Stem Cell Differentiation



Stem Cell Modification

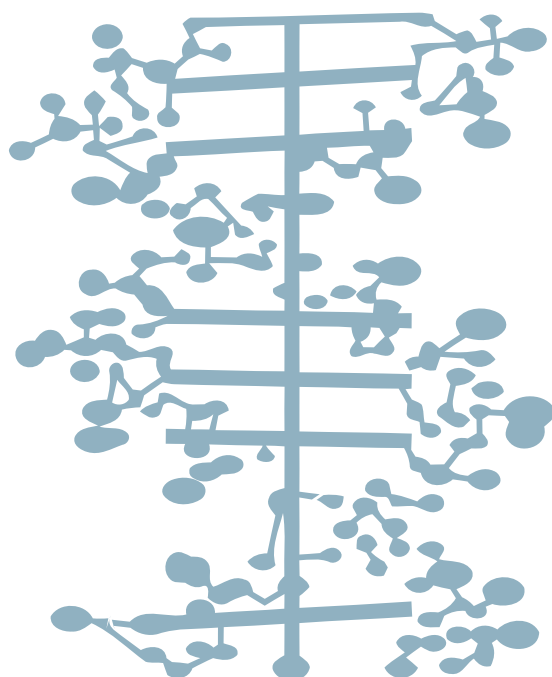
- Intracellular Signaling
- Receptor Signaling
- Oxidative – Injury
- Cancer Research



DNA, RNA, and protein purification

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ORGANIZATION

Hellenic Society for Biochemistry and Molecular Biology (HSBMB)

Soufliou 11, 11257 Athens GREECE
Tel: (+30)-210-6503565
Fax: (+30)-210-6511767
E-mail: info@eebmb.gr

Administrative Board of HSBMB

President: Dimitris Kletsas
Vice President: Nikos K. Karamanos
General Secretary: Dionyssios Sgouras
Treasurer: George Simos
Members: Vasso Kostourou
George Mosialos
Aristidis Moustakas

Organizing-Scientific Committee

President: Stathis Frillingos
Members: Amalia Sofia Afendra
Savvas Christoforidis
Theodore Fotsis
Dimitrios Galaris
Spyros Georgatos
Evangelos Kolettas
Anna-Irini Koukkou
Panayiotis Kouklis
Thomas Papamarcaki
Anastasia Politou

WELCOME MESSAGE

Dear Colleagues,

It is our pleasure to welcome you to the **67th Annual Conference of the Hellenic Society for Biochemistry and Molecular Biology (HSBMB)** which takes place in Ioannina, at the “**Karolos Papoulias**” Conference Center of the **University of Ioannina**, from November 25th to November 27th, 2016.

As all Conferences of the HSBMB, the Conference aims at reinforcing the scientific interaction between research teams of Greek Scientists from various fields of Biosciences, inside or outside Greece, and highlighting important aspects of the research work of Greek scientists and recent research advances from the work of nationally and internationally established researchers.

Renowned scientists from Greece and abroad are participating in the Conference as invited speakers: **H. Ronald Kaback** (UCLA, Los Angeles, California), **Marcos Gonzalez Gaitán** (University of Geneva, Geneva, Switzerland), **Marino Zerial** (Max Planck Institute, Dresden, Germany), **Jop Kind** (Hubrecht Institute, Utrecht, The Netherlands), **Evi Soutoglou** (IGBMC, Strasbourg, France), **Anastassios Economou** (KU Leuven, Rega Institute, Belgium), **Frank O. Fackelmayer** (IMBB-FORTH, Biomedical Research, Ioannina), **Electra Gizeli** (IMBB-FORTH & University of Crete, Heraklion), **George Diallinas** (National and Kapodistrian University of Athens, Athens), **Apostolos Klinakis** (BRFAA, Athens), **Georgios T. Stathopoulos** (University of Patras, Rio), **Iannis Talianidis** (BSRC Al. Fleming, Vari), **Artemis G. Hatzigeorgiou** (University of Thessaly, Volos), **Katerina Chlichlia** (Democritus University of Thrace, Alexandroupolis).

As all Conferences of the HSBMB, the 67th Conference is open to all modern fields of Biochemistry and Molecular Biology. The final program includes sessions on: (1) Functional Genomics and Proteomics & Bioinformatics; (2) Epigenetics and Regulation of Gene Expression & RNA Biology; (3) DNA Damage and Repair & Ageing; (4) Structure and Function of Macromolecules; (5) Cellular Organization and Function & Cellular Communication and Signaling; (6) Molecular and Cellular Basis of Human Disease I : Cancer; (7) Molecular and Cellular Basis of Human Disease II; (8) Molecular and Cellular Basis of Human Disease III; (9) Development and Differentiation; (10) Stem cells & Tissue Morphogenesis and Regeneration.

In parallel to the 67th Conference, the **4th Forum of Young Scientists of the HSBMB**, organized by an independent committee of young researchers, also takes place at the “Karolos Papoulias” Conference Center of the University of Ioannina, on November 24th, 2016.

We are really excited with the large number of participants and the high quality of work submitted for presentation to the HSBMB Conference this year. We also highly appreciate the contributions of international organizations, transportation services, scientific supply companies and publishers who are acting as sponsors for this Conference. We would like to thank you all for your presence and your active participation in the Conference.

Stathis Frilingos
President of the Organizing-Scientific Committee

Dimitris Kletsas
President of the HSBMB

GENERAL INFORMATION

Venue and Date

Karolos Papoulias Conference Center, University of Ioannina, Ioannina
 November 25-27, 2016

Official Language

Official languages of the Conference are English and Greek. All oral and poster presentations are in English.

Opening Ceremony

The Opening Ceremony of the Conference will take place on Friday, November 25th, 2016, at 18:30, at the Amphitheater of the “Karolos Papoulias” Conference Center (2nd level), University of Ioannina.

Exhibition Area

A major exhibition will be on operation throughout the Conference (at the ground floor of “Karolos Papoulias” Conference Center), where scientific supply companies will display relevant products, services and developments.

Registrations

Category	Up to 12/10/2016	After 13/10/2016
Full Members of HSBMB ¹	55,00 €	70,00 €
Assistant Members ¹	35,00 €	50,00 €
Non-members ¹	100,00 €	135,00 €
Postgraduate Students ²	35,00 €	50,00 €
Undergraduate Students ³	20,00 €	30,00 €

Registration offers include:

1. Full Members and Assistant Members of HSBMB and Non-members:

- Attendance of the scientific program
- Visit to the Exhibition area
- Book of Abstracts in electronic form
- Final program booklet
- Conference Badge
- Certificate of Attendance
- Coffee Breaks
- Welcome cocktail/reception

2. Postgraduate Students:

- Attendance of the scientific program
- Visit to the Exhibition area
- Book of Abstracts in electronic form
- Final program booklet
- Conference Badge
- Certificate of Attendance
- Coffee Breaks
- Welcome cocktail/reception

3. Undergraduate Students:

- Attendance of the scientific program
- Visit to the Exhibition area
- Final program (at a glance) booklet
- Conference Badge
- Certificate of Attendance
- Coffee Breaks

Registration Supplement

As part of the Conference, registered participants are entitled to purchase the “English-Greek Dictionary of Biochemistry, Molecular Biology, Biotechnology” of the HSBMB, second edition (2015), at the price of 10,00 €.

Organizing -Administrative Bureau



CONFERRE LTD

Stavrou Niarchou Avenue, Mares Position GR451 10 Ioannina, Greece

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SCIENTIFIC INFORMATION

Scientific Program

The Scientific Program of the Conference includes 14 Invited Speaker Lectures, 52 Oral Presentations (arranged in 10 sessions) and 2 Sponsored Lectures, as given in pages 12-23, and 2 Poster Presentation Sessions (219 posters, Session I : P001-P109, Session II : P110-P219), as given in pages 25-52.

Oral Presentations

The time slot for each Oral Presentation is 15 minutes (inclusive of any questions and answers). Presenters and chair persons should take care to respect these time limitations.

All lectures and oral presentations will take place at the Amphitheater of the Conference Center (2nd level). There will be parallel broadcast of the talks in the entrance hall of the amphitheater and in at least one of the adjacent conference rooms.

Poster Sessions

The posters will be presented in two Sessions under agenda and displayed on appropriately designated boards at the mezzanine floor (1st level) of the “Karolos Papoulias” Conference Center. The posters should be of maximum dimensions 90cm wide and 120cm high (vertical).

Posters P001-P109 will be on display from Friday, November 25, 08:30, to Saturday, November 26, 12:00 (Poster Session I, see pages 26-39).

Posters P110-P219 will be on display from Saturday, November 26, 13:00, to Sunday, November 27, 14:00 (Poster Session II, see pages 40-52).

Awards and Scholarships of the 67th Conference of the HSBMB

The HSBMB has announced prizes and awards for new scientists who will present their work in the 67th Conference of the HSBMB, including 20 scholarships for participation to the Conference and 8 awards (2 monetary prizes and 6 accolades) for oral and poster presentations. The candidates and presentations will be judged for scientific excellence and quality of presentation, by committees of experienced scientists appointed by the Administrative Board of the HSBMB. The oral and poster presentation awards will be announced in the Closing Ceremony, at the end of the Conference.

Certificate of Attendance

All registered participants are entitled to receive a Certificate of Attendance. The Certificate will be issued on Sunday, November 27th 2016, at the end of the Scientific Program, and only upon return of the name badge.

Technical Support

Presenters will need to hand their presentation(s) to the technical support personnel at least one (1) hour prior to the relevant Session (to ensure optimal and on-time presentation of their slides). If the presentation is scheduled for early in the morning, they are requested to check their presentation with the technical support personnel the day before.

e-Abstract Book

Abstracts of all the Lectures, Oral Presentations and Poster Presentations are included in the e-Abstract Book of the Conference. All eligible registered participants will receive the e-Abstract Book upon their arrival at the Secretariat desk.

SPONSORS

The Organizing-Scientific Committee of the 67th Panhellenic Conference and the Administrative Board of the Hellenic Society of Biochemistry and Molecular Biology (HSBMB) would like to thank for their support in the Conference

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INVITED SPEAKERS



Anastassios Economou
KU Leuven, Rega Institute, Belgium



Marcos Gonzalez Gaitán
University of Geneva, Geneva, Switzerland



H. Ronald Kaback
UCLA, Los Angeles, California



Jop Kind
Hubrecht Institute, Utrecht, The Netherlands



Evi Soutoglou
IGBMC, Strasbourg, France



Marino Zerial
Max Planck Institute, Dresden, Germany

INVITED SPEAKERS



Katerina Chlichlia

Democritus University of Thrace, Alexandroupolis



George Diallinas

National and Kapodistrian University of Athens, Athens



Frank O. Fackelmayer

IMBB-FORTH, Biomedical Research, Ioannina



Electra Gizeli

IMBB-FORTH & University of Crete, Heraklion



Artemis G. Hatzigeorgiou

University of Thessaly, Volos



Apostolos Klinakis

BRFAA, Athens



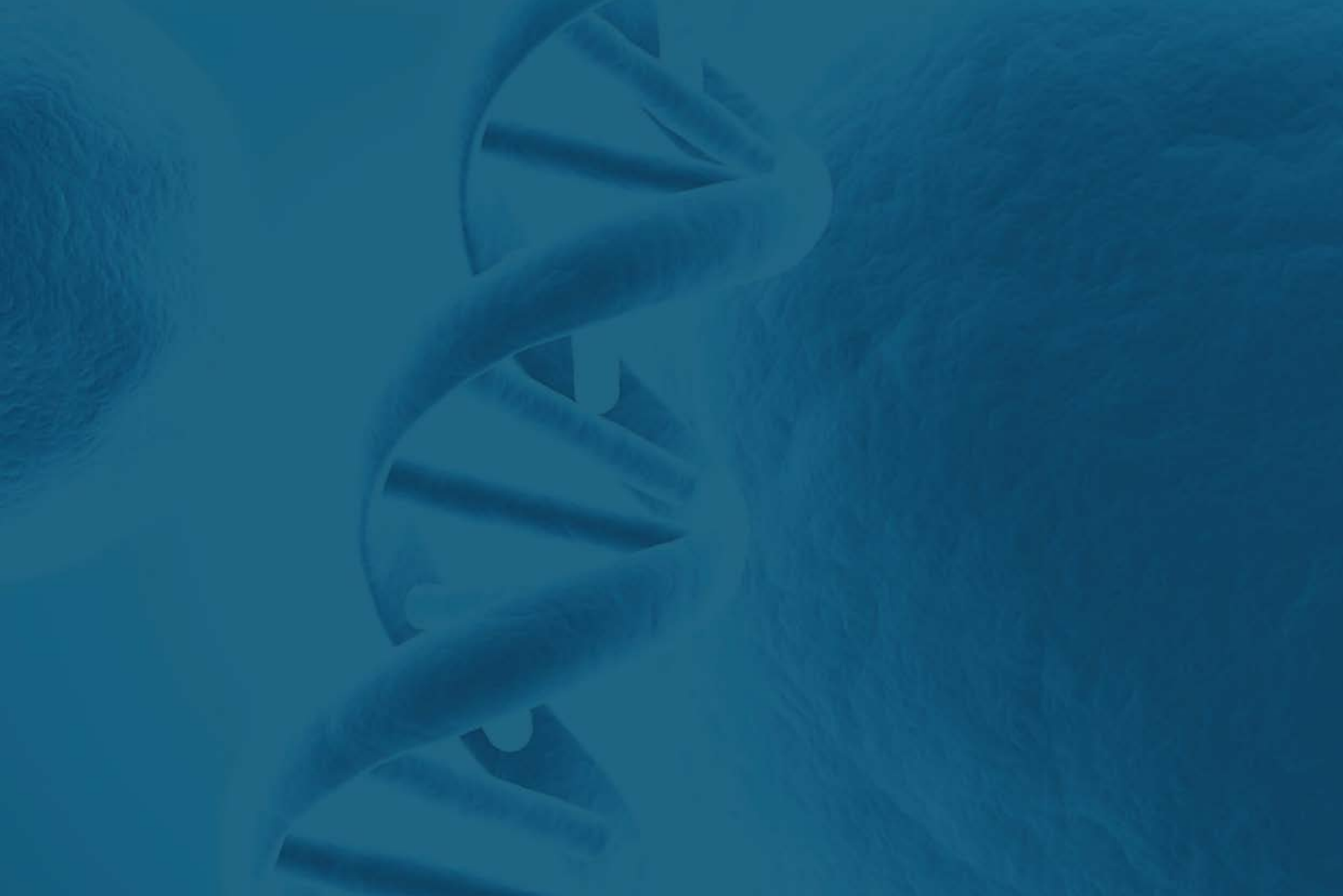
Georgios T. Stathopoulos

University of Patras, Rio

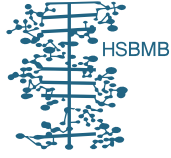


Iannis Talianidis

BSRC Al. Fleming, Vari



SCIENTIFIC PROGRAM

67th 
Panhellenic Conference of the
Hellenic Society for Biochemistry
and Molecular Biology (HSBMB)

25-27
November 2016

“Karolos Papoulias” Conference Center
University of Ioannina, Ioannina

Friday, 25th November 2016

09:30-11:30 **SESSION 1:** **Functional Genomics and Proteomics & Bioinformatics** Chairs: Michalis Aivaliotis, Pantelis Topalis

09:30-09:45 **Comparative functional genomic analysis of two *Vibrio* phages reveals metabolic hijacking of the host cell**

Dimitrios Skliros¹, Panos G. Kalatzis^{2,3}, Pantelis Katharios², Emmanouil Flemetakis¹

¹Laboratory of Molecular Biology, Department of Biotechnology, School of Food, Biotechnology and Development, Agricultural University of Athens

²Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research, Heraklion, Crete, Greece

³Marine Biological Section, University of Copenhagen, Helsingør, Denmark

09:45-10:00 **Transcriptomic analysis of *Zymomonas mobilis* under SOS induction**
Giannis Savvakis, Katherine M. Pappas

Department of Genetics and Biotechnology, Faculty of Biology, School of Sciences, National and Kapodistrian University of Athens, Athens, Greece

10:00-10:15 **Identification of EIF3D as potential target affecting bladder cancer progression**

Marika Mokou^{1,2}, Agnieszka Latosinska^{1,3}, Manousos Makridakis¹, William Mullen⁴, Harald Mischak^{3,4}, Maria Roubelakis², Antonia Vlahou¹

¹Biotechnology Laboratory, Centre of Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece

²Laboratory of Biology, University of Athens, School of Medicine, Athens, Greece

³Mosaiques Diagnostics GmbH, Hannover, Germany

⁴BHF Glasgow Cardiovascular Research Centre, University of Glasgow, Glasgow, UK

10:15-10:30 **Mitochondria and the brain: Insights from the -omics world**
Michaela D. Filiou

Department Stress Neurobiology and Neurogenetics, Max Planck Institute of Psychiatry, Munich, Germany

10:30-11:00 **LECTURE 1:** **DIANA microRNA tools: In silico analysis of miRNAs towards identification of biomarkers**

Artemis G. Hatzigeorgiou

Department of Electrical and Computer Engineering, University of Thessaly, Volos, Greece

11:00-11:15 **Network analysis and regularized regression modeling identifies key regulatory molecular events underlying hepatocellular carcinoma dedifferentiation**

Panagiotis Mokos¹, Fotis E. Psoomopoulos^{2,3}, Chrysanthi Ainali⁴, Anagnostis Argiriou³, Alexandra Charalampidou⁵, Margarita Hadzopoulou-Cladaras¹, Dimitra Dafou¹

¹Department of Genetics Development and Molecular Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece

²Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece

³Institute of Applied Biosciences, Center for Research & Technology Hellas, Thessaloniki, Greece

⁴Department of Informatics, School of Natural and Mathematical Sciences, King's College London, London, UK

⁵Information Technology (IT) Center, Aristotle University of Thessaloniki, Thessaloniki, Greece

11:15-11:30 **The complex evolutionary history of aminoacyl-tRNA synthetases**

Anargyros Chaliotis¹, Panayiotis Vlastaridis¹, Dimitris Mossialos¹, Michael Ibbas², Hubert Becker³, Constantinos Stathopoulos⁴, Grigoris D. Amoutzias¹

¹Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece

²Department of Microbiology, The Ohio State University, Columbus, Ohio, USA

³Institut de Physiologie et de Chimie Biologique (IPCB), Université de Strasbourg, Strasbourg Cedex, France

⁴Department of Biochemistry, School of Medicine, University of Patras, Patra, Greece

11:30-12:00 **Coffee Break & Poster Viewing**

12:00-14:15 **SESSION 2:**
Epigenetics and Regulation of Gene Expression & RNA Biology
 Chairs: Constantinos Stathopoulos, Grigoris Amoutzias

12:00-12:30 **LECTURE 2**
Nuclear architecture as the highest level of epigenetic regulation

Frank O. Fackelmayer

Laboratory for Epigenetics and Chromosome Biology, IMBB-FORTH, Department of Biomedical Research, University Campus, Ioannina, Greece

12:30-12:45 **Profiling PROTEIN arginine methylation during myoblast differentiation using SILAC proteomics**

Nikolaos Papanikolaou^{1,2}, Min-Sik Kim², Sartaj Ahmad Mir², Raiha Tahir², Akhilesh Pandey²

¹*Aristotle University of Thessaloniki, Thessaloniki, Greece*

²*Johns Hopkins University School of Medicine, Baltimore, USA*

12:45-13:00 **Meta-analysis of RNA-sequencing data implicates altered global RNA editing profiles in Alzheimer's Disease patients**

Athanasios Dimitriadis¹, Georgios Sideris-Lampretsas¹, Eirini Kanata¹, Dimitra Dafou², Theodoros Sklaviadis¹

¹*Prion Diseases Research Group, School of Health Sciences, Department Of Pharmacy, Aristotle University of Thessaloniki, Greece*

²*Laboratory of Developmental Biology, Department of Genetics, Development and Molecular Biology, School of Biology, Aristotle University of Thessaloniki, Greece*

13:00-13:15 **Computational epigenetics of histone H3: MD studies of combinatorial modification patterns on the H3 tail**

Georgios Papamokos^{1,3,4,6}, Georgios Tziatzios², Dimitrios Papageorgiou², Spyros Georgatos^{3,5}, Efthimios Kaxiras^{4,6}, Anastasia S. Politou^{1,3}

¹*Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Ioannina, Greece*

²*Department of Materials Science, University of Ioannina, Ioannina, Greece*

³*Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Crete*

⁴*Department of Physics, Harvard University, Boston MA, USA*

⁵*Laboratory of General Biology, Department of Medicine, University of Ioannina, Ioannina, Greece*

⁶*Institute of Materials, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland*

13:15-13:45 **LECTURE 3**
H4K20 monomethylation controls of hepatic metabolic pathways by facilitating RNA Pol-II release from promoter regions

Iannis Talianidis

Biomedical Sciences Research Center Al. Fleming, Vari, Greece

13:45-14:00 **Mammalian PNLDC1 is a novel poly(A) specific exonuclease with discrete expression during early development**

Dimitrios Anastasakis¹, Ilias Skeparnias¹, Athanasios-Nasir Shaukat¹, Katerina Grafanaki¹, Alexandra Kanellou², Stavros Taraviras², Dionysios Papachristou³, Athanasios Papakyriakou⁴, Constantinos Stathopoulos¹

¹*Department of Biochemistry, School of Medicine, University of Patras, Greece*

²*Department of Physiology, School of Medicine, University of Patras, Greece*

³*Department of Anatomy, Histology and Embryology, School of Medicine, University of Patras, Greece*

⁴*Laboratory of Chemical Biology, National Centre for Scientific Research "Demokritos", Athens, Greece*

14:00-14:15 **Epigenetic alterations regulate the functional properties of breast cancer cells with different estrogen receptor status**

Zoi Piperigkou^{1,2}, Martin Götte², Nikos K. Karamanos¹

¹*Biochemistry, Biochemical Analysis & Matrix Pathobiology Research Group, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Patras, Greece*

²*Department of Gynecology and Obstetrics, University Hospital, Münster, Germany*

14:15-14:45 SPONSORED LECTURE



Livio Loffarelli, *ThermoFisher Scientific*

CRISPR gene editing: From high-throughput screening to disease models

14:45-16:15 Poster Viewing (Poster Session I)

**16:15-18:00 SESSION 3:
 DNA Damage and Repair & Ageing**

Chairs: Vassilis Gorgoulis, Zoi Lygerou

**16:15-17:00 LECTURE 4
 EMBO Young Investigator Lecture
 Spatial organization of DNA repair within the nucleus**

Evi Soutoglou

Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC), CU de Strasbourg, France

17:00-17:15 Alternative lengthening of human telomeres is a conservative DNA replication process with features of break-induced replication

Fani-Marlen Roumelioti¹, Sotirios Sotiriou², Vasiliki Katsini¹, Maria Chiourea¹, Thanos Halazonetis², Sarantis Gagos¹

¹Laboratory of Genetics, Center of Experimental Medicine and Translational Research, Biomedical Research Foundation of the Academy of Athens, Greece (BRFAA)

²Department of Molecular Biology, University of Geneva, Switzerland

17:15-17:30 Live cell imaging reveals protein-protein interactions and modifications regulating Cdt1 proteolysis

Nikolaos Nikiforos Giakoumakis¹, Andreas Panagopoulos¹, Hideo Nishitani², Stavros Taraviras³, Zoi Lygerou¹

¹Department of General Biology, School of Medicine, University of Patras, Patras, Greece

²Graduate School of Life Sciences, University of Hyogo, Hyogo, Japan

³Department of Physiology School of Medicine, University of Patras, Patras, Greece

17:30-17:45 Robust, universal biomarker assay to detect senescent cells in biological specimens

Konstantinos Evangelou¹, Nikolaos Lougiakis², Sophia Rizou¹, Athanassios Kotsinas¹, Panagiotis Galanos¹, Dimitris Kletsas³, Paul Townsend⁵, Manuel Serrano⁴, Jiri Bartek^{6,7,8}, Vassilis G. Gorgoulis^{1,5,9}

¹Molecular Carcinogenesis Group, Department of Histology and Embryology, Medical School, National and Kapodistrian University of Athens, Athens, Greece

²Department of Pharmaceutical Chemistry, Faculty of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece

³Laboratory of Cell Proliferation and Ageing, Institute of Biosciences and Applications, National Centre for Scientific Research “Demokritos”, Athens, Greece

⁴Tumor Suppression Group, Molecular Oncology Program, Spanish National Cancer Centre (CNIO), Madrid, Spain

⁵Faculty Institute for Cancer Sciences, Manchester Academic Health Sciences Centre, University of Manchester, Manchester, UK

⁶Danish Cancer Society Research Center, Copenhagen, Denmark

⁷Institute of Molecular and Translational Medicine, Faculty of Medicine and Dentistry, Palacky University, Hrvotinská, Olomouc, Czech Republic

⁸Department of Medical Biochemistry and Biophysics, Science For Life Laboratory, Division of Translational Medicine and Chemical Biology, Karolinska Institute, Stockholm, Sweden

⁹Biomedical Research Foundation, Academy of Athens, Athens, Greece

17:45-18:00 Acute and delayed protection mechanisms offered by natural compounds against oxidative stress-induced damage to basic cellular components

Paraskevi Gerogianni, Dimitrios Prymidis, Dimitrios Galaris

Laboratory of Biological Chemistry, Faculty of Medicine, Health Sciences School, University of Ioannina, Ioannina, Greece

18:00-18:30 Coffee Break & Poster Viewing

18:30-20:30 **Opening Ceremony and Lectures**
Chairs: Dimitris Kletsas, Stathis Frilingos

18:30-19:00 *Opening Ceremony - Welcome Addresses*

19:00-19:45 **LECTURE 5**
It takes two to tango: structure/function studies yield a mechanism for symport

H. Ronald Kaback

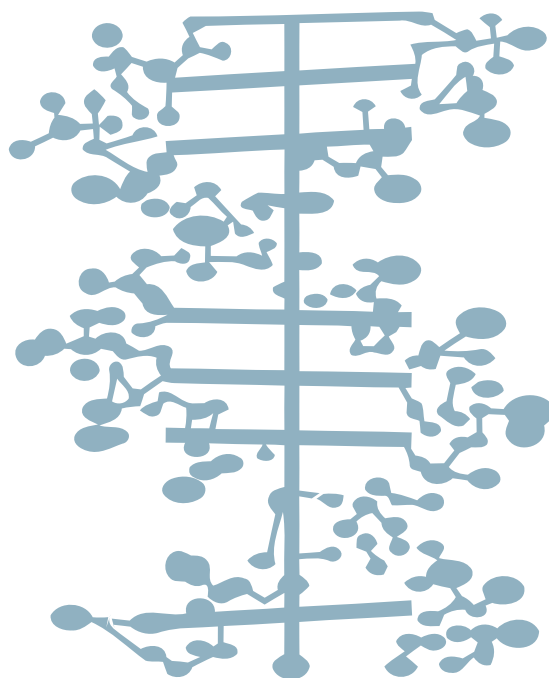
Department of Physiology, Department of Microbiology, Immunology & Molecular Genetics, Molecular Biology Institute, University of California Los Angeles, Los Angeles, CA

19:45-20:30 **LECTURE 6**
Molecular mechanisms of endosome tethering and fusion

Marino Zerial

Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany

20:30 *Welcome Cocktail and Buffet*



Saturday, 26th November 2016

**09:00-11:15 SESSION 4:
 Structure and Function of Macromolecules**
Chairs: Georgios Spyroulias, Haralabia Boleti

09:00-09:15 Detection and characterization of heme binding proteins (HeBiPr) involved in the intracellular heme trafficking network (IHeTN) in human leukemia cells
Vasiliki Dimitra C. Tsolaki¹, Sofia K. Georgiou¹, Martina K. Samiotaki², George Panayotou², Asterios S. Tsiftoglou¹

¹Laboratory of Pharmacology, Department of Pharmacy, School of Health Sciences, Aristotle University of Thessaloniki (A.U.Th.), Thessaloniki, Greece

²B.S.R.C. "Alexander Fleming" Vari, Attiki, Greece

09:15-09:30 Synergistic effect of peptide inhibitors derived from the extracellular and intracellular domain of α_{IIb} subunit of integrin $\alpha_{IIb}\beta_3$ on platelet activation and aggregation
Alexia V. Gkourogianni¹, Klytaimnistra Kiouptsi¹, Vassiliki Koloka¹, Vassilios Moussis¹, Vassilios Tsikaris¹, Christilla Bachelot-Loza^{2,3}, Demokritos Tsoukatos¹

¹Department of Chemistry, Sector Of Organic Chemistry and Biochemistry, University of Ioannina, Ioannina, Greece

²Université Paris Descartes, Sorbonne Paris Cité, Paris, France

³INSERM UMR S1140, Faculté de Pharmacie, Paris, France

09:30-09:45 Protein glycosylation in immune and cancer cells
Aristotelis Antonopoulos

Department of Life Sciences, Imperial College London, UK

09:45-10:00 Insights on the conformational properties of *Venezuelan equine encephalitis virus*' macro domain by solution NMR spectroscopy
Garyfallia I. Makrynitsa¹, Dioni Ntonti¹, Konstantinos D. Marousis¹, Aikaterini C. Tsika¹, Julie Lichière², Nicolas Papageorgiou², Bruno Coutard², Detlef Bentrop³, Georgios A. Spyroulias¹

¹Department of Pharmacy, University of Patras, Patras, Greece

²AFMB UMR 7257, CNRS/Aix Marseille Université, Marseille, France

³Institute of Physiology II, University of Freiburg, Freiburg, Germany

**10:00-10:30 LECTURE 7
 Acoustic wave devices: an emerging tool for biophysical studies and molecular diagnostics**

Electra Gizeli

Institute of Molecular Biology and Biotechnology - Foundation for Research and Technology Hellas, Heraklion Crete, Greece & Department of Biology, University of Crete, Vassilika Vouton, Heraklion Crete, Greece

10:30-10:45 Development of oil-in-water microemulsions as carriers of bioactive compounds - Biological applications
Ioanna Theochari, Vassiliki Pletsa, Demetris Papahatjis, Panagiotis Zoumpoulakis, Vassiliki Papadimitriou, Aristotelis Xenakis

Institute of Biology, Medicinal Chemistry & Biotechnology, National Hellenic Research Foundation, Athens, Greece

**10:45-11:15 LECTURE 8
 Eukaryotic transporters and the paradigm of UapA: all the way through, from genetics to function to structure and back**

George Diallinas

Department of Biology, National and Kapodistrian University of Athens, Panepistimioupolis, Athens, Greece

11:15-11:45 Coffee Break & Poster Viewing

11:45-14:15 **SESSION 5:**
Cellular Organization and Function & Cellular Communication and Signaling
 Chairs: Dimitris Kardassis, George Simos

11:45-12:30 **LECTURE 9**
Protein secretion: from orchestrated disorder to dynamic machines

Anastassios Economou

KU Leuven, Department of Microbiology and Immunology, Rega Institute, Belgium

12:30-12:45 **Endocytic trafficking and signalling of Activin A/receptor complexes in pluripotency and differentiation**

Nikoleta Kostopoulou^{1,2}, Sofia Bellou^{1,3}, Eleni Bagli¹, Giannis Kalaintzidis⁴, Marko Hyvonen⁵, Angelos Papadopoulos⁶, Athena Kyrkou¹, Dimitrios Kouroupis¹, Theodore Fotsis^{1,2}, Carol Murphy⁶

¹*Foundation of Research and Technology-Hellas, Institute of Molecular Biology & Biotechnology - Department of Biomedical Research, University Campus, Ioannina, Greece*

²*Laboratory of Biological Chemistry, Medical School, University of Ioannina, Greece*

³*Department of Engineering Informatics and Telecommunications, University of Western Macedonia, Kozani, Greece*

⁴*Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany*

⁵*Department of Biochemistry, University of Cambridge, UK*

⁶*School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, United Kingdom*

12:45-13:00 **Endocytic routes in control of VEGFR2 function: Protection of the receptor and regulation of signaling**

Dimitris Basagiannis^{1,2}, Sofia Zografou¹, Carol Murphy^{1,3}, Theodore Fotsis^{1,2}, Lucia Morbidelli⁴, Marina Ziche⁴, Christopher Bleck⁵, Jason Mercer⁶, Savvas Christoforidis^{1,2}

¹*Institute of Molecular Biology and Biotechnology-Biomedical Research, Foundation for Research and Technology, Ioannina, Greece*

²*Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Ioannina, Greece*

³*School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston, Birmingham, UK*

⁴*Department of Life Sciences, University of Siena, Siena, Italy*

⁵*Institute of Biochemistry, Zurich, Switzerland*

⁶*MRC-Laboratory for Molecular Cell Biology, University College London, London, UK*

13:00-13:15 **Cyclic tensile stress stimulates mitogen-activated protein kinases in human annulus fibrosus cells leading to up-regulation of pro-inflammatory gene expression**

Harris Pratsinis¹, Adamantia Papadopoulou¹, Cornelia Neidlinger-Wilke², Marco Brayda-Bruno³, Hans-Joachim Wilke², Dimitris Kletsas¹

¹*Laboratory of Cell Proliferation & Ageing, Institute of Biosciences & Applications, NCSR “Demokritos”, Athens, Greece*

²*Institute of Orthopaedic Research and Biomechanics, Centre of Musculoskeletal Research, University of Ulm, Baden-Württemberg, Germany*

³*Department of Orthopedics and Traumatology e Vertebral Surgery III e Scoliosis, I.R.C.C.S. Istituto Ortopedico Galeazzi, Milano, Italy*

13:15-13:30 **A microarray screen identifies novel TGFβ-regulated long non-coding RNAs**

Panagiotis Papoutsoglou¹, Carl-Henrik Heldin¹, Aristidis Moustakas^{1,2}

¹*Ludwig Cancer Research, Science for Life Laboratory, Uppsala University, Uppsala, Sweden*

²*Department of Medical Biochemistry and Microbiology, Science for Life Laboratory, Uppsala University, Uppsala, Sweden*

13:30-13:45 **Phosphorylation by CK1δ promotes the nuclear accumulation of HIF-2α by blocking its CRM1- dependent nuclear export**

Evanthia Pangou¹, Christina Befani¹, Ilias Mylonis¹, Martina Samiotaki², George Panayotou², George Simos¹, Panagiotis Liakos¹

¹*Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Larissa, Greece*

²*Protein Chemistry Laboratory, Biomedical Sciences Research Center “Alexander Fleming,” Vari, Greece*

13:45-14:00 Regulation of expression and functional analysis of *Drosophila* Hey, a bHLH-O transcription factor that is activated by Notch signaling

Maria Monastirioti¹, Ioanna Koltzaki^{1,2,3}, Nikos Batsiotos², Ioanna Pitsidianaki^{1,2}, Christos Delidakis^{1,2}

¹Institute of Molecular Biology & Biotechnology, FORTH, Heraklion, Greece

²Department of Biology, University of Crete, Heraklion, Greece

³Current address: Johannes Gutenberg-Universität Mainz, Institute of Genetics Mainz, Rhineland-Palatinate, Germany

14:00-14:15 Novel ERH-SAFB1/2 interaction corroborates their role in splicing

Sotiria Drakouli, Maria Papathanassiou, Aggeliki Lyberopoulou, Ilias Mylonis, Eleni Georgatsou

Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Larissa, Greece

14:15-14:45 SPONSORED LECTURE

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14:45-16:15 Poster Viewing (Poster Session II)

14:45-16:15 General Assembly of HSBMB

16:15-19:00 SESSION 6:
Molecular and Cellular Basis of Human Disease I : Cancer
 Chairs: Evangelia Papadimitriou, George Mosialos

16:15-16:45 LECTURE 10
 The role of mutant KRAS in malignant pleural disease

Georgios T. Stathopoulos

Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras; Rio, Achaia, Greece; and Comprehensive Pneumology Center (CPC) and Institute for Lung Biology and Disease (iLBD), University Hospital, Ludwig-Maximilians University and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL); Munich, Bavaria, Germany

16:45-17:00 Receptor protein tyrosine phosphatase beta/zeta has a significant role in regulating lung carcinogenesis *in vivo*

Penelope Castana¹, Antonia Marazioti², Sofia Nikou³, Eleni Papadaki³, George T. Stathopoulos², Evangelia Papadimitriou¹

¹Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece

²Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio, Greece

³Department of Anatomy, University of Patras, School of Medicine, Patras, Greece

17:00-17:15 Evaluation of microtentacles on Circulating Tumor Cells (CTCs): Identification of the interaction between CTCs and blood cells through cytoskeletal elements

Galatea Kallergi^{1,3}, Stuart S. Martin², Panagiotis Katsarlinos¹, Christos Stournaras³, Vassilis Georgoulas¹

¹Laboratory of Tumor Cell Biology, School of Medicine, University of Crete, Heraklion, Greece

²Marlene and Stewart Greenebaum Cancer Center, School of Medicine, Department of Physiology, University of Maryland, Baltimore, Maryland, USA

³Department of Biochemistry, School of Medicine, University of Crete, Heraklion, Greece

17:15-17:45 LECTURE 11
 Epigenetic regulators and epithelial tumorigenesis

Apostolos Klinakis

Center for Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece

17:45-18:00 Identification of Drivers of Growth as Potential Tumor Suppressor Genes via Genome Wide CRISPR/Cas9 Knockout Screens
Alexandros P. Drainas, Theocharis Efthymiopoulos, Sebastian Wazsak, Mike Smith, Adrian Stütz, Benjamin Raeder, Ruxandra A. Lambuta, Christopher Buccitelli, Balca R. Mardin, Jan O. Korbel
European Molecular Biology Laboratory (EMBL), Genome Biology Unit, Heidelberg, Germany

18:00-18:15 Poly(A) polymerase alpha involvement in alternative polyadenylation of Cyclin D1 mRNA in breast cancer cells
Chrysoula Komini, Theoni Trangas
Biochemistry Lab., Department of Biological Applications and Technologies, University of Ioannina, Greece

18:15-18:30 A possible implication of heparan sulfate proteoglycans in the activation of Wnt/ β catenin pathway in ER α -suppressed breast cancer cells
Theodoros Karalis, Nikos K. Karamanos, Spyros Skandalis
Biochemistry, Biochemical Analysis & Matrix Pathobiology Research Group, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece

18:30-19:00 **LECTURE 12**
 Immunotherapeutic strategies for induction of protective tumor-specific immune responses in mice

Katerina Chlichlia

Laboratory of Molecular Immunology, Department of Molecular Biology and Genetics, Democritus University of Thrace, University Campus - Dragana, Alexandroupolis, Greece

19:00-19:35 Coffee Break & Poster Viewing

19:30-20:30 **SESSION 7:**
Molecular and Cellular Basis of Human Disease II
 Chairs: Vassiliki Kostourou, Nikos K. Karamanos

19:30-19:45 Galectin-3 affects fibroblast homeostasis mediating cardiac fibrosis and dysfunction in a genetic heart failure model
Fani Vlachou¹, Aimilia E. Varela², Athanasia Apostolou¹, Maria Bellou¹, Costantinos H. Davos², Yassemi Capetanaki¹, Stelios Psarras¹
¹Center of Basic Research, Biomedical Research Foundation, Academy of Athens (BRFAA)
²Center of Clinical, Experimental Surgery and Translational Research, Biomedical Research Foundation, Academy of Athens (BRFAA)

19:45-20:00 Investigating the role of Talin 1 in the Systemic Capillary Leak Syndrome
Vasiliki Papadaki¹, Pinelopi Nikolopoulou¹, Danit Oz Levi², Doron Lancet², Vassiliki Kostourou¹
¹BSRC Alexander Fleming, Athens, Greece
²Department of Molecular Genetics Weizmann Institute of Science, Rehovot, Israel

20:00-20:15 Meta-analysis of Tourette Syndrome and Major Depressive Disorder genomewide datasets for the identification of a common genetic basis
Glykeria Gkoliou, Fotis Tsetsos, Iordanis Karagiannidis, Dimitrios Mantzaris, Peristera Paschou
Department of Molecular Biology and Genetics, Democritus University of Thrace, Greece

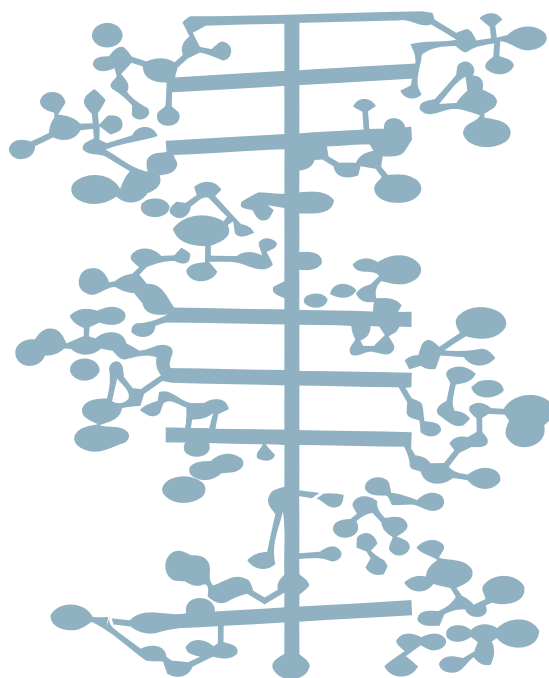
20:15-20:30 KLK6 proteolysis is implicated in regulation of the turnover and uptake of extracellular alpha-synuclein species
Georgios Pampalakis¹, Vasia-Samantha Sykioti², Methodios Ximerakis², Ioanna Stefanakou-Kalakou¹, Ronald Melki³, Kostas Vekrellis², Georgia Sotiropoulou^{1,2}
¹Department of Pharmacy, University of Patras, Greece
²Center for Neurosciences, Biomedical Research Foundation, Academy of Athens, Greece
³Paris-Saclay Institute of Neuroscience, Centre National de la Recherche Scientifique, Gif-Sur-Yvette, France

20:30-21:15 **Lecture Sponsored by EMBL Alumni Association**
Chair: Anastasia Politou

20:30-21:15 **LECTURE 13**
Lecture Sponsored by EMBL Alumni Association
Genome architecture in single human cells

Jop Kind

Hubrecht Institute, Developmental Biology and Stem Cell Research, Royal Netherlands Academy of Arts and Sciences, Utrecht, The Netherlands



Sunday, 27th November 2016

09:00-10:00 **SESSION 8:**
Molecular and Cellular Basis of Human Disease III
Chairs: Dionyssios Sgouras, Marilena Lekka

- 09:00-09:15** **Analysis of the transcript variants of 28 type-2 diabetes related genetic loci in human peripheral blood: correlation with laboratory and clinical features of the disease**
Ioanna K. Kokkinopoulou¹, Maria-Ioanna Christodoulou^{1,2}, Margaritis Avgeris¹, Eirini Maratou², Panagiota Mitrou², Euthimios Pappas², Eleni Boutati³, Andreas Scorilas¹, Sotirios A. Raptis², Emmanuel G. Fragoulis¹
¹Section of Biochemistry and Molecular Biology, Department of Biology, National and Kapodistrian University of Athens, Greece
²Hellenic National Center for Research, Prevention and Treatment of Diabetes Mellitus and its Complications (HNDC), Athens, Greece
³Second Department of Internal Medicine, National and Kapodistrian University of Athens, Attikon University Hospital, Athens, Greece
- 09:15-09:30** **Stress-induced protein REDD1 emerges as a novel mediator in the pathogenesis of familial Mediterranean fever**
Akrivi Chrysanthopoulou¹, Panagiotis Skendros^{1,2}, Konstantinos Kambas¹, Athanasios Arampatzioglou¹, Alexandros Mitsios¹, Iliana Angelidou¹, Theocharis Konstantinidis¹, Dimitrios Ritis¹, Ioannis Theodorou³, Konstantinos Ritis^{1,2}
¹Laboratory of Molecular Hematology, Department of Medicine, Democritus University of Thrace, Alexandroupolis, Greece
²First Department of Internal Medicine, Democritus University of Thrace, University General Hospital of Alexandroupolis, Alexandroupolis, Greece
³Université Pierre et Marie Curie, UF d'Histocompatibilité et Immunogénétique, Département d'Immunologie, Groupe Hospitalier Pitié Salpêtrière - Charles Foix
- 09:30-09:45** **Helicobacter pylori infection and study of matrix metalloproteinase-3 (MMP-3/stromelysin-1) expression in the gastric tissue of C57BL/6 mice**
Yiannis Karayiannis¹, Androniki Voulgari-Kokota¹, Beatriz Martinez-Gonzalez¹, Ioanna Sougleri¹, Kalliopi Petraki², Andreas Mentis¹, Dionyssios Sgouras¹
¹Laboratory of Medical Microbiology, Hellenic Pasteur Institute, Athens, Greece
²Department of Pathology, Metropolitan Hospital, Athens, Greece
- 09:45-10:00** **Mechanism of action of broadly effective inhibitors targeting hepaci- and flavivirus replication: Validation under liver normoxic conditions**
Efseveia Frakolaki¹, Panagiota Kaimou¹, Konstantinos Kelepouras¹, Erofilii Giannakopoulou², Vassilios Myrianthopoulos², Giorgos Niotis¹, Emmanuel Mikros², Ralf Bartenschlager^{3,4}, Penelope Mavromara^{1,5}, Grigoris Zoidis², Niki Vassilaki¹
¹Molecular Virology, Hellenic Pasteur Institute, Greece
²Faculty of Pharmacy, University of Athens, Greece
³Department of Infectious Diseases, Molecular Virology, University of Heidelberg, Germany
⁴German Center for Infection Research, Heidelberg University, Germany
⁵Department of Molecular Biology and Genetics, Democritus University of Thrace, Greece

10:00-11:30 **SESSION 9:**
Development and Differentiation
 Chairs: Dimitris Beis, Petros Marangos

10:00-10:15 Plant-specific protein LEFKOTHEA1 exhibits nucleo-cytoplasmic partitioning controlling embryo development
Gerasimos Daras, Stamatis Rigas, Anastastios Alatzas, Dimitris Chatzopoulos, Georgios Banilas, Polydefkis Hatzopoulos
Department of Biotechnology, Agricultural University of Athens, Athens, Greece

10:15-10:30 Involvement of the zebrafish homologs of SET/I2PP2A oncoprotein in the development of the lateral line system
Iliana Serifi^{1,2}, Eleni Tzima^{1,2}, Katerina Soupsana^{1,2}, Zoe Karetsou¹, Dimitris Beis³, Thomais Papamarcaki^{1,2}
¹Laboratory of Biological Chemistry, Medical School, University of Ioannina, Greece
²Division of Biomedical Research, Foundation for Research and Technology-Hellas, Institute of Molecular Biology and Biotechnology, Ioannina, Greece
³Developmental Biology, Biomedical Research Foundation Academy of Athens, Greece

10:30-10:45 BMP2/4 signaling prevents expression of *PI Coup-TF* in the dorsal ectoderm of the sea urchin *Paracentrotus lividus*
Periklis A. Paganos, Andriana I. Stamopoulou, Constantin N. Flytzanis
Department of Biology, University of Patras, Rio, Greece

10:45-11:00 Investigation of the role of Ring Finger Protein 113A (RNF113A) in neural stem cells
Christina Dimitriou¹, Danai K. Meri¹, Konstantinos Botsakis², Fevronia Angelatou², Marigoula Margarit³, Panagiotis K. Politis⁴, Ilias Kazanis^{1,5}
¹Laboratory of Developmental Biology, Department of Biology, University of Patras, Patras, Greece
²Laboratory of Physiology, Department of Medicine, University of Patras, Patras, Greece
³Laboratory of Human and Animal Physiology, Department of Biology, University of Patras, Patras, Greece
⁴Center for Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
⁵Wellcome Trust-MRC Cambridge Stem Cell Institute, University of Cambridge Cambridge, UK

11:00-11:15 miR-934 is a novel regulator of early human neurogenesis
Kanella Prodromidou¹, Ioannis Vlachos², Georgia Kouroupi¹, Maria Gaitanou¹, Era Taoufik¹, Artemis G. Hatzigeorgiou², Rebecca Matsas¹
¹Laboratory of Cellular and Molecular Neurobiology, Hellenic Pasteur Institute, Athens, Greece
²Diana Lab, Hellenic Pasteur Institute, Athens, Greece

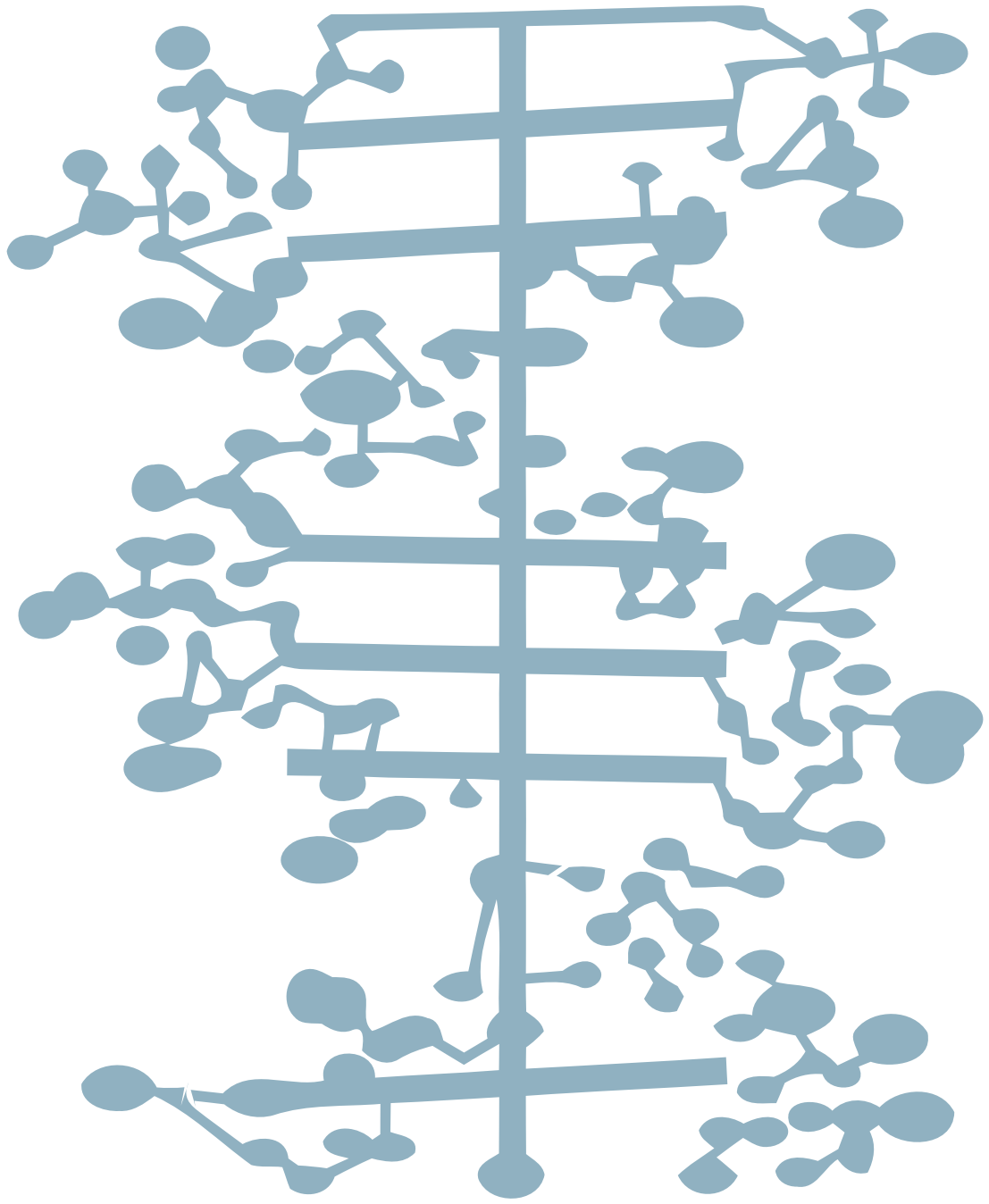
11:15-11:30 Deletion of Geminin from naive neural stem cells results in microcephaly
Argiro Kalogeropoulou¹, Alexandra Patmanidi¹, Paraskevi Tserou¹, Zoi Lygerou², Stavros Taraviras¹
¹Department of Physiology, School of Medicine, Patras University, Patras, Greece
²Department of General Biology, School of Medicine, Patras University, Patras, Greece

11:30-12:00 Coffee Break & Poster Viewing

12:00-14:15 **SESSION 10:**
Stem Cells, & Tissue Morphogenesis and Regeneration
 Chairs: Stavros Taraviras, Panos Kouklis

12:00-12:45 **LECTURE 14**
 Asymmetric spindle, asymmetric signaling endosomes, asymmetric division
Marcos Gonzalez Gaitán
Department of Biochemistry, Faculty of Sciences, University of Geneva, Geneva, Switzerland

- 12:45-13:00** **Increased dosage of LBR limits the dynamic range of Nanog fluctuations and downregulates Zscan4 in mouse embryonic stem cells**
Ioannis Giannios^{1,2}, Katerina Soupsana^{1,3}, Eleutheria Chatzantonaki^{1,2}, Panagiotis Karakaidos^{1,2}, Dimitrios Stellas⁴, Apostolos Klinakis⁴, Anastasia S. Politou^{1,3}, Spyros Georgatos^{1,2}
¹Stem Cell and Chromatin Group, The Institute of Molecular Biology and Biotechnology, Biomedical Division, FORTH-ITE, Greece
²The Laboratory of Biology, University of Ioannina, School of Medicine, Ioannina, Greece
³The Laboratory of Biological Chemistry, University of Ioannina, School of Medicine, Ioannina, Greece
⁴Biomedical Research Foundation, Academy of Athens, Athens, Greece
- 13:00-13:15** **Sox2: To crest or not to crest**
Nikolaos Panagiotis Mandalos^{1,2}, Eumorphia Remboutsika^{1,2,3}
¹National University of Athens Medical School, Department of Pediatrics, Athens, Greece
²Stem Cell Biology Laboratory, Biomedical Sciences Research Centre “Alexander Fleming”, Vari-Attica, Greece
³Adjunct Faculty, The Lieber Institute for Brain Development, Basic Sciences Division, Johns Hopkins Medical Campus, Baltimore, USA
- 13:15-13:30** **Induced pluripotent stem cells strategies to model Alzheimer’s disease**
Vasiliki Machairaki
 Division of Neuropathology, Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, Maryland
- 13:30-13:45** **Stress hormone CRH is a positive regulator of hippocampal neural stem cells activity and their responsiveness to environmental stimuli**
Yassemi Koutmani¹, Ioannis A. Gampierakis¹, Alexia Polissidis¹, Methodios Ximerakis², Lee L. Rubin², Alexander Polyzos³, George Agrogiannis⁴, Efstratios Patsouris⁴, Panagiotis K. Politis³, Katia P. Karalis^{1,5}
¹Center of Clinical Research, Experimental Surgery and Translational Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
²Department of Stem Cell and Regenerative Biology, Harvard Stem Cell Institute, Harvard University, Cambridge, USA
³Center of Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
⁴Department of Pathology, University of Athens Medical School, Athens, Greece
⁵Endocrine Division, Children’s Hospital, Harvard Medical School, Boston, USA
- 13:45-14:00** **Generation of mural cells from human pluripotent stem cells**
Maria Markou^{1,4}, Dimitrios Kouroupis¹, Dimitrios Stellas², Carol Murphy^{1,3}, Theodore Fotsis^{1,3,4}, Eleni Bagli^{1,5}
¹Division of Biomedical Research, Institute of Molecular Biology and Biotechnology - FORTH, Ioannina, Greece
²Department of Cancer Biology of the Biomedical Research Foundation of the Academy of Athens, Athens Greece
³School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston, Birmingham, U.K.
⁴Laboratory of Biological Chemistry, Medical School, University of Ioannina, Ioannina, Greece
⁵Department of Ophthalmology, University of Ioannina, Ioannina, Greece
- 14:00-14:15** **Isolation of a novel cardiovascular multipotent cell population during ESC differentiation**
Violetta A. Maltaba^{1,2}, Eleonora Barka³, Marianthi Kontonika^{4,5}, Dimitra Florou¹, Maria Kouvara-Pritsouli¹, Maria Roumpi³, Simeon Agathopoulos³, Theofilos M. Kolettis^{4,5}, Panos Kouklis^{1,2}
¹Laboratory of Biology, Medical School, University of Ioannina, Greece
²Department of Biomedical Research, Institute of Molecular Biology & Biotechnology, Foundation of Research and Technology-Hellas, University Campus, Ioannina, Greece
³Ceramics and Composites Laboratory, Department of Materials Science and Engineering, University of Ioannina, Greece
⁴Department of Cardiology, University of Ioannina Medical School, Ioannina, Greece
⁵Cardiovascular Research Institute, Ioannina and Athens, Greece
- 14:30-15:00** *Closing Ceremony - Prize Awards*
 Chairs: Dimitris Kletsas, Stathis Frilingos





POSTERS

67th 
Panhellenic Conference of the
Hellenic Society for Biochemistry
and Molecular Biology (HSBMB)

25-27
November 2016

“Karolos Papoulias” Conference Center
University of Ioannina, Ioannina

Functional Genomics and Proteomics

- P001** Estimating the total number of phosphoproteins and phosphorylation sites in eukaryotic proteomes
Panayiotis Vlastaridis¹, Pelagia Kyriakidou¹, Anargyros Chaliotis¹, Yves Van de Peer², Steve G. Oliver³, Grigoris D. Amoutzias¹
¹Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece
²Department of Plant Biotechnology and Bioinformatics, VIB, Ghent University, Ghent, Belgium
³Cambridge Systems Biology Centre & Department of Biochemistry, University of Cambridge, Cambridge, UK
- P002** Secreted proteins from the prothoracic glands of *Bombyx mori*: An exemplary paradigm for steroidogenic cells
Maria Farmakori¹, Martina Samiotaki², George Panayotou², Skarlatos Dedos¹
¹Department of Biology, National and Kapodistrian University of Athens, Athens, Greece
²Biomedical Sciences Research Center 'Alexander Fleming', Vari, Greece
- P003** The role of reactivated-p53 on the bio-energetic proteomic signature of human lymphoma subtypes
Konstantina Psatha^{1,2}, Laxmikanth Kollipara³, Chrysanthi Voutyraki⁴, Peter Divanach⁴, Albert Sickmann³, George Z. Rassidakis^{2,5}, Elias Drakos⁶, Michalis Aivaliotis¹
¹Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece
²1st Department of Pathology, School of Medicine, National and Kapodistrian University of Athens, Athens, Greece
³Leibniz- ISAS, e.V., Dortmund, Germany
⁴Department of Chemistry, University of Crete, Heraklion, Greece
⁵Department of Pathology and Cytology, Karolinska University Hospital and Karolinska Institute, Radiumhemmet, Stockholm, Sweden
⁶Department of Pathology, School of Medicine, University of Crete, Heraklion, Greece
- P004** Comparative analysis of the membrane proteome of Hodgkin and non-Hodgkin lymphoma cells after Nutlin-3a-p53-activation
Konstantina Psatha^{1,2}, Laxmikanth Kollipara³, Aikaterini Vasileiadou⁴, Albert Sickmann³, George Z. Rassidakis^{2,5}, Elias Drakos⁶, Michalis Aivaliotis¹
¹Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece
²1st Department of Pathology, School of Medicine, National and Kapodistrian University of Athens, Athens, Greece
³Leibniz- ISAS, e.V., Dortmund, Germany
⁴Department of Chemistry, University of Crete, Heraklion, Greece
⁵Department of Pathology and Cytology, Karolinska University Hospital and Karolinska Institute, Radiumhemmet, Stockholm, Sweden
⁶Department of Pathology, School of Medicine, University of Crete, Heraklion, Greece
- P005** Classification of lymphoma subtypes using comparative proteomic analysis
Georgia-Ioanna Kontogianni¹, Maria-Anna Kalioraki¹, Konstantina Psatha², Elias Drakos³, Michalis Aivaliotis²
¹Department of Chemistry, University of Crete, Heraklion, Greece
²Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece
³Department of Pathology, School of Medicine, University of Crete, Heraklion, Greece
- P006** The transcription of Apetala in conjunction with genes coding for crucial enzymes of the sucrose biosynthesis (UGPase and SPS) in pomegranate buds and flowers
Konstantinos Meletis¹, Georgios Tsaniklidis², Georgios Aivalakis², Stavros Vemmos¹
¹Agricultural University of Athens, Laboratory of Pomology, Athens, Greece
²Agricultural University of Athens, Laboratory of Plant Physiology and Morphology, Athens, Greece
- P007** Enzyme activity of Phenylalanine ammonia lyase (PAL) and accumulation of total phenolics in tomatoes stored at different postharvest temperatures
Konstantinos Meletis¹, Georgios Tsaniklidis²
¹Agricultural University of Athens, Laboratory of Pomology, Athens, Greece
²Agricultural University of Athens, Laboratory of Plant Physiology and Morphology, Athens, Greece
- P008** Transcriptional study of genes involved in catabolic degradation pathways of aromatic compounds in *Arthrobacter phenanthrenivorans* Sphe3
Stamatia Asimakoula, Elpiniki Vandera, Anna-Irini Koukkou
 Sector of Organic Chemistry and Biochemistry, Department of Chemistry, University of Ioannina, Ioannina, Greece

- P009** Genetic association study of the signal transducer and activator of transcription-4 in Myasthenia gravis and expression analysis in thymic tissues of thymoma-associated Myasthenia gravis patients
Zoi Zagoriti¹, Gianluca Perroni², Andreas Papadakis¹, George Papathanasiou¹, Irini Zisi¹, Vincenzo Ambrogi², John S. Tzartos³, Konstantinos Poulas¹
¹Laboratory of Molecular Biology and Immunology, Department of Pharmacy, School of Health Sciences, University of Patras, University Campus, Rio, Patras, Greece
²Thoracic Surgery Division and Department of Thoracic Surgery, Policlinico Tor Vergata University, Rome, Italy
³Hellenic Pasteur Institute, Athens, Greece
- P010** Investigation of T-Cell oxidative stress response to exogenous (H₂O₂) or endogenous (genetic mutations) redox stimuli using a combined proteomics approach
 George Mermelekas^{1,3}, Liselotte Bäckdahl^{2,3}, Manousos Makridakis¹, Vasiliki Bitsika¹, Vasiliki Lygirou¹, Georgia Kontostathi¹, Antonia Vlahou^{1,3}, Rikard Holmdahl^{2,3}
¹Biomedical Research Foundation of the Academy of Athens (BRFAA), Department of Proteomics, Athens, Greece
²Karolinska Institute, Department of Medical Biochemistry and biophysics, Stockholm, Sweden
³Shared first and senior authorships
- P011** Erythropoietic transcription factors networks in beta-thalassemia
 Chrisavgi Toumpeki^{1,*}, Giorgos Giagkas^{1,*}, Aikaterini Nanou^{1,*}, Konstantinos Vougas¹, Nicoletta Bianchi², Lucia Carmela Cosenza², Roberto Gambari², Eleni Katsantoni¹
¹Basic Research Center, Biomedical Research Foundation, Academy of Athens, Athens, Greece
²Department of Life Sciences and Biotechnology, Ferrara University, Ferrara, Italy
^{*}equal contribution
- P012** High sensitivity analysis of cervical cancer cell lines total proteome in comparison to normal cervical keratinocytes for the investigation of cervical cancer pathogenesis
Georgia Kontostathi^{1,2}, Vasiliki Lygirou^{1,2}, Jerome Zoidakis¹, Manousos Makridakis¹, Antonia Vlahou¹, Nicholas P. Anagnou^{2,3}, Kalliopi I. Pappa^{3,4}
¹Biotechnology Laboratory, Centre of Basic Research, Biomedical Research Foundation of the Academy of Athens (BRFAA), Athens, Greece
²Laboratory of Biology, University of Athens School of Medicine, Athens, Greece
³Cell and Gene Therapy Laboratory, Centre of Basic Research II, Biomedical Research Foundation of the Academy of Athens (BRFAA), Athens, Greece
⁴First Department of Obstetrics and Gynecology, University of Athens School of Medicine, Athens, Greece
- P013** Comparative functional genomic investigation of bacterial arylamine *N*-acetyltransferases
 Vasiliki Garefalaki¹, Kyriaki Zourlantoni¹, Olga Savvidou¹, Ioannis Olbasalis¹, Tamás Felföldi², Károly Máriaiget², Giannoulis Fakis¹, Sotiria Boukouvala¹
¹Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece
²Department of Microbiology, Faculty of Science, Eötvös Loránd University of Budapest, Budapest, Hungary
- P014** NMR-based metabolomics of cotreatment of doxorubicin (DXR) with oleuropein in human osteoblasts
Anastasia Papachristodoulou^{1,3}, Dimitra Benaki³, Nektarios Aligiannis², Alexios-Leandros Skaltsounis², Emmanuel Mikros³, Roxane Tenta¹
¹School of Health Sciences and Education, Department of Nutrition and Dietetics, Harokopio University, Athens, Greece
²Faculty of Pharmacy, Department of Pharmacognocny, Panepistimiopolis University of Athens, Athens, Greece
³Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Panepistimiopolis University of Athens, Athens, Greece
- P015** Microbial arylamine *N*-acetyltransferases: Tracing the evolutionary history and functional diversity of a xenobiotic-metabolizing enzyme family
Evanthia Kontomina, Dionysios Patriarcheas, Charalampos Ioannidis, Vasiliki Garefalaki, Sotiria Boukouvala
 Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece

Bioinformatics

- P016** Validation of Free Energy Perturbation calculations for efficient optimization of candidate drug binding affinities
Panagiota Vardaka, Christina Athanasiou, Zoe Cournia
 Biomedical Research Foundation, Academy of Athens, Athens, Greece
- P017** Computational analysis of human plasma membrane peripheral proteins and their association with amyloidoses
Katerina C. Nastou, Paraskevi L. Tsiolaki, Georgios N. Tsaousis, Stavros J. Hamodrakas, Vassiliki A. Iconomidou
 Section of Cell Biology and Biophysics, Department of Biology, National and Kapodistrian University of Athens, Panepistimiopolis, Athens, Greece
- P018** POTAMOS mass spectrometry calculator: Computer aided mass spectrometry to the post-translational modifications of histones
Aristeidis Vlachopoulos¹, **Katerina Soupsana^{2,3}**, **Anastasia S. Politou^{2,3}**, **Georgios Papamokos^{1,2,3,4,5}**
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- P019** Linking QSAR and mode of action data to improve the prediction of carcinogens
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Systems Biology

- P020** The expression patterns of the clock genes *period* and *timeless* in the moth *Sesamia nonagrioides* under different photoperiods
Dimitris Kontogiannatos, Theodoros Gkouvtas, **Anna Kourti**
 Department of Biotechnology, School of Food, Biotechnology and Development, Agricultural University of Athens, Athens, Greece
- P021** Molecular characterization and expression analysis of the clock gene cycle in the moth *Sesamia nonagrioides* under LD and SD photoperiods
Dimitris Kontogiannatos, Theodoros Gkouvtas, **Anna Kourti**
 Department of Biotechnology, School of Food, Biotechnology and Development Agricultural University of Athens, Athens, Greece
- P022** Comparative proteomic analysis of *Pseudomonas* sp. pHDV1 grown under phenol stress conditions
Antigoni Nikolaki¹, Julian D. Langer², Georgios Tsiotis¹
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²Department of Molecular Membrane Biology, Max Plank Institute of Biophysics, Frankfurt am Main, Germany
- P023** Lymphoma transcriptomic and proteomic dissection using an integrated network analysis
Charikleia Seitanidou¹, Elias Primetis¹, Konstantina Psatha², Michalis Aivaliotis²
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²Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece
- P024** Integrated high-throughput biomolecular analyses of *FRA10AC1* altered expression in a human cell model
Maria I. Klapa¹, **Matthaios-Emmanouil Papadimitropoulos^{1,6}**, **Eleni Galliopoulou^{2,3}**, **Spyridoula Anastasopoulou²**, **Christina Vassilopoulou^{1,6}**, **Antigoni Manousopoulou⁴**, **Silvio Biciati⁵**, **Spiros Garbis⁴**, **Theologia Sarafidou³**, **Nicholas K. Moschonas^{1,2}**
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Metabolomics

P025 Blood plasma metabolomics in patients with aspergillosis

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P026 ¹H NMR metabolomics of serum and plasma samples reveals differences between different sets of leukemia molecular subgroups and control donors

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P027 NMR analysis of the urinary metabolic profile of Western Greece region newborns

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P028 Metabolomic analysis of the co-treatment of the natural extract Silymarin with the chemotherapeutical drug Adriamycin in PC-3 prostate cancer cells

Katerina Gioti¹, Georgios Papaefstathiou³, Anastasia Papachristodoulou^{1,2}, Dimitra Benaki², Nektarios Aligiannis³, Alexios-Leandros Skaltsounis³, Emmanuel Mikros², Roxane Tenta¹

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P029 Quantification of vitamin D metabolites in serum and adipose tissue: development and implementation of a LC-MS/MS method

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Epigenetics and regulation of gene expression

- P030** The application of the CRISPR/Cas9 technique to study the functional role of the mitochondrial ribosomal protein L41 in human cells
Ester Kalef-Ezra¹, Monika Oláhová², Francesco Bruni², Robert N. Lightowlers², Zofia M. Chrzanowska-Lightowlers²
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- P031** Role of the oncogene KDM2B in the epigenetic regulation of the actin cytoskeleton signaling and motility in cancer cells
Nephele Zacharopoulou, Anna Tsapara, Sotirios C. Kampranis, Christos Stournaras
 Laboratory Of Biochemistry, Department Of Biochemistry, School Of Medicine, University Of Crete, Heraklion Crete, Greece
- P032** Identification of a novel ERK-dependent protein interaction that regulates the transcriptional activity of Hypoxia Inducible Factor 1 α
Kreon Koukoulas¹, Martina Samiotaki², George Panayotou², George Simos¹, Ilias Mylonis¹
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- P033** Cell permeable peptides that inhibit activation of HIF-1 α by ERK block cancer cell growth under hypoxia
Angeliki Karagiota, Maria Kourti, George Simos, Ilias Mylonis
 Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Biopolis, Larissa, Greece
- P034** Induction of the tumor suppressor *Cyld* expression by PPAR- γ activation in breast cancer cell lines
Athanasios Pseftogas, Christos Gonidas, George Mosialos
 Department of Genetics, Developmental and Molecular Biology, School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- P035** Interplay between Tip60 and Ets-2 for the initiation of transcription and regulation of IL-2 gene
Ioanna Aggeletopoulou, Ioannis Panagoulas, Fotis Karagiannis, Panagiota Davoulou, Tassos Georgakopoulos, Athanasia Mouzaki
 Division of Hematology, Department of Internal Medicine, School of Medicine, University of Patras, Patras, Greece
- P036** The role of histone demethylases PHF2 and PHF8 in macrophage activation and polarization
Maria G. Daskalaki¹, Konstanina Lyroni², Andreas Patsalos², Eleftheria Ieronymaki², Christos Tsatsanis², Sotirios C. Kampranis¹
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²Department of Clinical Chemistry-Biochemistry, School of Medicine, University of Crete, Heraklion, Greece
- P037** Direct phosphorylation by ERK1/2 is required for nuclear accumulation and transcriptional activation of Hypoxia Inducible Factor-2 α
Ioanna-Maria Gkotinakou, Christina Befani, Evanthia Pangou, Ilias Mylonis, George Simos, Panagiotis Liakos
 Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Biopolis, Larissa, Greece
- P038** The role of Vitamin D in insulin resistance: Correlation between hormones and glycemic markers
Styliannos Katsaros^{1,3}, Vaios Nikolopoulos², Stella Mitka³, Maria Xatzidimitriou³, Kyriakos Kazakos⁴
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⁴Department of Nurse, School of Health and Medical Care, Alexander Technological Educational Institute of Thessaloniki, Thessaloniki, Greece
- P039** A new splicing isoform of Protein Arginine Methyltransferase 1 (PRMT1) that lacks the multimerization arm of the enzyme
Odysseas P. Patounas, Ioanna Papacharalampous, Carmen Eckerich, Frank O. Fackelmayer
 Laboratory of Epigenetics and Chromosome Biology, Department of Biomedical Research, Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology Hellas (IMBB-FORTH)
- P040** Elucidating chromatin reorganization in response to genotoxic stress
Anastasios Liakos, Dimitris Konstantopoulos, Matthieu D. Lavigne, Maria Fousteri
 Biomedical Sciences Research Center ‘Alexander Fleming’, Vari, Athens, Greece

- P041** **MiRNAs linking the NF-κB signaling pathway with the RB/E2F regulatory circuitry**
Maria Tokamani¹, Leuteris Miaoulis¹, Athanasios Karapetsas¹, Christos Polyarchou², Evangelos Kolettas³, Raphael Sandaltzopoulos¹
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- P042** **Novel STAT5 interactions define activation or repression of target genes**
Aikaterini Nanou¹, Chrisavgi Toumpeki¹, Matthieu D. Lavigne¹, Vassiliki Lazou¹, Jeroen Demmers², Triantafillos Papatountas¹, Dimitris Thanos¹, Eleni Katsantoni¹
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²Proteomics Center, Erasmus Medical Center, Rotterdam, The Netherlands

- P043** **The RNA-binding protein HuD coordinates transcriptional and post-transcriptional regulation of Neurogenin2 expression**
Marousa Darsinou, Theologos M. Michaelidis
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RNA Biology

- P044** **Discovery, molecular cloning and expression analysis of novel alternative splicing variants of the AP2A1 gene with the use of next-generation sequencing**
Ioannis-Marios A. Diamantopoulos, Panagiotis G. Adamopoulos, Christos K. Kontos, Andreas Scorilas
 Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Athens, Athens, Greece

- P045** **Discovery and molecular characterization of novel transcripts of kallikrein-related peptidases 5, 6, 7, 8, and 9 (KLK5-KLK9) in human cancer cells, using next-generation sequencing**
Christos K. Kontos, Panagiotis G. Adamopoulos, Ioannis-Marios A. Diamantopoulos, Andreas Scorilas
 Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Athens, Athens, Greece

- P046** **Functional and structural analysis of the *glyS* T-box riboswitch-mediated synchronization of protein synthesis and cell wall formation in pathogens**
Vassiliki Stamatopoulou, Maria Apostolidi, Katerina Lamprinou, Constantinos Stathopoulos
 Department of Biochemistry, School of Medicine, University of Patras, Greece

- P047** **Dissecting the *S. aureus glyS* T-box riboswitch-mediated regulation of transcription in the presence of antibiotics**
Katerina Lamprinou, Vassiliki Stamatopoulou, Maria Apostolidi, Constantinos Stathopoulos
 Department of Biochemistry, School of Medicine, University of Patras, Greece

- P048** **Construction of an M1GS ribozyme for targeted and rapid mRNA cleavage: Application on the *ETS2* oncogene**
Chrisavgi Toumpeki, Dimitrios Anastasakis, Ioannis Panagoulas, Vassiliki Stamatopoulou, Tassos Georgakopoulos, Sofia Kallia-Raftopoulos, Athanasia Mouzaki, Denis Drains
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- P049** **Valproic acid-induced HERV-K10 retrotransposition and concomitant glioma cell differentiation are mediated through active endogenous reverse transcriptases**
Foteini Gkartziou¹, Georgios Vartholomatos², Dimitrios Noutsopoulos¹, Stefania Mantziou¹, Violetta Maltaba^{1,5}, Sofia Markoula³, Ioannis Georgiou⁴, Athanasios Kyritsis³, Theodore Tzavaras¹
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- P050** **p53 loss induces VL30 retrotransposition in mouse fibroblasts**
Dimitrios Noutsopoulos¹, Foteini Gkartziou¹, Georgios Vartholomatos², Theodore Tzavaras¹
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DNA damage and repair

P051 Chronic p53-independent p21 expression shifts from excision repair to DNA double-strand break repair promoting chromosomal instability

Panagiotis Galanos¹, George Pappas¹, Alexander Polyzos², Ioanna Svolaki¹, Vassilis L. Souliotis⁴, Dimitris Thanos², Evi Soutoglou⁵, Claudia Lukas⁶, Jiri Lukas⁶, Jiri Bartek^{7,8,9}, Vassilis G. Gorgoulis^{1,2,3}

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P052 Unraveling the involvement of the licensing factor Cdt1 in double strand break repair

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P053 DNA re-replication facilitates copy number variations in fission yeast

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Ageing

P054 Ionizing radiation-mediated premature senescence and paracrine interactions with cancer cells enhance the expression of syndecan 1 in human breast stromal fibroblasts: The role of TGF-β

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P055 Comparative study of behavioral indicators and activity of brain acetylcholinesterase’s isoforms in adult and aged mice

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- P056 Deciphering the roles of microRNAs in the senescence response of human fibroblasts**
Georgios S. Markopoulos^{1,2}, Eugenia Roupakia^{1,2}, Maria Tokamani³, Georgios Vartholomatos⁴, Maria Hatzia Apostolou⁵, Christos Polytaichou⁵, Raphael Sandaltzopoulos³, Evangelos Kolettas^{1,2}
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Structure and function of macromolecules

- P057 The role of Ser/Asn-93 in purine substrate preference as revealed by mutational analysis of the xanthine/uric acid permease SmLL9 from *Sinorhizobium meliloti***
Maria Botou¹, Ekaterini Karna¹, Ekaterini Tatsaki¹, George Lambrinidis², Emmanuel Mikros², Emmanouil Fletmetakis³, Stathis Frillingos¹
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- P058 Two residue periodicities in protein structures: Results from a systematic search in 4-dimensional Ramachandran space**
Ioannis Riziotis, Nicholas M. Glykos
 Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece
- P059 Molecular determinants of the adenine/hypoxanthine selectivity in the homology cluster of salvageable purine permeases of symporter family NCS2**
Vassilios Yalelis, Panayiota Lazou, Maria Botou, Stathis Frillingos
 Laboratory of Biological Chemistry, Department of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece
- P060 A unique homology cluster of bacterial pyrimidine permeases highlights the role of a binding-site phenylalanine residue in distinguishing uracil from thymine**
Panayiota Lazou¹, Maria Botou¹, Thomas Evangelidis², Emmanuel Mikros², Stathis Frillingos¹
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²Laboratory of Pharmaceutical Chemistry, Department of Pharmacology, School of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece
- P061 Evaluation of accessible volume and surface area of protein-ligand complexes aimed towards rational drug design**
George C. Boulougouris¹, Loukas D. Peristeras², Konstantinos Anagnostopoulos³
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²Molecular Thermodynamics and Modelling of Materials Laboratory, Institute of Nanoscience and Nanotechnology, National Center for Scientific Research “Demokritos”, Greece
³Laboratory of Biochemistry, Department of Medicine, Democritus University of Thrace, Alexandroupolis, Greece
- P062 Synthesis and study of peptide analogs of the native cationic antimicrobial peptide Anoplin for the development of new therapeutic agents**
Konstantinos Chionis, Vasilios Michail, Athanasios Tzitzilis, Evangelia Marmarinou, Dimitrios Krikorian, Anna-Irini Koukkou, Maria Sakarellos-Daitsiotis, Eugenia Panou-Pomonis
 Department of Chemistry, University of Ioannina, Ioannina, Greece
- P063 Development of a coarse-grain model for dsDNA, with applications in the simulation of hydrodynamic interactions at the solid-liquid interface of acoustic sensors**
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²Department of Biology, University of Crete, Heraklion, Greece

- P064** The cytoplasmic C-terminal region of NCS1/FUR transporters has a dual role in endocytosis and transport
Georgia Papadaki, George Diallinas
Faculty of Biology, Department of Botany, National and Kapodistrian University of Athens, Athens, Greece
- P065** A novel MFS transporter in *Aspergillus nidulans* is specific for the efflux of nucleobases and nucleobase-related antifungals
Sofia Balaska, George Diallinas
Department of Biology, National and Kapodistrian University of Athens, Athens, Greece
- P066** NMR based structure-activity relationship study of *Mayaro* and *Chikungunya* alphaviruses' macro domain
Aikaterini C. Tsika¹, Efstathios Melekis¹, Sofia-Antigoni D. Tsatsouli¹, Julie Lichière², Christos T. Chasapis¹, Irene Margioliaki³, Nicolas Papageorgiou², Bruno Coutard², Detlef Bentrop⁴, Georgios A. Spyroulias¹
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⁴Institute of Physiology II, University of Freiburg, Freiburg, Germany
- P067** Investigation of the structure-activity relationship of E3 ubiquitin ligases: mutations of ARKADIA RING-H2 domain
Konstantinos D. Marousis¹, Maria-Polytime Vlachou¹, Stamatina Tsapardonis¹, Vasileios Raptis¹, Maria Birkou¹, Detlef Bentrop², Vasso Episkopou³, Georgios A. Spyroulias¹
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- P068** Structural study of the RING domain of ARKADIA-2 and its Tryptophan mutants via NMR Spectroscopy
Revekka D. Karavela¹, Konstantinos D. Marousis¹, Danae-Despoina D. Giannari¹, Maria Birkou¹, Marina Bouga¹, Vasso Episkopou², Georgios A. Spyroulias¹
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- P069** Study of *Ld*TyrPIP₂₂, a Tyrosine and Phosphoinositide Phosphatase from *Leishmania donovani*
Olympia Tziouvara¹, Anastasia Kotopouli¹, Amalia Papadaki¹, Haralabia Boleti^{1,2}
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²Light Microscopy Unit, Hellenic Pasteur Institute, Athens, Greece
- P070** *Ld*PIBPnex, a secreted nexin-like protein from the protozoan parasite *Leishmania donovani*
Drosos Kourounis¹, Amalia Papadaki¹, Olympia Tziouvara¹, Haralabia Boleti^{1,2}
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²Light Microscopy Unit, Hellenic Pasteur Institute, Athens, Greece
- P071** Insight on the evolvability of NCS2 purine transporters from analysis of a cross-homolog chimera
Ekaterini Georgopoulou, Ekaterini Karna, Maria Botou, Stathis Frillingos
Laboratory of Biological Chemistry, Department of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece
- P072** Expression, purification and NMR study of the Hepatitis E virus 1 macro domain
Maria Politi¹, Georgios Bekoulis¹, Dioni Dodi¹, Maria Birkou¹, Konstantinos D. Marousis¹, Bruno Coutard², Georgios A. Spyroulias¹
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- P073** Biochemical characterization of Hesperin
Rafailia A. A. Beta, Athanasios Kyritsis, Eirini Papanastasi, Georgios A. Stravodimos, Daniela Tsikou, Kalliopi K. Papadopoulou, Vasiliki T. Skamnaki, Demetres D. Leonidas, Nikolaos A. A. Balatsos
Department of Biochemistry and Biotechnology, University of Thessaly, Biopolis, Larissa, Greece
- P074** Expression and purification of recombinant human CA2-CDK2 complex in *Escherichia coli*: Characterization of active soluble, recombinant proteins with putative inhibitors
Vaios Nikolopoulos, Zoi Vaitsi, Magdalini D. Rovoli, Kostas Katsoulis, George A. Kontopidis
Laboratory of Biochemistry, Department of Veterinary Medicine, University of Thessaly, Karditsa, Greece

- P075** The C-terminal domain is essential for the proper assembly of the active multimeric oleuropein-specific β -glucosidase
Konstantinos Koudounas, Margarita Thomopoulou, Efstathia Zevgiti, Georgios Papakostas, Elisavet Angeli, Ippokratis Lygizos, Polydefkis Hatzopoulos
Agricultural University of Athens, Department of Biotechnology, Molecular Biology Lab, Athens, Greece
- P076** NMR conformational dynamics of LAM, RRM1 and RRM2 domains of La protein
Aikaterini A. Zompra¹, Aikaterini I. Argyriou¹, Maria Apostolidi², Christos T. Chasapis¹, Dionysios Vourtsis¹, Parthena Konstantinidou², Denis Drainas², Detlef Bontrop³, Constantinos Stathopoulos², Georgios A. Spyroulias¹
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- P077** NMR study of the H-NOX domain from *Nostoc* sp, a homologue of human soluble Guanylate Cyclase (sGC)
Aikaterini I. Argyriou¹, Ioannis I. Alexandropoulos¹, Andriana Stamopoulou¹, Marina Bantzi², Athanassios Giannis², Stavros Topouzis¹, Andreas Papapetropoulos^{1,3}, Georgios A. Spyroulias¹
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Biotechnology

- P078** Screening between normal and cancer human thyroid cells through comparative adhesion studies using the Quartz Crystal Microbalance
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- P079** Catechin silica nanoparticles bioactive sheath in Cu(II)-induced *in vitro* neurodegeneration
Christiane M. Nday^{1,2}, Eleftherios Halevas^{1,3}, Graham Jackson², George Litsardakis³, Athanasios Salifoglou¹
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²*Department of Chemistry, University of Cape Town, Cape Town, South Africa*
³*Laboratory of Materials for Electrotechnics, Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece*
- P080** Multiscale study of targeted nano-encapsulated flavonoids for potential neuroprotective therapy
Eleftherios Halevas^{1,2}, Christiane M. Nday^{1,2}, Graham Jackson², George Litsardakis³, Athanasios Salifoglou¹
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²*Department of Chemistry, University of Cape Town, Cape Town, South Africa*
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- P081** *In vitro* and *in vivo* evaluation of the anti-inflammatory effect of carvacrol and thymol
Ioanna L. Eleftheriadou, Afroditi T. Sivropoulou
Department of Genetics, Development and Molecular Biology, School of Biology, Faculty of Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece
- P082** Assessment of the immunomodulatory potential of a novel probiotic *Lactobacillus* strain by employing an *in vivo* mouse model of inflammation
Pelagia Chondrou¹, Athanasios Karapetsas¹, Despina-Eugenia Kiousi¹, Stavros Vasiliadis¹, Eleftheria Lamprianidou², Ioannis Kotsianidis², Alex Galanis¹
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- P083** *In vitro* comparative analysis of the antiproliferative activity of probiotic *Lactobacillus* strains on human colorectal adenocarcinoma cells
Pelagia Chondrou¹, Despina-Eugenia Kiousi¹, Athanasios Karapetsas¹, Stavros Plessas², Eugenia Bezirtzoglou², Alex Galanis¹
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²Laboratory of Microbiology, Biotechnology & Hygiene, Faculty of Agricultural Development, Democritus University of Thrace, Orestiada, Greece
- P084** Baculovirus-mediated transient over-expression of a juvenile hormone esterase-related gene in a lepidopteran pest
Dimitris Kontogiannatos¹, Luc Swevers², Anna Kourti¹
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- P085** Functional analysis of the two cyclophilin isoforms of *Sinorhizobium meliloti*
Eirini-Evangelia Thomloundi, Aggeliki Skagia, Anastasia Venieraki, Panagiotis Katinakis, Maria Dimou
 Laboratory of General and Agricultural Microbiology, Faculty of Crop Science, Agricultural University of Athens, Athens, Greece
- P086** Development and application of a PCR assay for sensitive and specific detection of food contamination with *Listeria monocytogenes*, *Salmonella* spp. and *Escherichia coli*
Konstantina A. Michailidou¹, Xenia K. Apostolopoulou¹, Theologos N. Lagoumtzis¹, Ismini-Anna Lappa¹, Margaritis Avgeris², Efstathios Giaouris¹, Christos K. Kontos^{1,2}
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- P087** Skin protective effects of *Nannochloropsis gaditana* extract in oxidative-stressed human dermal fibroblasts
Sophia Letsiou¹, Katerina Kalliampakou², Konstantinos Gardikis¹, Lalia Mantecón³, Carlos Infante³, Nikolaos Labrou², Emmanouil Fletmetakis²
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- P088** Biochemical and Bioinformatics analysis of *Rhodothermus marinus* NAD⁺-dependent DNA ligase
Marianna Arvaniti¹, Katerina C. Nastou², Anna Parageorgiou¹, Paraskevi L. Tsiolaki², Vassiliki A. Iconomidou², Constantinos Vorgias¹
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- P089** Metabolomic and transcriptomic analysis of the green microalga *Nannochloropsis gaditana* under different growth conditions
Maria Patelou¹, Carlos Infante², Evangelia D. Kouri³, Chrysanthi Kalloniati¹, Bonnie S. Watson³, Lalia Mantecón², Michael K. Udvardi³, Emmanouil Fletmetakis¹
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- P090** Utilizing the virus-induced blocking of apoptosis in an easy baculovirus titration method
Evangelia Konstantinou, Anastasia Siora, Athanasios Niarchos, George Lagoumintzis, Konstantinos Poulas
 Department of Pharmacy, University of Patras, Patras, Greece

- P091** Anti-tumor immune responses raised in tumor-bearing mice following oral administration of *Lactobacillus casei*
Georgios Aindelis¹, Angeliki Tiptiri-Kourpeti¹, Eleni Besiridou¹, Eleftheria Lamprianidou², Ioannis Kotsianidis², Petros Ypsilantis³, Constantinos Simopoulos³, Yiannis Kourkoutas¹, Aglaia Pappa¹, Katerina Chlichlia¹
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²Department of Hematology, Medical School, Democritus University of Thrace, Alexandroupoli, Greece
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- P092** Evaluation of angiotensin-converting enzyme-inhibitory (ACE-I) activity and other probiotic properties of lactic acid bacteria isolated from traditional Greek dairy products
Konstantinos Papadimitriou¹, Marina Georgalaki¹, Georgia Zoumpopoulou¹, Eleni Mavrogonatou², Gonzalez Van Driessche³, Voula Alexandraki¹, Rania Anastasiou¹, Marina Papadelli¹, Maria Kazou¹, Eugenia Manolopoulou¹, Dimitris Kletsas², Bart Devreese³, Effie Tsakalidou¹
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Microbiology

- P093** L-Azetidine-2-carboxylic acid, a toxic proline analogue, is detoxified and catabolized by *Aspergillus nidulans*
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- P094** Presence of important virulence genes in *Staphylococcus aureus* cheese isolates and *in vitro* investigation of their biofilm forming abilities under pH or water activity stresses
Klotildi Delladetsima¹, Foteini Karra¹, Nikolaos Brokos¹, Georgios Polemikos¹, Christos Kontos^{1,2}, Efstathios Giaouris¹
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- P095** Pepper mild mottle virus as indicator of fecal pollution in water environments of western Greece region
Vasiliki Syngouna¹, Elena Charalambous², Konstantinos Kalogeropoulos², Apostolos Vantarakis²
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- P096** Prevalence of uncultured, unprecedented prokaryotic phylotypes in the sediments of the ancient Lake Pamvotis (Europe-Greece)
Anastasia Touka¹, Katerina Vareli^{1,2}, Maria Igglezou¹, Nikolaos Monokrousos², Dimitrios Alivertis², George Pilidis², John M. Halley², Evangelos Briasoulis^{1,3}, Stathis Frillingos⁴, Ioannis Sainis^{1,2}
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⁴Laboratory of Biological Chemistry, Department of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece
- P097** Employing the Double Locus Sequence Typing methodology to characterise the phylogeny of *Pseudomonas aeruginosa*, a bacterium well established in Greek aquatic habitats
Olga Pappa^{1,4,5}, Apostolos Beloukas², Apostolos Vantarakis³, Athena Mavridou⁴, Anastasia-Maria Kefala⁵, Alex Galanis⁵
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P098 A new mechanism of action, via formation of Neutrophil Extracellular Traps, for the widely used and established macrolide antibiotic Clarithromycin

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Chemical Biology

P099 Assessing the pharmacological profile of new synthetic sesquiterpene VDS58 that activates p21 gene expression in cancer cells

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P100 Development, validation and application of UHPLC-MS/MS based methods for the quantitative analysis of Sunitinib in human plasma and cancer lines- ISO 17025 Accreditation

Maria V. Chatziathanasiadou¹, Evgenios Stylos^{1,2}, Mohamed El Mubarak³, Iliana Leontari³, Efstathia Giannopoulou⁴, Maria-Helen Spyridaki⁵, Gregory Sivolapenko³, Andreas G. Tzakos¹

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P101 Bioavailability evaluation of retinol encapsulated in a liposome-protein drug delivery system

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P102 Genetic action assessment of new organotins on human cells cultures

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P103 The growth inhibitory effect of winery by-products on colorectal cancer cell lines

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Bioactive Compounds

P104

Extracts from Limnio grape skin trigger apoptosis in breast cancer MCF-7 cells by activating the intrinsic apoptotic pathway

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P105 Assessment of the antioxidant activity and proapoptotic effect of Moscato Alexandria grape seed extracts on human gastric cancer cells

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P106 Stinging Nettle as a new source of phytochemicals with regenerative properties

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P107 Olive oil ingredients oleocanthal and oleacein present cytotoxic activity against cancer cell lines and interfere with the activity of staurosporine

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Forensic Chemistry

P108 Analysis of club amnesty bin contents using a new GC-MS library of certified reference materials

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P109 The analytical challenge of detecting new psychoactive substances

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Cellular Organization and Function

- P110** The AP-2 complex has a specialized endocytic role serving polar growth by apical extension in filamentous fungi: specialization by evolutionary truncation
Olga Martzoukou, Amalia Zervakou, Sotiris Amillis, George Diallinas
Department of Biology, National and Kapodistrian University of Athens, Athens, Greece
- P111** A study on the subcellular localization and function of Acid Ceramidase in epithelial and neuronal cell lines
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²The Cyprus School of Molecular Medicine, Nicosia, Cyprus
- P112** The interaction of Scaffold Attachment Factors B1 and 2 (SAFB1/2) with SR Protein Kinase 1 (SRPK1)
Chrysa Taze, Sotiria Drakouli, Eleni Georgatsou
Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Larissa, Greece
- P113** Pulsed electromagnetic fields stimulate wound healing by enhancing cell migration and proliferation
Anastasia Siora, Evangelia Konstantinou, George Lagoumintzis, Anastasia Pyriochou, Konstantinos Poulas
Laboratory of molecular biology and Immunology, Department of Pharmacy, University of Patras
- P114** Investigating the growth phase dependent roles of the glutamate dehydrogenase isoforms Gdh1 and Gdh3 in yeast
Paraskevi Mara¹, George S. Fragiadakis², Evdokia Toumpanaki¹, Fotios Gkoutromichos¹, Despina Alexandraki^{1,2}
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- P115** The cytoplasmic Acetoacetyl CoA Thiolase (ACAT2) interacts with the GDP-form of Rab5 and regulates endocytic membrane transport
Katerina Galanopoulou^{1,2}, Thanasis Ziogas^{1,2}, Agathi Papanikolaou^{1,2}, Marino Zerial³, Savvas Christoforidis^{1,2}
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- P116** Deregulated DNA replication licensing promotes gene amplification and drug resistance
Michalis Petropoulos¹, Ioanna-Eleni Symeonidou¹, Marina Arbi¹, Stavros Taraviras², Zoi Lygerou¹
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- P117** Studying DNA re-replication in *S.pombe* at the population and single-cell level
Stella Maxouri¹, Marianna Rapsomaniki², Manuel Ramirez¹, Nickolaos Nikiforos Giakoumakis¹, Patroula Nathanailidou¹, Stavros Taraviras³, John Lygeros⁴, Zoi Lygerou¹
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⁴Automatic Control Laboratory, ETH, Zurich, Switzerland
- P118** The synergistic action of IGF-IR and ER α suppress aggressiveness of breast cancer cells and regulate the expression and localisation of ECM molecules
Nikolaos A. Afratis^{1,2,*}, Panagiotis Bouris^{1,*}, Spyros S. Skandalis¹, Hinke A. Multhaupt², John R. Couchman², Achilleas D. Theocharis¹, Nikos K. Karamanos¹
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Cellular Communication and Signaling

- P119** Ectopic LCK expression defines a unique subpopulation of B cells in chronic lymphocytic leukaemia patients
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- P120** Cocaine and amphetamine regulated transcript (Cart): a second neurotransmitter in the C-bouton synapse on motor neurons
Maria Mina, Panagiota Apostolou, Efstathia Tetrigga, Laskaro Zagoraiou
 Department of Basic Research, Biomedical Research Foundation, Academy of Athens, Athens, Greece
- P121** Molecular studies of the immunological effects of the sevoflurane preconditioning in the liver and lung ischemia/reperfusion injury in a rat model
Angeliki Mikrou¹, Konstantinos A. Kalimeris², Ioannis Lilis³, Nikolaos Papoutsidakis², Konstantinos Nastos², Helen Papadaki³, Georgia G. Kostopanagiotou², Ioannis K. Zarkadis¹
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- P122** Regulation of TGF- β /Smad signaling by small GTPases RhoA and RhoB
Melina Livitsanou¹, Eleftheria Vasilaki², Dimitris Kardassis³
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²Ludwig Institute for Cancer Research, Uppsala, Sweden
³Laboratory of Biochemistry, Department of Basic Sciences, University of Crete
- P123** Fatty acid-induced effects on the expression of growth and pro-apoptotic factors in cardiomyocytes
Evangelos Zevolis, Anastassios Philippou, Athanasios Moustogiannis, Michael Koutsilieris
 Department of Experimental Physiology, Medical School, National and Kapodistrian University of Athens
- P124** The expression of c-Myc is regulated of phosphorylation by Src and mTORC2 through post-translational modifications of IMP1.
Andromachi Lambrianidou¹, Christos Meristoudis¹, Katerina Soupsana^{2,3}, Theoni Trngas¹
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- P125** ActRIIB - interacting proteins in Activin A signal transduction: The role of PLEKHH2 protein
Anthimos Anthimou¹, Sofia Bellou¹, Nikoleta Kostopoulou^{1,2}, Angelos Papadopoulos^{1,2}, Anastasia Kougioumtzi^{1,2}, Carol Murphy^{1,3}, Theodore Fotsis^{1,2,3}
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- P126** Low oxygen tension modulates integrin gene expression and microvascular endothelial angiogenic functions
Christina Befani, Panagiotis Liakos
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- P127** The role of HSP90 in modulating the CLAVATA pathway
Dimitra Spanou¹, Efstathios Trigazis¹, Despina Samakovli^{1,2}, Loukia Roka¹, Dimitra Milioni¹, Polydefkis Hatzopoulos¹
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- P128** **Serglycin acts as a promoter of aggressiveness in breast cancer cells**
Anthi Kolokotroni, Panagiotis Bouris, Anastasia Sopaki-Valalaki, Dimitra Manou, Xenia Didimioti, Angeliki Meintani, Nikos K. Karamanos, Achilleas D. Theocharis
Laboratory of Biochemistry, Department of Chemistry, University of Patras, Patras, Greece
- P129** **Suppression of ER α induces the activation of TGF- β and IL-8 pathways in breast cancer cells**
Anastasia Sopaki-Valalaki^{1,2}, Aristidis Moustakas², Panagiotis Bouris^{1,2}, Dimitra Manou¹, Anthi Kolokotroni¹, Nikos K. Karamanos¹, Achilleas D. Theocharis¹
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²*Ludwig Institute for Cancer Research, Biomedical Center, Uppsala University, Uppsala, Sweden*
- P130** **Comparative proteomic analysis of alveolar type II epithelial cells on phosphatidylcholine metabolism following cyclic mechanical stretch**
Glykeria Velivasi¹, Martina Samiotaki², Eirini Kitsioulis¹, George Panayotou², Marilena E. Lekka¹
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²*Biomedical Sciences Research Center "Alexander Fleming", Vari, Athens, Greece*
- P131** **Effect of Insulin-like Growth Factor-I (IGF-I) on the production of Interleukin-6 (IL-6) by human eyes pterygium fibroblasts**
Maria-Elpida Christopoulou¹, Konstantina Bourouti¹, Ioannis Trilivas², Eleftheria Giannopoulou³, Nikolaos Pharmakakis², Alexios J. Aletras¹
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²*Department of Ophthalmology, Medical School, University of Patras, Patras, Greece*
³*Department of Pharmacology, Medical School, University of Patras, Patras, Greece*
- P132** **Effects of flavonoids flavones and isoflavones on proteasome expression and activity in fibroblasts of various origins**
Zoi Kordou¹, Maria Magiati¹, Maria-Elpida Christopoulou¹, Eleftheria Giannopoulou², Alexios J. Aletras¹
¹*Laboratory of Biochemistry, Department of Chemistry, School of Sciences, University of Patras, Patras, Greece*
²*Department of Pharmacology, Medical School, University of Patras, Patras, Greece*
- P133** **Putative role of vascular endothelial growth factor receptor 2 in pleiotrophin-induced endothelial cell migration**
Margarita Lamprou, Penelope Castana, Evangelia Papadimitriou
Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Patras, Greece
- P134** **The receptor tyrosine kinases AXL and PDGFR are critical factors that mediate the mesenchymal phenotype and behavior of ER α -suppressed breast cancer cells**
Panagiotis Bouris^{1,2}, Anastasia Sopaki-Valalaki², Nikos K. Karamanos², Achilleas D. Theocharis², Aristidis Moustakas¹
¹*Department of Medical Biochemistry and Microbiology and Ludwig Institute for Cancer Research, Biomedical Center, Uppsala University, Sweden*
²*Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece*
- P135** **Effect of pleiotrophin and its receptor protein tyrosine phosphatase beta/zeta on myelin basic protein levels *in vitro***
Despoina Denekou, Evangelia Papadimitriou
Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Patras, Greece
- P136** **The role of the tumor suppressor protein CYLD in interferon production following infection by HSV-1**
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- P137** **Translational control of Serrate expression in *Drosophila* cells**
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- P138** Changes in key molecules participating in the osmo-adaptation of nucleus pulposus intervertebral disc cells during senescence
Eleni Mavrogonatou, Dimitris Kletsas
Laboratory of Cell Proliferation and Ageing, Institute of Biosciences and Applications, National Centre for Scientific Research "Demokritos", Athens, Greece
- P139** A comparative study of the immediate/early responses of human periodontal ligament fibroblasts to cyclic and static mechanical stretching
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³Department of Orthodontics and Paediatric Dentistry, University of Zurich, Switzerland*
- P140** Exosomal microRNAs contribute to HNF4 α -mediated liver carcinogenesis
Athina Apatsidou^{1,2}, Evdoxia Bantotaki², Myrrianna Stoukides³, Eleni Nikolakaki⁴, Georgios Germanidis⁵, Georgios Grammatikos⁶, Emmanuel Panteris⁷, Margarita Hadzopoulou-Cladaras², Dimitra Dafou²
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⁶Department of Medicine, University Hospital Frankfurt, Germany
⁷Department of Botany, School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece*
- P141** Activation of Glutamate mGlu5 receptors evokes NMDA-dependent phosphorylation of ERK 1/2 kinases in rat hippocampus, which is permitted by A_{2A} adenosine receptors
Paraskevi Krania¹, Aggeliki Dimopoulou¹, Konstantinos Sarantis¹, Eirini Tsiamak¹, Nikolaos Matsokis², Fevronia Angelatou¹
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²Laboratory of Animal And Human Physiology, Department of Biology, University of Patras, Patras, Greece*
- P142** Activation of Glutamate mGlu5 or Dopamine D1 receptors evokes phosphorylation of NR2B(Tyr1472) of NMDA receptors in rat hippocampus: Involvement of A_{2A} adenosine receptors
Eleni Dimou¹, Konstantinos Sarantis¹, Eirini Tsiamak¹, Nikolaos Matsokis², Fevronia Angelatou¹
*¹Physiology Department, Medical School, University of Patras, Patras, Greece
²Laboratory of Animal And Human Physiology, Department of Biology, University of Patras, Patras, Greece*
- P143** ERF over-expression inhibits IL-2 and IL-10 production following TCR/CD28 stimulation of Hut-78 T lymphocytes
Spyridoula Tsiomita¹, George J. Mavrothalassitis^{2,3}, George Thyphronitis¹
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²IMBB, FORTH, Heraklion, Crete, Greece
³Medical School, University of Crete, Heraklion, Crete, Greece*
- P144** Spinophilin, a new player in δ -opioid receptor signaling
Sofia Koutloglou, Zafiroula Georgoussi
Laboratory of Cellular Signaling and Molecular Pharmacology, Institute of Biosciences and Applications, National Center for Scientific Research "Demokritos"
- P145** Interferon gamma alters the N-type to S-type transition in human neuroblastoma cells
Anastasia Xagara^{1,2}, Joseph Papamatheakis^{3,4}, Theologos M. Michaelidis^{1,2}
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Molecular and Cellular Basis of Human Disease I : Cancer

- P146** **A conditional mouse model of malignant pleural mesothelioma**
Anthi C. Krontira¹, Malamati Vreka^{1,2}, Marianthi Iliopoulou¹, Ioannis Lilis¹, Theodora Agalioti¹, Nikoletta Spiropoulou¹, Georgia A. Giotopoulou¹, Magda Spella¹, Antonia Marazioti¹, Georgios T. Stathopoulos^{1,2}
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- P147** **cAMP-response element binding protein in KRAS-driven lung adenocarcinoma**
Georgia A. Giotopoulou¹, Nikoletta Spiropoulou¹, Evanthia Tourkochristou¹, Nikolaos I. Kanellakis¹, Ioannis Lilis¹, Anthi C. Krontira¹, Antonia Marazioti¹, Georgios T. Stathopoulos^{1,2}
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²Comprehensive Pneumology Center (CPC), University Hospital, Ludwig-Maximilians University and Helmholtz Zentrum München, Member of the German Center for Lung Research (DZL), Munich, Germany
- P148** **Low prevalence of BRAF and RAS genetic alterations in thyroid cancer in the Greek population**
Pagona-Maria Karanatsiou¹, Marilena Argyropoulou¹, Aikaterini Manolakelli¹, Ifigenia Kostoglou-Athanassiou², George Vilaras³, Andreas Karameris³, Kalliopi Liadaki¹
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³Department of Pathology, Section of Molecular Pathology, 417 Veterans Administration Hospital (N.I.M.T.S.), Athens, Greece
- P149** **PIK3CA oncogenic mutations in colon cancer**
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⁴School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston Birmingham, United Kingdom
- P150** **The role of TRAF5 protein in signal transduction by the Epstein Barr virus oncoprotein LMP1**
Meropi Karakioulaki, Paul Hadweh, George Mosialos
 Department of Genetics, Development and Molecular Biology, School of Biology, Aristotle University of Thessaloniki, Greece
- P151** **A novel interaction between the PI3k - mTOR and p38 MAPK signaling pathways is involved in neuroblastoma relapse and tumor resistance**
Kyriaki G. Papageorgiou^{1,2}, Ioannis P. Tsigkas^{1,2}, Theologos M. Michaelidis^{1,2}
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- P152** **Expression of ADAMTS in breast cancer cells**
Niki S. Georgakopoulou, Styliani Vasileiou, Panagiotis Bouris, Theodoros Karalis, Spyros S. Skandalis, Achilleas D. Theocharis, Nikos K. Karamanos, Demitrios H. Vynios
 Laboratory of Biochemistry, Department of Chemistry, University of Patras, Patras, Greece
- P153** **The effect of the inhibition of Kras in carcinogenesis**
Danai Kati¹, Vasilleios Armenis¹, Kristina Arendt², Georgios T. Stathopoulos^{1,2}
¹Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Medical School, University of Patras, Patra, Greece
²Helmholtz Zentrum Muenchen, Deutsches Forschungszentrum fuer Gesundheit und Umwelt (GmbH), Neuherberg, Germany
- P154** **ADAMTS expression in laryngeal cancer**
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- P155 Inflammation-driven colon neoplasmatogenesis in uPA-deficient mice is associated with an increased expression of Runx transcriptional regulators**
Hara Afaloniati¹, George S. Karagiannis², Alexandros Hardas³, Theofilos Poutahidis³, Katerina Angelopoulou¹
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- P156 The role of chemokine signaling in lung adenocarcinoma initiation and progression**
Giannoula Ntaliarda, Ioannis Lilis, Ioanna Giopanou, Magda Spella, Antonia Marazioti, Maria Papageorgopoulou, Georgios T. Stathopoulos
Department of Physiology, Laboratory for Molecular Respiratory Carcinogenesis, Faculty of Medicine, University of Patras, Rio, Greece
- P157 Effect of Snail on the expression of ADAMTS4 and ADAMTS6 in melanoma and colon adenocarcinoma cells: lumican, a potential regulator?**
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- P158 Development and progression of non melanoma skin cancer is inhibited in *Klk6*^{-/-} mice**
Nicola Khoury^{1,2}, Georgios Pampalakis¹, Eleni Zingkou¹, Vassilis Zoumpourlis², Georgia Sotiropoulou¹
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- P159 Expression of the ILK-PINCH-PARVIN (IPP) complex and its binding partner Rsu-1 in human non-small cell lung cancer**
Sofia Nikou¹, Theodora Agalioti², Maria Vasilopoulou¹, Maria Makrygianni¹, Vassiliki Zolota³, Georgios T. Stathopoulos², Helen Papadaki¹, Vassiliki Bravou¹
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- P160 LIMK-cofilin pathway and N-WASP are implicated in human colorectal cancer progression**
Helen Aggelou, Polyxeni Christou, Panagiota Hadla, Sofia Nikou, Vassiliki Bravou
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- P161 Integrin linked kinase signaling is involved in colon cancer chemoresistance**
Dimitrios Tsoumas¹, Efstathia Giannopoulou², Christina Geramoutsou¹, Sofia Nikou¹, Haralambos Kalofonos², Vassiliki Bravou¹
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- P162 Overexpression of RNase k is associated with markers of favorable prognosis in prostate cancer**
Athina Kladi-Skandalis¹, Konstantinos Mavridis¹, Konstantinos Stravodimos², Diamantis Sideris¹
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- P163 Multiple-gene expression profiling and transcript-specific intron retention serve as a novel platform of molecular biomarkers for human skin cancer**
Aikaterini F. Giannopoulou^{1,*}, Eumorphia G. Konstantakou^{1,2,*}, Athanassios D. Velentzas¹, Socratis N. Avgeris³, Margaritis Avgeris⁴, Anastasia Prombona⁵, Popi Syntichaki⁶, Ema Anastasiadou⁷, Athanasios G. Papavassiliou⁸, Gerassimos E. Voutsinas³, Andreas Scorilas⁴, Dimitrios J. Stravopodis¹
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- P164 Loss of ER α induces the up-regulation of HAS2, CD44 and moesin in breast cancer cells**
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²Ludwig Institute for Cancer Research, Uppsala University, Sweden
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- P165 Loss of IKK β reduces cell proliferation and impairs lung cancer development**
Eugenia Roupakia^{1,2}, Evangelia Chavdoula³, Georgios S. Markopoulos^{1,2}, Frank O. Fackelmayer², Apostolos Klinakis³, Kenneth B. Marcu⁴, Evangelos Kolettas^{1,2}
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³Biomedical Research Foundation Academy of Athens, Athens, Greece
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- P166 Functional role of IKK α in non-small cell lung carcinogenesis**
Evangelia Chavdoula¹, Eugenia Roupakia^{2,3}, Georgios S. Markopoulos^{2,3}, Antonis Kokkalis¹, Alexander Polyzos¹, Frank O. Fackelmayer³, Dimitris Thanos¹, Apostolos Klinakis¹, Kenneth B. Marcu^{1,3,4}, Evangelos Kolettas^{2,3}
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- P167 Targeting mTOR complexes and ribosomal S6 kinases for the development of novel therapies for thyroid cancer**
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- P168 The histone demethylase LSD1 is a potential drug target in breast cancer stem cells**
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- P169 Drug screening in 2D and 3D primary glioblastoma cell cultures: A preliminary study**
Eleftheria Parasiraki^{1,2}, Mariam-Eleni Oraiopoulou^{3,4}, Vaggelis Sakkalis⁴, Antony Vakis^{3,5}, Giannis Zacharakis⁶, Joseph Papamatheakis^{1,2}
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⁴Computational Bio-Medicine Laboratory, Institute of Computer Science, FORTH
⁵Neurosurgery Clinic, University General Hospital of Heraklion
⁶In vivo Optical Imaging Laboratory, Institute of Electronic Structure and Laser, FORTH
- P170 Alterations of TH17 and Terminal Effector CD8⁺ cells in Chronic Lymphocytic Leukemia patients**
Olimpia Margaritopoulou, Eleftheria Lamprianidou, Anna Vardi, Xrisoula Kordella, Emmanouela Zoulia, Kyriaki Katsiki, Konstantina Pachi, Charalambos Panagopoulos, Kostas Stamatopoulos, Ioannis Kotsianidis
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- P171 Impact of Clotting Factor Gene Polymorphisms in Colon Cancer Risk**
Maria Samara, Maria Papathanassiou, Maria Ioannou, Roidoula Papamichali, Konstantina Papacharalampous, Xrisostomos Zioudas, Aspasia Kyritsaka, Dimitrios Raptis, George K. Koukoulis
 Department of Pathology, Faculty of Medicine, School of Health Sciences, University of Thessaly, Larissa, Greece
- P172 An alternative splice variant of poly(A)-specific ribonuclease in human cancers**
Dionysios Antonopoulos, Athanasios Kyritsis, Nikolaos A. A. Balatsos
 Department of Biochemistry and Biotechnology, University of Thessaly, Biopolis, Larissa, Greece
- P173 Anti-Müllerian hormone and breast cancer**
Eugenia Paliogianni¹, Eugenia Lymperaki¹, Theodore Lialiaris², Maria Barmakoudi³
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Molecular and Cellular Basis of Human Disease II, III

- P174 LDL and HDL lipoprotein subtype frequency in patients with rheumatoid arthritis before and after administration of anti-TNF α**
Maria Karakota, Marina Zakalka, George Koliakos
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- P175 Study of the distribution pattern of polar lipids in the membranes of erythrocytes from patients with Non-Alcoholic Fatty Liver Disease and type 2 Diabetes Mellitus**
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- P176 Development of mouse models expressing human apoA-I mutants that are resistant to MPO-induced oxidation**
Katerina Karagouni-Dalakoura^{1,2}, Ioanna Tiniakou³, Dimitris Kardassis^{1,2}
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- P177 Case-control study and meta-analysis for the genetic association of ACE and eNOS polymorphisms with pulmonary arterial hypertension**
Georgia G. Braliou¹, Eleni Vrigou², Maria L. Kampa¹, Christina S. Vasiliou¹, Panagiota I. Kontou¹, Argyri Gialeraki², Argirios E. Tsantes², Iraklis Tsangaris³, Pantelis G. Bagos¹
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- P178 Selective mitochondrial targeting exerts anxiolytic effects**
Markus Nussbaumer¹, John M. Asara², Larysa Teplytska¹, Mike P. Murphy³, Alon Chen¹, Chris Turck¹, Michaela D. Filiou¹
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²Harvard Medical School, Boston, MA
³MRC-Mitochondrial Biology Unit, Cambridge, UK
- P179 A novel double knockout (*Spink5*^{-/-}*Klk6*^{-/-}) mouse model reveals a role of the KLK6 protease in skin inflammation**
Eleni Charla, Eleni Zingkou, Georgios Pampalakis, Georgia Sotiropoulou
 Department of Pharmacy, University of Patras, Greece
- P180 Molecular and epigenetic crosstalk of networks activating inflammasome in patients with aseptic loosening after total hip arthroplasties**
Katerina Grafanaki¹, Konstantinos Evangelou², Dimitrios Anastasakis¹, George Kyriakopoulos¹, Stavros Symeonidis¹, Panagiotis Megas², Constantinos Stathopoulos¹
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- P181 Meta-analysis of Tourette Syndrome and Schizophrenia genomewide datasets for the identification of a common genetic basis**
Sofia Alexouda, Fotis Tsetsos, Iordanis Karagiannidis, Dimitrios Mantzaris, Peristera Paschou
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- P182 ETS2 Repressor Factor (ERF) - associated craniosynostosis: molecular mechanisms and therapeutic approaches**
Angeliki C. Vogiatzi^{1,2}, Konstantinos A. Makris^{1,2,3}, George J. Mavrothalassitis^{1,2}
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- P183 Effect of PLA2 inhibitors against α -synuclein mediated toxicity**
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²Laboratory of Organic Chemistry, Department of Chemistry, University of Athens, Athens, Greece
- P184 Genetic variation in *CARD8*, an NLRP3 inflammasome pathway gene, is associated with diabetic nephropathy in Type 2 Diabetes Mellitus patients in the Hellenic population**
Iordanis Karagiannidis^{1*}, Athanasios Roumeliotis², Fotis Tsetsos¹, Xanthippi Tsekmekidou³, Stefanos Roumeliotis², Marios Theodoridis², Nikolaos Papanas⁴, Dimitrios Papazoglou⁴, Ioannis Giovos³, Ilias Thodis², Stylianos Panagoutsos², Kalliopi Kotsa³, Ploumis Passadakis², Peristera Paschou¹, Marianthi Georgitsi^{1,5*}
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- P185 Heterologous expression of α -synuclein in *Saccharomyces cerevisiae* under Caloric Restriction leads to alterations in gene expression of crucial metabolic yeast cell pathways**
Evangelos Sfikas, Amalia Sofia Afendra
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- P186 Protein-energy wasting in patients with end-stage renal disease: a clinical proteomics study**
Maria Stavrou¹, Konstantina Psatha², Eugeneios Dafnis³, Konstantinos Stylianou³, Anastasia Markaki⁴, Michalis Aivaliotis²
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³Nephrology Department, University Hospital of Heraklion, Crete, Greece
⁴Department of Nutrition and Dietetics, TEI of Crete, Greece
- P187 In vitro and in vivo antiplatelet properties of insulin**
Anastasia Mikellidi¹, Andrea Paola Rojas Gil^{1,3}, George Stamatakis², Smaragdi Antonopoulou¹, Constantine A. Demopoulos², Tzortzis Nomikos¹
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³Department of Nursing, School of Human Movement and Quality of Life, University of Peloponnese, Sparta, Greece
- P188 Genetic and Epigenetic factors in newborns with low birth weight and early infection**
Zoe Papadopoulou¹, Konstantina Tsoni², Vasiliki Drosou-Agakidou², Marika Syrrou¹
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- P189 Mechanical stress, methylation analysis of GNAS isoforms and osteogenic differentiation of hAT-MSCs**
Angeliki-Maria Vlaikou¹, Dimitrios Kouroupis², Argyro Sgourou³, Georgios S. Markopoulos^{1,2}, Zoe Papadopoulou¹, Theodore Fotsis², Georgios Nakos⁴, Marilena E. Lekka⁵, Marika Syrrou¹
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⁵Laboratory of Biochemistry, Department of Chemistry, School of Sciences, University of Ioannina, Greece
- P190 Possible protective role of Apobec1 mediated RNA editing in Experimental Autoimmune Encephalomyelitis**
Garyfalia Kempapidou¹, Eleni Kovaci¹, Paschalis Theotokis², Olga Touloumi², Eva Nousiopolou², Roza Lagoudaki², Eirini Kanata¹, Dimitra Dafou³, Nikolaos Grigoriadis², Theodoros Sklaviadis¹
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³Developmental Biology Laboratory, School of Biology, Department of Genetics Development and Molecular Biology, Aristotle University of Thessaloniki, Greece
- P191 Targeting KLK5 alone rescues neonatal lethality associated with Netherton Syndrome but cannot sustain a normal epidermal barrier function**
Eleni Zingkou, Georgios Pampalakis, Eleni Charla, Georgia Sotiropoulou
 Department of Pharmacy, University of Patras, Greece
- P192 Chronic treatment of neuroblastoma cells induces Parkinson’s disease related phenotype**
Eftychia Vasili^{1,2}, Maria Kokkali^{1,2}, Theologos M. Michaelidis^{1,2}
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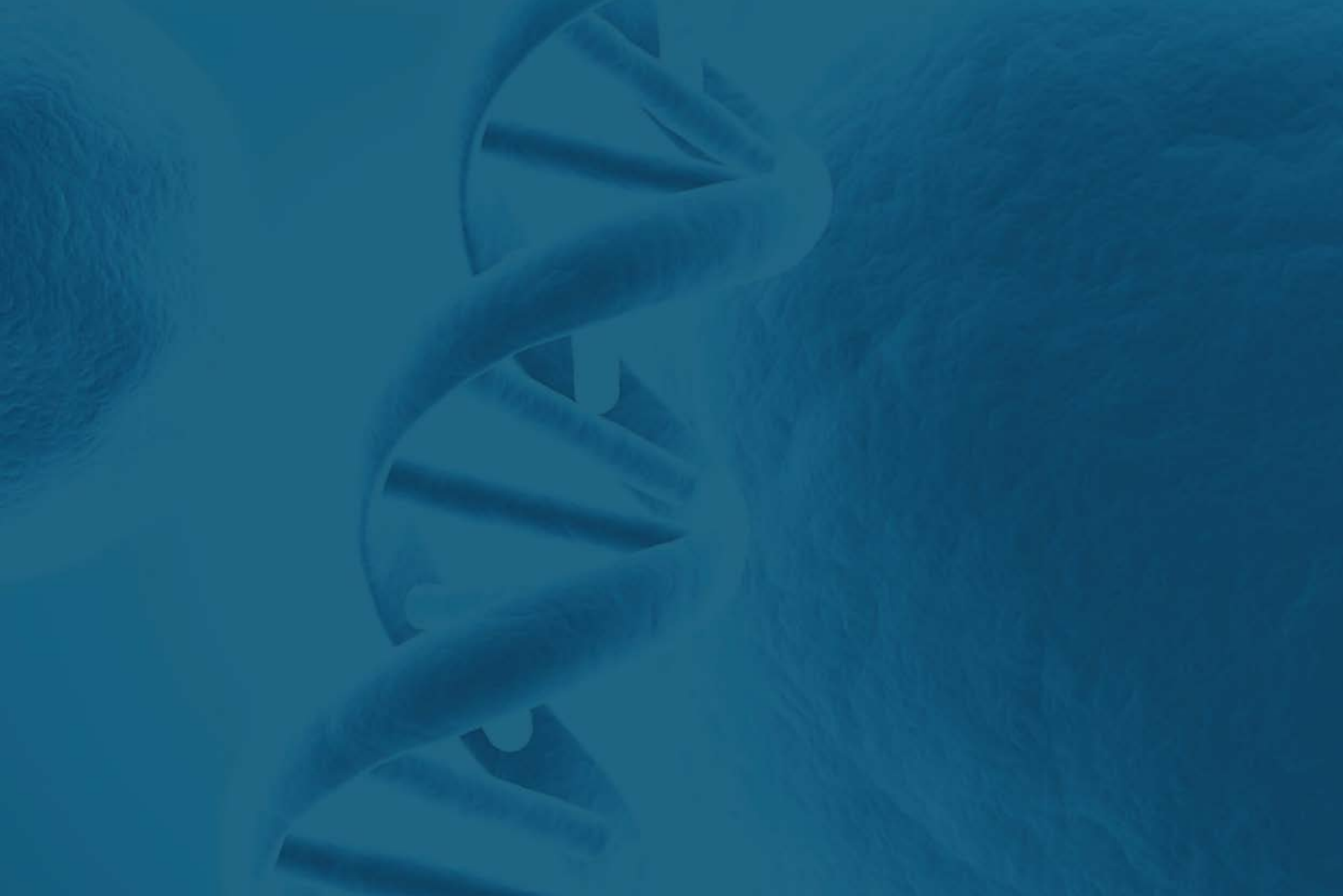
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⁵Division of Pharmaceutical Sciences, University of Wisconsin, Madison, WI
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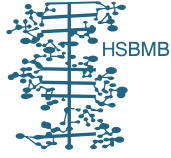
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