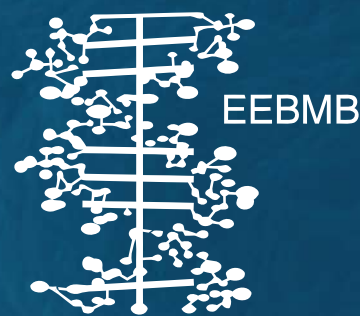
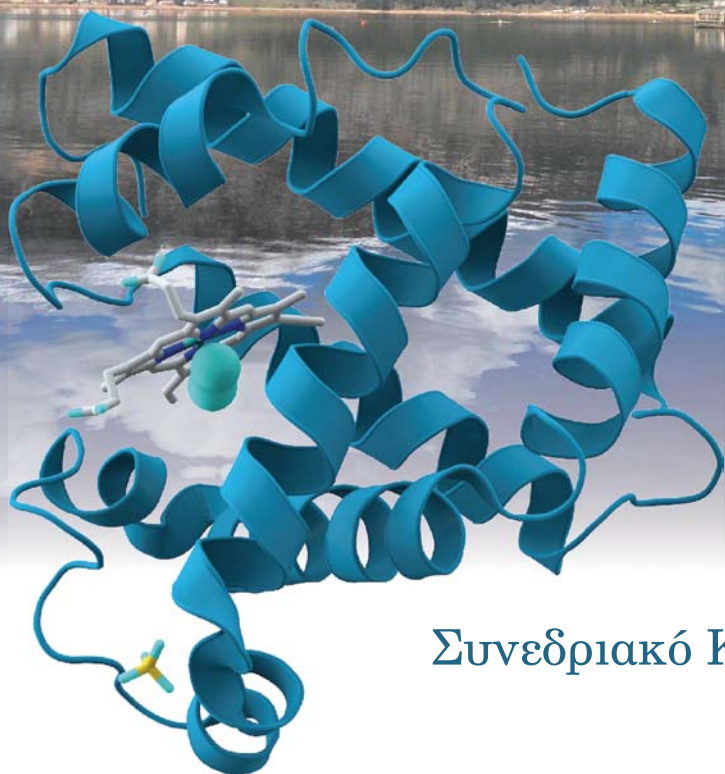


# 670



Πανελλήνιο Συνέδριο  
Ελληνικής Εταιρείας Βιοχημείας  
& Μοριακής Βιολογίας



25-27  
Νοεμβρίου 2016

Συνεδριακό Κέντρο "Κάρολος Παπούλιας"  
Πανεπιστήμιο Ιωαννίνων, Ιωάννινα

**ΠΡΟΓΡΑΜΜΑ ΣΥΝΕΔΡΙΟΥ**

---

## ΟΡΓΑΝΩΣΗ

---

### Ελληνική Εταιρεία Βιοχημείας και Μοριακής Βιολογίας (ΕΕΒΜΒ)

---

Σουφλίου 11, 11257 Αθήνα  
Τηλ: (+30)-210-6503565  
Φαξ: (+30)-210-6511767  
E-mail: [info@eebmb.gr](mailto:info@eebmb.gr)

### Διοικητικό Συμβούλιο ΕΕΒΜΒ

---

<b>Πρόεδρος:</b>	Δημήτρης Κλέτσας
<b>Αντιπρόεδρος:</b>	Νίκος Καραμάνος
<b>Γεν. Γραμματέας:</b>	Διονύσης Σγούρας
<b>Ταμίας:</b>	Γιώργος Σίμος
<b>Μέλη:</b>	Βάσω Κωστούρου Γιώργος Μόσιαλος Άρης Μουστάκας

### Οργανωτική-Επιστημονική Επιτροπή

---

<b>Πρόεδρος:</b>	Ευστάθιος Φριλίγγος
<b>Μέλη:</b>	Αμαλία-Σοφία Αφένδρα Δημήτριος Γαλάρης Σπύρος Γεωργάτος Άννα-Ειρήνη Κούκκου Παναγιώτης Κούκλης Ευάγγελος Κωλέττας Θωμαΐς Παπαμαρκάκη Αναστασία Πολίτου Θεόδωρος Φώτσης Σάββας Χριστοφορίδης

## ΜΗΝΥΜΑ ΧΑΙΡΕΤΙΣΜΟΥ

Αγαπητοί Συνάδελφοι,

Με χαρά σας καλωσορίζουμε στο **67<sup>ο</sup> Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Βιοχημείας και Μοριακής Βιολογίας** που διεξάγεται φέτος στα Ιωάννινα, στο **Συνεδριακό Κέντρο «Κάρολος Παπούλιας» του Πανεπιστημίου Ιωαννίνων, 25-27 Νοεμβρίου 2016**.

Όπως κάθε χρονιά, το Συνέδριο έχει ως στόχο να φέρει σε επαφή ερευνητικές ομάδες Ελλήνων Επιστημόνων που δραστηριοποιούνται σε διάφορους τομείς των Βιοεπιστημών, στην Ελλάδα αλλά και στο εξωτερικό, συμβάλλοντας στην αλληλεπίδραση και τις προοπτικές συνεργασίας μεταξύ τους, και να αναδείξει σημαντικές προσπάθειες των νέων Ελλήνων ερευνητών καθώς και το πρόσφατο ερευνητικό έργο καταξιωμένων ερευνητών από την Ελλάδα και το διεθνή χώρο.

Στο Συνέδριο συμμετέχουν ως προσκεκλημένοι ομιλητές διακεκριμένοι επιστήμονες από την Ελλάδα και το εξωτερικό: **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), **Εύη Σούτογλου** (IGBMC, Strasbourg, France), **Αναστάσιος Οικονόμου** (KU Leven, Rega Institute, Belgium), **Frank Fackelmayer** (IMBB-BE, ITE, Ιωάννινα), **Ηλέκτρα Γκιζελή** (IMBB, ITE, & Πανεπιστήμιο Κρήτης, Ηράκλειο), **Γεώργιος Διαλλινάς** (Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών, Αθήνα), **Απόστολος Κλινάκης** (ΙΙΒΕΑΑ, Αθήνα), **Γεώργιος Σταθόπουλος** (Πανεπιστήμιο Πατρών, Ρίο), **Ιάννης Ταλιανίδης** (ΕΚΕΒΕ Αλ. Φλέμινγκ, Βάρη), **Άρτεμις Χατζηγεωργίου** (Πανεπιστήμιο Θεσσαλίας, Βόλος), **Αικατερίνη Χλίχλια** (Δημοκρίτειο Πανεπιστήμιο Θράκης, Αλεξανδρούπολη).

Όπως και όλα τα Συνέδρια της ΕΕΒΜΒ, το 67<sup>ο</sup> Συνέδριο είναι ανοιχτό σε όλη τη σύγχρονη θεματολογία της Βιοχημείας και Μοριακής Βιολογίας. Το τελικό πρόγραμμα περιλαμβάνει τις εξής θεματικές συνεδρίες: (1) Λειτουργική Γονιδιωματική και Πρωτεωμική & Βιοπληροφορική, (2) Επιγενετική και Ρύθμιση της Γονιδιακής Έκφρασης & Βιολογία των RNA, (3) Βλάβη και Επιδιόρθωση DNA & Κυτταρική Γήρανση, (4) Δομή και Λειτουργία Μακρομορίων, (5) Κυτταρική Οργάνωση και Λειτουργία & Κυτταρική Επικοινωνία και Σηματοδότηση, (6) Μοριακή και Κυτταρική Βάση Ασθενειών του Ανθρώπου I : Καρκίνος, (7) Μοριακή και Κυτταρική Βάση Ασθενειών του Ανθρώπου II, (8) Μοριακή και Κυτταρική Βάση Ασθενειών του Ανθρώπου III, (9) Ανάπτυξη και Διαφοροποίηση, (10) Βλαστικά Κύτταρα & Μορφογένεση και Αναγέννηση Ιστών.

Παράλληλα με το 67<sup>ο</sup> Συνέδριο, συνεχίζεται, για 4<sup>η</sup> χρονιά, ο επιτυχημένος θεσμός της Ημερίδας Νέων Επιστημόνων, μελών της ΕΕΒΜΒ, η οποία οργανώνεται ανεξάρτητα, από μία επιτροπή νέων ερευνητών. Η **4η Ημερίδα Νέων Επιστημόνων της ΕΕΒΜΒ** θα πραγματοποιηθεί επίσης στο Συνεδριακό Κέντρο «Κάρολος Παπούλιας» του Πανεπιστημίου Ιωαννίνων, στις 24 Νοεμβρίου 2016.

Είμαστε πραγματικά ενθουσιασμένοι με την αθρόα συμμετοχή και την υψηλή ποιότητα των εργασιών που έχουν υποβληθεί για παρουσίαση στο φετινό Συνέδριο της ΕΕΒΜΒ. Είμαστε, επίσης, ευγνώμονες στους Διεθνείς Οργανισμούς, Εταιρείες μεταφορών, Εταιρείες εμπορίας επιστημονικών ειδών, Εκδοτικούς Οίκους, που συμμετέχουν ως χορηγοί στο Συνέδριο, καθώς και στο Πανεπιστήμιο Ιωαννίνων για τη σημαντική συμβολή του με τη δωρεάν παραχώρηση του Συνεδριακού Κέντρου. Σας ευχαριστούμε όλους για την δυναμική συμμετοχή σας και προσβλέπουμε σε ένα εξαιρετικά ενδιαφέρον και επιτυχημένο συνέδριο.

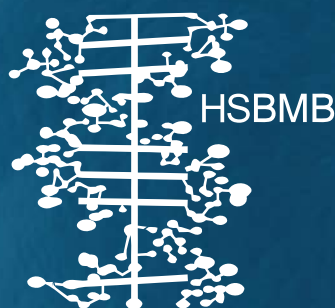
**Ευστάθιος Φριλίγγος**  
Πρόεδρος της Οργανωτικής-Επιστημονικής Επιτροπής

**Δημήτρης Κλέτσας**  
Πρόεδρος της ΕΕΒΜΒ

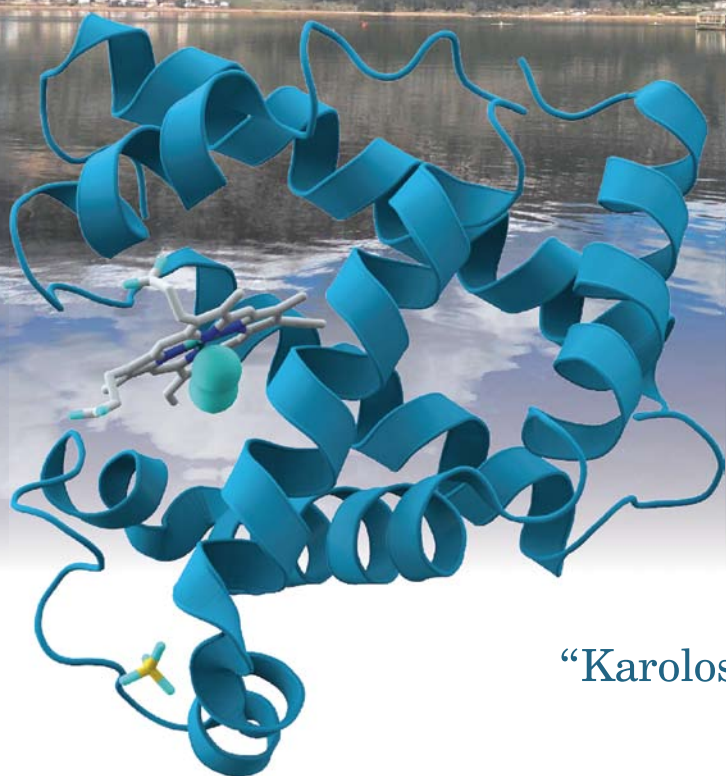




# 67<sup>th</sup>



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



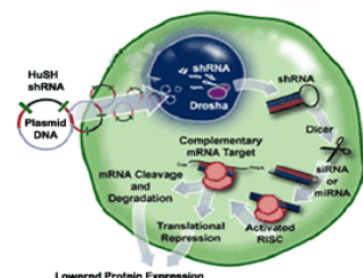
25-27  
November 2016

“Karolos Papoulias” Conference Center  
University of Ioannina, Ioannina

**FINAL PROGRAM**

# Lab Supplies Scientific

Laboratory Reagents – Equipment – Consumables



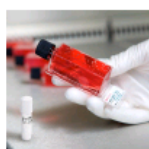
<b>shRNA</b> Human, mouse & rat. <i>Lentiviral shRNA - new!</i>	<b>MicroRNA Expression Plasmids</b> Genome-wide coverage for human & mouse miRNA
<b>siRNA</b> Human, mouse, rat Guaranteed knockdown	<b>MicroRNA qPCR Assays</b> SYBR Green qPCR assays for miRNA expression profiling
<b>Exact shRNA</b> Design against any species, any variant.	<b>3'UTR Clones as MicroRNA Target</b> Study microRNA target and function

Shaping Epigenetics Discovery

Chromatin, DNA methylation, RNA analysis

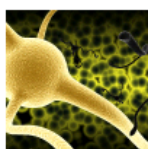


Clontech TaKaRa cellartis



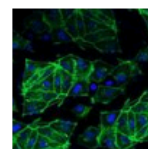
Stem Cell Generation

Stem Cell Culture



Stem Cell Characterization

Stem Cell Differentiation



Stem Cell Modification

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



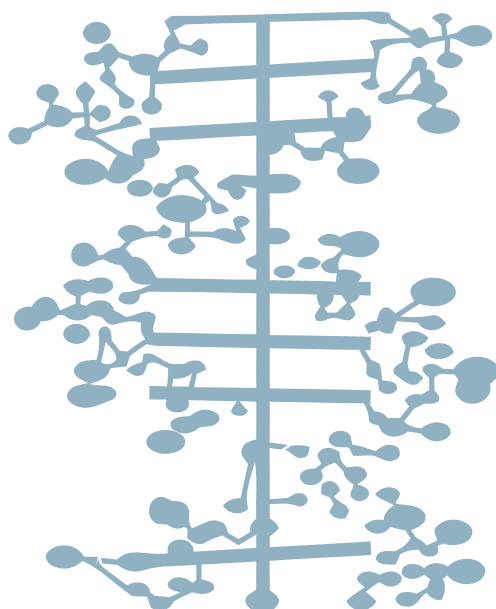
DNA, RNA, and protein purification

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## ORGANIZATION

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### Hellenic Society for Biochemistry and Molecular Biology (HSBMB)

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Soufliou 11, 11257 Athens GREECE

Tel: (+30)-210-6503565

Fax: (+30)-210-6511767

E-mail: [info@eebmb.gr](mailto:info@eebmb.gr)

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### Administrative Board of HSBMB

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

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### Organizing-Scientific Committee

---

<b>President:</b>	Stathis Frilingos
<b>Members:</b>	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 25<sup>th</sup> to November 27<sup>th</sup>, 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 24<sup>th</sup>, 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 25<sup>th</sup>, 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 <sup>1</sup>	55,00 €	70,00 €
Assistant Members <sup>1</sup>	35,00 €	50,00 €
Non-members <sup>1</sup>	100,00 €	135,00 €
Postgraduate Students <sup>2</sup>	35,00 €	50,00 €
Undergraduate Students <sup>3</sup>	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

Tel.: (+30) 2651068610 | Fax: (+30) 2651068611

info@conferre.gr | www.conferre.gr

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## SCIENTIFIC INFORMATION

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### 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 27<sup>th</sup> 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

### Official Speakers' Air Carrier



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### Publishers



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## INVITED SPEAKERS

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**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



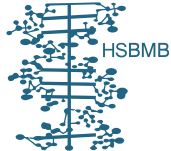
**Iannis Talianidis**

BSRC Al. Fleming, Vari



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## SCIENTIFIC PROGRAM

**67<sup>th</sup>**   
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, 25<sup>th</sup> 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 Skliros<sup>1</sup>, Panos G. Kalatzis<sup>2,3</sup>, Pantelis Katharios<sup>2</sup>, Emmanouil Fletmetakis<sup>1</sup>**

<sup>1</sup>Laboratory of Molecular Biology, Department of Biotechnology, School of Food, Biotechnology and Development, Agricultural University of Athens

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

<sup>3</sup>Marine 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<sup>1,2</sup>, Agnieszka Latosinska<sup>1,3</sup>, Manousos Makridakis<sup>1</sup>, William Mullen<sup>4</sup>, Harald Mischak<sup>3,4</sup>, Maria Roubelakis<sup>2</sup>, Antonia Vlahou<sup>1</sup>**

<sup>1</sup>Biotechnology Laboratory, Centre of Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece

<sup>2</sup>Laboratory of Biology, University of Athens, School of Medicine, Athens, Greece

<sup>3</sup>Mosaiques Diagnostics GmbH, Hannover, Germany

<sup>4</sup>BHF 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 Mokos<sup>1</sup>, Fotis E. Psomopoulos<sup>2,3</sup>, Chrysanthi Ainali<sup>4</sup>, Anagnostis Argiriou<sup>3</sup>, Alexandra Charalampidou<sup>5</sup>, Margarita Hadzopoulou-Cladaras<sup>1</sup>, Dimitra Dafou<sup>1</sup>**

<sup>1</sup>Department of Genetics Development and Molecular Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece

<sup>2</sup>Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece

<sup>3</sup>Institute of Applied Biosciences, Center for Research & Technology Hellas, Thessaloniki, Greece

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

<sup>5</sup>Information Technology (IT) Center, Aristotle University of Thessaloniki, Thessaloniki, Greece

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

**Anargyros Chaliotis<sup>1</sup>, Panayiotis Vlastaridis<sup>1</sup>, Dimitris Mossialos<sup>1</sup>, Michael Ibba<sup>2</sup>, Hubert Becker<sup>3</sup>, Constantinos Stathopoulos<sup>4</sup>, Grigoris D. Amoutzias<sup>1</sup>**

<sup>1</sup>Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece

<sup>2</sup>Department of Microbiology, The Ohio State University, Columbus, Ohio, USA

<sup>3</sup>Institut de Physiologie et de Chimie Biologique (IPCB), Université de Strasbourg, Strasbourg Cedex, France

<sup>4</sup>Department 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<sup>1,2</sup>, Min-Sik Kim<sup>2</sup>, Sartaj Ahmad Mir<sup>2</sup>, Raiha Tahir<sup>2</sup>, Akhilesh Pandey<sup>2</sup>**

<sup>1</sup>*Aristotle University of Thessaloniki, Thessaloniki, Greece*

<sup>2</sup>*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 Dimitriadis<sup>1</sup>, Georgios Sideris-Lampretsas<sup>1</sup>, Eirini Kanata<sup>1</sup>, Dimitra Dafou<sup>2</sup>, Theodoros Sklaviadis<sup>1</sup>**

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

<sup>2</sup>*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<sup>1,3,4,6</sup>, Georgios Tziatzios<sup>2</sup>, Dimitrios Papageorgiou<sup>2</sup>, Spyros Georgatos<sup>3,5</sup>, Efthimios Kaxiras<sup>4,6</sup>, Anastasia S. Politou<sup>1,3</sup>**

<sup>1</sup>*Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Ioannina, Greece*

<sup>2</sup>*Department of Materials Science, University of Ioannina, Ioannina, Greece*

<sup>3</sup>*Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Crete*

<sup>4</sup>*Department of Physics, Harvard University, Boston MA, USA*

<sup>5</sup>*Laboratory of General Biology, Department of Medicine, University of Ioannina, Ioannina, Greece*

<sup>6</sup>*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 Anastasakis<sup>1</sup>, Ilias Skeparnias<sup>1</sup>, Athanasios-Nasir Shaukat<sup>1</sup>, Katerina Grafanaki<sup>1</sup>, Alexandra Kanellou<sup>2</sup>, Stavros Taraviras<sup>2</sup>, Dionysios Papachristou<sup>3</sup>, Athanasios Papakyriakou<sup>4</sup>, Constantinos Stathopoulos<sup>1</sup>**

<sup>1</sup>*Department of Biochemistry, School of Medicine, University of Patras, Greece*

<sup>2</sup>*Department of Physiology, School of Medicine, University of Patras, Greece*

<sup>3</sup>*Department of Anatomy, Histology and Embryology, School of Medicine, University of Patras, Greece*

<sup>4</sup>*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<sup>1,2</sup>, Martin Götte<sup>2</sup>, Nikos K. Karamanos<sup>1</sup>**

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

<sup>2</sup>*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 Roumelioti<sup>1</sup>, Sotirios Sotiriou<sup>2</sup>, Vasiliki Katsini<sup>1</sup>, Maria Chiourea<sup>1</sup>, Thanos Halazonetis<sup>2</sup>, Sarantis Gagos<sup>1</sup>**

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

<sup>2</sup>Department of Molecular Biology, University of Geneva, Switzerland

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

**Nickolaos Nikiforos Giakoumakis<sup>1</sup>, Andreas Panagopoulos<sup>1</sup>, Hideo Nishitani<sup>2</sup>, Stavros Taraviras<sup>3</sup>, Zoi Lygerou<sup>1</sup>**

<sup>1</sup>Department of General Biology, School of Medicine, University of Patras, Patras, Greece

<sup>2</sup>Graduate School of Life Sciences, University of Hyogo, Hyogo, Japan

<sup>3</sup>Department 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 Evangelou<sup>1</sup>, Nikolaos Lougiakis<sup>2</sup>, Sophia Rizou<sup>1</sup>, Athanassios Kotsinas<sup>1</sup>, Panagiotis Galanos<sup>1</sup>, Dimitris Kletsas<sup>3</sup>, Paul Townsend<sup>5</sup>, Manuel Serrano<sup>4</sup>, Jiri Bartek<sup>6,7,8</sup>, Vassilis G. Gorgoulis<sup>1,5,9</sup>**

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

<sup>2</sup>Department of Pharmaceutical Chemistry, Faculty of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece

<sup>3</sup>Laboratory of Cell Proliferation and Ageing, Institute of Biosciences and Applications, National Centre for Scientific Research "Demokritos", Athens, Greece

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

<sup>5</sup>Faculty Institute for Cancer Sciences, Manchester Academic Health Sciences Centre, University of Manchester, Manchester, UK

<sup>6</sup>Danish Cancer Society Research Center, Copenhagen, Denmark

<sup>7</sup>Institute of Molecular and Translational Medicine, Faculty of Medicine and Dentistry, Palacky University, Hnvořinská, Olomouc, Czech Republic

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

<sup>9</sup>Biomedical 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**

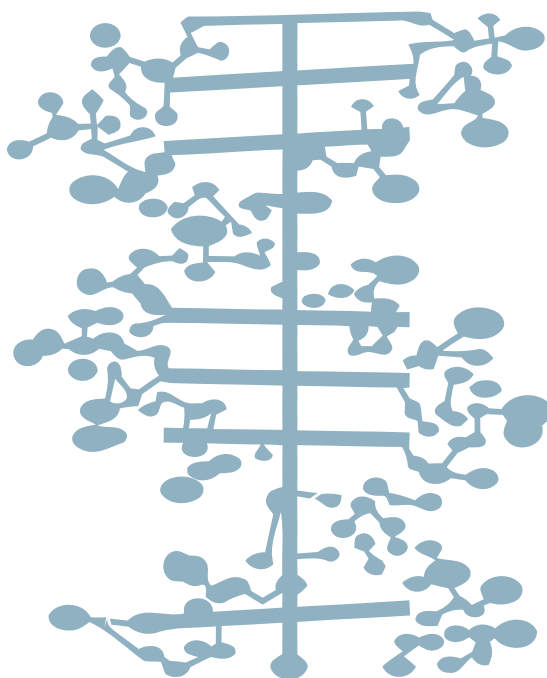
*Department of Physiology, Department of Microbiology, Immunology & Molecular Genetics, Molecular Biology Institute,  
 University of California Los Angeles, Los Angeles, CA*

**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, 26<sup>th</sup> 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 hemin binding proteins (HeBiPr) involved in the intracellular heme trafficking network (IHeTN) in human leukemia cells  
**Vasiliki Dimitra C. Tsolaki<sup>1</sup>, Sofia K. Georgiou<sup>1</sup>, Martina K. Samiotaki<sup>2</sup>, George Panayotou<sup>2</sup>, Asterios S. Tsiftoglou<sup>1</sup>**

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

<sup>2</sup>B.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  $\alpha_{IIb}$  subunit of integrin  $\alpha_{IIb}\beta_3$  on platelet activation and aggregation  
**Alexia V. Gkourogianni<sup>1</sup>, Klytaimnistra Kiouptsi<sup>1</sup>, Vassiliki Koloka<sup>1</sup>, Vassilios Moussis<sup>1</sup>, Vassilios Tsikaris<sup>1</sup>, Christilla Bachelot-Loza<sup>2,3</sup>, Demokritos Tsoukatos<sup>1</sup>**

<sup>1</sup>Department of Chemistry, Sector Of Organic Chemistry and Biochemistry, University of Ioannina, Ioannina, Greece

<sup>2</sup>Université Paris Descartes, Sorbonne Paris Cité, Paris, France

<sup>3</sup>INSERM 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. Makrynitsa<sup>1</sup>, Dioni Ntonti<sup>1</sup>, Konstantinos D. Marousis<sup>1</sup>, Aikaterini C. Tsika<sup>1</sup>, Julie Lichère<sup>2</sup>, Nicolas Papageorgiou<sup>2</sup>, Bruno Coutard<sup>2</sup>, Detlef Bentrop<sup>3</sup>, Georgios A. Spyroulias<sup>1</sup>**

<sup>1</sup>Department of Pharmacy, University of Patras, Patras, Greece

<sup>2</sup>AFMB UMR 7257, CNRS/Aix Marseille Université, Marseille, France

<sup>3</sup>Institute 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 Dhallinas**

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<sup>1,2</sup>, Sofia Bellou<sup>1,3</sup>, Eleni Bagli<sup>1</sup>, Giannis Kalaintzidis<sup>4</sup>, Marko Hyvonen<sup>5</sup>, Angelos Papadopoulos<sup>6</sup>, Athena Kyrkou<sup>1</sup>, Dimitrios Kouroupis<sup>1</sup>, Theodore Fotsis<sup>1,2</sup>, Carol Murphy<sup>6</sup>**

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

<sup>2</sup>*Laboratory of Biological Chemistry, Medical School, University of Ioannina, Greece*

<sup>3</sup>*Department of Engineering Informatics and Telecommunications, University of Western Macedonia, Kozani, Greece*

<sup>4</sup>*Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany*

<sup>5</sup>*Department of Biochemistry, University of Cambridge, UK*

<sup>6</sup>*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<sup>1,2</sup>, Sofia Zografou<sup>1</sup>, Carol Murphy<sup>1,3</sup>, Theodore Fotsis<sup>1,2</sup>, Lucia Morbidelli<sup>4</sup>, Marina Ziche<sup>4</sup>, Christopher Bleck<sup>5</sup>, Jason Mercer<sup>6</sup>, Savvas Christoforidis<sup>1,2</sup>**

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

<sup>2</sup>*Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Ioannina, Greece*

<sup>3</sup>*School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston, Birmingham, UK*

<sup>4</sup>*Department of Life Sciences, University of Siena, Siena, Italy*

<sup>5</sup>*Institute of Biochemistry, Zurich, Switzerland*

<sup>6</sup>*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 Pratsinis<sup>1</sup>, Adamantia Papadopoulou<sup>1</sup>, Cornelia Neidlinger-Wilke<sup>2</sup>, Marco Brayda-Bruno<sup>3</sup>, Hans-Joachim Wilke<sup>2</sup>, Dimitris Kletsas<sup>1</sup>**

<sup>1</sup>*Laboratory of Cell Proliferation & Ageing, Institute of Biosciences & Applications, NCSR "Demokritos", Athens, Greece*

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

<sup>3</sup>*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 TGF $\beta$ -regulated long non-coding RNAs**

**Panagiotis Papoutsoglou<sup>1</sup>, Carl-Henrik Heldin<sup>1</sup>, Aristidis Moustakas<sup>1,2</sup>**

<sup>1</sup>*Ludwig Cancer Research, Science for Life Laboratory, Uppsala University, Uppsala, Sweden*

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

**13:30-13:45** **Phosphorylation by CK1 $\delta$  promotes the nuclear accumulation of HIF-2 $\alpha$  by blocking its CRM1- dependent nuclear export**

**Evanthia Pangou<sup>1</sup>, Christina Befani<sup>1</sup>, Ilias Mylonis<sup>1</sup>, Martina Samiotaki<sup>2</sup>, George Panayotou<sup>2</sup>, George Simos<sup>1</sup>, Panagiotis Liakos<sup>1</sup>**

<sup>1</sup>*Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Larissa, Greece*

<sup>2</sup>*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 Monastirioti<sup>1</sup>, Ioanna Koltzaki<sup>1,2,3</sup>, Nikos Batsiotos<sup>2</sup>, Ioanna Pitsidianaki<sup>1,2</sup>, Christos Delidakis<sup>1,2</sup>**

<sup>1</sup>Institute of Molecular Biology & Biotechnology, FORTH, Heraklion, Greece

<sup>2</sup>Department of Biology, University of Crete, Heraklion, Greece

<sup>3</sup>Current 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

Lab Supplies  
Scientific

**Daniela Haming, Macherey Nagel**  
New innovations from MACHEREY-NAGEL

**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 Castana<sup>1</sup>, Antonia Marazioti<sup>2</sup>, Sofia Nikou<sup>3</sup>, Eleni Papadaki<sup>3</sup>, Georgios T. Stathopoulos<sup>2</sup>, Evangelia Papadimitriou<sup>1</sup>**

<sup>1</sup>Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece

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

<sup>3</sup>Department 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<sup>1,3</sup>, Stuart S. Martin<sup>2</sup>, Panagiotis Katsarlinos<sup>1</sup>, Christos Stournaras<sup>3</sup>, Vassilis Georgoulas<sup>1</sup>**

<sup>1</sup>Laboratory of Tumor Cell Biology, School of Medicine, University of Crete, Heraklion, Greece

<sup>2</sup>Marlene and Stewart Greenbaum Cancer Center, School of Medicine, Department of Physiology, University of Maryland, Baltimore, Maryland, USA

<sup>3</sup>Department 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

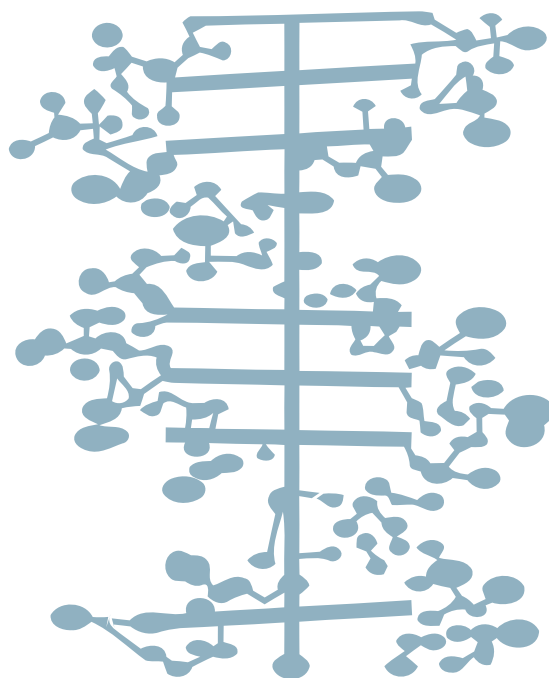
- 17:45-18:00**    **Identification of Drivers of Growth as Potential Tumor Suppressor Genes via Genome Wide CRISPR/Cas9 Knockout Screens**  
**Alexandros P. Drainas**, Theocharis Efthymiopoulos, Sebastian Wazsak, Mike Smith, Adrian Stütz, Benjamin Raeder, Ruxandra A. Lambuta, Christopher Buccitelli, 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 ERα-suppressed breast cancer cells**  
**Theodoros Karalis**, Nikos K. Karamanos, **Spyros S. 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*
- 19:00-19:30**    **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 Vlachou<sup>1</sup>**, Aimilia E. Varela<sup>2</sup>, Athanasia Apostolou<sup>1</sup>, Maria Bellou<sup>1</sup>, Costantinos H. Davos<sup>2</sup>, Yassemi Capetanaki<sup>1</sup>, Stelios Psarras<sup>1</sup>  
<sup>1</sup>Center of Basic Research, Biomedical Research Foundation, Academy of Athens (BRFAA)  
<sup>2</sup>Center 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 Papadaki<sup>1</sup>**, Pinelopi Nikolopoulou<sup>1</sup>, Danit Oz Levi<sup>2</sup>, Doron Lancet<sup>2</sup>, Vassiliki Kostourou<sup>1</sup>  
<sup>1</sup>BSRC Alexander Fleming, Athens, Greece  
<sup>2</sup>Department 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 Pampalakis<sup>1</sup>**, Vasia-Samantha Sykioti<sup>2</sup>, Methodios Ximerakis<sup>2</sup>, Ioanna Stefanakou-Kalakou<sup>1</sup>, Ronald Melki<sup>3</sup>, Kostas Vekrellis<sup>2</sup>, Georgia Sotiropoulou<sup>1,2</sup>  
<sup>1</sup>Department of Pharmacy, University of Patras, Greece  
<sup>2</sup>Center for Neurosciences, Biomedical Research Foundation, Academy of Athens, Greece  
<sup>3</sup>Paris-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, 27<sup>th</sup> 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. Kokkinopoulou<sup>1</sup>, Maria-Ioanna Christodoulou<sup>1,2</sup>, Margaritis Avgeris<sup>1</sup>, Eirini Maratou<sup>2</sup>, Panagiota Mitrou<sup>2</sup>, Euthimios Pappas<sup>2</sup>, Eleni Boutati<sup>3</sup>, Andreas Scorilas<sup>1</sup>, Sotirios A. Raptis<sup>2</sup>, Emmanuel G. Fragoulis<sup>1</sup>**  
<sup>1</sup>Section of Biochemistry and Molecular Biology, Department of Biology, National and Kapodistrian University of Athens, Greece  
<sup>2</sup>Hellenic National Center for Research, Prevention and Treatment of Diabetes Mellitus and its Complications (HNDC), Athens, Greece  
<sup>3</sup>Second 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 Chrysanthopoulou<sup>1</sup>, Panagiotis Skendros<sup>1,2</sup>, Konstantinos Kambas<sup>1</sup>, Athanasios Arampatzoglou<sup>1</sup>, Alexandros Mitsios<sup>1</sup>, Iliana Angelidou<sup>1</sup>, Theocharis Konstantinidis<sup>1</sup>, Dimitrios Ritis<sup>1</sup>, Ioannis Theodorou<sup>3</sup>, Konstantinos Ritis<sup>1,2</sup>**  
<sup>1</sup>Laboratory of Molecular Hematology, Department of Medicine, Democritus University of Thrace, Alexandroupolis, Greece  
<sup>2</sup>First Department of Internal Medicine, Democritus University of Thrace, University General Hospital of Alexandroupolis, Alexandroupolis, Greece  
<sup>3</sup>Université 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 Karayiannis<sup>1</sup>, Androniki Voulgari-Kokota<sup>1</sup>, Beatriz Martinez-Gonzalez<sup>1</sup>, Ioanna Sougleri<sup>1</sup>, Kalliopi Petraki<sup>2</sup>, Andreas Mentis<sup>1</sup>, Dionyssios Sgouras<sup>1</sup>**  
<sup>1</sup>Laboratory of Medical Microbiology, Hellenic Pasteur Institute, Athens, Greece  
<sup>2</sup>Department 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 Frakolaki<sup>1</sup>, Panagiota Kaimou<sup>1</sup>, Konstantinos Kelepouras<sup>1</sup>, Erofilii Giannakopoulou<sup>2</sup>, Vassilios Myrianthopoulos<sup>2</sup>, Giorgos Niotis<sup>1</sup>, Emmanuel Mikros<sup>2</sup>, Ralf Bartenschlager<sup>3,4</sup>, Penelope Mavromara<sup>1,5</sup>, Grigoris Zoidis<sup>2</sup>, Niki Vassilaki<sup>1</sup>**  
<sup>1</sup>Molecular Virology, Hellenic Pasteur Institute, Greece  
<sup>2</sup>Faculty of Pharmacy, University of Athens, Greece  
<sup>3</sup>Department of Infectious Diseases, Molecular Virology, University of Heidelberg, Germany  
<sup>4</sup>German Center for Infection Research, Heidelberg University, Germany  
<sup>5</sup>Department 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<sup>1,2</sup>**, Eleni Tzima<sup>1,2</sup>, Katerina Soupsana<sup>1,2</sup>, Zoe Karetsou<sup>1</sup>, Dimitris Beis<sup>3</sup>, Thomais Papamarcaki<sup>1,2</sup>  
<sup>1</sup>Laboratory of Biological Chemistry, Medical School, University of Ioannina, Greece  
<sup>2</sup>Division of Biomedical Research, Foundation for Research and Technology-Hellas, Institute of Molecular Biology and Biotechnology, Ioannina, Greece  
<sup>3</sup>Developmental Biology, Biomedical Research Foundation Academy of Athens, Greece

**10:30-10:45** BMP2/4 signaling prevents expression of *PlCouP-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 Dimitriou<sup>1</sup>**, Danai K. Meri<sup>1</sup>, Konstantinos Botsakis<sup>2</sup>, Fevronia Angelatou<sup>2</sup>, Marigoula Margarity<sup>3</sup>, Panagiotis K. Politis<sup>4</sup>, Ilias Kazanis<sup>1,5</sup>  
<sup>1</sup>Laboratory of Developmental Biology, Department of Biology, University of Patras, Patras, Greece  
<sup>2</sup>Laboratory of Physiology, Department of Medicine, University of Patras, Patras, Greece  
<sup>3</sup>Laboratory of Human and Animal Physiology, Department of Biology, University of Patras, Patras, Greece  
<sup>4</sup>Center for Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece  
<sup>5</sup>Wellcome 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 Prodromidou<sup>1</sup>**, Ioannis Vlachos<sup>2</sup>, Georgia Kouroupi<sup>1</sup>, Maria Gaitanou<sup>1</sup>, Era Taoufik<sup>1</sup>, Artemis G. Hatzigeorgiou<sup>2</sup>, Rebecca Matsas<sup>1</sup>  
<sup>1</sup>Laboratory of Cellular and Molecular Neurobiology, Hellenic Pasteur Institute, Athens, Greece  
<sup>2</sup>Diana Lab, Hellenic Pasteur Institute, Athens, Greece

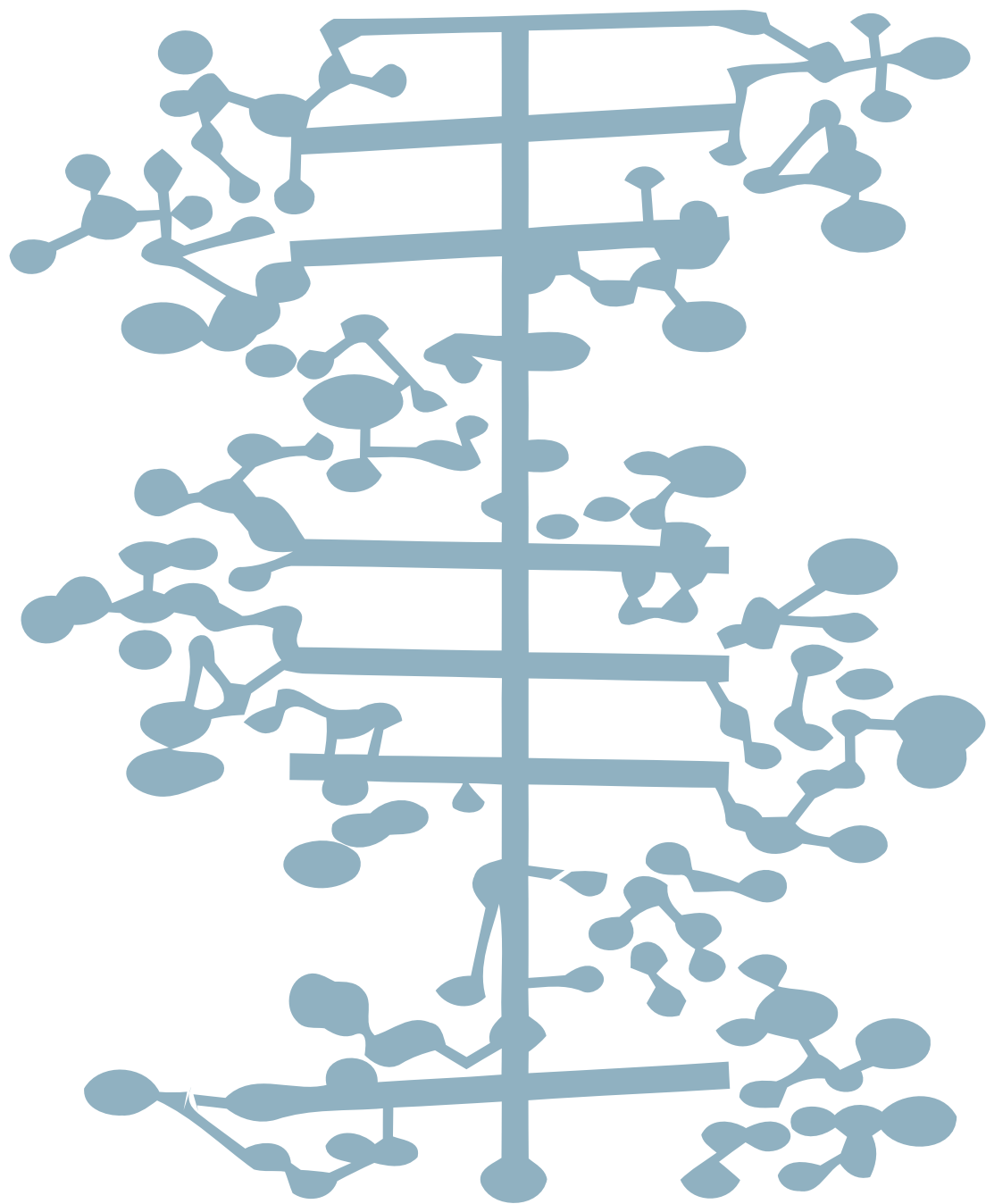
**11:15-11:30** Deletion of Geminin from naive neural stem cells results in microcephaly  
**Argiro Kalogeropoulou<sup>1</sup>**, Alexandra Patmanidi<sup>1</sup>, Paraskevi Tserou<sup>1</sup>, Zoi Lygerou<sup>2</sup>, Stavros Taraviras<sup>1</sup>  
<sup>1</sup>Department of Physiology, School of Medicine, Patras University, Patras, Greece  
<sup>2</sup>Department 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*

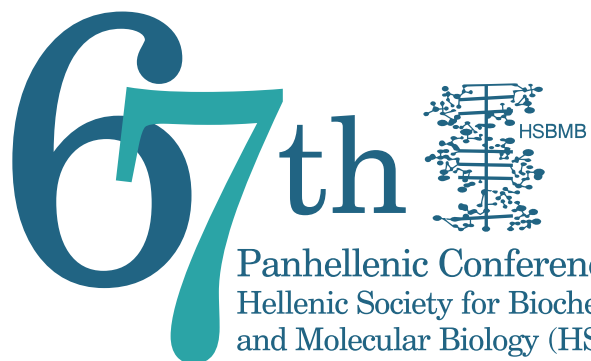
- 12:45-13:00**    **Increased dosage of LBR limits the dynamic range of Nanog fluctuations and downregulates Zscan4 in mouse embryonic stem cells**  
**Ioannis Giannios<sup>1,2</sup>, Katerina Soupsana<sup>1,3</sup>, Eleutheria Chatzantonaki<sup>1,2</sup>, Panagiotis Karakaidos<sup>1,2</sup>, Dimitrios Stellas<sup>4</sup>, Apostolos Klinakis<sup>4</sup>, Anastasia S. Politou<sup>1,3</sup>, Spyros Georgatos<sup>1,2</sup>**  
<sup>1</sup>Stem Cell and Chromatin Group, The Institute of Molecular Biology and Biotechnology, Biomedical Division, FORTH-ITE, Greece  
<sup>2</sup>The Laboratory of Biology, University of Ioannina, School of Medicine, Ioannina, Greece  
<sup>3</sup>The Laboratory of Biological Chemistry, University of Ioannina, School of Medicine, Ioannina, Greece  
<sup>4</sup>Biomedical Research Foundation, Academy of Athens, Athens, Greece
- 13:00-13:15**    **Sox2: To crest or not to crest**  
**Nikolaos Panagiotis Mandalos<sup>1,2</sup>, Eumorphia Remboutsika<sup>1,2,3</sup>**  
<sup>1</sup>National University of Athens Medical School, Department of Pediatrics, Athens, Greece  
<sup>2</sup>Stem Cell Biology Laboratory, Biomedical Sciences Research Centre “Alexander Fleming”, Vari-Attica, Greece  
<sup>3</sup>Adjunct 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 Koutmani<sup>1</sup>, Ioannis A. Gampierakis<sup>1</sup>, Alexia Polissidis<sup>1</sup>, Methodios Ximerakis<sup>2</sup>, Lee L. Rubin<sup>2</sup>, Alexander Polyzos<sup>3</sup>, George Agrogiannis<sup>4</sup>, Efstratios Patsouris<sup>4</sup>, Panagiotis K. Politis<sup>3</sup>, Katia P. Karalis<sup>1,5</sup>**  
<sup>1</sup>Center of Clinical Research, Experimental Surgery and Translational Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece  
<sup>2</sup>Department of Stem Cell and Regenerative Biology, Harvard Stem Cell Institute, Harvard University, Cambridge, USA  
<sup>3</sup>Center of Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece  
<sup>4</sup>Department of Pathology, University of Athens Medical School, Athens, Greece  
<sup>5</sup>Endocrine Division, Children’s Hospital, Harvard Medical School, Boston, USA
- 13:45-14:00**    **Generation of mural cells from human pluripotent stem cells**  
**Maria Markou<sup>1,4</sup>, Dimitrios Kouroupis<sup>1</sup>, Dimitrios Stellas<sup>2</sup>, Carol Murphy<sup>1,3</sup>, Theodore Fotsis<sup>1,3,4</sup>, Eleni Bagli<sup>1,5</sup>**  
<sup>1</sup>Division of Biomedical Research, Institute of Molecular Biology and Biotechnology - FORTH, Ioannina, Greece  
<sup>2</sup>Department of Cancer Biology of the Biomedical Research Foundation of the Academy of Athens, Athens Greece  
<sup>3</sup>School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston, Birmingham, U.K.  
<sup>4</sup>Laboratory of Biological Chemistry, Medical School, University of Ioannina, Ioannina, Greece  
<sup>5</sup>Department 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<sup>1,2</sup>, Eleonora Barka<sup>3</sup>, Marianthi Kontonika<sup>4,5</sup>, Dimitra Florou<sup>1</sup>, Maria Kouvara-Pritsouli<sup>1</sup>, Maria Roumpi<sup>3</sup>, Simeon Agathopoulos<sup>3</sup>, Theofilos M. Kolettis<sup>4,5</sup>, Panos Kouklis<sup>1,2</sup>**  
<sup>1</sup>Laboratory of Biology, Medical School, University of Ioannina, Greece  
<sup>2</sup>Department of Biomedical Research, Institute of Molecular Biology & Biotechnology, Foundation of Research and Technology-Hellas, University Campus, Ioannina, Greece  
<sup>3</sup>Ceramics and Composites Laboratory, Department of Materials Science and Engineering, University of Ioannina, Greece  
<sup>4</sup>Department of Cardiology, University of Ioannina Medical School, Ioannina, Greece  
<sup>5</sup>Cardiovascular Research Institute, Ioannina and Athens, Greece
- 14:30-15:00**    *Closing Ceremony - Prize Awards*  
**Chairs: Dimitris Kletsas, Stathis Frilingos**





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## POSTERS



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 Vlastaridis<sup>1</sup>, Pelagia Kyriakidou<sup>1</sup>, Anargyros Chaliotis<sup>1</sup>, Yves Van de Peer<sup>2</sup>, Steve G. Oliver<sup>3</sup>, Grigoris D. Amoutzias<sup>1</sup>**  
<sup>1</sup>Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece  
<sup>2</sup>Department of Plant Biotechnology and Bioinformatics, VIB, Ghent University, Ghent, Belgium  
<sup>3</sup>Cambridge 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 Farmakori<sup>1</sup>, Martina Samiotaki<sup>2</sup>, George Panayotou<sup>2</sup>, Skarlatos Dedos<sup>1</sup>**  
<sup>1</sup>Department of Biology, National and Kapodistrian University of Athens, Athens, Greece  
<sup>2</sup>Biomedical 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<sup>1,2</sup>, Laxmikanth Kollipara<sup>3</sup>, Chrysanthi Voutyraki<sup>4</sup>, Peter Divanach<sup>4</sup>, Albert Sickmann<sup>3</sup>, George Z. Rassidakis<sup>2,5</sup>, Elias Drakos<sup>6</sup>, Michalis Aivaliotis<sup>1</sup>**  
<sup>1</sup>Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece  
<sup>2</sup>1st Department of Pathology, School of Medicine, National and Kapodistrian University of Athens, Athens, Greece  
<sup>3</sup>Leibniz- ISAS, e.V., Dortmund, Germany  
<sup>4</sup>Department of Chemistry, University of Crete, Heraklion, Greece  
<sup>5</sup>Department of Pathology and Cytology, Karolinska University Hospital and Karolinska Institute, Radiumhemmet, Stockholm, Sweden  
<sup>6</sup>Department 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<sup>1,2</sup>, Laxmikanth Kollipara<sup>3</sup>, Aikaterini Vasileiadou<sup>4</sup>, Albert Sickmann<sup>3</sup>, George Z. Rassidakis<sup>2,5</sup>, Elias Drakos<sup>6</sup>, Michalis Aivaliotis<sup>1</sup>**  
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<sup>2</sup>1st Department of Pathology, School of Medicine, National and Kapodistrian University of Athens, Athens, Greece  
<sup>3</sup>Leibniz- ISAS, e.V., Dortmund, Germany  
<sup>4</sup>Department of Chemistry, University of Crete, Heraklion, Greece  
<sup>5</sup>Department of Pathology and Cytology, Karolinska University Hospital and Karolinska Institute, Radiumhemmet, Stockholm, Sweden  
<sup>6</sup>Department of Pathology, School of Medicine, University of Crete, Heraklion, Greece
- P005** Classification of lymphoma subtypes using comparative proteomic analysis  
**Georgia-Ioanna Kontogianni<sup>1</sup>, Maria-Anna Kalioraki<sup>1</sup>, Konstantina Psatha<sup>2</sup>, Elias Drakos<sup>3</sup>, Michalis Aivaliotis<sup>2</sup>**  
<sup>1</sup>Department of Chemistry, University of Crete, Heraklion, Greece  
<sup>2</sup>Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece  
<sup>3</sup>Department 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 Meletis<sup>1</sup>, Georgios Tsaniklidis<sup>2</sup>, Georgios Aivalakis<sup>2</sup>, Stavros Vemmos<sup>1</sup>**  
<sup>1</sup>Agricultural University of Athens, Laboratory of Pomology, Athens, Greece  
<sup>2</sup>Agricultural 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 Meletis<sup>1</sup>, Georgios Tsaniklidis<sup>2</sup>**  
<sup>1</sup>Agricultural University of Athens, Laboratory of Pomology, Athens, Greece  
<sup>2</sup>Agricultural 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 Zagoriti<sup>1</sup>, Gianluca Perroni<sup>2</sup>, Andreas Papadakis<sup>1</sup>, George Papathanasiou<sup>1</sup>, Irini Zisi<sup>1</sup>, Vincenzo Ambrogi<sup>2</sup>, John S. Tzartos<sup>3</sup>, Konstantinos Poulas<sup>1</sup>  
<sup>1</sup>Laboratory of Molecular Biology and Immunology, Department of Pharmacy, School of Health Sciences, University of Patras, University Campus, Rio, Patras, Greece  
<sup>2</sup>Thoracic Surgery Division and Department of Thoracic Surgery, Policlinico Tor Vergata University, Rome, Italy  
<sup>3</sup>Hellenic Pasteur Institute, Athens, Greece
- P010** Investigation of T-Cell oxidative stress response to exogenous (H<sub>2</sub>O<sub>2</sub>) or endogenous (genetic mutations) redox stimuli using a combined proteomics approach  
George Mermelekas<sup>1,3</sup>, Liselotte Bäckdahl<sup>2,3</sup>, Manousos Makridakis<sup>1</sup>, Vasiliki Bitsika<sup>1</sup>, Vasiliki Lygirou<sup>1</sup>, Georgia Kontostathi<sup>1</sup>, Antonia Vlahou<sup>1,3</sup>, Rikard Holmdahl<sup>2,3</sup>  
<sup>1</sup>Biomedical Research Foundation of the Academy of Athens (BRFAA), Department of Proteomics, Athens, Greece  
<sup>2</sup>Karolinska Institute, Department of Medical Biochemistry and biophysics, Stockholm, Sweden  
<sup>3</sup>Shared first and senior authorships
- P011** Erythropoietic transcription factors networks in beta-thalassemia  
Chrisavgi Tountepki<sup>1,\*</sup>, Giorgos Giagkas<sup>1,\*</sup>, Aikaterini Nanou<sup>1,\*</sup>, Konstantinos Vougas<sup>1</sup>, Nicoletta Bianchi<sup>2</sup>, Lucia Carmela Cosenza<sup>2</sup>, Roberto Gambari<sup>2</sup>, Eleni Katsantoni<sup>1</sup>  
<sup>1</sup>Basic Research Center, Biomedical Research Foundation, Academy of Athens, Athens, Greece  
<sup>2</sup>Department of Life Sciences and Biotechnology, Ferrara University, Ferrara, Italy  
<sup>\*</sup>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<sup>1,2</sup>, Vasiliki Lygirou<sup>1,2</sup>, Jerome Zoidakis<sup>1</sup>, Manousos Makridakis<sup>1</sup>, Antonia Vlahou<sup>1</sup>, Nicholas P. Anagnou<sup>2,3</sup>, Kalliopi I. Pappa<sup>3,4</sup>  
<sup>1</sup>Biotechnology Laboratory, Centre of Basic Research, Biomedical Research Foundation of the Academy of Athens (BRFAA), Athens, Greece  
<sup>2</sup>Laboratory of Biology, University of Athens School of Medicine, Athens, Greece  
<sup>3</sup>Cell and Gene Therapy Laboratory, Centre of Basic Research II, Biomedical Research Foundation of the Academy of Athens (BRFAA), Athens, Greece  
<sup>4</sup>First Department of Obstetrics and Gynecology, University of Athens School of Medicine, Athens, Greece
- P013** Comparative functional genomic investigation of bacterial arylamine N-acetyltransferases  
Vasiliki Garefalaki<sup>1</sup>, Kyriaki Zourlantoni<sup>1</sup>, Olga Savvidou<sup>1</sup>, Ioannis Olbasalis<sup>1</sup>, Tamás Felföldi<sup>2</sup>, Károly Márialigeti<sup>2</sup>, Giannoulis Fakis<sup>1</sup>, Sotiria Boukouvala<sup>1</sup>  
<sup>1</sup>Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece  
<sup>2</sup>Department 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<sup>1,3</sup>, Dimitra Benaki<sup>3</sup>, Nektarios Aligiannis<sup>2</sup>, Alexios-Leandros Skaltsounis<sup>2</sup>, Emmanuel Mikros<sup>3</sup>, Roxane Tenta<sup>1</sup>  
<sup>1</sup>School of Health Sciences and Education, Department of Nutrition and Dietetics, Harokopio University, Athens, Greece  
<sup>2</sup>Faculty of Pharmacy, Department of Pharmacognocny, Panepistimiopolis University of Athens, Athens, Greece  
<sup>3</sup>Faculty 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 Vlachopoulos<sup>1</sup>**, **Katerina Soupsana<sup>2,3</sup>**, **Anastasia S. Politou<sup>2,3</sup>**, **Georgios Papamokos<sup>1,2,3,4,5</sup>**  
<sup>1</sup>Department of Informatics & Telecommunications Technology, Technological Educational Institute of Epirus, Kostakioi, Arta, Greece  
<sup>2</sup>Laboratory of Biological Chemistry, Medical School, University of Ioannina, Greece  
<sup>3</sup>Foundation for Research and Technology, Hellas-Biomedical Research Institute, Ioannina, Greece  
<sup>4</sup>Department of Physics, University of Ioannina, Ioannina, Greece  
<sup>5</sup>Department of Physics and School of Engineering and Applied Sciences, Harvard University, Cambridge, MA, USA
- P019** Linking QSAR and mode of action data to improve the prediction of carcinogens  
**Georgios Papamokos<sup>1,2,3</sup>**, **Ilona Silins<sup>4</sup>**  
<sup>1</sup>Department of Physics and School of Engineering and Applied Sciences, Harvard University, Cambridge, MA, USA  
<sup>2</sup>Department of Physics, University of Ioannina, Ioannina, Greece  
<sup>3</sup>Biomedical Research Division-Institute of Molecular Biology & Biotechnology Foundation for Research & Technology Heraklion, Greece  
<sup>4</sup>Department of Biochemical Toxicology, Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden

## Systems Biology

- P020** The expression patterns of the clock genes period and timeless in the moth *Sesamia nonagrioides* under different photoperiods  
**Dimitris Kontogiannatos**, Theodoros Gkouvisas, 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 Gkouvisas, 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 Nikolaki<sup>1</sup>**, Julian D. Langer<sup>2</sup>, Georgios Tsiotis<sup>1</sup>  
<sup>1</sup>Division of Biochemistry, Chemistry Department, University of Crete, Iraklion, Greece  
<sup>2</sup>Department 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 Seitanidou<sup>1</sup>**, Elias Primetis<sup>1</sup>, Konstantina Psatha<sup>2</sup>, Michalis Aivaliotis<sup>2</sup>  
<sup>1</sup>Department of Chemistry, University of Crete, Heraklion, Greece  
<sup>2</sup>Institute 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. Klapa<sup>1</sup>**, **Matthaios-Emmanouil Papadimitropoulos<sup>1,6</sup>**, **Eleni Galliopoulou<sup>2,3</sup>**, **Spyridoula Anastasopoulou<sup>2</sup>**, **Christina Vassilopoulou<sup>1,6</sup>**, **Antigoni Manousopoulou<sup>4</sup>**, **Silvio Biciatto<sup>5</sup>**, **Spiros Garbis<sup>4</sup>**, **Theologia Sarafidou<sup>3</sup>**, **Nicholas K. Moschonas<sup>1,2</sup>**  
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<sup>2</sup>Laboratory of General Biology, School of Medicine, University of Patras, Greece  
<sup>3</sup>Laboratory of Genetics, Comparative & Evolutionary Biology, Department of Biochemistry and Biotechnology U. of Thessaly, Larissa, Greece  
<sup>4</sup>Clinical and Experimental Sciences Unit, Faculty of Medicine, Institute for Life Sciences, University of Southampton, UK  
<sup>5</sup>Center for Genome Research, Department of Life Sciences, University of Modena and Reggio Emilia, Modena, Italy  
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## Metabolomics

### P025 Blood plasma metabolomics in patients with aspergillosis

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### P026 <sup>1</sup>H 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 chemotherapeutic drug Adriamycin in PC-3 prostate cancer cells

**Katerina Gioti<sup>1</sup>, Georgios Papaefstathiou<sup>3</sup>, Anastasia Papachristodoulou<sup>1,2</sup>, Dimitra Benaki<sup>2</sup>, Nektarios Aligiannis<sup>3</sup>, Alexios-Leandros Skaltsounis<sup>3</sup>, Emmanuel Mikros<sup>2</sup>, Roxane Tenta<sup>1</sup>**

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

**Sophia Tsafou<sup>1</sup>, Athanasios Karkabounas<sup>1</sup>, Vasileios Tatsis<sup>2</sup>, Christos Katsios<sup>2</sup>, Stelios Tigas<sup>3</sup>, Marilena E. Lekka<sup>1</sup>**

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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-Ezra<sup>1</sup>, Monika Oláhová<sup>2</sup>, Francesco Bruni<sup>2</sup>, Robert N. Lightowlers<sup>2</sup>, Zofia M. Chrzanowska-Lightowlers<sup>2</sup>  
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<sup>2</sup>Wellcome Trust Centre for Mitochondrial Research, The Medical School, Newcastle University, Newcastle, UK
- P031** Role of the oncogene KDM2B in the epigenetic regulation of the actin cytoskeleton signaling and motility in cancer cells  
Nepheli 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 $\alpha$   
Kreon Koukoulas<sup>1</sup>, Martina Samiotaki<sup>2</sup>, George Panayotou<sup>2</sup>, George Simos<sup>1</sup>, Ilias Mylonis<sup>1</sup>  
<sup>1</sup>Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Biopolis, Larissa, Greece  
<sup>2</sup>B.S.R.C. "Alexander Fleming", Vari, Greece
- P033** Cell permeable peptides that inhibit activation of HIF-1 $\alpha$  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- $\gamma$  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. Daskalaki<sup>1</sup>, Konstanina Lyroni<sup>2</sup>, Andreas Patsalos<sup>2</sup>, Eleftheria Ieronymaki<sup>2</sup>, Christos Tsatsanis<sup>2</sup>, Sotirios C. Kampranis<sup>1</sup>  
<sup>1</sup>Department of Biochemistry, School of Medicine, University of Crete, Heraklion, Greece  
<sup>2</sup>Department 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 $\alpha$   
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<sup>1,3</sup>, Vaios Nikolopoulos<sup>2</sup>, Stella Mitka<sup>3</sup>, Maria Xatzidimitriou<sup>3</sup>, Kyriakos Kazakos<sup>4</sup>  
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<sup>4</sup>Department 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 Tokamani<sup>1</sup>, Leuteris Miaoulis<sup>1</sup>, Athanasios Karapetsas<sup>1</sup>, Christos Polytarchou<sup>2</sup>, Evangelos Kolettas<sup>3</sup>, Raphael Sandaltzopoulos<sup>1</sup>**  
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- P042** **Novel STAT5 interactions define activation or repression of target genes**  
**Aikaterini Nanou<sup>1</sup>, Chrisavgi Tounpeki<sup>1</sup>, Matthieu D. Lavigne<sup>1</sup>, Vassiliki Lazou<sup>1</sup>, Jeroen Demmers<sup>2</sup>, Triantafillos Paparountas<sup>1</sup>, Dimitris Thanos<sup>1</sup>, Eleni Katsantoni<sup>1</sup>**  
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<sup>2</sup>Proteomics 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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<sup>2</sup>Institute of Molecular Biology & Biotechnology-FORTH, Department of Biomedical Research, Ioannina, Greece

## 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 Tounpeki, Dimitrios Anastasakis, Ioannis Panagoulas, Vassiliki Stamatopoulou, Tassos Georgakopoulos, Sofia Kallia-Raftopoulos, Athanasia Mouzaki, Denis Drinas**  
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<sup>2</sup>Division of Hematology, Department of Internal Medicine, School of Medicine, University of Patras, Patras, Greece

- P049** **Valproic acid-induced HERV-K10 retrotransposition and concomitant glioma cell differentiation are mediated through active endogenous reverse transcriptases**  
**Foteini Gkartziou<sup>1</sup>, Georgios Vartholomatos<sup>2</sup>, Dimitrios Noutsopoulos<sup>1</sup>, Stefania Mantziou<sup>1</sup>, Violetta Maltab<sup>1,5</sup>, Sofia Markoula<sup>3</sup>, Ioannis Georgiou<sup>4</sup>, Athanasios Kyritsis<sup>3</sup>, Theodore Tzavaras<sup>1</sup>**  
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<sup>4</sup>Genetics, University Hospital of Ioannina, Ioannina, Greece  
<sup>5</sup>BRI-IMBB-FORTH

- P050** **p53 loss induces VL30 retrotransposition in mouse fibroblasts**  
**Dimitrios Noutsopoulos<sup>1</sup>, Foteini Gkartziou<sup>1</sup>, Georgios Vartholomatos<sup>2</sup>, Theodore Tzavaras<sup>1</sup>**  
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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 Galanos<sup>1</sup>, George Pappas<sup>1</sup>, Alexander Polyzos<sup>2</sup>, Ioanna Svolaki<sup>1</sup>, Vassilis L. Souliotis<sup>4</sup>, Dimitris Thanos<sup>2</sup>, Evi Soutoglou<sup>5</sup>, Claudia Lukas<sup>6</sup>, Jiri Lukas<sup>6</sup>, Jiri Bartek<sup>7,8,9</sup>, Vassilis G. Gorgoulis<sup>1,2,3</sup>**

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<sup>9</sup>Science for Life Laboratory, Division of Translational Medicine and Chemical Biology, Department of Medical Biochemistry and Biophysics, Karolinska Institute, Stockholm, Sweden

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

**Andreas Panagopoulos<sup>1</sup>, Nickolaos Nikiforos Giakoumakis<sup>1</sup>, Dimitrios Kardamakis<sup>3</sup>, Stavros Taraviras<sup>2</sup>, Zoi Lygerou<sup>1</sup>**

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

**Patroula Nathanailidou<sup>1</sup>, Eirini Kaselimi<sup>1</sup>, Stavros Taraviras<sup>2</sup>, Zoi Lygerou<sup>1</sup>**

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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**

**Eleni Liakou<sup>1</sup>, Eleni Mavrogonatou<sup>1</sup>, Harris Pratsinis<sup>1</sup>, Sophia Rizou<sup>2</sup>, Konstantinos Evangelou<sup>2</sup>, Petros N. Panagiotou<sup>3</sup>, Nikos K. Karamanos<sup>4</sup>, Vassilis G. Gorgoulis<sup>2,5,6</sup>, Dimitris Kletsas<sup>1</sup>**

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

**Korina Atsopardi<sup>1</sup>, Alexandros G. Kokkosis<sup>1,2</sup>, Charalampia Korovila<sup>1</sup>, Orfeas Georgatos<sup>1</sup>, Efthymios Dragotis<sup>3</sup>, Nikolaos T. Panagopoulos<sup>1</sup>, Marigoula Margarity<sup>1</sup>**

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- P056 Deciphering the roles of microRNAs in the senescence response of human fibroblasts**  
**Georgios S. Markopoulos<sup>1,2</sup>, Eugenia Roupakia<sup>1,2</sup>, Maria Tokamani<sup>3</sup>, Georgios Vartholomatos<sup>4</sup>, Maria Hatzia Apostolou<sup>5</sup>, Christos Polytaichou<sup>5</sup>, Raphael Sandaltzopoulos<sup>3</sup>, Evangelos Kolettas<sup>1,2</sup>**  
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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 Botou<sup>1</sup>, Ekaterini Karna<sup>1</sup>, Ekaterini Tatsaki<sup>1</sup>, George Lambrinidis<sup>2</sup>, Emmanuel Mikros<sup>2</sup>, Emmanouil Flemetakis<sup>3</sup>, Stathis Frillingos<sup>1</sup>**  
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<sup>3</sup>Laboratory of Molecular Biology, Department of Agricultural Biotechnology, Agricultural University of Athens, Athens, Greece
- 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 Yalilis, 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 Lazou<sup>1</sup>, Maria Botou<sup>1</sup>, Thomas Evangelidis<sup>2</sup>, Emmanuel Mikros<sup>2</sup>, Stathis Frillingos<sup>1</sup>**  
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<sup>2</sup>Laboratory 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. Boulougouris<sup>1</sup>, Loukas D. Peristeras<sup>2</sup>, Konstantinos Anagnostopoulos<sup>3</sup>**  
<sup>1</sup>Computational Physical Chemistry Laboratory, Department of Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece  
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<sup>3</sup>Laboratory 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**  
**Vasilios Raptis<sup>1</sup>, Achilleas Tsortos<sup>1</sup>, Electra Gizeli<sup>1,2</sup>**  
<sup>1</sup>Institute of Molecular Biology & Biotechnology, FO.R.T.H, Heraklion, Greece  
<sup>2</sup>Department 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. Tsika<sup>1</sup>, Efstathios Melekis<sup>1</sup>, Sofia-Antigoni D. Tsatsouli<sup>1</sup>, Julie Lichière<sup>2</sup>, Christos T. Chasapis<sup>1</sup>, Irene Margioliaki<sup>3</sup>, Nicolas Papageorgiou<sup>2</sup>, Bruno Coutard<sup>2</sup>, Detlef Bontrop<sup>4</sup>, Georgios A. Spyroulias<sup>1</sup>  
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<sup>3</sup>Department of Biology, University of Patras, Patras, Greece  
<sup>4</sup>Institute 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. Marousis<sup>1</sup>, Maria-Polytime Vlachou<sup>1</sup>, Stamatina Tsapardoni<sup>1</sup>, Vasileios Raptis<sup>1</sup>, Maria Birkou<sup>1</sup>, Detlef Bontrop<sup>2</sup>, Vasso Episkopou<sup>3</sup>, Georgios A. Spyroulias<sup>1</sup>  
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<sup>2</sup>University of Freiburg, Institute of Physiology II, Freiburg, Germany  
<sup>3</sup>Imperial College, School of Medicine, London, UK
- P068** Structural study of the RING domain of ARKADIA-2 and its Tryptophan mutants via NMR Spectroscopy  
Revekka D. Karavela<sup>1</sup>, Konstantinos D. Marousis<sup>1</sup>, Danae-Despoina D. Giannari<sup>1</sup>, Maria Birkou<sup>1</sup>, Marina Bouga<sup>1</sup>, Vasso Episkopou<sup>2</sup>, Georgios A. Spyroulias<sup>1</sup>  
<sup>1</sup>Department of Pharmacy, University of Patras, Greece  
<sup>2</sup>Imperial College, School of Medicine, London, UK
- P069** Study of *Ld*TyrPIP<sub>22</sub>, a Tyrosine and Phosphoinositide Phosphatase from *Leishmania donovani*  
Olympia Tziouvara<sup>1</sup>, Anastasia Kotopoulou<sup>1</sup>, Amalia Papadaki<sup>1</sup>, Haralabia Boleti<sup>1,2</sup>  
<sup>1</sup>Intracellular Parasitism group, Department of Microbiology, Hellenic Pasteur Institute, Athens, Greece  
<sup>2</sup>Light Microscopy Unit, Hellenic Pasteur Institute, Athens, Greece
- P070** *Ld*PIBPnex, a secreted nexin-like protein from the protozoan parasite *Leishmania donovani*  
Drosos Kourounis<sup>1</sup>, Amalia Papadaki<sup>1</sup>, Olympia Tziouvara<sup>1</sup>, Haralabia Boleti<sup>1,2</sup>  
<sup>1</sup>Intracellular Parasitism group, Department of Microbiology, Hellenic Pasteur Institute, Athens, Greece  
<sup>2</sup>Light 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 Frilingos  
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 Politi<sup>1</sup>, Georgios Bekoulis<sup>1</sup>, Dioni Dodi<sup>1</sup>, Maria Birkou<sup>1</sup>, Konstantinos D. Marousis<sup>1</sup>, Bruno Coutard<sup>2</sup>, Georgios A. Spyroulias<sup>1</sup>  
<sup>1</sup>Department of Pharmacy, University of Patras, Patra, Greece  
<sup>2</sup>AFMB, UMR 7257 CNRS/ University of Merseille, Merseille, France
- P073** Biochemical characterization of Hesperin  
Rafailia A. A. Beta, Athanasios Kyritsis, Eirini Papanastasi, Georgios A. Stravodimos, Daniela Tsikou, Kalliope 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 Vaiti, 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  $\beta$ -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. Zompra<sup>1</sup>, Aikaterini I. Argyriou<sup>1</sup>, Maria Apostolidi<sup>2</sup>, Christos T. Chasapis<sup>1</sup>, Dionysios Vourtsis<sup>1</sup>, Parthena Konstantinidou<sup>2</sup>, Denis Drainas<sup>2</sup>, Detlef Bentrop<sup>3</sup>, Constantinos Stathopoulos<sup>2</sup>, Georgios A. Spyroulias<sup>1</sup>  
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<sup>2</sup>Department of Biochemistry, School of Medicine, University of Patras, Patras, Greece  
<sup>3</sup>Institute of Physiology II, University of Freiburg, Freiburg, Germany
- P077** NMR study of the H-NOX domain from *Nostoc* sp, a homologue of human soluble Guanylate Cyclase (sGC)  
Aikaterini I. Argyriou<sup>1</sup>, Ioannis I. Alexandropoulos<sup>1</sup>, Andriana Stamopoulou<sup>1</sup>, Marina Bantzi<sup>2</sup>, Athanassios Giannis<sup>2</sup>, Stavros Topouzis<sup>1</sup>, Andreas Papapetropoulos<sup>1,3</sup>, Georgios A. Spyroulias<sup>1</sup>  
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## Biotechnology

- P078** Screening between normal and cancer human thyroid cells through comparative adhesion studies using the Quartz Crystal Microbalance  
Dimitra Chronaki<sup>1,2</sup>, Dimitrios Stratiotis<sup>1,2</sup>, Achilleas Tsortos<sup>2</sup>, Ema Anastasiadou<sup>3</sup>, Electra Gizeli<sup>1,2</sup>  
<sup>1</sup>Department of Biology, University of Crete, Heraklion, Greece  
<sup>2</sup>Institute of Molecular Biology and Biotechnology, FO.R.T.H, Heraklion, Greece  
<sup>3</sup>Center of Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
- P079** Catechin silica nanoparticles bioactive sheath in Cu(II)-induced *in vitro* neurodegeneration  
Christiane M. Nday<sup>1,2</sup>, Eleftherios Halevas<sup>1,3</sup>, Graham Jackson<sup>2</sup>, George Litsardakis<sup>3</sup>, Athanasios Salifoglou<sup>1</sup>  
<sup>1</sup>Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece  
<sup>2</sup>Department of Chemistry, University of Cape Town, Cape Town, South Africa  
<sup>3</sup>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<sup>1,2</sup>, Christiane M. Nday<sup>1,2</sup>, Graham Jackson<sup>2</sup>, George Litsardakis<sup>3</sup>, Athanasios Salifoglou<sup>1</sup>  
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<sup>3</sup>Laboratory of Materials for Electrotechnics, Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 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 Chondrou<sup>1</sup>, Athanasios Karapetsas<sup>1</sup>, Despina-Eugenia Kiousi<sup>1</sup>, Stavros Vasiliadis<sup>1</sup>, Eleftheria Lamprianidou<sup>2</sup>, Ioannis Kotsianidis<sup>2</sup>, Alex Galanis<sup>1</sup>  
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<sup>2</sup>Department of Hematology, Faculty of Health Sciences, Democritus University of Thrace, Alexandroupolis, Greece



- P083** *In vitro* comparative analysis of the antiproliferative activity of probiotic *Lactobacillus* strains on human colorectal adenocarcinoma cells  
**Pelagia Chondrou<sup>1</sup>, Despina-Eugenia Kiouisi<sup>1</sup>, Athanasios Karapetsas<sup>1</sup>, Stavros Plessas<sup>2</sup>, Eugenia Bezirtzoglou<sup>2</sup>, Alex Galanis<sup>1</sup>**  
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<sup>2</sup>Laboratory 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 Kontogiannatos<sup>1</sup>, Luc Swevers<sup>2</sup>, Anna Kourti<sup>1</sup>**  
<sup>1</sup>Department of Biotechnology, School of Food, Biotechnology and Development, Agricultural University of Athens, Athens, Greece  
<sup>2</sup>Insect Molecular Genetics and Biotechnology Group, Institute of Biosciences & Applications, National Centre for Scientific Research “Demokritos”, Athens, Greece
- 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. Michailidou<sup>1</sup>, Xenia K. Apostolopoulou<sup>1</sup>, Theologos N. Lagoumtzis<sup>1</sup>, Ismini-Anna Lappa<sup>1</sup>, Margaritis Avgeris<sup>2</sup>, Efstathios Giaouris<sup>1</sup>, Christos K. Kontos<sup>1,2</sup>**  
<sup>1</sup>Department of Food Science and Nutrition, University of the Aegean, Myrina, Lemnos, Greece  
<sup>2</sup>Department of Biochemistry and Molecular Biology, National and Kapodistrian University of Athens, Athens, Greece
- P087** Skin protective effects of *Nannochloropsis gaditana* extract in oxidative-stressed human dermal fibroblasts  
**Sophia Letsiou<sup>1</sup>, Katerina Kalliampakou<sup>2</sup>, Konstantinos Gardikis<sup>1</sup>, Lalia Mantecón<sup>3</sup>, Carlos Infante<sup>3</sup>, Nikolaos Labrou<sup>2</sup>, Emmanouil Fletmetakis<sup>2</sup>**  
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<sup>3</sup>Fitoplancton Marino, S.L Dársena Comercial S/N (Muelle Pesquero), El Puerto de Santa María (Cádiz), Spain
- P088** Biochemical and Bioinformatics analysis of *Rhodothermus marinus* NAD<sup>+</sup>-dependent DNA ligase  
**Marianna Arvaniti<sup>1</sup>, Katerina C. Nastou<sup>2</sup>, Anna Parageorgiou<sup>1</sup>, Paraskevi L. Tsiolaki<sup>2</sup>, Vassiliki A. Iconomidou<sup>2</sup>, Constantinos Vorgias<sup>1</sup>**  
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<sup>2</sup>Section of Cell Biology and Biophysics, Department of Biology, National and Kapodistrian University of Athens, Panepistimiopolis, Athens 15701, Greece
- P089** Metabolomic and transcriptomic analysis of the green microalga *Nannochloropsis gaditana* under different growth conditions  
**Maria Patelou<sup>1</sup>, Carlos Infante<sup>2</sup>, Evangelia D. Kouri<sup>3</sup>, Chrysanthi Kalloniati<sup>1</sup>, Bonnie S. Watson<sup>3</sup>, Lalia Mantecón<sup>2</sup>, Michael K. Udvardi<sup>3</sup>, Emmanouil Fletmetakis<sup>1</sup>**  
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<sup>2</sup>Fitoplancton Marino SL, Cadiz, Spain  
<sup>3</sup>The Samuel Roberts Noble Foundation, Ardmore, United States
- 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 Aindelis<sup>1</sup>, Angeliki Tiptiri-Kourpeti<sup>1</sup>, Eleni Besiridou<sup>1</sup>, Eleftheria Lamprianidou<sup>2</sup>, Ioannis Kotsianidis<sup>2</sup>, Petros Ypsilantis<sup>3</sup>, Constantinos Simopoulos<sup>3</sup>, Yiannis Kourkoutas<sup>1</sup>, Aglaia Pappa<sup>1</sup>, Katerina Chlichlia<sup>1</sup>**

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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 Papadimitriou<sup>1</sup>, Marina Georgalaki<sup>1</sup>, Georgia Zoumpopoulou<sup>1</sup>, Eleni Mavrogonatou<sup>2</sup>, Gonzalez Van Driessche<sup>3</sup>, Voula Alexandraki<sup>1</sup>, Rania Anastasiou<sup>1</sup>, Marina Papadelli<sup>1</sup>, Maria Kazou<sup>1</sup>, Eugenia Manolopoulou<sup>1</sup>, Dimitris Kletsas<sup>2</sup>, Bart Devreese<sup>3</sup>, Effie Tsakalidou<sup>1</sup>**

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<sup>3</sup>Laboratory for Protein Biochemistry and Biomolecular Engineering, Ghent University, Ghent, Belgium

**Microbiology**

**P093 L-Azetidine-2-carboxylic acid, a toxic proline analogue, is detoxified and catabolized by *Aspergillus nidulans***

**Alda Biratsi<sup>1</sup>, Christos Gournas<sup>2</sup>, Vasiliki Sophianopoulou<sup>1</sup>**

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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 Delladetsima<sup>1</sup>, Foteini Karra<sup>1</sup>, Nikolaos Brokos<sup>1</sup>, Georgios Polemikos<sup>1</sup>, Christos Kontos<sup>1,2</sup>, Efstathios Giaouris<sup>1</sup>**

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**P095 Pepper mild mottle virus as indicator of fecal pollution in water environments of western Greece region**

**Vasiliki Syngouna<sup>1</sup>, Elena Charalambous<sup>2</sup>, Konstantinos Kalogeropoulos<sup>2</sup>, Apostolos Vantarakis<sup>2</sup>**

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**P096 Prevalence of uncultured, unprecedented prokaryotic phylotypes in the sediments of the ancient Lake Pamvotis (Europe-Greece)**

**Anastasia Touka<sup>1</sup>, Katerina Vareli<sup>1,2</sup>, Maria Igglezou<sup>1</sup>, Nikolaos Monokrousos<sup>2</sup>, Dimitrios Alivertis<sup>2</sup>, George Pilidis<sup>2</sup>, John M. Halley<sup>2</sup>, Evangelos Briasoulis<sup>1,3</sup>, Stathis Frillingos<sup>4</sup>, Ioannis Sainis<sup>1,2</sup>**

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**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<sup>1,4,5</sup>, Apostolos Beloukas<sup>2</sup>, Apostolos Vantarakis<sup>3</sup>, Athena Mavridou<sup>4</sup>, Anastasia-Maria Kefala<sup>5</sup>, Alex Galanis<sup>5</sup>**

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<sup>4</sup>Department of Medical Laboratories Technological Educational Institute of Athens, Athens, Greece

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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**

**Alexandros Mitsios<sup>1</sup>, Theocharis Konstantinidis<sup>1</sup>, Konstantinos Kambas<sup>1</sup>, Victoria Tsironidou<sup>1</sup>, Athanasios Arampatzioglou<sup>1</sup>, Iliana Angelidou<sup>1</sup>, Maria Panopoulou<sup>2</sup>, Ioannis Mitroulis<sup>3</sup>, Panagiotis Skendros<sup>1,4</sup>, Konstantinos Ritis<sup>1,4</sup>**

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**Chemical Biology**

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

**Melpomeni Akriovou<sup>1</sup>, Vera Demertzidou<sup>2</sup>, Nikoleta Theodoroula<sup>1</sup>, Nikolaos Grigoriadis<sup>3,4</sup>, Alexandros Zografos<sup>2</sup>, Ioannis S. Vizirianakis<sup>1</sup>**

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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. Chatziathanasiadou<sup>1</sup>, Evgenios Stylos<sup>1,2</sup>, Mohamed El Mubarak<sup>3</sup>, Iliana Leontari<sup>3</sup>, Efstathia Giannopoulou<sup>4</sup>, Maria-Helen Spyridaki<sup>5</sup>, Gregory Sivolapenko<sup>3</sup>, Andreas G. Tzakos<sup>1</sup>**

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

**Magdalini D. Rovoli<sup>1</sup>, Ioannis S. Pappas<sup>2</sup>, George A. Kontopidis<sup>1</sup>**

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**P102 Genetic action assessment of new organotins on human cells cultures**

**Artemis Damati<sup>1</sup>, Dimitrios Vlastos<sup>1</sup>, Athanasios Philippopoulos<sup>2</sup>, Dimitrios Matthopoulos<sup>1</sup>**

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

**Maria Papaioannou<sup>1</sup>, Rigini M. Papi<sup>2</sup>, Maria Melidou<sup>2</sup>, Evangellos Trikas<sup>2</sup>, Maria Liakopoulou-Kyriakides<sup>3</sup>, Dimitrios A. Kyriakidis<sup>2</sup>**

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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**

**Evangelia G. Tsigara<sup>1</sup>, Maria Kakaridi<sup>1</sup>, Haralabos Karantonis<sup>1</sup>, Christos K. Kontos<sup>1,2</sup>**

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**P105**

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

**Maria G. Tsigara<sup>1</sup>, Ioanna Markopoulou<sup>1</sup>, Christos K. Kontos<sup>1,2</sup>, Haralabos Karantonis<sup>1</sup>**

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**P106**

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

**Athanasia Kasouni<sup>1</sup>, Chrysoula Komini<sup>2</sup>, Theoni Trangas<sup>2</sup>, Anastassios Troganis<sup>1</sup>**

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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**

**Sotirios Agapakis<sup>1,2</sup>, Evangelos Kalantzis<sup>2</sup>, Eleni Melliou<sup>1</sup>, Prokopis Magiatis<sup>1</sup>, Dido Vassilacopoulou<sup>2</sup>**

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## Forensic Chemistry

**P108**

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

**Konstantina Kyriakopoulou<sup>1,2,3</sup>, John Ramsey<sup>2</sup>**

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<sup>3</sup>Analytical and Environmental Sciences Division, King's College London, London, UK

**P109**

**The analytical challenge of detecting new psychoactive substances**

**Vassiliki A. Boumba<sup>1,2,3</sup>, Olaf H. Drummer<sup>2,3</sup>, Dimitri Gerostamoulos<sup>3</sup>**

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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  
Kalia Kyriakou<sup>1,2</sup>, Anthi Drousiotou<sup>1,2</sup>, Anna Malekkou<sup>1,2</sup>  
<sup>1</sup>Biochemical Genetics Department, The Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus  
<sup>2</sup>The 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 Mara<sup>1</sup>, George S. Fragiadakis<sup>2</sup>, Evdokia Toumpanaki<sup>1</sup>, Fotios Gkoutromichos<sup>1</sup>, Despina Alexandraki<sup>1,2</sup>  
<sup>1</sup>Department of Biology, School of Sciences and Engineering, University of Crete, Heraklion, Greece  
<sup>2</sup>Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology-Hellas, Heraklion, Greece
- P115** The cytoplasmic Acetoacetyl CoA Thiolase (ACAT2) interacts with the GDP-form of Rab5 and regulates endocytic membrane transport  
Katerina Galanopoulou<sup>1,2</sup>, Thanasis Ziogas<sup>1,2</sup>, Agathi Papanikolaou<sup>1,2</sup>, Marino Zerial<sup>3</sup>, Savvas Christoforidis<sup>1,2</sup>  
<sup>1</sup>Institute of Molecular Biology and Biotechnology-Department of Biomedical Research, Foundation for Research and Technology-Hellas, Greece  
<sup>2</sup>Laboratory of Biological Chemistry, Department of Medicine, School of Health Sciences, University of Ioannina, Greece  
<sup>3</sup>Max Planck Institute of Molecular Cell Biology and Genetics, MPI-CBG, Pfotenhauerstrasse, Germany
- P116** Deregulated DNA replication licensing promotes gene amplification and drug resistance  
Michalis Petropoulos<sup>1</sup>, Ioanna-Eleni Symeonidou<sup>1</sup>, Marina Arbi<sup>1</sup>, Stavros Taraviras<sup>2</sup>, Zoi Lygerou<sup>1</sup>  
<sup>1</sup>Department of General Biology, School of Medicine, University of Patras, Greece  
<sup>2</sup>Department of Physiology, School of Medicine, University of Patras, Greece
- P117** Studying DNA re-replication in *S.pombe* at the population and single-cell level  
Stella Maxouri<sup>1</sup>, Marianna Rapsomaniki<sup>2</sup>, Manuel Ramirez<sup>1</sup>, Nickolaos Nikiforos, Giakoumakis<sup>1</sup>, Patroula Nathanailidou<sup>1</sup>, Stavros Taraviras<sup>3</sup>, John Lygeros<sup>4</sup>, Zoi Lygerou<sup>1</sup>  
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<sup>3</sup>Laboratory of Physiology, School of Medicine, University of Patras, Patras, Greece  
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- P118** The synergistic action of IGF-IR and ER $\alpha$  suppress aggressiveness of breast cancer cells and regulate the expression and localisation of ECM molecules  
Nikolaos A. Afratis<sup>1,2,\*</sup>, Panagiotis Bouris<sup>1,\*</sup>, Spyros S. Skandalis<sup>1</sup>, Hinke A. Multhaupt<sup>2</sup>, John R. Couchman<sup>2</sup>, Achilleas D. Theocharis<sup>1</sup>, Nikos K. Karamanos<sup>1</sup>  
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## Cellular Communication and Signaling

- P119** Ectopic LCK expression defines a unique subpopulation of B cells in chronic lymphocytic leukaemia patients  
Efthymia Theofani<sup>1</sup>, Spiros Alexis<sup>1</sup>, Christos Andriopoulos<sup>1</sup>, Georgia Feleskoura<sup>1</sup>, Alexandros Spyridonidis<sup>1</sup>, Konstantina Nika<sup>2</sup>  
<sup>1</sup>Bone Marrow Transplantation Unit, University Hospital of Patras, Patras  
<sup>2</sup>Department of Biochemistry, School of Medicine, University of Patras, Patras, Greece
- 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 Mikrou<sup>1</sup>, Konstantinos A. Kalimeris<sup>2</sup>, Ioannis Lilis<sup>3</sup>, Nikolaos Papoutsidakis<sup>2</sup>, Konstantinos Nastos<sup>2</sup>, Eleni Papadaki<sup>3</sup>, Georgia G. Kostopanagiotou<sup>2</sup>, Ioannis K. Zarkadis<sup>1</sup>  
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<sup>2</sup>Department of Anesthesiology, School of Medicine, University of Athens, Athens, Greece  
<sup>3</sup>Department of Anatomy, School of Medicine, University of Patras, Patras, Greece
- P122** Regulation of TGF- $\beta$ /Smad signaling by small GTPases RhoA and RhoB  
Melina Livitsanou<sup>1</sup>, Eleftheria Vasilaki<sup>2</sup>, Dimitris Kardassis<sup>3</sup>  
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<sup>2</sup>Ludwig Institute for Cancer Research, Uppsala, Sweden  
<sup>3</sup>Laboratory 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 Lambrianidou<sup>1</sup>, Christos Meristoudis<sup>1</sup>, Katerina Soupsana<sup>2,3</sup>, Theoni Trngas<sup>1</sup>  
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<sup>3</sup>Biomedical Research Division, IMBB-FORTH, Ioannina, Greece
- P125** ActRIIB - interacting proteins in Activin A signal transduction: The role of PLEKHH2 protein  
Anthimos Anthimou<sup>1</sup>, Sofia Bellou<sup>1</sup>, Nikoleta Kostopoulou<sup>1,2</sup>, Angelos Papadopoulos<sup>1,2</sup>, Anastasia Kougoumtzi<sup>1,2</sup>, Carol Murphy<sup>1,3</sup>, Theodore Fotsis<sup>1,2,3</sup>  
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<sup>3</sup>School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston Birmingham, United Kingdom
- P126** Low oxygen tension modulates integrin gene expression and microvascular endothelial angiogenic functions  
Christina Befani, Panagiotis Liakos  
 Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Larissa, Greece
- P127** The role of HSP90 in modulating the CLAVATA pathway  
Dimitra Spanou<sup>1</sup>, Efstathios Trigazis<sup>1</sup>, Despina Samakovli<sup>1,2</sup>, Loukia Roka<sup>1</sup>, Dimitra Milioni<sup>1</sup>, Polydefkis Hatzopoulos<sup>1</sup>  
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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 $\alpha$  induces the activation of TGF- $\beta$  and IL-8 pathways in breast cancer cells**  
**Anastasia Sopaki-Valalaki**<sup>1,2</sup>, Aristidis Moustakas<sup>2</sup>, Panagiotis Bouris<sup>1,2</sup>, Dimitra Manou<sup>1</sup>, Anthi Kolokotroni<sup>1</sup>, Nikos K. Karamanos<sup>1</sup>, Achilleas D. Theocharis<sup>1</sup>  
<sup>1</sup>Laboratory of Biochemistry, Department of Chemistry, University of Patras, Patras, Greece  
<sup>2</sup>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 Velivasi**<sup>1</sup>, Martina Samiotaki<sup>2</sup>, Eirini Kitsioulis<sup>1</sup>, George Panayotou<sup>2</sup>, Marilena E. Lekka<sup>1</sup>  
<sup>1</sup>Laboratory of Biochemistry, Chemistry Department, School of Science, University of Ioannina, Ioannina, Greece  
<sup>2</sup>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 Christopoulou**<sup>1</sup>, Konstantina Bourouti<sup>1</sup>, Ioannis Trilivas<sup>2</sup>, Eleftheria Giannopoulou<sup>3</sup>, Nikolaos Pharmakakis<sup>2</sup>, Alexios J. Aletras<sup>1</sup>  
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<sup>2</sup>Department of Ophthalmology, Medical School, University of Patras, Patras, Greece  
<sup>3</sup>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 Kordou**<sup>1</sup>, Maria Magiati<sup>1</sup>, Maria-Elpida Christopoulou<sup>1</sup>, Eleftheria Giannopoulou<sup>2</sup>, Alexios J. Aletras<sup>1</sup>  
<sup>1</sup>Laboratory of Biochemistry, Department of Chemistry, School of Sciences, University of Patras, Patras, Greece  
<sup>2</sup>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 $\alpha$ -suppressed breast cancer cells**  
**Panagiotis Bouris**<sup>1,2</sup>, **Anastasia Sopaki-Valalaki**<sup>2</sup>, Nikos K. Karamanos<sup>2</sup>, Achilleas D. Theocharis<sup>2</sup>, Aristidis Moustakas<sup>1</sup>  
<sup>1</sup>Department of Medical Biochemistry and Microbiology and Ludwig Institute for Cancer Research, Biomedical Center, Uppsala University, Sweden  
<sup>2</sup>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**  
**Sophia Harisiou**<sup>1</sup>, Dimitrios Karatzas<sup>2</sup>, Athanasios Pseftogas<sup>2</sup>, Petros Kouridakis<sup>3</sup>, Minas Arsenakis<sup>2</sup>, George Mosialos<sup>2</sup>, Eudoxia Hatzivassiliou<sup>1</sup>  
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<sup>3</sup>2nd Surgical Clinic, 424 General Military Hospital of Thessaloniki, Thessaloniki, Greece
- P137** **Translational control of Serrate expression in *Drosophila* cells**  
**Georgia Deliconstantinos**<sup>1</sup>, Konstantina Kalodimou<sup>1</sup>, Christos Delidakis<sup>2</sup>  
<sup>1</sup>Institute of Molecular Biology and Biotechnology, F.O.R.T.H., Heraklion, Crete  
<sup>2</sup>Department of Biology, University of Crete

- 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  
**Adamantia Papadopoulou<sup>1</sup>, Anna Eliades<sup>2</sup>, Theodore Eliades<sup>3</sup>, Dimitris Kletsas<sup>1</sup>**  
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<sup>2</sup>Department of Orthodontics, School of Dentistry, University of Athens, Greece  
<sup>3</sup>Department of Orthodontics and Paediatric Dentistry, University of Zurich, Switzerland
- P140** Exosomal microRNAs contribute to HNF4α-mediated liver carcinogenesis  
**Athina Apatsidou<sup>1,2</sup>, Evdokia Bantotaki<sup>2</sup>, Myrtilia Stoukides<sup>3</sup>, Eleni Nikolakaki<sup>4</sup>, Georgios Germanidis<sup>5</sup>, Georgios Grammatikos<sup>6</sup>, Emmanuel Panteris<sup>7</sup>, Margarita Hadzopoulou-Cladaras<sup>2</sup>, Dimitra Dafou<sup>2</sup>**  
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<sup>6</sup>Department of Medicine, University Hospital Frankfurt, Germany  
<sup>7</sup>Department 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<sub>2A</sub> adenosine receptors  
**Paraskevi Kraniou<sup>1</sup>, Aggeliki Dimopoulou<sup>1</sup>, Konstantinos Sarantis<sup>1</sup>, Eirini Tsiamakou<sup>1</sup>, Nikolaos Matsokis<sup>2</sup>, Fevronia Angelatou<sup>1</sup>**  
<sup>1</sup>Physiology Department, Medical School, University of Patras, Patras, Greece  
<sup>2</sup>Laboratory 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<sub>2A</sub> adenosine receptors  
**Eleni Dimou<sup>1</sup>, Konstantinos Sarantis<sup>1</sup>, Eirini Tsiamakou<sup>1</sup>, Nikolaos Matsokis<sup>2</sup>, Fevronia Angelatou<sup>1</sup>**  
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<sup>2</sup>Laboratory 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 Tsiomita<sup>1</sup>, George J. Mavrothalassitis<sup>2,3</sup>, George Thyphronitis<sup>1</sup>**  
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<sup>2</sup>IMBB, FORTH, Heraklion, Crete, Greece  
<sup>3</sup>Medical School, University of Crete, Heraklion, Crete, Greece
- P144** Spinophilin, a new player in δ-opioid receptor signaling  
**Sofia Koutoglou, 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<sup>1,2</sup>, Joseph Papamatheakis<sup>3,4</sup>, Theologos M. Michaelidis<sup>1,2</sup>**  
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<sup>4</sup>Department of Biology, University of Crete

## Molecular and Cellular Basis of Human Disease I : Cancer

- P146 A conditional mouse model of malignant pleural mesothelioma**  
**Anthi C. Krontira<sup>1</sup>, Malamati Vreka<sup>1,2</sup>, Marianthi Iliopoulou<sup>1</sup>, Ioannis Lilis<sup>1</sup>, Theodora Agalio<sup>1</sup>, Nikoletta Spiropoulou<sup>1</sup>, Georgia A. Giotopoulou<sup>1</sup>, Magda Spella<sup>1</sup>, Antonia Marazioti<sup>1</sup>, Georgios T. Stathopoulos<sup>1,2</sup>**  
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<sup>2</sup>Comprehensive Pneumology Center, Munich, Germany
- P147 cAMP-response element binding protein in KRAS-driven lung adenocarcinoma**  
**Georgia A. Giotopoulou<sup>1</sup>, Nikoletta Spiropoulou<sup>1</sup>, Evanthia Tourkochristou<sup>1</sup>, Nikolaos I. Kanellakis<sup>1</sup>, Ioannis Lilis<sup>1</sup>, Anthi C. Krontira<sup>1</sup>, Antonia Marazioti<sup>1</sup>, Georgios T. Stathopoulos<sup>1,2</sup>**  
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<sup>2</sup>Comprehensive 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 Karanatsiou<sup>1</sup>, Marilena Argyropoulou<sup>1</sup>, Aikaterini Manolakelli<sup>1</sup>, Ifigenia Kostoglou-Athanassiou<sup>2</sup>, George Vilaras<sup>3</sup>, Andreas Karameris<sup>3</sup>, Kalliopi Liadaki<sup>1</sup>**  
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<sup>3</sup>Department of Pathology, Section of Molecular Pathology, 417 Veterans Administration Hospital (N.I.M.T.S.), Athens, Greece
- P149 PIK3CA oncogenic mutations in colon cancer**  
**Anastasia Kougioumtzi<sup>1,2</sup>, Athena Kyrkou<sup>1</sup>, Argiris Efstratiadis<sup>3</sup>, Carol Murphy<sup>4</sup>, Theodore Fotsis<sup>1,2</sup>**  
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<sup>4</sup>School 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<sup>1,2</sup>, Ioannis P. Tsigkas<sup>1,2</sup>, Theologos M. Michaelidis<sup>1,2</sup>**  
<sup>1</sup>Department of Biological Applications and Technologies, University of Ioannina, Ioannina, Greece  
<sup>2</sup>Department of Biomedical Research, Institute of Molecular Biology & Biotechnology, Foundation for Research and Technology, Ioannina, Greece
- 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 Kati<sup>1</sup>, Vasilleios Armenis<sup>1</sup>, Kristina Arendt<sup>2</sup>, Georgios T. Stathopoulos<sup>1,2</sup>**  
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<sup>2</sup>Helmholtz Zentrum Muenchen, Deutsches Forschungszentrum fuer Gesundheit und Umwelt (GmbH), Neuherberg, Germany
- P154 ADAMTS expression in laryngeal cancer**  
**Konstantina Kakatsou<sup>1</sup>, Theodoros Papadas<sup>2</sup>, Demitrios H. Vynios<sup>1</sup>**  
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- P155 Inflammation-driven colon neoplasmatogenesis in uPA-deficient mice is associated with an increased expression of Runx transcriptional regulators**  
**Hara Afaloniati<sup>1</sup>, George S. Karagiannis<sup>2</sup>, Alexandros Hardas<sup>3</sup>, Theofilos Poutahidis<sup>3</sup>, Katerina Angelopoulou<sup>1</sup>**  
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<sup>3</sup>Laboratory of Pathology, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 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?**  
**Styliani Vasileiou<sup>1,2,3</sup>, Dimitrios H. Vynios<sup>3</sup>, François-Xavier Maquart<sup>1,2,4</sup>, Yanusz Wegrowski<sup>1,2</sup>, Stéphane Brézillon<sup>1,2</sup>**  
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<sup>3</sup>Laboratory of Biochemistry, Department of Chemistry, University of Patras, Patras, Greece  
<sup>4</sup>CHU de Reims, Laboratoire central de Biochimie, Reims, France
- P158 Development and progression of non melanoma skin cancer is inhibited in *Klk6*<sup>-/-</sup> mice**  
**Nicola Khoury<sup>1,2,3</sup>, Georgios Pampalakis<sup>1</sup>, Eleni Zingkou<sup>1</sup>, Vassilis Zoumpourlis<sup>2</sup>, Georgia Sotiropoulou<sup>1</sup>**  
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<sup>2</sup>Unit of Biomedical Applications, Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation, Athens, Greece
- P159 Expression of the ILK-PINCH-PARVIN (IPP) complex and its binding partner Rsu-1 in human non-small cell lung cancer**  
**Sofia Nikou<sup>1</sup>, Theodora Agalioti<sup>2</sup>, Maria Vasilopoulou<sup>1</sup>, Maria Makrygianni<sup>1</sup>, Vassiliki Zolota<sup>3</sup>, Georgios T. Stathopoulos<sup>2</sup>, Eleni Papadaki<sup>1</sup>, Vassiliki Bravou<sup>1</sup>**  
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<sup>3</sup>Department of Histopathology, General University Hospital of Patras, Rio, Patras, Greece
- P160 LIMK-cofilin pathway and N-WASP are implicated in human colorectal cancer progression**  
**Helen Aggelou, Polyxeni Christou, Panagiota Hadla, Sofia Nikou, Vassiliki Bravou**  
Department of Anatomy-Histology-Embryology, School of Medicine, University of Patras, Rio Patras, Greece
- P161 Integrin linked kinase signaling is involved in colon cancer chemoresistance**  
**Dimitrios Tsoumas<sup>1</sup>, Efstathia Giannopoulou<sup>2</sup>, Christina Geramoutsou<sup>1</sup>, Sofia Nikou<sup>1</sup>, Haralambos Kalofonos<sup>2</sup>, Vassiliki Bravou<sup>1</sup>**  
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<sup>2</sup>Department of Molecular Oncology, School of Medicine, University of Patras, Rio, Patras, Greece
- P162 Overexpression of RNase k is associated with markers of favorable prognosis in prostate cancer**  
**Athina Kladi-Skandalis<sup>1</sup>, Konstantinos Mavridis<sup>1</sup>, Konstantinos Stravodimos<sup>2</sup>, Diamantis Sideris<sup>1</sup>**  
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<sup>2</sup>First Department of Urology, “Laiko” University Hospital, Faculty of Medicine, University of Athens, Athens, Greece



- 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<sup>1,\*</sup>, Eumorphia G. Konstantakou<sup>1,2,\*</sup>, Athanassios D. Velentzas<sup>1</sup>, Socratis N. Avgeris<sup>3</sup>, Margaritis Avgeris<sup>4</sup>, Anastasia Prombona<sup>5</sup>, Popi Syntichaki<sup>6</sup>, Ema Anastasiadou<sup>7</sup>, Athanasios G. Papavassiliou<sup>8</sup>, Gerassimos E. Voutsinas<sup>3</sup>, Andreas Scorilas<sup>4</sup>, Dimitrios J. Stravopodis<sup>1</sup>**  
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- P164 Loss of ER $\alpha$  induces the up-regulation of HAS2, CD44 and moesin in breast cancer cells**  
**Theodoros Karalis<sup>1</sup>, Paraskevi Heldin<sup>2</sup>, Evangelia Papadimitriou<sup>3</sup>, Demitrios H. Vynios<sup>1</sup>, Nikos K. Karamanos<sup>1</sup>, Spyros S. Skandalis<sup>1</sup>**  
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<sup>2</sup>Ludwig Institute for Cancer Research, Uppsala University, Sweden  
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- P165 Loss of IKK $\beta$  reduces cell proliferation and impairs lung cancer development**  
**Eugenia Roupakia<sup>1,2</sup>, Evangelia Chavdouda<sup>3</sup>, Georgios S. Markopoulos<sup>1,2</sup>, Frank O. Fackelmayer<sup>2</sup>, Apostolos Klinakis<sup>3</sup>, Kenneth B. Marcu<sup>4</sup>, Evangelos Kolettas<sup>1,2</sup>**  
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- P166 Functional role of IKK $\alpha$  in non-small cell lung carcinogenesis**  
**Evangelia Chavdouda<sup>1</sup>, Eugenia Roupakia<sup>2,3</sup>, Georgios S. Markopoulos<sup>2,3</sup>, Antonis Kokkalis<sup>1</sup>, Alexander Polyzos<sup>1</sup>, Frank O. Fackelmayer<sup>3</sup>, Dimitris Thanos<sup>1</sup>, Apostolos Klinakis<sup>1</sup>, Kenneth B. Marcu<sup>1,3,4</sup>, Evangelos Kolettas<sup>2,3</sup>**  
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- P167 Targeting mTOR complexes and ribosomal S6 kinases for the development of novel therapies for thyroid cancer**  
**Ioanna Kotsoni<sup>1,2</sup>, Miltiades Tsesmelis<sup>1,2</sup>, Chrsiida Tsimplouli<sup>1</sup>, Evangelia Sereti<sup>1</sup>, Nikos Sakellaris<sup>1</sup>, Aspasia Tsezou<sup>2</sup>, Konstantinos Dimas<sup>1</sup>**  
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- P168 The histone demethylase LSD1 is a potential drug target in breast cancer stem cells**  
**John Verigos<sup>1,2</sup>, Michalis D. Mantzaris<sup>3</sup>, Angeliki Magklara<sup>1,2</sup>**  
<sup>1</sup>Laboratory of Clinical Chemistry, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece  
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<sup>3</sup>Laboratory of Biological Chemistry, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece
- P169 Drug screening in 2D and 3D primary glioblastoma cell cultures: A preliminary study**  
**Eleftheria Parasiraki<sup>1,2</sup>, Mariam-Eleni Oraipoulou<sup>3,4</sup>, Vaggelis Sakkalis<sup>4</sup>, Antony Vakis<sup>3,5</sup>, Giannis Zacharakis<sup>6</sup>, Joseph Papamatheakis<sup>1,2</sup>**  
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<sup>5</sup>Neurosurgery Clinic, University General Hospital of Heraklion  
<sup>6</sup>In vivo Optical Imaging Laboratory, Institute of Electronic Structure and Laser, FORTH
- P170 Alterations of TH17 and Terminal Effector CD8<sup>+</sup> 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**  
Department of Hematology, Democritus University of Thrace, Alexandroupolis, Greece
- 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 Paliogianni<sup>1</sup>, Eugenia Lympiraki<sup>1</sup>, Theodore Lialiaris<sup>2</sup>, Maria Barmakoudi<sup>3</sup>**  
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- P174 LDL and HDL lipoprotein subtype frequency in patients with rheumatoid arthritis before and after administration of anti-TNF $\alpha$**   
**Maria Karakota, Marina Zakalka, George Koliakos**  
Laboratory of Biological Chemistry, Department of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 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**  
**Asimenia Arampatzi<sup>1,\*</sup>, Aikaterini Poulikarakou<sup>1,\*</sup>, Constantinos Mimidis<sup>2</sup>, Ioannis Tentes<sup>3</sup>**  
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<sup>3</sup>Laboratory of Biochemistry, Medical School, Democritus University of Thrace, Alexandroupolis, Greece  
<sup>\*</sup>equal contribution
- P176 Development of mouse models expressing human apoA-I mutants that are resistant to MPO-induced oxidation**  
**Katerina Karagouni-Dalakoura<sup>1,2</sup>, Ioanna Tiniakou<sup>3</sup>, Dimitris Kardassis<sup>1,2</sup>**  
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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. Braliou<sup>1</sup>, Eleni Vrigou<sup>2</sup>, Maria L. Kampa<sup>1</sup>, Christina S. Vasiliou<sup>1</sup>, Panagiota I. Kontou<sup>1</sup>, Argyri Gialeraki<sup>2</sup>, Argirios E. Tsantes<sup>2</sup>, Iraklis Tsangaris<sup>3</sup>, Pantelis G. Bagos<sup>1</sup>**  
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- P178 Selective mitochondrial targeting exerts anxiolytic effects**  
**Markus Nussbaumer<sup>1</sup>, John M. Asara<sup>2</sup>, Larysa Teplytska<sup>1</sup>, Mike P. Murphy<sup>3</sup>, Alon Chen<sup>1</sup>, Chris Turck<sup>1</sup>, Michaela D. Filiou<sup>1</sup>**  
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- P179 A novel double knockout (*Spink5*<sup>-/-</sup>/*Klk6*<sup>-/-</sup>) 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 Grafanaki<sup>1</sup>, Konstantinos Evangelou<sup>2</sup>, Dimitrios Anastasakis<sup>1</sup>, George Kyriakopoulos<sup>1</sup>, Stavros Symeonidis<sup>1</sup>, Panagiotis Megas<sup>2</sup>, Constantinos Stathopoulos<sup>1</sup>**  
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<sup>2</sup>Department of Orthopaedics, School of Medicine and University Hospital of Patras, Greece
- 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**  
 Department of Molecular Biology and Genetics, Democritus University of Thrace, Greece
- P182 ETS2 Repressor Factor (ERF) - associated craniosynostosis: molecular mechanisms and therapeutic approaches**  
**Angeliki C. Vogiatzi<sup>1,2</sup>, Konstantinos A. Makris<sup>1,2,3</sup>, George J. Mavrothalassitis<sup>1,2</sup>**  
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- P183 Effect of PLA2 inhibitors against  $\alpha$ -synuclein mediated toxicity**  
**Mary Xylaki<sup>1</sup>, Evangelia Emmanouilidou<sup>1</sup>, Victoria Magrioti<sup>2</sup>, George Kokotos<sup>2</sup>, Kostas Vekrellis<sup>1</sup>**  
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<sup>2</sup>Laboratory 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<sup>1\*</sup>, Athanasios Roumeliotis<sup>2</sup>, Fotis Tsetsos<sup>1</sup>, Xanthippi Tsekmekidou<sup>3</sup>, Stefanos Roumeliotis<sup>2</sup>, Marios Theodoridis<sup>2</sup>, Nikolaos Papanas<sup>4</sup>, Dimitrios Papazoglou<sup>4</sup>, Ioannis Giovos<sup>3</sup>, Ilias Thodis<sup>2</sup>, Stylianos Panagoutsos<sup>2</sup>, Kalliopi Kotsa<sup>3</sup>, Ploumis Passadakis<sup>2</sup>, Peristera Paschou<sup>1</sup>, Marianthi Georgitsi<sup>1,5\*</sup>**  
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- P185 Heterologous expression of  $\alpha$ -synuclein in *Saccharomyces cerevisiae* under Caloric Restriction leads to alterations in gene expression of crucial metabolic yeast cell pathways**  
**Evangelos Sfikas, Amalia Sofia Afendra**  
 Department of Biological Applications and Technologies, School of Health Sciences, University of Ioannina, Ioannina, Greece

- P186 Protein-energy wasting in patients with end-stage renal disease: a clinical proteomics study**  
**Maria Stavrou<sup>1</sup>, Konstantina Psatha<sup>2</sup>, Eugeneios Dafnis<sup>3</sup>, Konstantinos Stylianou<sup>3</sup>, Anastasia Markaki<sup>4</sup>, Michalis Aivaliotis<sup>2</sup>**  
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<sup>3</sup>Nephrology Department, University Hospital of Heraklion, Crete, Greece  
<sup>4</sup>Department of Nutrition and Dietetics, TEI of Crete, Greece
- P187 In vitro and in vivo antiplatelet properties of insulin**  
**Anastasia Mikellidi<sup>1</sup>, Andrea Paola Rojas Gil<sup>1,3</sup>, George Stamatakis<sup>2</sup>, Smaragdi Antonopoulou<sup>1</sup>, Constantine A. Demopoulos<sup>2</sup>, Tzortzis Nomikos<sup>1</sup>**  
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<sup>3</sup>Department 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 Papadopoulou<sup>1</sup>, Konstantina Tsoni<sup>2</sup>, Vasiliki Drosou-Agakidou<sup>2</sup>, Marika Syrrou<sup>1</sup>**  
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<sup>2</sup>1st Neonatal Department and NICU, Hippokraton General Hospital, Aristotle University of Thessaloniki, Greece
- P189 Mechanical stress, methylation analysis of GNAS isoforms and osteogenic differentiation of hAT-MSCs**  
**Angeliki-Maria Vlaikou<sup>1</sup>, Dimitrios Kouroupis<sup>2</sup>, Argyro Sgourou<sup>3</sup>, Georgios S. Markopoulos<sup>1,2</sup>, Zoe Papadopoulou<sup>1</sup>, Theodore Fotsis<sup>2</sup>, Georgios Nakos<sup>4</sup>, Marilena E. Lekka<sup>5</sup>, Marika Syrrou<sup>1</sup>**  
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<sup>5</sup>Laboratory 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 Kempapidou<sup>1</sup>, Eleni Kovaci<sup>1</sup>, Paschalis Theotokis<sup>2</sup>, Olga Touloumi<sup>2</sup>, Eva Nousiopolou<sup>2</sup>, Roza Lagoudaki<sup>2</sup>, Eirini Kanata<sup>1</sup>, Dimitra Dafou<sup>3</sup>, Nikolaos Grigoriadis<sup>2</sup>, Theodoros Sklaviadis<sup>1</sup>**  
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<sup>3</sup>Developmental 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<sup>1,2</sup>, Maria Kokkali<sup>1,2</sup>, Theologos M. Michaelidis<sup>1,2</sup>**  
<sup>1</sup>Biomedical Research Institute, Foundation for Research and Technology-Hellas, Ioannina  
<sup>2</sup>Department of Biological Applications and Technology, University of Ioannina
- P193 The association of obesity with cognitive function in elderly with Diabetes Mellitus**  
**Konstantinos Kalesis<sup>1</sup>, Xanthippi Tsekmekidou<sup>1</sup>, Vaios Nikolopoulos<sup>2</sup>, Athanasia Tajia<sup>1</sup>, Kyriakos Kazakos<sup>3</sup>, Asterios Batos<sup>4</sup>, Petros Pappas<sup>5</sup>, Panagiotis Tsaklis<sup>6</sup>, Sofia Dimopoulou<sup>5</sup>, Kalliopi Kotsa<sup>7</sup>**  
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- P194** **Determination of AGEs in the serum of patients with pre-Diabetes, Diabetes I and II and in patients with cardiovascular problems: Differences in the electrophoretic profile**  
**Terpsithea Zaimi<sup>1</sup>, Kalliopi Kotsa<sup>2</sup>, Christos Sampanis<sup>3</sup>, Agathi Pritsa<sup>4</sup>, Theodore Lialiaris<sup>5</sup>, Phaedra Eleftheriou<sup>1</sup>**  
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<sup>4</sup>School of Medicine, Democritus University of Thrace, Alexandroupolis, Greece  
<sup>5</sup>Department of Nutrition and Dietetics
- P195** **Increased concentration of antibodies against food derived antigens in patients with hypothyroidism**  
**Maria Topizopoulou<sup>1</sup>, Panagiotis Dekastros<sup>1</sup>, Apostolos Zatagias<sup>1</sup>, John Yovos<sup>2,3</sup>, Alexandra Giovou<sup>1</sup>, Agathi Pritsa<sup>4</sup>, Phaedra Eleftheriou<sup>1</sup>**  
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<sup>4</sup>Department of Nutrition & Dietetics, Alexander Technological Educational Institute of Thessaloniki, Thessaloniki, Greece
- P196** **BNN-20, a synthetic microneurotrophin, induces adult dopaminergic neurogenesis in the Substantia Nigra of “weaver” mice, a model of Parkinson’s disease, without affecting adult hippocampal neurogenesis**  
**Theodora Mourtzi<sup>1</sup>, Konstantinos Botsakis<sup>2, 5</sup>, Danai K. Meri<sup>3</sup>, Ilias Kazanis<sup>3</sup>, Ioannis Charalampopoulos<sup>4</sup>, Achilleas Gravanis<sup>4</sup>, Nikolaos Matsokis<sup>1</sup>, Fevronia Angelatou<sup>2</sup>**  
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<sup>4</sup>Department of Pharmacology, School of Medicine, University of Crete, Heraklion, Greece  
<sup>5</sup>Division of Pharmaceutical Sciences, University of Wisconsin, Madison, WI
- P197** **Escalating low-dose  $\Delta^9$ -THC treatment during adolescence impairs psychomotor and cognitive-related functions and reduces BDNF protein levels in specific brain regions in adult male rats**  
**Nafsika Poulia, Foteini Delis, Christina Ioannidou, Charalambos Brakatselos, Michael-Zois Asprogerakas, Katerina Antoniou**  
Department of Pharmacology, Faculty of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece
- P198** **Non-myocardial origin of circulating miR-29a in patients with hypertrophic cardiomyopathy**  
**Dimitrios Ntelios<sup>1,2</sup>, Georgios Efthimiadis<sup>2</sup>, Sofia Kouidou<sup>1</sup>, Haralampos Karvounis<sup>2</sup>, Georgios Tzimagiorgis<sup>1</sup>**  
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<sup>2</sup>1st Cardiology Clinic, AHEPA University Hospital, Thessaloniki, Greece
- P199** **YKL-40 as a biomarker to diagnose and monitor Alzheimer disease**  
**Eirini Ch. Poimenidou<sup>1</sup>, Eugenia Lymperaki<sup>1</sup>, Theodore Lialiaris<sup>2</sup>, Magda Tsolaki<sup>3</sup>**  
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<sup>2</sup>Democritus University of Thrace, Alexandroupolis, Greece  
<sup>3</sup>Neurology, Aristotle University of Thessaloniki, Greece
- P200** **Association of the apoptotic marker Apo-1/Fas with metabolic disorders and endothelial function in childhood**  
**Maria Magana<sup>1</sup>, Maria Efthymia Katsa<sup>1</sup>, Anastasios Ioannidis<sup>1</sup>, Sofia Zyga<sup>1</sup>, Maria Tsironi<sup>1</sup>, Athanasios Sachlas<sup>2</sup>, Kleopatra Routsi<sup>1</sup>, Loukia Dolianiti<sup>1</sup>, Petros Kolovos<sup>1</sup>, Andrea Paola Rojas Gil<sup>1</sup>**  
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<sup>2</sup>University of Piraeus, Faculty of Finance and Statistics, Department of Statistics and Insurance Science, Piraeus, Greece



## Development and Differentiation

- P201** **Lynkeas/GemC1 is a key player in the generation of hydrocephalus**  
**Maria-Eleni Lalioti<sup>1</sup>, Christina Kyrousi<sup>1</sup>, Marina Arbi<sup>2</sup>, Konstantina Kaplani<sup>1</sup>, Zoi Lygerou<sup>2</sup>, Stavros Taraviras<sup>1</sup>**  
<sup>1</sup>Department of Physiology, Medical School, University of Patras, Greece  
<sup>2</sup>Department of General Biology, Medical School, University of Patras, Greece
- P202** **Geminin is required for proper formation and maintenance of telencephalic structures**  
**Stamatina Koutsis<sup>1</sup>, Argiro Kalogeropoulou<sup>1</sup>, Paraskevi Tserou<sup>1</sup>, Nikoleta Smyrni<sup>1</sup>, Zoi Lygerou<sup>2</sup>, Stavros Taraviras<sup>1</sup>**  
<sup>1</sup>Department of Physiology, Medical School, University of Patras, Patras, Greece  
<sup>2</sup>Department of General Biology, Medical School, University of Patras, Patras, Greece
- P203** **The lineage progression of radial glial cells towards the ependymal lineage is regulated by Lynkeas/GemC1 and Mclidas**  
**Konstantina Kaplani<sup>1</sup>, Maria-Eleni Lalioti<sup>1</sup>, Christina Kyrousi<sup>1</sup>, Marina Arbi<sup>2</sup>, Zoi Lygerou<sup>2</sup>, Stavros Taraviras<sup>1</sup>**  
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<sup>2</sup>Department of General Biology, Medical School, University of Patras, Greece
- P204** **Coup-TF and neuronal precursor cells in the sea urchin embryo**  
**Panagiotis Tsibos, Constantin N. Flytzanis**  
 Department of Biology, University of Patras, Rio, Patras, Greece
- P205** **Assessing the effects of the ectopic expression of ribosomal protein RPL35A in murine erythroleukemia cell differentiation program**  
**Elsa P. Amanatiadou<sup>1,2</sup>, Ioannis S. Vizirianakis<sup>1</sup>**  
<sup>1</sup>Laboratory of Pharmacology, School of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece  
<sup>2</sup>Saint Paul General Hospital, Thessaloniki, Greece
- P206** **Mathematical modeling of axonal shaft filopodia dynamics during growth of embryonic stem cell-derived motor neurons in culture**  
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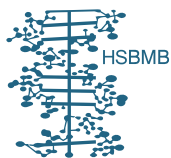
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