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

25-27 November 2016
“Karolos Papoulas” Conference Center
University of Ioannina, Ioannina

FINAL PROGRAM
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ORGANIZATION

Hellenic Society for Biochemistry and Molecular Biology (HSBMB)

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

Administrative Board of HSBMB

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

Organizing-Scientific Committee

President: Stathis Frillingos
Members: Amalia Sofia Afendra
         Savvas Christoforidis
         Theodore Fotsis
         Dimitrios Galaris
         Spyros Georgatos
         Evangelos Kolettas
         Anna-Irini Koukkou
         Panayiotis Kouklis
         Thomais Papamarcaki
         Anastasia Politou
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 Papoulas” Conference Center of the University of Ioannina, from November 25th to November 27th, 2016.

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

Renowned scientists from Greece and abroad are participating in the Conference as invited speakers: H. Ronald Kaback (UCLA, Los Angeles, California), Marcos Gonzalez Gaitán (University of Geneva, Geneva, Switzerland), Marino Zerial (Max Planck Institute, Dresden, Germany), Jop Kind (Hubrecht Institute, Utrecht, The Netherlands), Evi Soutoglou (IGBMC, Strasbourg, France), Anastassios Economou (KU Leuven, Rega Institute, Belgium), Frank O. Fackelmayr (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 Papoulas” Conference Center of the University of Ioannina, on November 24th, 2016.

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

Stathis Frillingos
President of the Organizing-Scientific Committee

Dimitris Kletsas
President of the HSBMB
GENERAL INFORMATION

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

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

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

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

Registrations

<table>
<thead>
<tr>
<th>Category</th>
<th>Up to 12/10/2016</th>
<th>After 13/10/2016</th>
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<tbody>
<tr>
<td>Full Members of HSBMB¹</td>
<td>55,00 €</td>
<td>70,00 €</td>
</tr>
<tr>
<td>Assistant Members¹</td>
<td>35,00 €</td>
<td>50,00 €</td>
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<tr>
<td>Non-members¹</td>
<td>100,00 €</td>
<td>135,00 €</td>
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<tr>
<td>Postgraduate Students²</td>
<td>35,00 €</td>
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<tr>
<td>Undergraduate Students³</td>
<td>20,00 €</td>
<td>30,00 €</td>
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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
SCIENTIFIC INFORMATION

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

Oral Presentations
The time slot for each Oral Presentation is 15 minutes (inclusive of any questions and answers). Presenters and chair persons should take care to respect these time limitations.
All lectures and oral presentations will take place at the Amphitheater of the Conference Center (2nd level). There will be parallel broadcast of the talks in the entrance hall of the amphitheater and in at least one of the adjacent conference rooms.

Poster Sessions
The posters will be presented in two Sessions under agenda and displayed on appropriately designated boards at the mezzanine floor (1st level) of the “Karolos Papoulias” Conference Center. The posters should be of maximum dimensions 90cm wide and 120cm high (vertical).
Posters P001-P109 will be on display from Friday, November 25, 08:30, to Saturday, November 26, 12:00 (Poster Session I, see pages 26-39).
Posters P110-P219 will be on display from Saturday, November 26, 13:00, to Sunday, November 27, 14:00 (Poster Session II, see pages 40-52).

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

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

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

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

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

Official Speakers’ Air Carrier

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EMBO Young Investigator Lecture

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INVITED SPEAKERS

Anastassios Economou  
KU Leuven, Rega Institute, Belgium

Marcos Gonzalez Gaitán  
University of Geneva, Geneva, Switzerland

H. Ronald Kaback  
UCLA, Los Angeles, California

Jop Kind  
Hubrecht Institute, Utrecht, The Netherlands

Evi Soutoglou  
IGBMC, Strasbourg, France

Marino Zerial  
Max Planck Institute, Dresden, Germany
INVITED SPEAKERS

Katerina Chlichlia
Democritus University of Thrace, Alexandroupolis

George Diallinas
National and Kapodistrian University of Athens, Athens

Frank O. Fackelmayer
IMBB-FORTH, Biomedical Research, Ioannina

Electra Gizeli
IMBB-FORTH & University of Crete, Heraklion

Artemis G. Hatzigeorgiou
University of Thessaly, Volos

Apostolos Klinakis
BRFAA, Athens

Georgios T. Stathopoulos
University of Patras, Rio

Iannis Talianidis
BSRC Al. Fleming, Vari
**Friday, 25th November 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1: Functional Genomics and Proteomics &amp; Bioinformatics Chairs: Michalis Aivaliotis, Pantelis Topalis</th>
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</thead>
<tbody>
<tr>
<td>09:30-09:45</td>
<td>Comparative functional genomic analysis of two <em>Vibrio</em> phages reveals metabolic hijacking of the host cell</td>
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<tr>
<td></td>
<td><strong>Dimitrios Skliros</strong>¹, <strong>Panos G. Kalatzis</strong>²,³, <strong>Pantelis Katharios</strong>³, <strong>Emmanouil Flemetakis</strong>⁴</td>
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<tr>
<td></td>
<td>¹Laboratory of Molecular Biology, Department of Biotechnology, School of Food, Biotechnology and Development, Agricultural University of Athens</td>
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<td></td>
<td>²Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research, Heraklion, Crete, Greece</td>
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<td>³Marine Biological Section, University of Copenhagen, Helsingør, Denmark</td>
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<td>09:45-10:00</td>
<td>Transcriptomic analysis of <em>Zymomonas mobilis</em> under SOS induction</td>
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<td><strong>Giannis Savvakis</strong>, <strong>Katherine M. Pappas</strong></td>
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<td>Department of Genetics and Biotechnology, Faculty of Biology, School of Sciences, National and Kapodistrian University of Athens, Athens, Greece</td>
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<tr>
<td>10:00-10:15</td>
<td>Identification of EIF3D as potential target affecting bladder cancer progression</td>
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<td><strong>Marika Mokou</strong>¹,², <strong>Agnieszka Latosinska</strong>¹,³, <strong>Manousos Makridakis</strong>¹, <strong>William Mullen</strong>⁴,</td>
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<td><strong>Harald Mischak</strong>⁵, <strong>Maria Roubelakis</strong>⁵, <strong>Antonia Vlahou</strong>⁵</td>
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<td>¹Biotechnology Laboratory, Centre of Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece</td>
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<td>²Laboratory of Biology, University of Athens, School of Medicine, Athens, Greece</td>
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<td>³Mosaic Diagnostics GmbH, Hannover, Germany</td>
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<td>10:15-10:30</td>
<td>Mitochondria and the brain: Insights from the -omics world</td>
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<td><strong>Michaela D. Filiou</strong></td>
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<td>Department of Stress Neurobiology and Neurogenetics, Max Planck Institute of Psychiatry, Munich, Germany</td>
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<tr>
<td>10:30-11:00</td>
<td>LECTURE 1: DIANA microRNA tools: In silico analysis of miRNAs towards identification of biomarkers</td>
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<td><strong>Artemis G. Hatzigeorgiou</strong></td>
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<td></td>
<td>Department of Electrical and Computer Engineering, University of Thessaly, Volos, Greece</td>
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<tr>
<td>11:00-11:15</td>
<td>Network analysis and regularized regression modeling identifies key regulatory molecular events underlying hepatocellular carcinoma dedifferentiation</td>
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<td><strong>Panagiotis Mokos</strong>¹, <strong>Fotis E. Psomopoulos</strong>²,³, <strong>Chrysanthis Ainali</strong>⁴, <strong>Anagnostis Argiriou</strong>⁴,</td>
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<td><strong>Alexandra Charalampidou</strong>⁵, <strong>Margarita Hadzopoulou-Cladaras</strong>⁵, <strong>Dimitra Dafou</strong>⁵</td>
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<tr>
<td></td>
<td>¹Department of Genetics Development and Molecular Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece</td>
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<td></td>
<td>²Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece</td>
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<td></td>
<td>³Department of Informatics, School of Natural and Mathematical Sciences, King's College London, London, UK</td>
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<tr>
<td>11:15-11:30</td>
<td>The complex evolutionary history of aminoacyl-tRNA synthetases</td>
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<td><strong>Anargyros Chaliotis</strong>¹, <strong>Panayiotis Vlastaris</strong>¹, <strong>Dimitris Mossialos</strong>¹, <strong>Michael Ibba</strong>², <strong>Hubert Becker</strong>³,</td>
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<td><strong>Constantinos Stathopoulos</strong>⁴, <strong>Grigoris D. Amoutzias</strong>⁴</td>
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<td></td>
<td>¹Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece</td>
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<td></td>
<td>²Department of Microbiology, The Ohio State University, Columbus, Ohio, USA</td>
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<td>³Institut de Physiologie et de Chimie Biologique (IPCB), Université de Strasbourg, Strasbourg Cedex, France</td>
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<td></td>
<td>⁴Department of Biochemistry, School of Medicine, University of Patras, Patra, Greece</td>
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<tr>
<td>11:30-12:00</td>
<td>Coffee Break &amp; Poster Viewing</td>
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<tr>
<td>Time</td>
<td>Session Details</td>
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<tr>
<td>12:00-14:15</td>
<td><strong>SESSION 2:</strong> Epigenetics and Regulation of Gene Expression &amp; RNA Biology Chair: Constantinos Stathopoulos, Grigoris Amoutzias</td>
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<tr>
<td>12:00-12:30</td>
<td><strong>LECTURE 2</strong> Nuclear architecture as the highest level of epigenetic regulation</td>
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<td>12:30-12:45</td>
<td>Profiling PROTEIN arginine methylation during myoblast differentiation using SILAC proteomics</td>
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<td><strong>Nikolaos Papanikolaou</strong>&lt;sup&gt;1,2&lt;/sup&gt;, Min-Sik Kim&lt;sup&gt;2&lt;/sup&gt;, Sartaj Ahmad Mir&lt;sup&gt;2&lt;/sup&gt;, Raiha Tahir&lt;sup&gt;2&lt;/sup&gt;, Akhilesh Pandey&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
</tbody>
</table>
|              | <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                                  |
|              | **Athanasiou Dimitriadis**<sup>1</sup>, Georgios Sideris-Lamprettas<sup>1</sup>, Eirini Kanata<sup>1</sup>, Dimitra Dafou<sup>2</sup>, Theodoros Sklavadi<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>,  
Eftimios 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>Department of Physics, Harvard University, Boston MA, USA  
<sup>4</sup>Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Crete  
<sup>5</sup>Laboratory of General Biology, Department of Medicine, University of Ioannina, Ioannina, Greece  
<sup>6</sup>Institute of Materials, Ecole 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 Skepffnas<sup>1</sup>, Athanasios-Nasir Shaukat<sup>1</sup>, Katerina Grafanaki<sup>1</sup>,  
Alexandra Kanellou<sup>1</sup>, Stavros Taraviras<sup>2</sup>, Dionysios Papachristou<sup>1</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 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-Mariolou Roumelioti1, Sotiriou Sotiriou1, Vasiliki Katsini1, Maria Chiourea1, Thanos Halazonetis2, Sarantis Gagos1
1Laboratory of Genetics, Center of Experimental Medicine and Translational Research, Biomedical Research Foundation of the Academy of Athens, Greece (BRFAA)
2Department of Molecular Biology, University of Geneva, Switzerland

17:15-17:30  Live cell imaging reveals protein-protein interactions and modifications regulating Cdt1 proteolysis
Nickolaos Nikiforos Giakoumakis1, Andreas Panagopoulos1, Hideo Nishitani2, Stavros Taraviras3, Zoi Lygerou1
1Department of General Biology, School of Medicine, University of Patras, Patras, Greece
2Graduate School of Life Sciences, University of Hyogo, Hyogo, Japan
3Department of Physiology School of Medicine, University of Patras, Patras, Greece

17:30-17:45  Robust, universal biomarker assay to detect senescent cells in biological specimens
Konstantinos Evangelou1, Nikolaos Lougiakis2, Sophia Rizou1, Athanassios Kotsinas1, Panagiotis Galanos1, Dimitris Kletsas3, Paul Townsend3, Manuel Serrano4, Jiri Bartek5,7,8, Vassilis G. Gorgoulis1,5,9
1Molecular Carcinogenesis Group, Department of Histology and Embryology, Medical School, National and Kapodistrian University of Athens, Athens, Greece
2Department of Pharmaceutical Chemistry, Faculty of Pharmacy, National and Kapodistrian University of Athens, Athens, Greece
3Laboratory of Cell Proliferation and Ageing, Institute of Biosciences and Applications, National Centre for Scientific Research "Demokritos", Athens, Greece
4Tumor Suppression Group, Molecular Oncology Program, Spanish National Cancer Centre (CNIO), Madrid, Spain
5Faculty Institute for Cancer Sciences, Manchester Academic Health Sciences Centre, University of Manchester, Manchester, UK
6Danish Cancer Society Research Center, Copenhagen, Denmark
7Institute of Molecular and Translational Medicine, Faculty of Medicine and Dentistry, Palacky University, Hradec Kralove, Czech Republic
8Department of Medical Biochemistry and Biophysics, Science For Life Laboratory, Division of Translational Medicine and Chemical Biology, Karolinska Institute, Stockholm, Sweden
9Biomedical Research Foundation, Academy of Athens, Athens, Greece

17:45-18:00  Acute and delayed protection mechanisms offered by natural compounds against oxidative stress-induced damage to basic cellular components
Paraskevi Gerogianni, Dimitrios Prymidis, Dimitrios Galaris
Laboratory of Biological Chemistry, Faculty of Medicine, Health Sciences School, University of Ioannina, Ioannina, Greece

18:00-18:30  Coffee Break & Poster Viewing
18:30-20:30 Opening Ceremony and Lectures
Chairs: Dimitris Kletsas, Stathis Frillingos

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

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

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

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

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

20:30 Welcome Cocktail and Buffet
Saturday, 26th November 2016

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

09:00-09:15 Detection and characterization of hemin binding proteins (HeBiPr) involved in the intracellular heme trafficking network (IHeTN) in human leukemia cells

Vasiliki Dimitra C. Tsolaki¹, Sofia K. Georgiou¹, Martina K. Samiotaki², George Panayotou², Asterios S. Tsiftsoglou¹

¹Laboratory of Pharmacology, Department of Pharmacy, School of Health Sciences, Aristotle University of Thessaloniki (A.U.Th.), Thessaloniki, Greece
²B.S.R.C. “Alexander Fleming” Vari, Attiki, Greece

09:15-09:30 Synergistic effect of peptide inhibitors derived from the extracellular and intracellular domain of αIIb subunit of integrin αIIbβ₃ on platelet activation and aggregation

Alexia V. Gkourogianni¹, Klytaimnistra Kiouptsi¹, Vasiliki Koloka¹, Vassilios Moussis¹, Vassilios Tsikaris¹, Christilla Bachelot-Loza²,³, Demokritos Tsoukatos¹

¹Department of Chemistry, Sector Of Organic Chemistry and Biochemistry, University of Ioannina, Ioannina, Greece
²Université Paris Descartes, Sorbonne Paris Cité, Paris, France
³INSERM UMR S1140, Faculté de Pharmacie, Paris, France

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

Aristotelis Antonopoulos
Department of Life Sciences, Imperial College London, UK

09:45-10:00 Insights on the conformational properties of Venezuelan equine encephalitis virus’ macro domain by solution NMR spectroscopy

Garyfallia I. Makrynitsa¹, Dionis Ntonti¹, Konstantinos D. Maroussis¹, Aikaterini C. Tsika¹, Julie Lichière², Nicolas Papageorgiou², Bruno Coutard², Detlef Bentrop³, Georgios A. Spyroulias¹

¹Department of Pharmacy, University of Patras, Patras, Greece
²AFMB UMR 7257, CNRS/Aix Marseille Université, Marseille, France
³Institute of Physiology II, University of Freiburg, Freiburg, Germany

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

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

10:30-10:45 Development of oil-in-water microemulsions as carriers of bioactive compounds - Biological applications

Ioanna Theochari, Vasiliki Pletsas, Demetris Papahatjis, Panagiotis Zoumpoulakis, Vasiliki Papadimitriou, Aristotelis Xenakis
Institute of Biology, Medicinal Chemistry & Biotechnology, National Hellenic Research Foundation, Athens, Greece

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

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

11:15-11:45 Coffee Break & Poster Viewing
11:45-14:15 SESSION 5: Cellular Organization and Function & Cellular Communication and Signaling
Chairs: Dimitris Kardassisis, 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
Nikoletta Kostopoulou1,2, Sofia Bellou1,3, Eleni Bagli1, Giannis Kalaintzidis4, Marko Hyvonen5, Angelos Papadopoulos6, Athena Kyrkou1, Dimitrios Kouroupis1, Theodore Fotsis1,2, Carol Murphy1
1. Foundation of Research and Technology-Hellas, Institute of Molecular Biology & Biotechnology - Department of Biomedical Research, University Campus, Ioannina, Greece
2. Laboratory of Biological Chemistry, Medical School, University of Ioannina, Greece
3. Department of Engineering Informatics and Telecommunications, University of Western Macedonia, Kozani, Greece
4. Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany
5. Department of Biochemistry, University of Cambridge, UK
6. School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, United Kingdom

12:45-13:00 Endocytic routes in control of VEGFR2 function: Protection of the receptor and regulation of signaling
Dimitris Basagiannis1,2, Sofia Zografou1, Carol Murphy1,3, Theodore Fotsis1,2, Lucia Morbidelli4, Marina Ziche4, Christopher Bleck2, Jason Mercer5, Savvas Christoforidis1,2
1. Institute of Molecular Biology and Biotechnology-Biomedical Research, Foundation for Research and Technology, Ioannina, Greece
2. Laboratory of Biological Chemistry, Department of Medicine, University of Ioannina, Ioannina, Greece
3. School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston, Birmingham, UK
4. Department of Life Sciences, University of Siena, Siena, Italy
5. Institute of Biochemistry, Zurich, Switzerland
6. MRC-Laboratory for Molecular Cell Biology, University College London, London, UK

13:00-13:15 Cyclic tensile stress stimulates mitogen-activated protein kinases in human annulus fibrosus cells leading to up-regulation of pro-inflammatory gene expression
Harris Pratsinis1, Adamantia Papadopoulou1, Cornelia Neidlinger-Wilke2, Marco Brayda-Bruno2, Hans-joachim Wilke1, Dimitris Klettas1
1. Laboratory of Cell Proliferation & Ageing, Institute of Biosciences & Applications, NCSR “Demokritos”, Athens, Greece
2. Institute of Orthopaedic Research and Biomechanics, Centre of Musculoskeletal Research, University of Ulm, Baden-Württemberg, Germany

13:15-13:30 A microarray screen identifies novel TGFβ-regulated long non-coding RNAs
Panagiotis Papoutsoglou1, Carl-Henrik Heldin1, Aristidis Moustakas1,2
1. Ludwig Cancer Research, Science for Life Laboratory, Uppsala University, Uppsala, Sweden
2. Department of Medical Biochemistry and Microbiology, Science for Life Laboratory, Uppsala University, Uppsala, Sweden

13:30-13:45 Phosphorylation by CK1δ promotes the nuclear accumulation of HIF-2α by blocking its CRM1- dependent nuclear export
Evanthia Pangou1, Christina Befani1, Ilias Mylonis1, Martina Samiotaki2, George Panayotou2, George Simos1, Panagiotis Liakos1
1. Laboratory of Biochemistry, Faculty of Medicine, University of Thessaly, Larissa, Greece
2. Protein Chemistry Laboratory, Biomedical Sciences Research Center “Alexander Fleming,” Vari, Greece
13:45-14:00 Regulation of expression and functional analysis of Drosophila Hey, a bHLH-O transcription factor that is activated by Notch signaling

Maria Monastirioti1, Ioanna Koltsaki1,2,3, Nikos Batsiotos2, Ioanna Pitsidianaki1,2, Christos Delidakis1,2

1Institute of Molecular Biology & Biotechnology, FORTH, Heraklion, Greece
2Department of Biology, University of Crete, Heraklion, Greece
3Current address: Johannes Gutenberg-Universität Mainz, Institute of Genetics Mainz, Rhineland-Palatinate, Germany

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

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

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

14:15-14:45 SPONSORED LECTURE

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 Castana1, Antonia Marazioti1, Sofia Nikou1, Eleni Papadaki1, George T. Stathopoulos2, Evangelia Papadimitriou1

1Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece
2Laboratory for Molecular Respiratory Carcinogenesis, Department of Physiology, Faculty of Medicine, University of Patras, Rio, Greece
3Department of Anatomy, University of Patras, School of Medicine, Patras, Greece

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

Galatea Kallergi1,3, Stuart S. Martin2, Panagiotis Katsarlinos1, Christos Stournaras1, Vassilis Georgoulas3

1Laboratory of Tumor Cell Biology, School of Medicine, University of Crete, Heraklion, Greece
2Marlene and Stewart Greenebaum Cancer Center, School of Medicine, Department of Physiology, University of Maryland, Baltimore, Maryland, USA
3Department of Biochemistry, School of Medicine, University of Crete, Heraklion, Greece

17:15-17:45 LECTURE 11

Epigenetic regulators and epithelial tumorigenesis

Apostolos Klinakis

Center for Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
17:45-18:00 Identification of Drivers of Growth as Potential Tumor Suppressor Genes via Genome Wide CRISPR/Cas9 Knockout Screens
Alexandros P. Drainas, Theocharis Efthymiopoulos, Sebastian Wazsak, Mike Smith, Adrian Stütz, Benjamin Raeder, Ruxandra A. Lambuta, Christopher Bucicelli, 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 Kominji, 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/B catenin pathway in ERα-suppressed breast cancer cells
Theodoros Karalis, Nikos K. Karamanos, Spyros Skandalis
Biochemistry, Biochemical Analysis & Matrix Pathobiology Research Group, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece

18:30-19:00 LECTURE 12
Immunotherapeutic strategies for induction of protective tumor-specific immune responses in mice
Katerina Chlichlia
Laboratory of Molecular Immunology, Department of Molecular Biology and Genetics, Democritus University of Thrace, University Campus - Dragana, Alexandroupolis, Greece

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

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

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

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

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

20:15-20:30 KLK6 proteolysis is implicated in regulation of the turnover and uptake of extracellular alpha-synuclein species
Georgiós Pampalakis1, Vasia-Samantha Sykioti2, Methodios Ximerakis1, Ioanna Stefanakou-Kalakou1, Ronald Melki2, Kostas Vekrellis2, Georgia Sotiropoulou1,2
1Department of Pharmacy, University of Patras, Greece
2Center for Neurosciences, Biomedical Research Foundation, Academy of Athens, Greece
2Paris-Saclay Institute of Neuroscience, Centre National de la Recherche Scientifique, Gif-Sur-Yvette, France
20:30-21:15 Lecture Sponsored by EMBL Alumni Association
Chair: Anastasia Politou

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

Jop Kind
Hubrecht Institute, Developmental Biology and Stem Cell Research, Royal Netherlands Academy of Arts and Sciences, Utrecht, The Netherlands
Sunday, 27th November 2016

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

09:00-09:15  Analysis of the transcript variants of 28 type-2 diabetes related genetic loci in human peripheral blood: correlation with laboratory and clinical features of the disease
Ioanna K. Kokkinopoulou1, Maria-Ioanna Christodoulou1,2, Margaritis Avgeris1, Eirini Maratou1, Panagiota Mitrou2, Euthimios Pappas2, Eleni Boutati2, Andreas Scorilas1, Sotirios A. Raptis2, Emmanuel G. Fragoulis1
1Section of Biochemistry and Molecular Biology, Department of Biology, National and Kapodistrian University of Athens, Greece
2Hellenic National Center for Research, Prevention and Treatment of Diabetes Mellitus and its Complications (HNDC), Athens, Greece

09:15-09:30  Stress-induced protein REDD1 emerges as a novel mediator in the pathogenesis of familial Mediterranean fever
Akrivi Chrysanthopoulou1, Panagiotis Skendros1, 2, Konstantinos Kambas1, Athanasios Arampatioglou1, Alexandros Mitsios1, Iliana Angelidou1, Theocharis Konstantinidis1, Dimitrios Ritis1, Ioannis Theodorou1, Konstantinos Ritis1, 2
1Laboratory of Molecular Hematology, Department of Medicine, Democritus University of Thrace, Alexandroupolis, Greece
2First Department of Internal Medicine, Democritus University of Thrace, University General Hospital of Alexandroupolis, Alexandroupolis, Greece

09:30-09:45  Helicobacter pylori infection and study of matrix metalloproteinase-3 (MMP-3/stromelysin-1) expression in the gastric tissue of C57BL/6 mice
Yiannis Karayiannis1, Androniki Voulgari-Kokota1, Beatriz Martinez-Gonzalez1, Ioanna Sougleri1, Kalliopi Petraki1, Andreas Mentis1, Dionyssios Sgouras1
1Laboratory of Medical Microbiology, Hellenic Pasteur Institute, Athens, Greece
2Department of Pathology, Metropolitan Hospital, Athens, Greece

09:45-10:00  Mechanism of action of broadly effective inhibitors targeting hepaci- and flavivirus replication: Validation under liver normoxic conditions
Efseveia Frakolaki1, Panagiota Kaimou1, Konstantinos Kelepouras1, Erofili Giannakopoulou1, Vassilios Myrianthopoulos2, Giorgos Niotis1, Emmanuel Mikros2, Ralf Bartenschlager3,4, Penelope Mavromara1, 5, Grigoris Zoidis2, Niki Vassilaki1
1Molecular Virology, Hellenic Pasteur Institute, Greece
2Faculty of Pharmacy, University of Athens, Greece
3Department of Infectious Diseases, Molecular Virology, University of Heidelberg, Germany
4German Center for Infection Research, Heidelberg University, Germany
5Department of Molecular Biology and Genetics, Democritus University of Thrace, Greece
### SESSION 9: Development and Differentiation

#### Chairs: Dimitris Beis, Petros Marangos

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<tr>
<td>10:00-10:15</td>
<td>Plant-specific protein LEFKOTHEA1 exhibits nucleo-cytoplasmic partitioning controlling embryo development</td>
<td>Gerasimos Daras, Stamatis Rigas, Anastastios Alatzas, Dimitris Chatzopoulos, Georgios Banilas, Polydefkis Hatzopoulos</td>
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<td>Department of Biotechnology, Agricultural University of Athens, Athens, Greece</td>
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<td>10:15-10:30</td>
<td>Involvement of the zebrafish homologs of SET/I2PP2A oncoprotein in the development of the lateral line system</td>
<td>Iliana Serifi¹², Elefni Tsima¹², Katerina Soupsana¹², Zoe Karetsoni¹, Dimitris Beis³, Thomas Papamarcaki¹²</td>
<td>Laboratory of Biological Chemistry, Medical School, University of Ioannina, Greece; Division of Biomedical Research, Foundation for Research and Technology-Hellas, Institute of Molecular Biology and Biotechnology, Ioannina, Greece; Developmental Biology, Biomedical Research Foundation Academy of Athens, Greece</td>
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<td>10:30-10:45</td>
<td>BMP2/4 signaling prevents expression of PIcoup-TF in the dorsal ectoderm of the sea urchin <em>Paracentrotus lividus</em></td>
<td>Periklis A. Paganos, Andriana I. Stamatopoulou, Constantin N. Flytzanis</td>
<td>Department of Biology, University of Patras, Rio, Greece</td>
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<td>10:45-11:00</td>
<td>Investigation of the role of Ring Finger Protein 113A (RNF113A) in neural stem cells</td>
<td>Christina Dimitriou¹, Danai K. Meri¹, Konstantinos Botsakis¹, Fevronia Angelatou², Marigoula Margarity¹, Panagiotis K. Politis³, Ilias Kazanis¹⁵</td>
<td>Laboratory of Developmental Biology, Department of Biology, University of Patras, Patras, Greece; Laboratory of Physiology, Department of Medicine, University of Patras, Patras, Greece; Laboratory of Human and Animal Physiology, Department of Biology, University of Patras, Patras, Greece; Center for Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece; Wellcome Trust-MRC Cambridge Stem Cell Institute, University of Cambridge Cambridge, UK</td>
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<td>11:00-11:15</td>
<td>miR-934 is a novel regulator of early human neurogenesis</td>
<td>Kanella Prodromidou¹, Ioannis Vlachos², Georgia Kouroupi³, Maria Gaitanou¹, Era Taoufik¹, Artemis G. Hatzigeorgiou¹, Rebecca Matsas¹</td>
<td>Laboratory of Cellular and Molecular Neurobiology, Hellenic Pasteur Institute, Athens, Greece; Diana Lab, Hellenic Pasteur Institute, Athens, Greece</td>
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<td>11:15-11:30</td>
<td>Deletion of Geminin from naive neural stem cells results in microcephaly</td>
<td>Argyro Kalogeropoulou¹, Alexandra Patmanidi¹, Paraskevi Tserou¹, Zoi Lygerou¹, Stavros Taraviras¹</td>
<td>Department of Physiology, School of Medicine, Patras University, Patras, Greece; Department of General Biology, School of Medicine, Patras University, Patras, Greece</td>
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#### Coffee Break & Poster Viewing

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### SESSION 10: Stem Cells, & Tissue Morphogenesis and Regeneration

#### Chairs: Stavros Taraviras, Panos Kouklis

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<tr>
<td>12:00-14:15</td>
<td>Asymmetric spindle, asymmetric signaling endosomes, asymmetric division</td>
<td>Marcos Gonzalez Gaitán</td>
<td>Department of Biochemistry, Faculty of Sciences, University of Geneva, Geneva, Switzerland</td>
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### LECTURE 14

#### Asymmetric spindle, asymmetric signaling endosomes, asymmetric division

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<tr>
<td>Marcos Gonzalez Gaitán</td>
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<td>Department of Biochemistry, Faculty of Sciences, University of Geneva, Geneva, Switzerland</td>
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Increased dosage of LBR limits the dynamic range of Nanog fluctuations and downregulates Zscan4 in mouse embryonic stem cells

**Ioannis Giannios**1,2, **Katerina Soupsana**1,3, **Eleutheria Chatzantonaki**1,2, **Panagiotis Karakaidos**1,2, **Dimitrios Stellas**1, **Apostolos Klinakis**2, **Anastasia S. Politou**1,3, **Spyros Georgatos**1,2

1 Stem Cell and Chromatin Group, The Institute of Molecular Biology and Biotechnology, Biomedical Division, FORTH-ITE, Greece
2 The Laboratory of Biology, University of Ioannina, School of Medicine, Ioannina, Greece
3 The Laboratory of Biological Chemistry, University of Ioannina, School of Medicine, Ioannina, Greece
4 Biomedical Research Foundation, Academy of Athens, Athens, Greece

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**Sox2: To crest or not to crest**

**Nikolaos Panagiotis Mandalos**1,2, **Eumorphia Remboutsika**1,2,3

1 National University of Athens Medical School, Department of Pediatrics, Athens, Greece
2 Stem Cell Biology Laboratory, Biomedical Sciences Research Centre “Alexander Fleming”, Vari-Attica, Greece
3 Adjunct Faculty, The Lieber Institute for Brain Development, Basic Sciences Division, Johns Hopkins Medical Campus, Baltimore, USA

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**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

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**Stress hormone CRH is a positive regulator of hippocampal neural stem cells activity and their responsiveness to environmental stimuli**

**Yassemi Koutmani**1, Ioannis A. Gampierakis2, Alexia Polissidis1, Methodios Ximerakis2, Lee L. Rubin2, Alexander Polyzos1, George Agrogiannis4, Efstratios Patsouris1, Panagiotis K. Politis1, Katia P. Karalis1,5

1 Center of Clinical Research, Experimental Surgery and Translational Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
2 Department of Stem Cell and Regenerative Biology, Harvard Stem Cell Institute, Harvard University, Cambridge, USA
3 Center of Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
4 Endocrine Division, Children’s Hospital, Harvard Medical School, Boston, USA
5 Office of Medical Education, Department of Pediatrics, University of Ioannina, Ioannina, Greece

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**Generation of mural cells from human pluripotent stem cells**

**Maria Markou**1,4, **Dimitrios Kouroupis**1, **Dimitrios Stellas**2, **Carol Murphy**1,3, **Theodore Fotis**1,3,4, **Eleni Bagli**1,3

1 Division of Biomedical Research, Institute of Molecular Biology and Biotechnology - FORTH, Ioannina, Greece
2 Department of Cancer Biology of the Biomedical Research Foundation of the Academy of Athens, Athens Greece
3 School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston, Birmingham, U.K.
4 Laboratory of Biological Chemistry, Medical School, University of Ioannina, Ioannina, Greece
5 Department of Ophthalmology, University of Ioannina, Ioannina, Greece

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**Isolation of a novel cardiovascular multipotent cell population during ESC differentiation**

**Violeetta A. Maltab**1,2, Eleonora Barka1, Marianthi Kontonika6,5, Dimitra Florou1, Maria Kouvara-Pritsoulit, Maria Roumpi2, Simeon Agathopoulos3, Theofilos M. Kolettis4,6, Panos Kouklis1,2

1 Laboratory of Biology, Medical School, University of Ioannina, Greece
2 Department of Biomedical Research, Institute of Molecular Biology & Biotechnology, Foundation of Research and Technology-Hellas, University Campus, Ioannina, Greece
3 Ceramics and Composites Laboratory, Department of Materials Science and Engineering, University of Ioannina, Greece
4 Department of Cardiology, University of Ioannina Medical School, Ioannina, Greece
5 Cardiovascular Research Institute, Ioannina and Athens, Greece
6 Department of Orthopaedics, University of Ioannina, Ioannina, Greece

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**Closing Ceremony - Prize Awards**

**Chairs: Dimitris Kletsas, Stathis Frillingos**
Functional Genomics and Proteomics

P001 Estimating the total number of phosphoproteins and phosphorylation sites in eukaryotic proteomes
Panayiotis Vlastaridis1, Pelagia Kyriakidou1, Anargyros Chaliotis1, Yves Van de Peer2, Steve G. Oliver3, Grigoris D. Amoutzias1
1Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece
2Department of Plant Biotechnology and Bioinformatics, VIB, Ghent University, Ghent, Belgium
3Cambridge Systems Biology Centre & Department of Biochemistry, University of Cambridge, Cambridge, UK

P002 Secreted proteins from the prothoracic glands of Bombyx mori: An exemplary paradigm for steroidogenic cells
Maria Farmakori1, Martina Samiotaki2, George Panayotou2, Skarlatos Dedos1
1Department of Biology, National and Kapodistrian University of Athens, Athens, Greece
2Biomedical Sciences Research Center 'Alexander Fleming’, Vari, Greece

P003 The role of reactivated-p53 on the bio-energetic proteomic signature of human lymphoma subtypes
Konstantina Psatha1,2, Laxmikanth Kollipara3, Chrysanthi Voutyraki4, Peter Divanach5, Albert Sickmann6, George Z. Rassidakis2,3, Elias Drakos4, Michalis Aivaliotis5
1Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece
21st Department of Pathology, School of Medicine, National and Kapodistrian University of Athens, Athens, Greece
3Leibniz- ISAS, e.V., Dortmund, Germany
4Department of Chemistry, University of Crete, Heraklion, Greece
5Department of Pathology and Cytology, Karolinska University Hospital and Karolinska Institute, Radiumhemmet, Stockholm, Sweden
6Department of Pathology, School of Medicine, University of Crete, Heraklion, Greece

P004 Comparative analysis of the membrane proteome of Hodgkin and non-Hodgkin lymphoma cells after Nutlin-3a-p53-activation
Konstantina Psatha1,2, Laxmikanth Kollipara1, Aikaterini Vasileiadou1, Albert Sickmann5, George Z. Rassidakis2,3, Elias Drakos4, Michalis Aivaliotis5
1Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece
21st Department of Pathology, School of Medicine, National and Kapodistrian University of Athens, Athens, Greece
3Leibniz- ISAS, e.V., Dortmund, Germany
4Department of Chemistry, University of Crete, Heraklion, Greece
5Department of Pathology and Cytology, Karolinska University Hospital and Karolinska Institute, Radiumhemmet, Stockholm, Sweden
6Department of Pathology, School of Medicine, University of Crete, Heraklion, Greece

P005 Classification of lymphoma subtypes using comparative proteomic analysis
Georgia-Ioanna Kontogianni1, Maria-Anna Kalioraki1, Konstantina Psatha2, Elias Drakos3, Michalis Aivaliotis2
1Department of Chemistry, University of Crete, Heraklion, Greece
2Institute of Molecular Biology and Biotechnology, FORTH, Heraklion, Greece
3Department of Pathology, School of Medicine, University of Crete, Heraklion, Greece

P006 The transcription of Apetala in conjunction with genes coding for crucial enzymes of the sucrose biosynthesis (UGPase and SPS) in pomegranate buds and flowers
Konstantinos Meletis1, Georgios Tsaniklidis2, Georgios Aivalakis2, Stavros Vemmos1
1Agricultural University of Athens, Laboratory of Pomology, Athens, Greece
2Agricultural University of Athens, Laboratory of Plant Physiology and Morphology, Athens, Greece

P007 Enzyme activity of Phenylalanine ammonia lyase (PAL) and accumulation of total phenolics in tomatoes stored at different postharvest temperatures
Konstantinos Meletis1, Georgios Tsaniklidis2
1Agricultural University of Athens, Laboratory of Pomology, Athens, Greece
2Agricultural University of Athens, Laboratory of Plant Physiology and Morphology, Athens, Greece

P008 Transcriptional study of genes involved in catabolic degradation pathways of aromatic compounds in Arthrobacter phenanthrenivorans Sphe3
Stamatia Asimakoula, Elpiniki Vandra, 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**, Gianluca Perroni², Andreas Papadakis¹, George Papathanasiou¹, Irini Zisi¹, Vincenzo Ambrogi², John S. Tzartos¹, Konstantinos Poulas¹

¹Laboratory of Molecular Biology and Immunology, Department of Pharmacy, School of Health Sciences, University of Patras, University Campus, Rio, Patras, Greece
²Thoracic Surgery Division and Department of Thoracic Surgery, Policlinico Tor Vergata University, Rome, Italy

P010 Investigation of T-Cell oxidative stress response to exogenous (H₂O₂) or endogenous (genetic mutations) redox stimuli using a combined proteomics approach

**George Mermelekas**¹²³, Liselotte Bäckdahl²³, Manousos Makridakis¹, Vasiliki Bitsika¹, Vasiliki Lygirou¹, Georgia Kontostathi¹, Antonia Vlahou¹, Rikard Holmdahl²³

¹Biomedical Research Foundation of the Academy of Athens (BRFAA), Department of Proteomics, Athens, Greece
²Karolinska Institute, Department of Medical Biochemistry and biophysics, Stockholm, Sweden
³Shared first and senior authorships

P011 Erythropoietic transcription factors networks in beta-thalassemia

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P012 High sensitivity analysis of cervical cancer cell lines total proteome in comparison to normal cervical keratinocytes for the investigation of cervical cancer pathogenesis

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P013 Comparative functional genomic investigation of bacterial arylamine N-acetyltransferases

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P014 NMR-based metabolomics of cotreatment of doxorubicin (DXR) with oleuropein in human osteoblasts

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P015 Microbial arylamine N-acetyltransferases: Tracing the evolutionary history and functional diversity of a xenobiotic-metabolizing enzyme family

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Bioinformatics

P016 Validation of Free Energy Perturbation calculations for efficient optimization of candidate drug binding affinities
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P017 Computational analysis of human plasma membrane peripheral proteins and their association with amyloidoses
Katerina C. Nastou, Paraskevi L. Tsiolaki, Georgios N. Tsousis, Stavros J. Hamodrakas, Vassiliki A. Ikonomidou
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P018 POTAMOS mass spectrometry calculator: Computer aided mass spectrometry to the post-translational modifications of histones
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Systems Biology

P020 The expression patterns of the clock genes period and timeless in the moth Sesamia nonagrioides under different photoperiods
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P021 Molecular characterization and expression analysis of the clock gene cycle in the moth Sesamia nonagrioides under LD and SD photoperiods
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P022 Comparative proteomic analysis of Pseudomonas sp. phDV1 grown under phenol stress conditions
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P023 Lymphoma transcriptomic and proteomic dissection using an integrated network analysis
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P024 Integrated high-throughput biomolecular analyses of FRA10AC1 altered expression in a human cell model
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Metabolomics

P025 Blood plasma metabolomics in patients with aspergillosis
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P026 ¹H NMR metabolomics of serum and plasma samples reveals differences between different sets of leukemia molecular subgroups and control donors
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P027 NMR analysis of the urinary metabolic profile of Western Greece region newborns
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P028 Metabolomic analysis of the co-treatment of the natural extract Silymarin with the chemotherapeutical drug Adriamycin in PC-3 prostate cancer cells
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P029 Quantification of vitamin D metabolites in serum and adipose tissue: development and implementation of a LC-MS/MS method
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Epigenetics and regulation of gene expression

**P030** The application of the CRISPR/Cas9 technique to study the functional role of the mitochondrial ribosomal protein L41 in human cells

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**P031** Role of the oncogene KDM2B in the epigenetic regulation of the actin cytoskeleton signaling and motility in cancer cells

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**P032** Identification of a novel ERK-dependent protein interaction that regulates the transcriptional activity of Hypoxia Inducible Factor 1α

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**P033** Cell permeable peptides that inhibit activation of HIF-1α by ERK block cancer cell growth under hypoxia

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**P034** Induction of the tumor suppressor Cyld expression by PPAR-γ activation in breast cancer cell lines

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**P035** Interplay between Tip60 and Ets-2 for the initiation of transcription and regulation of IL-2 gene

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**P036** The role of histone demethylases PHF2 and PHF8 in macrophage activation and polarization

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**P037** Direct phosphorylation by ERK1/2 is required for nuclear accumulation and transcriptional activation of Hypoxia Inducible Factor-2α

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**P038** The role of Vitamin D in insulin resistance: Correlation between hormones and glycemic markers

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**P039** A new splicing isoform of Protein Arginine Methyltransferase 1 (PRMT1) that lacks the multimerization arm of the enzyme

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**P040** Elucidating chromatin reorganization in response to genotoxic stress

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P041 MiRNAs linking the NF-κB signaling pathway with the RB/E2F regulatory circuitry
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P042 Novel STAT5 interactions define activation or repression of target genes
Aikaterini Nanou1, Chrisavi Toumpeki1, Matthieu D. Lavigne1, Vassiliki Lazou1, Jeroen Dammers2, Triantafilos Paparountas1, Dimitris Thanos3, Eleni Katsantoni1
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P043 The RNA-binding protein HuD coordinates transcriptional and post-transcriptional regulation of Neurogenin2 expression
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RNA Biology

P044 Discovery, molecular cloning and expression analysis of novel alternative splicing variants of the AP2A1 gene with the use of next-generation sequencing
Ioannis-Marios A. Diamantopoulos, Panagiots G. Adamopoulos, Christos K. Kontos, Andreas Scorilas
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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, Panagiots G. Adamopoulos, Ioannis-Marios A. Diamantopoulos, Andreas Scorilas
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P046 Functional and structural analysis of the glyS T-box riboswitch-mediated synchronization of protein synthesis and cell wall formation in pathogens
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P047 Dissecting the S. aureus glyS T-box riboswitch-mediated regulation of transcription in the presence of antibiotics
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P048 Construction of an M1GS ribozyme for targeted and rapid mRNA cleavage: Application on the ETS2 oncogene
Chrisavi Toumpeki, Dimitrios Anastasakis, Ioannis Panagoulis, Vassiliki Stamatopoulou, Tassos Georgakopoulos, Sofia Kalia-Raftopoulou, Athanasia Mouzaki, Denis Drainas
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P049 Valproic acid-induced HERV-K10 retrotransposition and concomitant glioma cell differentiation are mediated through active endogenous reverse transcriptases
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P050 p53 loss induces VL30 retrotransposition in mouse fibroblasts
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DNA damage and repair

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

Panagiotis Galanos¹, George Pappas¹, Alexander Polyzos², Ioanna Svolaki¹, Vassilis L. Souliotis⁴, Dimitris Thanos², Evi Soutoglou², Claudia Lukas⁶, Jiří Lukas⁶, Jiří Bartek¹⁰,¹¹, Vassilis G. Gorgoulis¹,²,³

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

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

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Ageing

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

Eleni Liakou¹, Eleni Mavroganatou¹, Harris Pratsinis³, Sophia Rizou¹, Konstantinos Evangelou¹, Petros N. Panagiotou⁴, Nikos K. Karamanos⁵, Vassilis G. Gorgoulis¹,⁶, Dimitris Klettsas¹

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

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P056 Deciphering the roles of microRNAs in the senescence response of human fibroblasts
Georgios S. Markopoulos1,2, Eugenia Roupakia1,2, Maria Tokamani3, Georgios Vartholomatos4, Maria Hatziapostolou5, Christos Polytarchou5, Raphael Sandaltzopoulos5, Evangelos Kolettas1,2
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Structure and function of macromolecules

P057 The role of Ser/Asn-93 in purine substrate preference as revealed by mutational analysis of the xanthine/uric acid permease SmLL9 from Sinorhizobium meliloti
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P058 Two residue periodicities in protein structures: Results from a systematic search in 4-dimensional Ramachandran space
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P059 Molecular determinants of the adenine/hypoxanthine selectivity in the homology cluster of salvageable purine permeases of symporter family NCS2
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P060 A unique homology cluster of bacterial pyrimidine permeases highlights the role of a binding-site phenylalanine residue in distinguishing uracil from thymine
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P061 Evaluation of accessible volume and surface area of protein-ligand complexes aimed towards rational drug design
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3Laboratory of Biochemistry, Department of Medicine, Democritus University of Thrace, Alexandroupolis, Greece

P062 Synthesis and study of peptide analogs of the native cationic antimicrobial peptide Anoplin for the development of new therapeutic agents
Konstantinos Chionis, Vasilios Michail, Athanasios Tsitzilis, Evangelia Marmarinou, Dimitrios Krikorian, Anna-irini Koukkou, Maria Sakarellos-Daitsiotis, Eugenia Panou-Pomonis
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P063 Development of a coarse-grain model for dsDNA, with applications in the simulation of hydrodynamic interactions at the solid-liquid interface of acoustic sensors
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P064 The cytoplasmic C-terminal region of NCS1/FUR transporters has a dual role in endocytosis and transport

Georgia Papadaki, George Diallinas
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P065 A novel MFS transporter in *Aspergillus nidulans* is specific for the efflux of nucleobases and nucleobase-related antifungals

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P066 NMR based structure-activity relationship study of *Mayaro* and *Chikungunya* alphaviruses’ macro domain

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P067 Investigation of the structure-activity relationship of E3 ubiquitin ligases: mutations of ARKADIA RING-H2 domain

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P068 Structural study of the RING domain of ARKADIA-2 and its Tryptophan mutants via NMR Spectroscopy

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P069 Study of *LdTyrP*P_22, a Tyrosine and Phosphoinositide Phosphatase from *Leishmania donovani*

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P070 *LdPllBnrex*, a secreted nexin-like protein from the protozoan parasite *Leishmania donovani*

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P071 Insight on the evolvability of NCS2 purine transporters from analysis of a cross-homolog chimera

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P072 Expression, purification and NMR study of the Hepatitis E virus 1 macro domain

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P073 Biochemical characterization of Hesperin

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P074 Expression and purification of recombinant human CA2-CDK2 complex in *Escherichia coli*: Characterization of active soluble, recombinant proteins with putative inhibitors

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P075 The C-terminal domain is essential for the proper assembly of the active multimeric oleuropein-specific β-glucosidase
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P076 NMR conformational dynamics of LAM, RRM1 and RRM2 domains of La protein
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P077 NMR study of the H-NOX domain from Nostoc sp, a homologue of human soluble Guanylate Cyclase (sGC)
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Biotechnology

P078 Screening between normal and cancer human thyroid cells through comparative adhesion studies using the Quartz Crystal Microbalance
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P079 Catechin silica nanoparticles bioactive sheath in Cu(II)-induced in vitro neurodegeneration
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P080 Multiscale study of targeted nano-encapsulated flavonoids for potential neuroprotective therapy
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P081 In vitro and in vivo evaluation of the anti-inflammatory effect of carvacrol and thymol
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P082 Assessment of the immunomodulatory potential of a novel probiotic Lactobacillus strain by employing an in vivo mouse model of inflammation
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P083  In vitro comparative analysis of the antiproliferative activity of probiotic Lactobacillus strains on human colorectal adenocarcinoma cells
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P084 Baculovirus-mediated transient over-expression of a juvenile hormone esterase-related gene in a lepidopteran pest
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P085 Functional analysis of the two cyclophilin isoforms of Sinorhizobium meliloti
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P086 Development and application of a PCR assay for sensitive and specific detection of food contamination with Listeria monocytogenes, Salmonella spp. and Escherichia coli
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P087 Skin protective effects of Nannochloropsis gaditana extract in oxidative-stressed human dermal fibroblasts
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P088 Biochemical and Bioinformatics analysis of Rhodothermus marinus NAD+-dependent DNA ligase
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P089 Metabolomic and transcriptomic analysis of the green microalga Nannochloropsis gaditana under different growth conditions
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P090 Utilizing the virus-induced blocking of apoptosis in an easy baculovirus titration method
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P091 Anti-tumor immune responses raised in tumor-bearing mice following oral administration of *Lactobacillus casei*
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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
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Microbiology

P093 L-Azetidine-2-carboxylic acid, a toxic proline analogue, is detoxified and catabolized by *Aspergillus nidulans*
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P094 Presence of important virulence genes in *Staphylococcus aureus* cheese isolates and *in vitro* investigation of their biofilm forming abilities under pH or water activity stresses
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P095 Pepper mild mottle virus as indicator of fecal pollution in water environments of western Greece region
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P096 Prevalence of uncultured, unprecedented prokaryotic phylotypes in the sediments of the ancient Lake Pamvotis (Europe-Greece)
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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
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P098  A new mechanism of action, via formation of Neutrophil Extracellular Traps, for the widely used and established macrolide antibiotic Clarithromycin

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Chemical Biology

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

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

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

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P102  Genetic action assessment of new organotins on human cells cultures

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

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Bioactive Compounds

P104  Extracts from Limnio grape skin trigger apoptosis in breast cancer MCF-7 cells by activating the intrinsic apoptotic pathway
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P105  Assessment of the antioxidant activity and proapoptotic effect of Moscato Alexandria grape seed extracts on human gastric cancer cells
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P106  Stinging Nettle as a new source of phytochemicals with regenerative properties
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P107  Olive oil ingredients oleocanthal and oleacein present cytotoxic activity against cancer cell lines and interfere with the activity of staurosporine
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Forensic Chemistry

P108  Analysis of club amnesty bin contents using a new GC-MS library of certified reference materials
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P109  The analytical challenge of detecting new psychoactive substances
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Cellular Organization and Function

**P110** The AP-2 complex has a specialized endocytic role serving polar growth by apical extension in filamentous fungi: specialization by evolutionary truncation

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**P111** A study on the subcellular localization and function of Acid Ceramidase in epithelial and neuronal cell lines

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**P112** The interaction of Scaffold Attachment Factors B1 and 2 (SAFB1/2) with SR Protein Kinase 1 (SRPK1)

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**P113** Pulsed electromagnetic fields stimulate wound healing by enhancing cell migration and proliferation

*Anastasia Siora, Evangelia Konstantinou, George Lagoumintzis, Anastasia Pyriochou, Konstantinos Poulas*

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**P114** Investigating the growth phase dependent roles of the glutamate dehydrogenase isoforms Gdh1 and Gdh3 in yeast

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**P115** The cytoplasmic Acetoacetyl CoA Thiolase (ACAT2) interacts with the GDP-form of Rab5 and regulates endocytic membrane transport

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**P116** Deregulated DNA replication licensing promotes gene amplification and drug resistance

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**P117** Studying DNA re-replication in *S. pombe* at the population and single-cell level

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**P118** The synergistic action of IGF-IR and ERα suppress aggressiveness of breast cancer cells and regulate the expression and localisation of ECM molecules

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Cellular Communication and Signaling

P119 Ectopic LCK expression defines a unique subpopulation of B cells in chronic lymphocytic leukaemia patients
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P120 Cocaine and amphetamine regulated transcript (Cart): a second neurotransmitter in the C-bouton synapse on motor neurons
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P121 Molecular studies of the immunological effects of the sevoflurane preconditioning in the liver and lung ischemia/reperfusion injury in a rat model
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P122 Regulation of TGF-β/Smad signaling by small GTPases RhoA and RhoB
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P123 Fatty acid-induced effects on the expression of growth and pro-apoptotic factors in cardiomyocytes
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P124 The expression of c-Myc is regulated of phosphorylation by Src and mTORC2 through post-translational modifications of IMP1.
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P125 ActRIIB - interacting proteins in Activin A signal transduction: The role of PLEKHH2 protein
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P126 Low oxygen tension modulates integrin gene expression and microvascular endothelial angiogenic functions
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P127 The role of HSP90 in modulating the CLAVATA pathway
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P128 Serglycin acts as a promoter of aggressiveness in breast cancer cells
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P129 Suppression of ERα induces the activation of TGF-β and IL-8 pathways in breast cancer cells
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P130 Comparative proteomic analysis of alveolar type II epithelial cells on phosphatidylcholine metabolism following cyclic mechanical stretch
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P131 Effect of Insulin-like Growth Factor-I (IGF-I) on the production of Interleukin-6 (IL-6) by human eyes pterygium fibroblasts
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P132 Effects of flavonoids flavones and isoflavones on proteasome expression and activity in fibroblasts of various origins
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P133 Putative role of vascular endothelial growth factor receptor 2 in pleiotrophin-induced endothelial cell migration
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P134 The receptor tyrosine kinases AXL and PDGFR are critical factors that mediate the mesenchymal phenotype and behavior of ERα-suppressed breast cancer cells
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P135 Effect of pleiotrophin and its receptor protein tyrosine phosphatase beta/zeta on myelin basic protein levels in vitro
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P136 The role of the tumor suppressor protein CYLD in interferon production following infection by HSV-1
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P137 Translational control of Serrate expression in Drosophila cells
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P138 Changes in key molecules participating in the osmo-adaptation of nucleus pulposus intervertebral disc cells during senescence

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P139 A comparative study of the immediate/early responses of human periodontal ligament fibroblasts to cyclic and static mechanical stretching

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P140 Exosomal microRNAs contribute to HNF4α-mediated liver carcinogenesis

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P141 Activation of Glutamate mGlu5 receptors evokes NMDA-dependent phosphorylation of ERK 1/2 kinases in rat hippocampus, which is permitted by A2A adenosine receptors

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P142 Activation of Glutamate mGlu5 or Dopamine D1 receptors evokes phosphorylation of NR2B(Tyr1472) of NMDA receptors in rat hippocampus: Involvement of A2A adenosine receptors

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P143 ERF over-expression inhibits IL-2 and IL-10 production following TCR/CD28 stimulation of Hut-78 T lymphocytes

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P144 Spininophilin, a new player in δ-opioid receptor signaling

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P145 Interferon gamma alters the N-type to S-type transition in human neuroblastoma cells

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Molecular and Cellular Basis of Human Disease I : Cancer

P146 A conditional mouse model of malignant pleural mesothelioma

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P147 cAMP-response element binding protein in KRAS-driven lung adenocarcinoma

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P148 Low prevalence of BRAF and RAS genetic alterations in thyroid cancer in the Greek population


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P149 PIK3CA oncogenic mutations in colon cancer

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P150 The role of TRAF5 protein in signal transduction by the Epstein Barr virus oncoprotein LMP1

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P151 A novel interaction between the PI3k - mTOR and p38 MAPK signaling pathways is involved in neuroblastoma relapse and tumor resistance


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P152 Expression of ADAMTS in breast cancer cells


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P153 The effect of the inhibition of Kras in carcinogenesis

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P154 ADAMTS expression in laryngeal cancer

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P155  Inflammation-driven colon neoplasmatogenesis in uPA-deficient mice is associated with an increased expression of Runx transcriptional regulators
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P156  The role of chemokine signaling in lung adenocarcinoma initiation and progression
Giannoula Ntaliarda, Ioannis Lilis, Ioanna Giopanou, Magda Spell, Antonia Marazioti, Maria Papageorgopoulou, Georgios T. Stathopoulos
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P157  Effect of Snail on the expression of ADAMTS4 and ADAMTS6 in melanoma and colon adenocarcinoma cells: lumican, a potential regulator?
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P158  Development and progression of non melanoma skin cancer is inhibited in Klk6−/− mice
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P159  Expression of the ILK-PINCH-PARVIN (IPP) complex and its binding partner Rsu-1 in human non-small cell lung cancer
Sofia Nikou1, Theodora Agalioti2, Maria Vasilopoulou1, Maria Makrygianni1, Vassiliki Zolota1, Georgios T. Stathopoulos2, Helen Papadaki1, Vassiliki Bravou1
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P160  LIMK-cofilin pathway and N-WASP are implicated in human colorectal cancer progression
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P161  Integrin linked kinase signaling is involved in colon cancer chemoresistance
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P162  Overexpression of RNase k is associated with markers of favorable prognosis in prostate cancer
Athina Kladi-Skandali1, Konstantinos Mavridis1, Konstantinos Stravodimos2, Diamantis Sideris1
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Multiple-gene expression profiling and transcript-specific intron retention serve as a novel platform of molecular biomarkers for human skin cancer

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Loss of ERα induces the up-regulation of HAS2, CD44 and moesin in breast cancer cells

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Loss of IKKβ reduces cell proliferation and impairs lung cancer development

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Functional role of IKKα in non-small cell lung carcinogenesis

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Targeting mTOR complexes and ribosomal S6 kinases for the development of novel therapies for thyroid cancer

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P168 The histone demethylase LSD1 is a potential drug target in breast cancer stem cells

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P169 Drug screening in 2D and 3D primary glioblastoma cell cultures: A preliminary study

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P170 Alterations of TH17 and Terminal Effector CD8+ cells in Chronic Lymphocytic Leukemia patients

Olimpia Margaritopoulou , Eleftheria Lamprianidou, Anna Vardi, Xrisoula Kordella, Emmanouela Zoulia, Kyraki Katsiki, Konstantina Pachi, Charalampos Panagopoulos, Kostas Stamatopoulos, Ioannis Kotsianidis
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P171 Impact of Clotting Factor Gene Polymorphisms in Colon Cancer Risk

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P172 An alternative splice variant of poly(A)-specific ribonuclease in human cancers

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Molecular and Cellular Basis of Human Disease II, III

P174 LDL and HDL lipoprotein subtype frequency in patients with rheumatoid arthritis before and after administration of anti-TNFα

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P175 Study of the distribution pattern of polar lipids in the membranes of erythrocytes from patients with Non-Alcoholic Fatty Liver Disease and type 2 Diabetes Mellitus

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P176 Development of mouse models expressing human apoA-I mutants that are resistant to MPO-induced oxidation

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P177 Case-control study and meta-analysis for the genetic association of ACE and eNOS polymorphisms with pulmonary arterial hypertension

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P178 Selective mitochondrial targeting exerts anxiolytic effects

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P179 A novel double knockout (Spink5\(^{-/-}\)/Klk6\(^{-/-}\)) mouse model reveals a role of the KLK6 protease in skin inflammation

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P180 Molecular and epigenetic crosstalk of networks activating inflammasome in patients with aseptic loosening after total hip arthroplasties

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P181 Meta-analysis of Tourette Syndrome and Schizophrenia genomewide datasets for the identification of a common genetic basis

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P182 ETS2 Repressor Factor (ERF) - associated craniostenosis: molecular mechanisms and therapeutic approaches

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P183 Effect of PLA2 inhibitors against α-synuclein mediated toxicity

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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

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P185 Heterologous expression of α-synuclein in Saccharomyces cerevisiae under Caloric Restriction leads to alterations in gene expression of crucial metabolic yeast cell pathways

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P186 Protein-energy wasting in patients with end-stage renal disease: a clinical proteomics study
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P187 In vitro and in vivo antiplatelet properties of insulin
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P188 Genetic and Epigenetic factors in newborns with low birth weight and early infection
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P189 Mechanical stress, methylation analysis of GNAS isoforms and osteogenic differentiation of hAT-MSCs
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P190 Possible protective role of Apobec1 mediated RNA editing in Experimental Autoimmune Encephalomyelitis
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P191 Targeting KLK5 alone rescues neonatal lethality associated with Netherton Syndrome but cannot sustain a normal epidermal barrier function
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P192 Chronic treatment of neuroblastoma cells induces Parkinson’s disease related phenotype
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P193 The association of obesity with cognitive function in elderly with Diabetes Mellitus
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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
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P195 Increased concentration of antibodies against food derived antigens in patients with hypothyroidism
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P196 BNN-20, a synthetic microneurotrophin, induces adult dopaminergic neurogenesis in the Substantia Nigra of “weaver” mice, without affecting adult hippocampal neurogenesis
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P197 Escalating low-dose Δ⁹-THC treatment during adolescence impairs psychomotor and cognitive-related functions and reduces BDNF protein levels in specific brain regions in adult male rats
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P198 Non-myocardial origin of circulating miR-29a in patients with hypertrophic cardiomyopathy
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P199 YKL-40 as a biomarker to diagnose and monitor Alzheimer disease
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P200 Association of the apoptotic marker Apo-1/Fas with metabolic disorders and endothelial function in childhood
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Development and Differentiation

P201 Lynkeas/GemC1 is a key player in the generation of hydrocephalus
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P202 Geminin is required for proper formation and maintenance of telencephalic structures
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P203 The lineage progression of radial glial cells towards the ependymal lineage is regulated by Lynkeas/GemC1 and McIdas
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P204 Coup-TF and neuronal precursor cells in the sea urchin embryo
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P205 Assessing the effects of the ectopic expression of ribosomal protein RPL35A in murine erythroleukemia cell differentiation program
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P206 Mathematical modeling of axonal shaft filopodia dynamics during growth of embryonic stem cell-derived motor neurons in culture
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P207 Gene expression differences in human pre-ovulatory granulosa cells derived from large and small follicles
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P208 Distinct and common features of GATA-3 and BMP signalling pathway during mammary gland development
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P209 APRF1 (Anthesis Promoting Factor 1) promotes flowering under long days in Arabidopsis thaliana
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Stem Cells

P210 Regulatory elements and factors that are required for the transcription of the human small GTPases RhoA and RhoB in mouse embryonic stem cells  
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P211 Umbilical cord mesenchymal stem cells derived from the Wharton’s Jelly (WJ-MSCs) serve as anticancer agents  
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P212 Investigating the role of GemC1/Lynkeas in mouse forebrain development  
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P213 Mapping of the endocytic pathways of VEGFR2 in human embryonic stem cells and in the different developmental stages towards the endothelial lineage  
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P214 Heterochromatin remodeling in embryonic stem cells proceeds through the serial destabilization of a “shifting-mosaic steady state”  
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P215 The functional role of phosphorylation of Thr3 on histone H3 by Haspin in mouse Embryonic Stem Cells  
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P216 Comparison of Neural Stem Cell activity in the adult brain of “lab” and “wild” mice  
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P217 Generation and characterization of partially reprogrammed iPSCs  
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P218 High Content Analysis reveals kinase inhibitors that enhance the differentiation of dopaminergic neurons in an in vitro model of induced pluripotent stem cells (iPSCs)  
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P219 Investigating the in vitro role of the Geminin superfamily members  
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