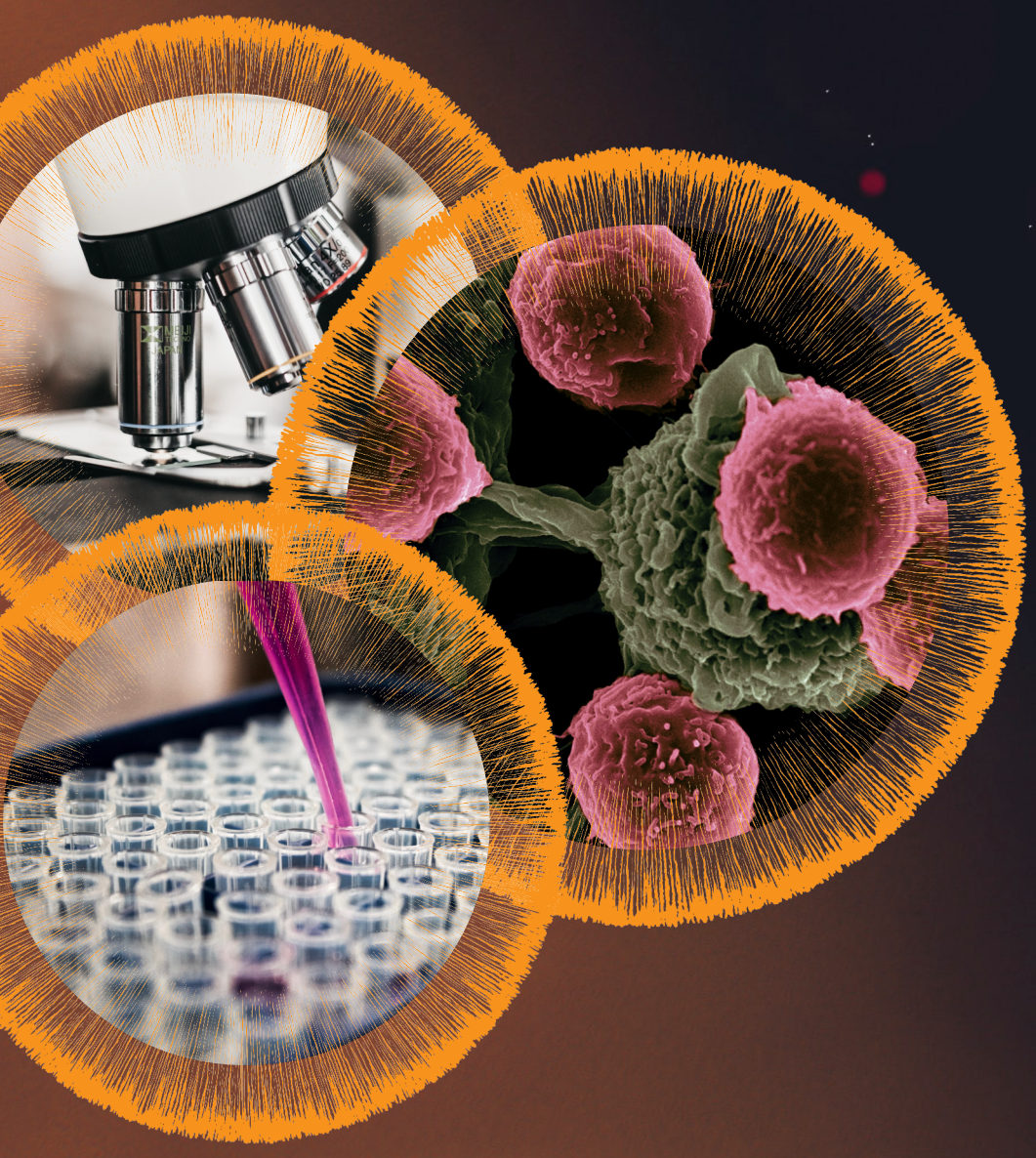
Νέοι Επιστήμονες

Ελληνική Εταιρεία Βιοχημείας και Μοριακής Βιολογίας (ΕΕΒΜΒ)

10η Ημερίδα Νέων Επιστημόνων της ΕΕΒΜΒ

30 Νοεμβρίου 2023
Ίδρυμα Ευγενίδου, Αθήνα

Αναλυτικό Πρόγραμμα



Ελληνική Εταιρεία Βιοχημείας και Μοριακής Βιολογίας

Χορηγοί

Μέγας Χορηγός

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ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
ΕΙΔΙΚΟΣ ΛΟΓΑΡΙΑΣΜΟΣ ΚΟΝΔΥΛΙΩΝ ΕΡΕΥΝΑΣ

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Πρόσκληση

Αγαπητοί συνάδελφοι,

Με ιδιαίτερη χαρά σας προσκαλούμε να συμμετάσχετε στη 10η Ημερίδα Νέων Επιστημόνων της Ελληνικής Εταιρείας Βιοχημείας και Μοριακής Βιολογίας (ΕΕΒΜΒ) που θα λάβει χώρα στο Ίδρυμα Ευγενίδου, την Πέμπτη 30 Νοεμβρίου 2023. Πρόκειται για ένα θεσμό που διεξάγεται εδώ και 10 χρόνια δορυφορικά του Πανελλήνιου Συνεδρίου της ΕΕΒΜΒ και έχει γνωρίσει μεγάλη επιτυχία.

Πρωταρχικό στόχο της Ημερίδας αποτελεί η ανάδειξη του ερευνητικού έργου νέων επιστημόνων τόσο της Ελλάδας όσο και του εξωτερικού που δραστηριοποιούνται σε τομείς της Βιοχημείας, της Μοριακής Βιολογίας και γενικότερα στις Βιοεπιστήμες. Κατά τη διάρκεια της Ημερίδας, οι συμμετέχοντες καλούνται να παρουσιάσουν τις ερευνητικές τους προσπάθειες μέσω προφορικών ομιλιών και ανακοινώσεων (posters) και να πάρουν μέρος σε συζητήσεις που αφορούν την επαγγελματική εξέλιξη των νέων επιστημόνων. Ταυτόχρονα, θα έχουν τη δυνατότητα αλληλεπίδρασης με άλλους ερευνητές και προσκεκλημένους ομιλητές δημιουργώντας νέες προοπτικές συνεργασίας και διευρύνοντας τους επιστημονικούς τους ορίζοντες.

Προσβλέπουμε στην ενεργή συμμετοχή σας και παραμένουμε στη διάθεσή σας για οποιαδήποτε πληροφορία ή διευκρίνιση.

Η Οργανωτική Επιτροπή της 10ης Ημερίδας Νέων Επιστημόνων της ΕΕΒΜΒ

Η Οργανωτική Επιτροπή

Πρόεδρος

Εύη Γκικοπούλου, Τμήμα Βιοτεχνολογίας ΓΠΑ/ Ινστιτούτο Βιοκαινοτομίας, Ε.ΚΕ.ΒΕ. «Αλέξανδρος Φλέμινγκ»

Μέλη

Πένη Γαλάνη, Ίδρυμα Ιατροβιολογικών Ερευνών Ακαδημίας Αθηνών

Άννα Γιοράν, Ινστιτούτο Χημικής Βιολογίας, Εθνικό Ίδρυμα Ερευνών

Αναστασία- Γεωργία Δεδεμάδη, Ινστιτούτο Βιοεπιστημών και Εφαρμογών, ΕΚΕΦΕ «Δημόκριτος»

Ιωάννης Κωστόπουλος, Τμήμα Βιολογίας, ΕΚΠΑ

Νίκος Μουστάκας, Ελληνικό Ινστιτούτο Παστέρ

Ντικράν Τσιτσεκιάν, Τμήμα Βιοτεχνολογίας ΓΠΑ

10th Young Scientists' Forum – HSBMB

08:45 – 09:15	Registration
09:15 – 09:25	Welcome
09:25 – 10:25	Short talk session I (ST1–4)
09:25 - 09:40	**ST1-Aristotelis Petris (Hellenic Pasteur Institute)** Study of neutrophil responses in Helicobacter pylori infection
09:40 - 09:55	**ST2-Katerina Fourmouzi (Hellenic Pasteur Institute)** Disrupted hippocampal neurogenesis following brain chemical lesion induced by the chemotherapeutic agent Ara-C
09:55 – 10:10	**ST3-Karolina Mangani (University of Patras)** Monocarboxylate transporters 1 and 4 on Circulating Tumor Cells (CTCs) in Patients with Non-Small Cell Lung Cancer
10:10 -10:25	**ST4-Paraskevi Ioannou (University of Patras)** The effect of EGFR and JAK/STAT signaling pathways on glypican expression in breast cancer cells
10:25 – 12:00	Poster session I & coffee break
12:00 – 13:00	Short talk session II (ST5-8)
12:00 – 12:15	**ST5-Eftichia Aggelaki (University of Patras)** Unveiling the Metabolomic Profile of Growth Hormone Deficient Children Using NMR Spectroscopy
12:15 – 12:30	**ST6-Alexandros Simistiras (BSRC Al. Fleming)** Dietary restriction and genetics drive expression levels of plasma proteins with key roles for human health: the FastBio study
12:30 – 12:45	**ST7-Eleni Vasilopoulou (BSRC Al. Fleming)** Development of specialized Escherichia coli strains for high-level recombinant membrane protein production
12:45 – 13:00	**ST8-Stefanos Gravalos (University of Patras)** Physicochemical and spectroscopical study of Nostoc sp. bacterial homolog of β1 H-NOX domain of human soluble Guanylyl Cyclase (sGC) in complex with sGC activators
13:00 – 14:00	Lunch break
14:00 – 15:00	**Open Discussion Session I - Polydefkis Hatzopoulos** *(Agricultural University of Athens)* "Academic career pathways and future challenges in academic research"
15:00 – 16:30	Poster session II & coffee break
16:30 – 17:15	Short talk session III (ST9-11)
16:30 – 16:45	**ST9-Maria Barmpoutsi (University of Patras)** Artificial matrix-based bioscaffolds promote the chondrogenic differentiation potential of mesenchymal stem cells
16:45 – 17:00	**ST10-Dimitra Mpainantzou (University of Patras)** Chondrocyte differentiation potential of dog adipose-derived mesenchymal stem cells in artificial matrix-based bioscaffolds
17:00 – 17:15	**ST11-Asimina Fotopoulou (NCSR Demokritos)** Molecular and functional characterization of a subset of human skin fibroblasts that resist UVB-mediated premature senescence
17:15 – 18:15	**Open Discussion Session II - Panagiota Dimitropoulou** *(University of Crete)* "Mental health and young researchers: the importance of soft skills"
18:15– 18:45	Best Short Talk and Best Poster Presentation Awards – Closing Remarks

Poster Session I
Thursday 30 November 2023 | 10:25 – 12:00

P1: Suppression of chemically-induced mammary cancer by early-life oral administration of cholera toxin in mice is associated with aberrant regulation of Bmp and Notch signaling pathways

Dimitris G. Argyris[1], Hara Afaloniati[1], Maria Markaki[1], Theofilos Poutahidis[2], Katerina Angelopoulou[1*]

*[1]Laboratory of Biochemistry and Toxicology, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece, [2]Laboratory of Pathology, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece, *e-mail: kangelop@vet.auth.gr*

P3: The effect of Nutlin-3a-induced activation of the p53 signaling pathway on mitochondrial proteome in a human mantle cell lymphoma model

Alexandros Syllas[1,2], Martina Samiotaki[3], Konstantina Psatha[1,2,4], Michalis Aivaliotis[1,2,5]

[1]Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[2]Functional Proteomics and Systems Biology (FunPATh), Center for Interdisciplinary research and Innovation (CIRI), Aristotle University of Thessaloniki, Greece
[3]Biomedical Sciences Research Center "ALEXANDROS FLEMING", Athens, Greece
[4]Laboratory of Medical Biology and Genetics, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[5]Basic and Translational Research Unit, Special Unit for Biomedical Research and Education, School of Medicine, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

P5: Deciphering the role of autophagy and exosomes in human lymphoma and leukemia using systems biology approaches

Konstantina Psatha[1,2,3], Angeliki Christidou[1,4], Aikaterini Kalantidou[5], Anna-Aspasia Karkavitsa[5], Eirini Papadaki[6], Georgia Orfanoudaki[1], Laxmikanth Kollipara[7], Albert Sickmann[7,8], George Rassidakis[9], Elias Drakos[10], Michalis Aivaliotis[1,2,11]

[1]Functional Proteomics and Systems Biology (FunPATh), Center for Interdisciplinary research and Innovation (CIRI), Aristotle University of Thessaloniki, Thessaloniki, Greece
[2]Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[3]Laboratory of Medical Biology and Genetics, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece
[4]School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece
[5]Department of Biology, University of Crete, Heraklion, Greece
[6]Department of Chemistry, University of Crete, Heraklion, Greece
[7]Leibniz-Institut fór Analytische Wissenschaften–ISAS–e.V., Dortmund, Germany
[8]Medizinische Fakultõt, Medizinische Proteom-Center (MPC), Ruhr-Universitõt Bochum, Bochum, Germany
[9]Department of Oncology and Pathology, Cancer Centrum, Karolinska Institutet,Stockholm, Sweden
[10]School of Medicine, University of Crete, Heraklion, Greece
[11]Basic and Translational Research Unit, Special Unit for Biomedical Research and Education, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

P7: A study of antimicrobial and antiproliferative activity of indigenous Greek hop (*Hmulus Lupulus*) plants from Central Greece

Elisavet M. Andronidou[1], Gregoria Mitropoulou[3], Anastasios Nikolaou[3], Vasileios Gkalpinos[5], Panagiota I. Kontou[2], Konstantinos Tegopoulos[3], Ioannis Tamposis[1], Panagiotis Pergantas[4], George Skavdis[3], Pantelis G. Bagos[1], Maria E. Grigoriou[3], Andreas G Tzakos[5], Yiannis Kourkoutas[3], Georgia G. Braliou[1]*

[1] Department of Computer Science and Biomedical Informatics, University of Thessaly, Lamia, Greece
[2] Department of Mathematics, University of Thessaly, Lamia, Greece
[3] Department of Molecular Biology & Genetics, Democritus University of Thrace, Alexandroupolis, Greece
[4] Bioapplications Ltd., Levadia, Greece
[5]Department of Chemistry, University of Ioannina, Ioannina, Greece

P9: Generation of vascularized human pluripotent stem cells derived retinal organoids as a platform to study retinogenesis and disease modeling

Katerina Apostolidi [1,2], Maria Markou [1], Sofia Bellou [1,4], Theodore Fotsis [1,3], Carol Murphy[1*], Eleni Bagli [1*]

[1]Foundation of Research and Technology-Hellas, Biomedical Research Institute, University Campus, 45110 Ioannina, Greece
[2]Department of Biological Applications and Technology, University of Ioannina, 45110 Ioannina, Greece
[3]Laboratory of Biological Chemistry, Medical School, University of Ioannina, 45110 Ioannina, Greece
[4]Confocal Laser Scanning Microscopy Unit, Network of Research Supporting Laboratories, University of Ioannina, Ioannina, 45110, Greece

P11: Mcldas localizes at centrioles to control centriole numbers in cycling and multiciliated cells

Marina Arbi[1*,] Vasiliki Bakali[1†,] Lydia Koufoudaki[1†,] Margarita Skamnelou[1], Spyridoula Bournaka[1], Sihem Zitouni[2], Aikaterini Tsika[3], Georgios Spyroulias[3], Monica Bettencourt-Dias[2], Stavros Taraviras[4] & Zoi Lygerou[1*]

[1]Department of General Biology, School of Medicine, University of Patras, Greece
[2]Instituto Gulbenkian de Ciência, Oeiras, Portugal
[3]Department of Pharmacy, University of Patras, Greece
[4]Department of Physiology, School of Medicine, University of Patras, Greece
† These authors contributed equally to this work

P13: Precision Nutrition: Breakthrough of Multi-omics Precision Medicine

Olympia-Eirini Boulioglou[1], Giannis Vatsellas[2], Dimitris Thanos[2], Konstantinos N. Syrigos[3], Athanasios K. Anagnostopoulos[1]

[1]Department of Biotechnology, Center of Systems Biology, Biomedical Research Foundation of Academy of Athens, 11527, Athens, Greece
[2]Greek Genome Center, Biomedical Research Foundation of Academy of Athens, 11527 Athens, Greece
[3]3rd Department of Internal Medicine, Sotiria Hospital, School of Medicine, National and Kapodistrian University of Athens, 11527 Athens, Greece

P15: Evaluation of the therapeutic potential of AK057887 lncRNA inhibition in $CD133^+/CD44^+$ stem-like pancreatic cancer cells

Elisavet Deligianni[1], Giasemi Eptaminitaki[2], Vasiliki Stravokefalou [1], Apostolos Zaravinos[3,4], Panagiota Stamou[1], Christos Chochos[1], Stavroula Baritaki*[2] and Dimitris Stellas*[1]

[1]Institute of Chemical Biology, National Hellenic Research Foundation, 11635 Athens, Greece
[2]Laboratory of Experimental Oncology, Division of Surgery, School of Medicine, University of Crete, 71003 Heraklion, Greece
[3]Department of Life Sciences, School of Sciences, European University Cyprus, 2404 Nicosia, Cyprus
[4]Basic and Translational Cancer Research Center (BTCRC), Genomics and Systems Biology Laboratory, Cancer Genetics, 1516 Nicosia, Cyprus

P17: The Notch protein family and Neurodegenerative Diseases; A mutation analysis reveals new insights in CADASIL syndrome

Louis Papageorgiou[1,2], Lefteria Papa[1], Elias Eliopoulos[1,] and Dimitrios Vlachakis[1,*]

[1] Laboratory of Genetics, Department of Biotechnology, Agricultural University of Athens, Athens 11855, Greece;
[2] Department of Biomedical Sciences, School of Health and Care Sciences, University of West Attica, Agioy Spyridonos, 12243, Egaleo, Greece;

P19: Prolonged adrenergic stress disrupts mitochondrial homeostasis and primes the innate immune response in salivary gland epithelium

Maria Filika[1*], Chrysafenia Papavissarion[1], Maria Skoufou[1], Kalliopi Moustaka[2], Roxanne Tenta[2], Martina Samiotaki[3], George Stamatakis G[3], Fotini Skopouli[2] and Stergios Katsiougiannis[1]

[1] Biomedical Research Foundation Academy of Athens, Greece
[2] Department of Nutrition and Dietetics, Harokopio University, Athens, Greece
[3]Biomedical Sciences Research Center Alexander Fleming, Athens, Greece

P21: The plasma membrane associated protein remorin6.6: *in silico* characterization and protein purification under native conditions

Veronica Giourieva[1], Nestoras Kargios[2], Murray Grant[2], Rigini Papi[3], George Komis[1]*

**email: gkomis.bio.auth.gr*

[1] *Department of Botany, School of Biology, Aristotle University of Thessaloniki, Greece*
[2] *School of Life Sciences, University of Warwick, Coventry, United Kingdom*
[3] *Department of Biochemistry, School of Chemistry, Aristotle University of Thessaloniki, Greece*

P23: "Sustainable Hydroponic Waste Management Through Microalgae Bioremediation: A Study on Nutrient Removal and Biomass Valorization"

Danae Ifanti[1]*, Georgios-Chrisovalantis Prattis[1]*, Maria-Eleftheria Zografaki[1], Sofia Marka[1], Alexandros Ntzouvaras[1], Ioannis Karavidas[2], Theodora Ntanasi[2], Gabriel Vasilakis[3], Georgia Ntatsi[2], Emmanouil Flemetakis[1]

[1] Agricultural University of Athens, Laboratory of Molecular Biology, Department of Biotechnology, Iera Odos 75, 11855, Athens, Greece
[2] Agricultural University of Athens, Laboratoty of Vegetable Crops, Department of Crop Science, Iera Odos 75, 11855, Athens, Greece
[3]Agricultural University of Athens, Laboratory of Food Microbiology and Biotechnology, Department of Food Science and Human Nutrition, Iera Odos 75, 11855, Athens, Greece
*email: stud318113@aua.gr

P25: SayWES4Life: Whole exome sequencing for diagnosis of rare genetic diseases for 400 patients in Greece reveals ultra-rare entities

E. Veltsou[1,2], V. Tzimogianni[1,2], O. Preza[1,2], S. Mavromatis[1,2], N. Georgakopoulou[1,2], D. Veltista[3], E. Chroni[3], E. Kostopoulou[4], G. Dimitriou[4], A. Katerelos[5], M.Iliopoulou[5], P. Tsoumpos[5], L. Lykopoulou[6], M. R. Pons[6], A. Kattamis[6], R. Koros[7], G. Tsigkas[7], P. Davlouros[7], V. Panagiotopoulos[8], G. Karadima[9], G. Koutsis[9], G. Papadimas[9], L. Stefanis[9], V. Giannatos[12], A. Konstantopoulou[5], K. Loritis[10], A. Briasoulis[10], G. Georgiopoulos[10], R. Seung Woo[11], K. JiHye[11], S. Taraviras[12], Z. Lygerou[1,2]

[1]Institute of Precision Medicine, University Research and Innovation Center, University of Patras.
[2]Molecular Genetics Unit, General Biology Department, Medical School, University of Patras, Greece.
[3]Neuromuscular Center, University General Hospital of Patras and Medical School, University of Patras,
[4]Paediatric Clinic, University General Hospital of Patras and Medical School, University of Patras,
[5]Karamandaneio Childrens' Hospital, Patras,
[6]Ag. Sofia Children's Hospital, Athens,
[7]Cardiology Unit, Pathology Clinic, University General Hospital of Patras and Medical School, University of Patras,
[8]Neurosurgery Unit, Surgery Clinic, University General Hospital of Patras and Medical School, University of Patras,
[9]Neurology Clinic, Eginition Hospital, Athens,
[10]Department of Clinical Therapeutics, National and Kapodistrian University of Athens,
[11]3billion Inc., Seoul, South Korea
[12]Department of Physiology, School of Medicine University of Patras, Greece.

P27: Mechanistic insights into the anticancer effect of sulfated hyaluronan in aggressive cancer cells

Christos Koutsakis[1], Sylvia Mangani[1], Nikolaos Ef. Koletsis[1], Zoi Piperigkou[1,2], Martyna Maszota-Zieleniak[3], Sergey A. Samsonov[3], Nikos K. Karamanos[1,2]

[1] Biochemistry, Biochemical Analysis & Matrix Pathobiology Research Group, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece
[2] Foundation for Research and Technology-Hellas (FORTH) / Institute of Chemical Engineering Sciences (ICE-HT), Patras, Greece
[3] Faculty of Chemistry, University of Gdansk, Gdansk, Poland

P29: Quantitative detection of Non Helicobacter pylori Helicobacter (NHPH) species in human gastric biopsies

Beatriz Martinez-Gonzalez[1], Ioanna Nanou[1,2], Nikolaos Moustakas[1], Stylliani Xenaki[1], Ioannis Karayiannis[1], Panagoula Kollia[2] and Dionyssios N. Sgouras[1*]

[1]Laboratory of Medical Microbiology, Hellenic Pasteur Institute, Athens, Greece
[2]Department of Genetics and Biotechnology, Faculty of Biology, School of Physical Sciences, University of Athens, Athens, Greece

P31: HSP90 is a key regulator of the GA signaling pathway

Konstantinos Panagiotopoulos, Despina Samakovli, Aggeliki Rambou, Polydefkis Hatzopoulos, Dimitra Milioni*

Agricultural University of Athens, School of Applied Biology and Biotechnology, Department of Biotechnology, Iera Odos 75, Athens 11855

P33: Identification of specific testosterone-like antagonists for the membrane receptor of androgens, OXER1

Athanasios A. Panagiotopoulos[1], Evangelia Konstantinou[1], Konstantina Kalyvianaki[1], Stergios A. Pirintsos[2], Elias Castanas[1*], Marilena Kampa[1*]

[1]Laboratory of Experimental Endocrinology, University of Crete, School of Medicine, Heraklion, Greece
[2]Department of Biology, School of Science and Technology, University of Crete, Heraklion, Greece
**e-mails: Marilena Kampa (kampam@uoc.gr), and Elias Castanas (castanas@uoc.gr)*

P35: Effect of simvastatin on Hs578T breast cancer cells: functional properties, and expression of stem and EMT markers of selected extracellular proteases.

Constantine Papadimatos, Ioanna Christodoulou, Spyridon S. Skandalis, Nikos K. Karamanos and Demitrios H. Vynios

Biochemistry, Biochemical Analysis & Matrix Pathobiochemistry Research Group, Department of Chemistry, University of Patras, 26504 Patras, Greece

P37: Identification of the protein interactome of *Escherichia coli* Glutaredoxin 2

Eleni Poulou-Sidiropoulou[1], Charalampos N. Bompas[1], Martina Samiotaki[2], Alexios Vlamis-Gardikas[1*]

[1]Department of Chemistry, University of Patras, 26504, Rion, Patras, Greece
[2] Institute for Bioinnovation, Biomedical Sciences Research Center "Alexander Fleming", 16672, Vari, Attica, Greece.

P39: Activin A Signalling in Human Pluripotent Stem Cells

Elena Rakovoliou[1*], Angelos Papadopoulos[2], Athena Kyrkou[1], Nikoleta Kostopoulou[1], Sofia Bellou[1,3], Aikaterini Apostolidi[1], Maria Margariti[4], Maria Markou[1], Eleni Bagli[1], Panagiota Chira[4], Eleni Tschari[5], Philippe Chavrier[5], John Heath[2], Theodore Fotsis[1,4], and Carol Murphy[1]**

[1] Biomedical Research Institute, Foundation of Research and Technology-Hellas, University Campus, 45110 Ioannina, Greece
[2]School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, UK.
[3]Confocal Laser Scanning Microscopy Unit, Network of Research Supporting Laboratories, University of Ioannina, 45110, Greece.
[4]Laboratory of Biological Chemistry, Medical School, University of Ioannina, 45110, Greece
[5]Centre de Recherche, Institut Curie, CNRS, UMR 144, 26 rue d'Ulm, 75248 Paris Cedex 05, France
** Presenting author: Rakovoliou Elena, email: elenarakovoliou@gmail.com ** Corresponding author, email:carol_murphy@bri.forth.gr*

P41: Characterization of the putative DEAH-box RNA helicase DHX35: Insights into cancer translation deregulation

Nikolaos Kypraios[1], Katerina Gentekaki[1], Eleni G. Kaliatsi[1], Adamantia Kouvela[1], Constantinos Stathopoulos[1], Vassiliki Stamatopoulou[1]*

[1]Department of Biochemistry, School of Medicine, University of Patras, Greece

P43: GCN5 plays multiple regulatory roles in *Arabidopsis thaliana* root development

Christos Tersenidis[1], Emmanuel Panteris[1]*, Konstantinos Vlachonasios[1,2]

1 Department of Botany, School of Biology, Faculty of Science, Aristotle University of Thessaloniki, Greece

2 Natural Products Research Centre of Excellence (NatPro-AUTh), Center of Interdisciplinary Research and Innovation of Aristotle University of Thessaloniki (CIRI-AUTh), Thessaloniki, Greece

P45: Structural investigation of DTX3L domains

Nikolaos K. Fourkiotis[#1], Aikaterini C. Tsika[#1], Konstantina P. Kravvariti[1], Sofia-AntigoniTsatsouli[1], Maria Birkou[1] and Georgios A. Spyroulias[1*]

[1]Department of Pharmacy, University of Patras, 26504 Patras, Greece

P47: A transcriptomic analysis to decipher olive antioxidants biosynthesis during olive fruit ripening of the "Koroneiki" cultivar

Dikran Tsitsekian[1], Gerasimos Daras[1], Dimitrios Templalexis[1], Fengoula Avgeri[1], Anthi Panara[2], Nikolaos S Thomaidis[2], Polydefkis Hatzopoulos[1] and Stamatis Rigas[1*]

[1]Laboratory of Molecular Biology, Department of Biotechnology, Agricultural University of Athens, Iera Odos 75, 11855, Athens, Greece.
[2]Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, 15771 Athens, Greece.
**e-mail: srigas@aua.gr*

P49: Deciphering TF dynamics during T-cell differentiation: Transcription factor motif identification through deep learning interpretation

Panagiotis Xiropotamos[1], Yiannis Vasilopoulos[1], Georgios K. Georgakilas[1,2*]

[1]Laboratory of Genetics, Section of Genetics, Cell Biology and Development, Department of Biology, University of Patras, 26504 Patras, Greece,
[2]Information Management Systems Institute, "ATHENA" Research and Innovation Center in Information, Communication and Knowledge Technologies
**e-mail: ggeorgakila@upnet.gr*

P51: Astrocyte-neuron interactions: game changers in Parkinson's disease?

Olympia Apokotou[1], Christina Paschou[2], Anastasios Kollias[2], Konstantina Charmpi[1], Sofia Dede[2], Martina Samiotaki[3], George Panayotou[3], Era Taoufik[2], Rebecca Matsas[2], Florentia Papastefanaki[1, 2*]

[1]Human Embryonic and Induced Pluripotent Stem Cell Unit, Hellenic Pasteur Institute, Athens, Greece
[2]Laboratory of Cellular and Molecular Neurobiology-Stem Cells, Hellenic Pasteur Institute, Athens, Greece
[3]Institute of Bioinnovation, Biomedical Sciences Research Center "Alexander Fleming", Vari, 16672, Greece

P53: Peri-weaning cholera toxin consumption suppresses chemically-induced carcinogenesis in mice

Hara Afaloniati[1], Georgios Aindelis[2], Katerina Spyridopoulou[2], Maria K. Lagou[3], Anastasia Tsingotjidou[4], Katerina Chlichlia[2], Suzan E. Erdman[5], Theofilos Poutahidis[3], Katerina Angelopoulou[1*]

[1]Laboratory of Biochemistry and Toxicology, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece, [2]Department of Molecular Biology and Genetics, Democritus University of Thrace, University Campus Dragana, Alexandroupolis, Greece, [3]Laboratory of Pathology, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece, [4]Laboratory of Anatomy, Histology and Embryology, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece, [5]Division of Comparative Medicine, Massachusetts Institute of Technology, Cambridge, USA,
**e-mail: kangelop@vet.auth.gr*

P55: Unravelling cannabidiol´s therapeutic potential in stress and Alzheimer´s disease brain pathologies

Anastasia Vamvaka-Iakovou[1,2,3,4], Joana Silva[3,4], Patricia Gomes[3,4], Carlos Campos-Marques[3,4], Martina Samiotaki[5], George Panayotou[5], Anastasia Megalokonomou[1,3,4], Filippos Katsaitis [1], Kalliopi Skourti[1], Georgia Papadimitriou[1,3,4], Beatriz Barros-Santos[3,4], Ioannis Sotiropoulos[1,3,4]

[1] Institute of Biosciences and Applications, NCSR Demokritos, Agia Paraskevi, Greece
[2] Department of Biological Applications & Technology, University of Ioannina, Ioannina, Greece
[3] Life and Health Sciences Research Institute (ICVS), School of Medicine, University of Minho, Braga, Portugal
[4] ICVS/3B's - PT Government Associate Laboratory, Braga/Guimaraes, Portugal
[5] Institute for Bioinnovation, Biomedical Sciences Research Center "Alexander Fleming", Vari, Attica, Greece

P57: Study of chitin metabolism of the psychrophilic bacterium *Moritella marina* by proteomic analysis

Andreas Paliouras[1], Anastasios Georgoulis[1] Aggeliki Tsoka[1], Martina Samiotaki[2] Constantinos Vorgias[1], Jerome Zoidakis[1,3*]

1 Department of Biology, National and Kapodistrian University of Athens, Panepistimioupolis, Zografou, 15701, Athens, Greece
2 Proteomics Facility, Institute for Bioinnovation, Biomedical Sciences Research Center 'Alexander Fleming', 16672, Vari, Greece.
3 Proteomics Laboratory, Biomedical Research Foundation, Academy of Athens, 11527, Athens, Greece

P59: Serglycin is a novel regulator of unfolded protein response pathway in glioblastoma cells

Eleftherios N. Athanasopoulos[1], Theodora Stamatogiannopoulou[1], Dimitra Manou[2], Dimitra Bainantzou[1], Achilleas D. Theocharis[1]

[1]Biochemistry, Biochemical Analysis & Matrix Pathobiology Research Group, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Greece
[2]Brain Tumor Biology, Division of Translational Cancer Research, Lund University, Sweden

P61: Lactococcus lactis ssp. lactis bacteriocins exert cytotoxic effects on colon cancer cells

Christina Thoda[1], Eleni Gounari[2], Dimitris Kontoyiannis[1], George Koliakos[2,3], Maria Touraki[1]

[1] Department of Genetics, Development and Molecular Biology, School of Biology, Faculty of Sciences, Aristotle University of Thessaloniki, Thessaloniki, 54124
[2] Biohellenika, Biotechnology Company, Thessaloniki, 57001
[3] Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, 54124

P63: Natural Product Analogues as Antibacterial Agents: The Case of Cinnamaldehyde and Colupulone

Angeliki Kokkali[1], Anna-Maria Kostaki[2,3], Georgia Athanassopoulou[2,3], Apostolia Makri[4], Marina Sagnou[5], Veroniki P. Vidali[2]*, Georgia Kythreoti[1]*

*[1]School of Liberal Arts and Sciences, The American College of Greece, Aghia Paraskevi, Greece. *Email: gkythreoti@acg.edu*
*[2]Institute of Nanoscience & Nanotechnology, National Center for Scientific Research "Demokritos", Aghia Paraskevi, Greece. *Email: v.vidali@inn.demokritos.gr*
[3]Department of Pharmacy, National and Kapodistrian University of Athens, Greece.
[4]Department of Food Science and Human Nutrition, Agricultural University of Athens, Greece.
[5]Institute of Biosciences & Applications, National Centre for Scientific Research "Demokritos", Aghia Paraskevi, Greece.

P65: Extracellular vesicles produced by the gut microbiome and their effect on mental disorders

Effrosyni Louka, Vassiliki Lila Koumandou*

Department of Biotechnology, Agricultural University of Athens, Greece

P67: A novel RNA-targeted therapeutic approach against Tau-driven neuronal pathology in Alzheimer's disease brain pathology

Anastasia Megalokonomou[1,2] *, Carlos Campos-Marques[3,4], Bruno Godinho[5,6], Jonathan Watts[5,7], Martina Samiotaki[8], George Panayotou[8], Georgia Papadimitriou[1,3,4], Anastasia Vamvaka-Iakovou[1,9], Beatriz Barros dos Santos[3,4], Kalliopi Skourti[1], Filippos Katsaitis[1], Joana Silva[3,4], Ioannis Sotiropoulos[1,3,4]

[1] Institute of Biosciences and Applications (IBA), National Center of Scientific Research "Demokritos", Athens, Greece.
[2] Faculty of Medicine, University of Crete, Heraklion, Greece.
[3] Life and Health Sciences Research Institute (ICVS), School of Medicine, University of Minho, Braga 4710-057, Portugal.
[4] ICVS/3B's–PT Government Associate Laboratory, Braga/Guimarães 4710-057, Portugal.
[5] RNA Therapeutics Institute, University of Massachusetts Medical School, Worcester, Massachusetts, USA
[6] Department of Molecular Medicine, University of Massachusetts Medical School, Worcester, Massachusetts, USA
[7] Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, Worcester, Massachusetts, USA
[8] Institute for Bioinnovation (IBI), Biomedical Sciences Research Center "Alexander Fleming", Athens, Greece
[9] Department of Biological Applications & Technology, University of Ioannina, 45110, Ioannina, Greece

P69: Inactivation of tumor suppressor CYLD inhibits fibroblast re-programming to pluripotency

Nikolaos Bekas[1], Martina Samiotaki[2], Maria Papathanasiou[3], Panagiotis Mokos[1], Athanasios Pseftogas[4], Konstantinos Xanthopoulos[5], Dimitris Thanos[3], George Mosialos[1], Dimitra Dafou[1]

1 School of Biology, Aristotle University Of Thessaloniki, Thessaloniki Greece
2 Biomedical Sciences Research Center "Alexander Fleming", Athens Greece
3 Biomedical Research Foundation Academy of Athens, Athens Greece
4 Vita-Salute San Raffaele University Division of Experimental Oncology, Milan Italy
5 Laboratory of Pharmacology, Department of Pharmacy, School of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki Greece

P71: Development of an antigen-specific therapy for myasthenia gravis

Eleni Ntoukaki, Vasiliki Baltatzidou, Konstantinos Lazaridis*

Department of Immunology, Hellenic Pasteur Institute, Athens, Greece.

P73: AlphaFold Prediction of Structural Ensembles of Disordered Proteins

Faidon Brotzakis[1,2], Shengyu Zhang[1], Michele Vendruscolo[1,*]

1. Centre for Misfolding Diseases, Yusuf Hamied Department of Chemistry, University of Cambridge, Cambridge, UK
2. BSRC Fleming, Vari, Greece

P75: Reassessment of PTEN inhibitors: A comparative study of bisperoxovanadium complexes and novel compounds.

Kyriaki Premeti[1*], Antonios E. Nadalis[1], Vasiliki Syropoulou[1], Danai Karagkiozeli[1], George Aggelis[1], Mlhalis G. Papanikolaou[2], Themistoklis Kampanos[2], Charalampos Labrakakis[3,4], Katerina Antoniou[1,4], George Leondaritis[1,4]

[1]Department of Pharmacology, Faculty of Medicine, School of Health Sciences, University of Ioannina, 45110 Ioannina, Greece
[2] Section of Inorganic and Analytical Chemistry, Department of Chemistry, University of Ioannina, Ioannina 45110, Greece
[3]Department of Biological Applications and Technology, School of Health Sciences, University of Ioannina, 45110 Ioannina, Greece
[4]Institute of Biosciences, University Research Center of Ioannina, 45110 Ioannina, Greece

P77: Cold atmospheric plasma regulates breast cancer cells' microenvironment

Varvara-Christina Siagka[1], Aggeliki Kanellaki[1], Maria-Elpida Christopoulou[1,2], Stavros Meropoulis[3], Christos Aggelopoulos[3], Spyros S. Skandalis[1*]

[1]Biochemistry, Biochemical Analysis & Matrix Pathobiology Res. Group, Laboratory of Biochemistry, Department of Chemistry, University of Patras, Patras, Greece
[2]Department of Pneumology, Medical Center-University of Freiburg, Faculty of Medicine-University of Freiburg, Freiburg, Germany
[3]Laboratory of Cold Plasma and Advanced Techniques for Improving Environmental Systems, Institute of Chemical Engineering Sciences, Foundation for Research and Technology Hellas (FORTH/ICE-HT), Patras, Greece
skandalis@upatras.gr

Poster Session II
Thursday 30 November 2023 | 15:00 – 16:30

P2: Study of the relationship between mitochondrial function and dysregulation of significant signaling pathways in Parkinson's disease through comparative proteomics analysis

Sofia Ioannidou[1,2], Konstantina Psatha[1,2,3], Sofia Notopoulou[4], Martina Samiotaki[5], Nikolaos Grigoriadis[6], Spyros Petrakis[4], Michalis Aivaliotis[1,2,7]

[1]Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[2]Functional Proteomics and Systems Biology (FunPATh), Center for Interdisciplinary research and Innovation (CIRI), Aristotle University of Thessaloniki, Greece
[3]Laboratory of Medical Biology and Genetics, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[4]Institute of Applied Biosciences (INAB), Center for Research and Technology Hellas, Thessaloniki, Greece
[5]Biomedical Sciences Research Center "ALEXANDROS FLEMING", Athens, Greece
[6]Laboratory of Experimental Neurology and Neuroimmunology, School of Medicine, Aristotle University of Thessaloniki, Greece
[7]Basic and Translational Research Unit, Special Unit for Biomedical Research and Education, School of Medicine, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

P4: Comparative study of key epigenetic protein regulators in different subtypes of human lymphoma after Nutlin-3a-induced p53 activation

Stergiani Telliou[1,2], Paschalina Tangili[1,2], Stefania Maniatsi[2,3], Georgia Orfanoudaki[2], Konstantina Psatha[2,3,4], Michalis Aivaliotis[2,3,5]

[1]School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece
[2]Functional Proteomics and Systems Biology (FunPATh), Center for Interdisciplinary research and Innovation (CIRI), Aristotle University of Thessaloniki, Thessaloniki, Greece
[3]Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece
[4]Laboratory of Medical Biology and Genetics, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece
[5]Basic and Translational Research Unit, Special Unit for Biomedical Research and Education, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

P6: Elucidation of the relative abundance of p53 isoforms and protein complexes in human lymphoma and leukemia cell line models

Anastasia Theodosiadou[1,2], Athina Kyriazi[2,3], Ilektra Mavroudi[1,2], Stefanos Polychronis[4], Stefania Maniatsi[2,5], Elias Drakos[6], Martina Samiotaki[7], Konstantina Psatha[2,5,8], Michalis Aivaliotis[1,2,9]

[1]School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece
[2]Functional Proteomics and Systems Biology (FunPATh), Center for Interdisciplinary research and Innovation (CIRI), Aristotle University of Thessaloniki, Thessaloniki, Greece
[3]Department of Biology, University of Crete, Heraklion, Greece
[4]Department of Biochemistry, Eberhard Karls University of Tuebingen, Tuebingen, Germany
[5]Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[6]School of Medicine, University of Crete, Heraklion, Greece
[7]Biomedical Sciences Research Center "ALEXANDROS FLEMING", Athens, Greece
[8]Laboratory of Medical Biology and Genetics, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece
[9]Basic and Translational Research Unit, Special Unit for Biomedical Research and Education, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

P8: The regulatory role of the interaction between platelets and postnatal brain Neural Stem and Progenitor Cells of the Subependymal Zone

Maria Anesti[1*], Cédric Ghevaert[2], Ilias Kazanis[1]

[1] Laboratory of Developmental Biology, Division of Genetics Cell and Developmental Biology, Department of Biology, University of Patras, Patras, Greece
[2]Wellcome Trust – MRC Cambridge Stem Cell Institute & Department of Haematology, University of Cambridge, Cambridge, UK
**e-mail: anestimaria@gmail.com*

P10: Identification of factors that decrease the occurrence of oncogenic therapy-induced *MLL* fusions

Anna Athanasouli[1], Diana Kotini[1], Henrike Gothe[2], Vera Minneker[2], Jan Heidelberger[2], Petra Beli[2] and Vassilis Roukos[1,2]

[1]Department of General Biology, Medical School, University of Patras, Patras, Greece
[2] Institute of Molecular Biology (IMB), Mainz, Germany

P12: Identification of the protein interactome of *Escherichia coli* Glutaredoxin 3

Charalampos N. Bompas[1], Eleni Poulou-Sidiropoulou[1], Martina Samiotaki[2], Alexios Vlamis-Gardikas[1*]

[1] Department of Chemistry, University of Patras, 26504, Rion, Patras, Greece
[2] Institute for Bioinnovation, Biomedical Sciences Research Center "Alexander Fleming", 16672, Vari, Attica, Greece.

P14: The 'linchpin' Arg983 of E3 Ubiquitin Ligase Arkadia and its role in the ubiquitination machinery

Georgia N. Delegkou[1], Nefeli Fragkaki[1], Maria Birkou[1], Tamara Toro[1], Konstantinos D. Marousis[1], Vasso Episkopou[2], Georgios A. Spyroulias[1*]

[1]Department of Pharmacy, University of Patras, 26504 Patras, Greece
[2]Department of Brain Sciences, Imperial College, London W12 0NN, UK
[*]e-mail: G.A.Spyroulias@upatras.gr

P16: Modulation of neuronal and astroglial gene expression markers in European Sea Bass (*Dicentrarchus labrax*) infected with nervous necrosis virus

Antonia Efstathiou, Dimitra K. Toubanaki, Odysseas P. Tzortzatos, Evdokia Karagouni*

Hellenic Pasteur Institute, Department of Microbiology, Vas. Sofias 127, 11521, Athens, Greece
*e-mail: ekaragouni@pasteur.gr

P18: Semi-synthetic analogues of oleuropein with improved anticancer activity *in vitro* and *in vivo*

Nikolaos Angelis[1*], Panagiota Papakotsi[2], Efthimios Paronis[1], Georgia Sarikaki[2], Ioannis Kostopoulos[1], Alexandros-Leandros Skaltsounis[2], Ioannis Kostakis[3], Ourania Tsitsilonis[1]

[1]Section of Animal and Human Physiology, Department of Biology; [2]Section of Pharmacognosy & Natural Products Chemistry, Department of Pharmacy; [3]Section of Pharmaceutical Chemistry, Department of Pharmacy, National and Kapodistrian University of Athens, Greece

P20: The lipid metabolism regulator Angiopoietin-like-3 protein (ANGPTL-3) modulates cholesterol biosynthesis in Hepatitis C virus (HCV)-infected hepatocytes

Athanassios Batsilas, Despoina Olga Papaggeli, Georgia Papadopoulou, Vaia Valiakou, Danai Damda, Eirini Karamichali, Urania Georgopoulou, Pelagia Foka*

Molecular Virology Laboratory, Hellenic Pasteur Institute, Athens, Greece

P22: Molecular Determinants of CRISPR/Cas9 Scissile Profile for Precise and Predictable Genome Editing

Demetriana Hadjichristou[1], Gabriel M. C. Longo[2], Sergi Sayols[2], Andriana G. Kotini[1], Vassilis Roukos[1,2]

[1] Department of General Biology, Medical School, University of Patras, Patras, Greece
[2] Institute of Molecular Biology (IMB), Mainz, Germany

P24: Neural Stem Cells and Platelets: allies or rivals? an investigation of cell viability, apoptosis, mitosis and neurogenesis in co-cultures

F. Katsaitis[1,2*], Maria Anesti[1], Aggeliki Dimopoulou[1], I. Kazanis[1*]

[1.] Laboratory of Developmental Biology, Department of Biology, University of Patras, 26500, Patras, Greece
[2.] Current Affiliation: Laboratory of Cell Signaling and Molecular Pharmacology, Institute of Biosciences and Applications, NCSR "Demokritos", 15343, Athens, Greece
Corresponding E-mails: filippos.katsaitis@upnet.gr or ikazanis@upatras.gr

P26: Investigation of metabolic responses following treatment with a novel synthetic purine analog with antitumor activity in mouse model of breast cancer

Panagiotis Malamos[1*], Manolis Matzapetakis[1], Maria Georgiou[2], Nikolaos Lougiakis[2], Vassilis L. Souliotis[1], Nicole Pouli[2], Panagiotis Marakos[2], Dimitris Stellas[1], Maria Zervou[1]

[1] Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece
[2] Division of Pharmaceutical Chemistry, Department of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Athens, Greece

P28: Effect of graphene and graphene oxide on human pluripotent and vascular cells

Maria Markou, Kostas Spyrou, Athanasia Zoi Pappa, Sofia Bellou, Eleni Bagli, Dimitrios Gournis, Theodore Fotsis, Carol Murphy*

[1]Biomedical Research Institute (BRI) -FORTH, Ioannina, Greece.
[2]Department of Material Sciences and Engineering, University of Ioannina, Greece.
[3]Laboratory of Biological Chemistry, Medical Department, School of Health Sciences. University of Ioannina, Greece.
Corresponding author: Carol Murphy, email: carol_murphy@bri.forth.gr

P30: Sequencing-based mutational screening of the β-globin gene and pipeline development for variant calling in β-thalassemia modifier loci from Whole Exome Sequencing data

Sotiris Mavromatis[1], Eirini Veltsou[1], A. Symeonidis[2], A. Kourakli[2], Zoi Lygerou[1]

[1] Molecular Genetics Unit, Department of General Biology, School of Medicine, University of Patras, Greece.
2 Thalassemia Center, Haematology Unit, University Hospital of Patras, School of Medicine, University of Patras, Greece

P32: TOP2 topoisomerases remodel chromosome organization at boundaries of active, positively supercoiled and nuclear lamina-associated regions of the human genome.

Anastasia Panagi[1]*, Amalia Stavridou[1]*, Gabe Longo[2], Sergi Sayols[2], Ting Xie[3], Argyris Papantonis[3], Diana Kotini[1], Vassilis Roukos[1,2]

[1]Department of General Biology, Medical School, University of Patras, Patras, Greece
[2]Institute of Molecular Biology (IMB), Mainz, Germany
[3]Institute of Pathology, University Medical Center Göttingen, Robert-Koch-Strasse 40, 37075 Göttingen
*equal contribution

P34: Evidence for nuclear translocation of the membrane androgen receptor, OXER1 through its interaction with karyopherins systems

Panagiotis Malamos[1], Athanasios A. Panagiotopoulos[1], Konstantina Kalyvianaki[1], Amalia Vogiatzoglou[1], Artemis Tsitsikalaki[1], Panayiotis A. Theodoropoulos[2], Christos A. Panagiotidis[3], George Notas[1], Elias Castanas[1*], Marilena Kampa[1*]

[1]Laboratory of Experimental Endocrinology, University of Crete, School of Medicine, Heraklion, Greece
[2]Department of Biochemistry, School of Medicine, University of Crete, Heraklion, Greece
[3]Laboratory of Pharmacology, School of Pharmacy, Aristotle University of Thessaloniki, Thessaloniki, Greece
**e-mails: Marilena Kampa (kampam@uoc.gr), and Elias Castanas (castanas@uoc.gr)*

P36: Studying the pathophysiological role of SLC25A46 through proteomic analysis

Vasiliki-Iris Perivolidi[1,2], Pavlina-Ilianna Moutzouri[1,2], Martina Samiotaki[2], George Panayotou[2], Eleni Douni[1,2,*]

[1] Laboratory of Genetics, Department of Biotechnology, Agricultural University of Athens, Iera Odos 75, 11855, Athens, Greece
[2] Institute for Bioinnovation, Biomedical Sciences Research Center "Alexander Fleming", Fleming 34, 16672, Vari, Greece

P38: Microalgae-Based Wastewater Purification and Resource Valorization: A Study on *Chlamydomonas* sp. and *Scenedesmus* sp. in Tomato Hydroponic Effluents

Georgios-Chrisovalantis Prattis[1]*, Danae Ifanti[1], Sofia Marka[1], Maria-Eleftheria Zografaki[1], Alexandros Ntzouvaras[1], Ioannis Karavidas[2], Theodora Ntanasi[2] Gabriel Vasilakis[3], Georgia Ntatsi[2], Emmanouil Flemetakis[1]

[1]Agricultural University of Athens, Laboratory of Molecular Biology, Department of Biotechnology Iera Odos 75, 11855, Athens, Greece
[2] Agricultural University of Athens, Laboratoty of Vegetable Crops, Department of Crop Science, Iera Odos 75, 11855, Athens, Greece
[3]Agricultural University of Athens, Laboratory of Food Microbiology and Biotechnology, Department of Food Science and Human Nutrition, Iera Odos 75, 11855, Athens, Greece
**stud318085@aua.gr*

P40: In vivo microglial Bin1 deletion following LPS stimulation regulates neuroinflammation in the mouse hippocampus and Adult Hippocampal Neurogenesis

Maria Anna Roussaki[1]*, Maria Margariti[1], Irini Thanou[1], Evangelia Xingi[2], Vasiliki Kyrargiri[3], Marcos Costa[4, 5], Dimitra Thomaidou[1]

[1] Hellenic Pasteur Institute, Neural Stem Cells and Neuro-imaging Group, Department of Neurobiology, Athens, Greece, [2] Hellenic Pasteur Institute, Light Microscopy Unit, Athens, Greece, [3] Hellenic Pasteur Institute, Laboratory of Molecular Genetics, Microbiology Department, Athens, Greece, [4]Institut Pasteur de Lille, Univ. Lille, Inserm, CHU Lille, Lille, France, [5]Federal University of Rio Grande do Norte, Brain Institute, Natal, Brazil

P42: Investigating the role of RANKL in mammary and prostate gland pathophysiology

Christos Chrysovalantis Syrigos[1,2], Evi Gkikopoulou[1,2], Dimitrios Lymperopoulos[2,3], Anthi Kolokotroni[1,2], and Eleni Douni[1,2*]

[1] Department of Biotechnology, Agricultural University of Athens, Iera Odos 75, 11855, Athens, Greece
[2] Institute for Bioinnovation, B.S.R.C. "Alexander Fleming", Fleming 34, 16672, Vari, Greece
[3] School of Medicine, European University Cyprus, Nicosia, Cyprus

P44: Pancreatic Cancer-Associated Depression (PCAD) is linked to adult neurogenesis impairment

Dimitrios Troumpoukis[1], Adriana Papadimitropoulou[1], Effrosyni Koronaiou[2], Paraskevi Kogionou[1,3], Chrysanthi Charalampous[1], Alexia Polissidis[2], Nicolas Nicolaides[2,4], Yassemi Koutmani[2]* and Ioannis Serafimidis[1]*

[1]Center of Basic Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
[2]Center of Experimental Surgery, Clinical and Translational Research, Biomedical Research Foundation of the Academy of Athens, Athens, Greece
[3]Department of Biology, National and Kapodistrian University of Athens, Athens, Greece
[4]First Department of Pediatrics, National and Kapodistrian University of Athens, Athens, Greece
**emails: ykoutmani@bioacademy.gr, iseraf@bioacademy.gr*

P46: Structural biology-based targeting of viral and human macrodomains

Aikaterini C. Tsika[#1], Nikolaos K. Fourkiotis[#1], Angelo Gallo[1], Christos Sideras- Bisdekis[1], Sofia-Antigoni Tsatsouli[1], Danai Moschidi[1], Athanasios Papakyriakou[2] and Georgios A. Spyroulias[1*]

[1]Department of Pharmacy, University of Patras, 26504 Patras, Greece
[2]Institute of Biosciences and Applications, National Centre for Scientific Research "Demokritos", 15341 Agia Paraskevi, Athens, Greece
**Correspondence to: G.A.Spyroulias@upatras.gr*
[#]Contributed equally

P48: Modulation of Immune Response and Gene Expression Profiling of European Sea Bass (*Dicentrarchus labrax, L.*) Challenged with bacterial and viral infection mimics

Odysseas P. Tzortzatos[1], Dimitra K. Toubanaki[1], Akindynos Palaiologos[2], Michail-Aggelos Valsamidis[2], Leonidas Papaharisis[3], Vasileios Bakopoulos[2], Evdokia Karagouni[1]*

[1]Hellenic Pasteur Institute, Department of Microbiology, Vas. Sofias 127, 11521, Athens, Greece; [2]University of the Aegean, Department of Marine Sciences, 81100 Mytilene, Greece; [3]Nireus Aquaculture S.A., 1st klm. Koropiou-Varis Avenue, 19400 Koropi, Greece.
*e-mail: ekaragouni@pasteur.gr

P50: Detection of mitochondrial transfer RNA mutations in patients with Idiopathic Pulmonary Fibrosis, Sarcoidosis, Asthma and Chronic Obstructive Pulmonary Disease

Michaela Kafida[1], Maria Karela [1*], Stefania Stefanidou[1], Vasilios Xronopoulos [1], Maria Tasiou [1], Zoi Daniil [2] and Emily Zifa [1]

1 Department of Biochemistry and Biotechnology, University of Thessaly, 26 Ploutonos St., 41221, Larissa, Greece.

2 Department of Medicine, University of Thessaly, 26 Ploutonos St., 41221, Larissa, Greece.

P52: PERK kinase: A “master tactician” for the emergence of apoptotic and inflammatory nature of SARS-CoV-2 ORF3a protein

Panagiotis Keramidas[1*], Eleni Papachristou[1*], Rigini M. Papi[1], Aglaia Mantsou[1], Theodora Choli-Papadopoulou[1]**

[1]*Laboratory of Biochemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
**Equal contribution*
***Email: tcholi@chem.auth.gr*

P54: Comparative targeted metabolomics and proteomics analysis in human lymphoma model cell lines for the study of metabolic rewiring and differential diagnosis

Eleni Stolaki[1,2], Thomai Mouskeftara[3,4], Konstantina Psatha[1,2,5], Georgia Orfanoudaki[2], Aristeidis Kritis[6,7], Helen Gika[3,4], Michalis Aivaliotis[1,2,8]

[1]Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[2]Functional Proteomics and Systems Biology (FunPATh), Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center, Thessaloniki, Greece
[3]Laboratory of Forensic Medicine and Toxicology, Department of Medicine, Aristotle University of Thessaloniki, Greece
[4]Biomic_AUTh, Center for Interdisciplinary Research and Innovation (CIRI-AUTH), Balkan Center, Thessaloniki, Greece
[5]Laboratory of Medical Biology and Medical Genetics, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[6]Laboratory of Physiology, Department of Physiology and Pharmacology, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[7]cGMP Regenerative Medicine Facility, Department of Physiology and Pharmacology, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece
[8]Basic and Translational Research Unit, Special Unit for Biomedical Research and Education, School of Medicine, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

P56: Proteomics Analysis offers insights on the resilience of the Mediterranean plant *Cistus creticus* to environmental stress

Elena Sampanai[1], Aggeliki Tsoka[1], Julie Courraud[2,3], Guillaume Médard[3], Constantinos Vorgias[1], Paraskevi Skourou[1*], Jerome Zoidakis[1,4*]

1 Department of Biology, National and Kapodistrian University of Athens, Panepistimioupolis, Zografou, 15771, Athens, Greece
2 Department of Clinical Therapeutics, School of Medicine, National and Kapodistrian University of Athens, Alexandra Hospital, Leof. Vasilissis Sofias 80, Athens 11528, Greece
3 Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimioupolis Zografou, 15771, Athens, Greece
4 Proteomics Laboratory, Biomedical Research Foundation, Academy of Athens, 11527, Athens, Greece

P58: Evaluation of a protocol for proteomics analysis of biological samples using the organic phase remaining after nucleic acid isolation

Julie Courraud[1,2], Guillaume Médard[2], Fotini Paradisi[3], Sotiris Karapatakis[3], Jerome Zoidakis[3,4*]

1 Department of Clinical Therapeutics, School of Medicine, National and Kapodistrian University of Athens, Alexandra Hospital, Leof. Vasilissis Sofias 80, Athens 11528, Greece
2 Laboratory of Analytical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Panepistimioupolis Zografou, 15771, Athens, Greece
3 Department of Biology, National and Kapodistrian University of Athens, Panepistimioupolis, Zografou, 15771, Athens, Greece
4 Proteomics Laboratory, Biomedical Research Foundation, Academy of Athens, 11527, Athens, Greece

P60: Lon protease the guardian of mitostasis

Fengoula Avgeri[1*], Dikran Tsitsekian[1], Gerasimos Daras[1], Dimitris Templalexis[1], Martina Samiotaki[2], Polydefkis Hatzopoulos[1], and Stamatis Rigas[1]

[1] Department of Biotechnology, Agricultural University of Athens, Athens, Greece
[2] Sciences Research Center "Alexander Fleming", Athens, Greece
** e-mail: favgeri@aua.gr*

P62: Identification of novel synthetic lethal interactions in cancer cells with DNA replication licensing aberrations

Elena Karydi[1], Nibal Badra-Fajardo[3], Ourania Preza[1], Stavros Taraviras[2], Zoi Lygerou[1*]

[1] Department of General Biology, School of Medicine, University of Patras, Greece.
[2] Department of Physiology, School of Medicine, University of Patras, Greece.
[3] Department of Physiology, School of Medicine, University of Seville, Spain.

P64: Unconventional protein secretion: cytoplasmic galectin-1 hijacks the exocytic organelles of endothelial cells.

Panagiotis Lentzaris[1,2,#], Evangeli Goula[1,2,#], Panagiotis Botsios[1,2,#], Vasiliki Lazani[1,2], Styliani Tsiagka[1,2], Alexandra Papafotika[1,2], Michalis Aivaliotis[3,4] and Savvas Christoforidis[1,2,*]

1 Biomedical Research Institute, Foundation for Research and Technology-Hellas, Ioannina, Greece
2 Laboratory of Biological Chemistry, Department of Medicine, School of Health Sciences, University of Ioannina, Ioannina, Greece
3 Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology-Hellas, Heraklion, Greece
4 Laboratory of Biological Chemistry, School of Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece.
 # These authors contributed equally
**Corresponding author: Savvas Christoforidis, email: savvas_christoforidis@bri.forth.gr, schristo@uoi.gr*

P66: Heterogeneous nuclear ribonucleoprotein A3 is a regulator of intestinal infection

Fotis Ioakeimidis[1#], Panagiotis Mavrommatis-Parasidis[2#*], Sofia Gargani[1,2], Margarita Andreadou[1], Dimitris L. Kontoyiannis[1,2]

[1].Institute of Fundamental Biomedical Research, Biomedical Sciences Research Centre “Alexander Fleming”, Vari, Greece
[2]. Department of Genetics, Development and Molecular Biology, School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece

P68: Bioinformatic analysis of the mitochondrial carrier SLC25A46: evolution, mutations, interactions & structure

Nikolaos Nodarakis, Vassiliki Lila Koumandou*

Department of Biotechnology, Agricultural University of Athens, Greece

P70: Crosstalk between Neural Stem Cells and Platelets: Insight from co-cultures under differentiation conditions

Maria Nousia[1*], Maria Anesti[1], Aggeliki Dimopoulou[1], Ilias Kazanis[1*]

[1].Laboratory of Developmental Biology, Department of Biology, University of Patras, Patras, Greece

P72: Exploring m6A epitranscriptome machinery in ovarian cancer: Clinical relevance of FTO m6A RNA “eraser” in early-progression and treatment response

Eleni-Foteini Pasiali[1], Konstantina Panoutsopoulou[1], Eva Obermayr[2], Sven Mahner[3], Toon van Gorp[4], Ioana Braicu[5], Robert Zeillinger[2], Margaritis Avgeris[1,6,*], Andreas Scorilas[1]

[1] Department of Biochemistry and Molecular Biology, Faculty of Biology, National and Kapodistrian University of Athens, Athens, Greece
[2] Molecular Oncology Group, Department of Obstetrics and Gynecology, Comprehensive Cancer Center-Gynecologic Cancer Unit, Medical University of Vienna, Vienna, Austria
[3] Department of Gynecology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, AGO; current address: Department of Obstetrics and Gynecology, University Hospital, Ludwig-Maximilians-University Munich, Munich, Germany
[4] Department of Obstetrics and Gynaecology, Division of Gynecologic Oncology, University Hospital Leuven, Leuven Cancer Institute, Leuven, Belgium
[5] Department of Gynecology, Charité University Medicine, Campus Virchow, Berlin, Germany
[6] Laboratory of Clinical Biochemistry - Molecular Diagnostics, Second Department of Pediatrics, School of Medicine, National and Kapodistrian University of Athens, "P. & A. Kyriakou" Children's Hospital, Athens, Greece
* margaritis.avgeris@gmail.com; mavgeris@med.uoa.gr

P74: Unraveling epitranscriptomic regulation of nuclear chromatin dissociation dynamics

Nikoleta Pateraki[1,2] , Christos Katsioulas[1] , Nikoletta Triantopoulo[3] ,Annalisa Marsico[4] , Marina Vidaki[1,3] , Evgenia Ntini[1]

[1] Institute of Molecular Biology and Biotechnology, IMBB-FORTH, Crete,
[2] Department of Biology, University of Crete,
[3] Division of Basic Sciences, Medical School, University of Crete, Greece,
[4] Computational Health Center, Helmholtz Center Munich

P76: Association between GALANIN gene rs4432027 SNP and variations in depressive and anxiety symptoms, sense of coherence and vital exhaustion in the real-life setting of mandatory basic military training

Maria Toptsi[1], Polychronis Economou[2], Panagiotis Alexopoulos[3], Ioannis K. Zarkadis[1*]

[1]Laboratory of General Biology, Department of Medicine, School of Health Sciences, University of Patras, 26504, Rion, Patras, Greece
[2]Department of Civil Engineering (Statistics), School of Engineering, University of Patras, 26504, Rion Patras, Greece
[3]Department of Psychiatry, Faculty of Medicine, School of Health Sciences, University of Patras, University Hospital of Patras, 26504, Rion, Patras, Greece

P78: Identification of genes and transcription factors involved in EGFR inhibitor resistance in Non-Small Cell Lung Cancer cells

John Balanos[1]*, Maria F. Chatziaslani[1]*, Maria Tsagiopoulou[3], Spiros Papakostas[2], Maria Georgiadou[4]

[1] Aristotle University of Thessaloniki (AUTh), Greece
[2] International Hellenic University, Thessaloniki, Greece
[3] Centro Nacional de Analisis Genomico (CNAG), Barcelona, Spain
[4] Biomedical Research Institute, Foundation for Research and Technology, Ioannina, Greece