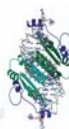


December 7-9, 2007

Athinais Complex | Athens

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59th

National Conference of
Biochemistry and
Molecular Biology



59^ο

Πανελλήνιο Συνέδριο
Βιοχημείας και
Μοριακής Βιολογίας

PRELIMINARY PROGRAMME

ΠΡΟΚΑΤΑΡΚΤΙΚΟ ΠΡΟΓΡΑΜΜΑ

ATHINAIS COMPLEX
December 7 – 9, 2007
Athens

ΠΟΛΥΧΩΡΟΣ ΑΘΗΝΑΪΣ
7-9 Δεκεμβρίου 2007
Αθήνα



Hellenic Society of Biochemistry
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ΧΑΙΡΕΤΙΣΜΟΣ ΠΡΟΕΔΡΩΝ

Αγαπητοί Συνάδελφοι,

Με ιδιαίτερη χαρά σας προσκαλούμε στο 59ο Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Βιοχημείας και Μοριακής Βιολογίας, το οποίο θα πραγματοποιηθεί στην Αθήνα, στον Πολιτιστικό Χώρο «Αθηναίς», από την Παρασκευή, 7 ως την Κυριακή, 9 Δεκεμβρίου 2007, υπό την αιγίδα του Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών και της Γενικής Γραμματείας Έρευνας και Τεχνολογίας.

Στόχος της Οργανωτικής Επιτροπής είναι το επιστημονικό πρόγραμμα του συνεδρίου να καλύψει το ευρύτερο δυνατό φάσμα της θεματολογίας της Βιοχημείας και της Μοριακής Βιολογίας. Οι θεματικές ενότητες του προγράμματος είναι: Αναπτυξιακή Βιολογία, Ανοσοποιητικό Σύστημα, Αποικοδόμηση, Βιοτεχνολογία, Βλαστικά Κύτταρα, Δομική Βιολογία, Ελεύθερες Ρίζες και Οξειδωτικό Στρες, Ιατρική Βιοχημεία, Καρκίνος, Κυτταρική Γήρανση, Κυτταρική Διαφοροποίηση, Κυτταρική Σηματοδότηση, Κυτταρικός Κύκλος, Λειτουργική Γονιδιωματική και Πρωτεομική, Μembrάνες και Συστήματα Μεταφοράς, Μεταγραφή, Μετάφραση, Μοριακή Βάση Ασθενειών, Νέα Μακρομόρια, Παθοβιολογία του Εξωκυττάρου Χώρου, Συστημική Βιολογία και Βιοπληροφορική, Χρωματίνη.

Στο Συνέδριο έχουν προσκληθεί διακεκριμένοι επιστήμονες από την Ελλάδα και το εξωτερικό, όπως ο Sir Alan Fersh (Cambridge, Βρετανία), ο Καθ. Jan Hoeijmakers (Rotterdam, Ολλανδία), ο Καθ. Άρης Μουστάκας (Uppsala, Σουηδία) και ο Καθ. Βασίλης Πάχνης (London, Βρετανία).

Η φετινή συμμετοχή σας με την υποβολή περιλήψεων εργασιών, ξεπέρασε κάθε προηγούμενο αγγίζοντας τις 274 (προφορικές και αναρτημένες ανακοινώσεις) αναδεικνύοντας έτσι το αυξανόμενο ενδιαφέρον της επιστημονικής μας κοινότητας για τις βιοεπιστήμες. Επιπλέον, για πρώτη φορά, 1 μήνα πριν την έναρξη του συνεδρίου, έχουμε ήδη αρκετούς εγγεγραμμένους συνέδρους.

Οι εξελίξεις αυτές υπογραμμίζουν μεταξύ άλλων τη διεκδίκηση από την Ελλάδα μιας δυναμικής θέσης στο διεθνές επιστημονικό στερέωμα, γεγονός που επισφραγίζεται από την οργάνωση του 33ου Πανευρωπαϊκού Συνεδρίου της FEBS & 11ου Διεθνούς Συνεδρίου της IUBMB (28 Ιουνίου - 3 Ιουλίου 2008) από την Ελληνική Εταιρεία Βιοχημείας και Μοριακής Βιολογίας.

Η ΕΕΒΜΒ αναγνωρίζει την ανάγκη επιμόρφωσης και ενημέρωσης όχι μόνο της επιστημονικής κοινότητας αλλά και του ευρύτερου κοινού για τον τομέα των βιοεπιστημών, οι οποίες έχουν προεκτάσεις σε ποικίλες εκφάνσεις της καθημερινής ζωής. Η διοργάνωση του ετήσιου Πανελληνίου Συνεδρίου της ΕΕΒΜΒ αποδεικνύει έμπρακτα τη δέσμευσή της στην ανάγκη ενημέρωσης και είμαστε βέβαιοι ότι τα συνέδριά μας προσφέρουν την απαραίτητη βάση για συζήτηση των ζητημάτων που σχετίζονται με τις βιοεπιστήμες και για την ανάληψη κοινής δράσης.

Με την πεποίθηση ότι το 59ο Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Βιοχημείας και Μοριακής Βιολογίας θα αποτελέσει το κατάλληλο πεδίο για την επωφελή ανταλλαγή επιστημονικής γνώσης ανάμεσα σε διακεκριμένους επιστήμονες αλλά και τους νεότερους συναδέλφους μας, σας καλούμε όλους να συμμετάσχετε ενεργά συμβάλλοντας κατ' αυτόν τον τρόπο στην επιτυχία του συνεδρίου.

Με φιλικούς χαιρετισμούς,

Καθ. Νίκος Καραμάνος
Πρόεδρος ΕΕΒΜΒ

Δρ. Στάθης Γκόνος
Πρόεδρος της Οργανωτικής Επιτροπής

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Πανελλήνιο Συνέδριο
Βιοχημείας και
Μοριακής Βιολογίας

ΦΟΡΕΑΣ – ΟΡΓΑΝΩΤΙΚΗ ΕΠΙΤΡΟΠΗ

Επίσημος φορέας οργάνωσης του 59ου Πανελληνίου Συνεδρίου Βιοχημείας και Μοριακής Βιολογίας είναι η Ελληνική Εταιρεία Βιοχημείας και Μοριακής Βιολογίας (Ε.Ε.Β.Μ.Β).



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Αντιπρόεδρος:	Κώστας Δράινας Πανεπιστήμιο Ιωαννίνων
Γενικός Γραμματέας:	Γιώργος Παναγιώτου Ερευνητικό Κέντρο Βιοϊατρικών Επιστημών «Αλ. Φλέμινγκ»
Ταμίας:	Δημήτρης Κλέτσας Εθνικό Κέντρο Έρευνας Φυσικών Επιστημών «ΔΗΜΟΚΡΙΤΟΣ»
Μέλη:	Δημήτρης Θάνος Ίδρυμα Ιατροβιολογικών Ερευνών της Ακαδημίας Αθηνών, ΙΙΒΕΕΑ Γιώργος Κολιάκος Πανεπιστήμιο Θεσσαλονίκης Ευαγγελία Παπαδημητρίου Πανεπιστήμιο Πατρών

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Βιοχημείας και
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ΟΡΓΑΝΩΤΙΚΗ ΕΠΙΤΡΟΠΗ

Πρόεδρος:

Στάθης Γκόνος
Εθνικό Ίδρυμα Ερευνών, ΕΙΕ

Μέλη:

Σμαραγδή Αντωνοπούλου
Χαροκόπειο Πανεπιστήμιο

Διδώ Βασιλακοπούλου
Πανεπιστήμιο Αθηνών

Ουρανία Γεωργοπούλου
Ελληνικό Ινστιτούτο Παστέρ

Δημήτρης Κλέτσας
Εθνικό Κέντρο Έρευνας Φυσικών Επιστημών «ΔΗΜΟΚΡΙΤΟΣ»

Μαίρη Μαυρή
Πανεπιστήμιο Αθηνών

Γιάννης Στρομπούλης
Ερευνητικό Κέντρο Βιοϊατρικών Επιστημών «Αλ. Φλέμινγκ»

Άρης Χαρώνης
Ίδρυμα Ιατροβιολογικών Ερευνών της Ακαδημίας Αθηνών, ΙΙΒΕΕΑ

ΕΤΑΙΡΕΙΑ ΟΡΓΑΝΩΣΗΣ ΣΥΝΕΔΡΙΟΥ:



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Βιοχημείας και
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ΓΕΝΙΚΕΣ ΠΛΗΡΟΦΟΡΙΕΣ

ΣΥΝΕΔΡΙΑΚΟ ΚΕΝΤΡΟ

Το 59^o Πανελλήνιο Συνέδριο Βιοχημείας και Μοριακής Βιολογίας θα διεξαχθεί στις συνεδριακές εγκαταστάσεις του Πολυχώρου "Αθηναίς" (Οδός Καστοριάς 34-36, Βοτανικός, Αθήνα), από τις 7 έως και τις 9 Δεκεμβρίου 2007.

Πρόσβαση: Το Συνεδριακό Κέντρο είναι κοντά στη στάση του μετρό « Κεραμεικός».

Χώρος Στάθμευσης: Για διευκόλυνση των συνέδρων έχει εξασφαλισθεί ειδική τιμή ημερήσιας χρέωσης 3,00 € στο χώρο στάθμευσης του Πολυχώρου "Αθηναίς" (οδ. Αγίου Όρους & Σπύρου Πάτση, Βοτανικός, Αθήνα).

Παρακαλούνται οι σύνεδροι να αναφέρουν κατά την είσοδό τους στο χώρο στάθμευσης ότι συμμετέχουν στο 59^o Πανελλήνιο Συνέδριο Βιοχημείας και Μοριακής Βιολογίας, προκειμένου να ισχύσει η συγκεκριμένη ημερήσια χρέωση.

Για περισσότερες πληροφορίες σχετικά με τον συνεδριακό χώρο, παρακαλούμε επικοινωνήστε με την Εταιρεία Οργάνωσης του Συνεδρίου:

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Τηλ.: 210 6889 130, Fax: 210 6844 777

E-mail Συνεδρίου: eebmbcongress2007@acnc.gr

Ιστοσελίδα Συνεδρίου: <http://www.eebmbcongress2007.gr>

ΣΗΜΑΝΤΙΚΕΣ ΗΜΕΡΟΜΗΝΙΕΣ

Προθεσμία Λήξης Β' Περιόδου Προεγγραφών

30.11.2007

ΚΕΝΤΡΟ ΠΑΡΑΔΟΣΗΣ ΚΑΙ ΔΟΚΙΜΗΣ ΠΑΡΟΥΣΙΑΣΕΩΝ

(Speaker's Ready Room)

Κατά τη διάρκεια του συνεδρίου θα λειτουργεί κέντρο παράδοσης και δοκιμής παρουσιάσεων. Οι ομιλητές παρακαλούνται να παραδίδουν σε αυτό το χώρο το σχετικό υλικό (διαφάνειες, slides, CDs, USB-key) τουλάχιστον μία (1) ώρα πριν την έναρξη της ομιλίας τους.

Διαστάσεις διαφανειών: 5 εκ. x 5 εκ

Διαθέσιμα Οπτικοακουστικά Μέσα:

- Ηλεκτρονικός Υπολογιστής
- Data Video Projector (PowerPoint presentations)
- Overhead Projector
- Double Slides Projector
- Laser pointer



Οδηγίες προετοιμασίας παρουσίασης προφορικής ανακοίνωσης

Ο χρόνος παρουσίασης είναι 10 λεπτά συν 2 λεπτά συζήτηση. Συνιστάται η αποφυγή αλόγιστης χρήσης των αισθητικών εντυπώσεων (effects) με τα ειδικά προγράμματα για τα ηλεκτρονικά εποπτικά μέσα. Παράλληλα συνιστάται η χρήση ευκρινών γραμματοσειρών ικανοποιητικού μεγέθους έτσι ώστε να είναι δυνατόν να διαβάζονται και από τις τελευταίες θέσεις των αιθουσών. Τέλος, δυνατόν να αποφεύγεται η συσσώρευση μεγάλου αριθμού πληροφοριών σε μια σελίδα διαφάνειας με αποτέλεσμα την χρησιμοποίηση μικρής γραμματοσειράς και τη μικρή ορατότητα ακόμη και από τις πρώτες θέσεις.

Οδηγίες προετοιμασίας παρουσίασης αναρτημένης ανακοίνωσης (POSTER)

Η έκθεση των αναρτημένων ανακοινώσεων θεωρείται ένα πολύ σημαντικό μέρος του Συνεδρίου. Είναι ένας τρόπος για άμεση και αποτελεσματική επικοινωνία ανάμεσα σε όσους ενδιαφέρονται για συγκεκριμένα θέματα, έργα ή προγράμματα. Ο σωστός και προσεκτικός σχεδιασμός των posters είναι πολύ σημαντικός για την επίτευξη του στόχου αυτού.

Παρακαλούνται οι εισηγητές να ακολουθήσουν προσεκτικά τις οδηγίες για την προετοιμασία των posters τους:

- Οι αναρτημένες ανακοινώσεις πρέπει να είναι στην Αγγλική γλώσσα.
- Σε κάθε αναρτημένη ανακοίνωση θα πρέπει να αναφέρεται ο τίτλος της (προτιμότερο στην κορυφή), ο οποίος θα συνοδεύεται από το/τα όνομα/τα του /των συγγραφέα/ων.

Οι προτεινόμενες διαστάσεις για τις αναρτημένες ανακοινώσεις είναι 80 εκατοστά πλάτος και 150 εκατοστά ύψος.

Εάν είναι δυνατόν, η αναρτημένη ανακοίνωση να είναι σε ενιαίο υλικό ανάρτησης.

Οι συγγραφείς των περιλήψεων που θα παρουσιαστούν ως αναρτημένες ανακοινώσεις θα πρέπει να γνωρίζουν ότι η παρουσίασή τους θα γίνει σε συγκεκριμένο χρόνο και θέση (αρίθμηση). Οι συγκεκριμένες πληροφορίες θα περιλαμβάνονται στο Τελικό Πρόγραμμα του Συνεδρίου. Η Επιτροπή Αξιολόγησης θα περιηγηθεί στο χώρο όπου θα παρουσιάζονται οι αναρτημένες ανακοινώσεις και θα συζητήσει το περιεχόμενό τους με τους συγγραφείς τους.

KAPTEΣ ΣΥΝΕΔΡΩΝ (BADGES)

Οι κάρτες (badges) θα παραδίδονται από τη γραμματεία του συνεδρίου και είναι ΑΠΑΡΑΙΤΗΤΕΣ για την είσοδο τόσο στους συνεδριακούς χώρους όσο και στην έκθεση καθ' όλη τη διάρκεια του συνεδρίου.

ΠΙΣΤΟΠΟΙΗΤΙΚΑ ΠΑΡΑΚΟΛΟΥΘΗΣΗΣ

Τα πιστοποιητικά παρακολούθησης του συνεδρίου θα χορηγούνται από τη Γραμματεία του συνεδρίου την Κυριακή 9 Δεκεμβρίου 2007 μέχρι τη λήξη των εργασιών του συνεδρίου.

ΓΛΩΣΣΑ

Επίσημη γλώσσα του συνεδρίου είναι η Ελληνική. Οι Παρουσιάσεις και τα slide θα γίνονται δεκτά και στην Αγγλική γλώσσα.



ΣΥΜΜΕΤΟΧΗ

ΠΡΟ-ΕΓΓΡΑΦΕΣ

Οι προεγγραφές μπορούν να πραγματοποιηθούν με αποστολή του Δελτίου Εγγραφής στο e-mail ή στο φαξ του Τμήματος Εγγραφών της Εταιρείας Οργάνωσης του συνεδρίου:

AC&C Professional Congress Organiser
Πιερίας 1Α, 144 51, Μεταμόρφωση, Αττική
Τηλέφωνο: 210 6889130, Φαξ: 210 6844777
e-mail Τμήματος Εγγραφών: reg-eebmbcongress2007@acnc.gr

Οι προεγγραφές μπορούν να πραγματοποιηθούν και on-line στην ιστοσελίδα του συνεδρίου: www.eebmbcongress2007.gr

Για ομαδικές προεγγραφές εταιρειών, παρακαλούμε όπως επικοινωνήσετε με το Τμήμα Εγγραφών της εταιρείας οργάνωσης του Συνεδρίου.

ΕΓΓΡΑΦΕΣ

Εγγραφές θα πραγματοποιούνται κατά τη διάρκεια του Συνεδρίου, τις ακόλουθες ημέρες και ώρες:

Παρασκευή	07 Δεκεμβρίου 2007	08.30 – 20.30
Σάββατο	08 Δεκεμβρίου 2007	08.30 – 20.30
Κυριακή	09 Δεκεμβρίου 2007	08.30 – 16.30



ΔΙΚΑΙΩΜΑ ΕΓΓΡΑΦΗΣ

ΚΑΤΗΓΟΡΙΕΣ ΣΥΜΜΕΤΕΧΟΝΤΩΝ	Β' Περίοδος Προεγγραφών Μέχρι 30 Νοεμβρίου 2007	Εγγραφές κατά τη διάρκεια του συνεδρίου
Μη Μέλη ΕΕΒΜΒ	80 €	80 €
Μέλη ΕΕΒΜΒ (*)	50 €	50 €
Αρωγά Μέλη (*)	35 €	35 €
Προπτυχιακοί Φοιτητές (**)	25 €	25 €

Στην εγγραφή περιλαμβάνονται:

- Η παρακολούθηση του Επιστημονικού Προγράμματος
- Η είσοδος στην Έκθεση
- Η συμμετοχή στην Εναρκτήρια Τελετή και τη Δεξίωση Υποδοχής
- Το Συνεδριακό Υλικό
- Τα Διαλείμματα Καφέ καθ' όλη τη διάρκεια του Συνεδρίου

Σημειώσεις:

*Τα Μέλη της ΕΕΒΜΒ και τα Αρωγά Μέλη θα πρέπει να έχουν τακτοποιήσει τις ταμειακές τους υποχρεώσεις προς την ΕΕΒΜΒ, ώστε να ισχύσει η εγγραφή τους στις αντίστοιχες κατηγορίες. Σε αντίθετη περίπτωση, κατά την προσέλευσή τους στο συνεδριακό χώρο και πριν την παραλαβή της Κάρτας Συνέδρου και του Συνεδριακού Υλικού, θα πρέπει να απευθύνονται στη γραμματεία της ΕΕΒΜΒ, που θα λειτουργεί στο χώρο του Συνεδρίου

**Οι προπτυχιακοί φοιτητές είναι απαραίτητο να βεβαιώνουν την ιδιότητά τους, προσκομίζοντας το «πάσο» τους ή το τρίπτυχο από το πανεπιστημιακό ίδρυμα στο οποίο φοιτούν



ΤΡΟΠΟΣ ΠΛΗΡΩΜΗΣ

Καταβολή του δικαιώματος εγγραφής πραγματοποιείται μέσω πιστωτικής κάρτας (VISA, MASTERCARD, DINERS, AMEX).

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Β' περίοδος Προεγγραφών

- Ακυρώσεις γίνονται δεκτές με παρακράτηση του 30% του καταβληθέντος ποσού εγγραφής μέχρι την 30η Νοεμβρίου 2007.
- Αντικαταστάσεις ονομάτων γίνονται δεκτές με επιβάρυνση 20€ μέχρι την 30η Νοεμβρίου 2007.
- Όλες οι επιστροφές χρημάτων που τυχόν προκύψουν από ακυρώσεις θα καταβληθούν στους δικαιούχους ένα (1) μήνα μετά τη λήξη του Συνεδρίου



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		ΜΟΝΟΚΛΙΝΟ	ΔΙΚΛΙΝΟ	
ROYAL OLYMPIC (standard room)	5*	120€	135€	ΑΚΡΟΠΟΛΗ (100 Μ)
DELPHI ART	4*	90€	106€	ΟΜΟΝΟΙΑ (200 Μ)
BEST WESTERN PYTHAGORION	3*	52€ - 72€	65€ - 72 €	ΟΜΟΝΟΙΑ (100 Μ)
CRYSTAL CITY	3*	52€ - 72€	65€ - 72 €	ΜΕΤΑΞΟΥΡΓΕΙΟ (50 Μ)
DORIAN INN	3*	52€ - 72€	65€ - 72 €	ΟΜΟΝΟΙΑ (150 Μ)
AMARYLLIS	2*	35€	45€	ΟΜΟΝΟΙΑ (200 Μ)
AMARYLLIS INN	2*	35€	45€	ΟΜΟΝΟΙΑ (250 Μ)



Programme Outline

Συνοπτικό Πρόγραμμα

Friday 7 December 2007

08:30-20:30	Registration
09:00-11:00	Session 1: Structural Biology and Biotechnology
11:00-11:30	Coffee Break
11:30-13:15	Session 2: Cancer
11:30-12:00	Invited Lecture 1: V. Gorgoulis, Medical School, University of Athens
13:30-15:00	Poster Session 1 (PP001-PP068)
15:00-16:30	Session 3: Development and Stem Cells 1
15:00-15:30	Invited Lecture 2: M. Averof, Institute of Molecular Biology and Biotechnology
16:30-17:00	Coffee Break
17:00-18:30	Session 4: Development and Stem Cells 2
19:00-19:15	Conference Opening Ceremony
19:15-20:00	Keynote Lecture 1: V. Pachnis, National Institute of Medical Research (NIMR), Medical Research Council, London, UK
20:00-21:00	Keynote Lecture 2: Sir Alan Fersht, Cambridge University; Medical Research Council Centre for Protein Engineering, Cambridge, UK
21:00	Reception

Saturday 8 December 2007

08:30-20:30	Registration
09:00-11:00	Session 5: Signaling
11:00-11:30	Coffee Break
11:30-12:30	Session 6: Novel Macromolecules, Mapping of Functions
12:30-14:30	Presentation by Company Lab Supplies/Satellite Symposium: Multiplex Bioassays and Immunoassays
13:00-14:30	Poster Session 2 (PP069-PP135)
15:00-17:00	HSBMB General Assembly
17:00-17:30	Coffee Break
17:30-19:30	HSBMB Elections
17:30-18:50	Session 7: Chromatin
17:30-18:00	Invited Lecture 3: T. Giannakouros, Aristotle University of Thessaloniki
19:15-20:00	Keynote Lecture 3: A. Moustakas, Ludwig Institute for Cancer Research, Uppsala, Sweden
20:00-21:00	Keynote Lecture 4: J. Hoeijmakers, Erasmus University, Rotterdam, The Netherlands

Sunday 9 December 2007

08:30-16:30	Registration
09:00-11:00	Session 8: Molecular Basis of Diseases
11:00-11:30	Coffee Break
11:30-13:30	Session 9: Immune System – Cell Cycle – Cellular Senescence
11:30-12:00	Invited Lecture 4: V. Panoutsakopoulou, Biomedical Research Foundation of the Academy of Athens (BRFAA)
13:30-15:00	Poster Session 3 (PP136-PP205)
15:00-16:30	Session 10: Transcription
15:00-15:30	Invited Lecture 5: A. Hatzigeorgiou, Biomedical Sciences Research Center, BSRC Al. Fleming
16:30-17:00	Awards and Prizes
17:00-17:30	Closing Remarks by the Chairmen of the HSBMB and the Organizing Committee

December 7-9, 2007

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59th

National Conference of
*Biochemistry and
Molecular Biology*



59^o

Πανελλήνιο Συνέδριο
*Βιοχημείας και
Μοριακής Βιολογίας*

SCIENTIFIC PROGRAMME

ΕΠΙΣΤΗΜΟΝΙΚΟ ΠΡΟΓΡΑΜΜΑ



Friday 7 December 2007

08:30-20:30 Registration

09:00-11:00 Session 1: Structural Biology and Biotechnology

Chairmen: K. Drinas, University of Ioannina and F. Kolisis, National Hellenic Research Foundation

Oral Presentations

OP01. QUANTIFICATION OF PEPTIDES AND PROTEINS IN BIOLOGICAL FLUIDS BY LC-MS/MS; THE CASE OF GLUCOSE-DEPENDENT INSULINOTROPIC POLYPEPTIDE GIP1-42 AND GIP3-42

Alexandros P. Siskos, Constantin Tamvakopoulos

Biomedical Research Foundation, Academy of Athens, Division of Pharmacology and Pharmacotechnology

OP02. THERMODYNAMIC STABILITY OF THE BRCT DOMAIN OF HUMAN BRCA1

A. Thanassoulas¹, G. Nikolopoulos¹, I. Drikos², D. Yannoukakos¹, C.E. Vorgias², G. Nounesis¹

1. National Center for Scientific Research "Demokritos", Athens, Greece

2. Department of Biochemistry and Molecular Biology, Faculty of Biology, National and Kapodistrian University of Athens, Greece

OP03. STRUCTURAL INSIGHT INTO EIF3 RECRUITMENT TO THE 40S SUBUNIT: MOLECULAR RECOGNITION OF EIF3J BY EIF3B-RRM DOMAIN

Andreas G. Tzakos, Latifa Elantak, Nicolas Locker, Peter Lukavsky

Laboratory of Molecular Biology, Medical Research Council

OP04. SIMULATING THE CATALYSIS OF CYSTEINE PROTEINASES BY CYSTEAMINE

Leonidas G. Theodorou, **Emmanuel M. Papamichael**

University of Ioannina, Department of Chemistry Sector of Organic Chemistry & Biochemistry

OP05. BIOCHEMICAL CHARACTERIZATION AND MOLECULAR MODELING OF DRPP29, A KEY PROTEIN SUBUNIT OF D. DISCOIDEUM RNASE P

Vassiliki Stamatopoulou¹, Anastassios Vourekas¹, Olga Theodorakopoulou¹, Chrisavgi Toumpeki¹, Marianthi Tsitilaidou¹, Andreas Tzakos², Denis Drinas¹

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

2. Laboratory of Molecular Biology, Medical Research Council, Cambridge, UK

OP06. IRON REGULATORY AND BACTERICIDAL PROPERTIES OF HUMAN RECOMBINANT HEPCIDIN EXPRESSED IN PICHIA PASTORIS

Vasiliki Koliaraki¹, Martha Marinou¹, Kostas Pantopoulos², Avgi Mamalaki¹

1. Hellenic Pasteur Institute, Department of Biochemistry, Laboratory of Molecular Biology and Immunobiotechnology

2. Lady Davis Institute for Medical Research and Department of Medicine, McGill University

OP07. MOLECULAR ANALYSIS OF THE GENE ENCODING A NEW CHITINASE FROM THE MARINE PSYCHROPHILIC BACTERIUM MORITELLA MARINA AND BIOCHEMICAL CHARACTERIZATION OF THE RECOMBINANT ENZYME

Eleni Stefanidi, Constantinos E. Vorgias

Department of Biochemistry and Molecular Biology, Faculty of Biology, National and Kapodistrian University of Athens



OP08. CELL -BASED HIGH THROUGHPUT SCREENING PLATFORMS FOR IDENTIFICATION OF ODORANT MIMETICS FOR THE MALARIA MOSQUITO VECTOR, ANOPHELES GAMBIAE

Evi Andronopoulou¹, Daniela Tsikou¹, Georgia Kotzia¹, Vassiliki Laspi¹, Rodica Efroze¹, Vassiliki Labropoulou¹, Luc Swevers¹, Zafiroula Georgoussi², **Kostas Iatrou**¹

1. Insect Molecular Genetics and Biotechnology, Institute of Biology, National Centre for Scientific Research "Demokritos", Aghia Paraskevi, Athens, Greece

2. Signal Transduction Mechanisms and Molecular Pharmacology, Institute of Biology, National Centre for Scientific Research "Demokritos", Aghia Paraskevi, Athens, Greece

OP09. SINGLE-MOLECULE DNA BIOSENSORS FOR TRANSCRIPTION-FACTOR DETECTION

Konstantinos Lympelopoulou, Mike Heilemann, Achillefs Kapanidis

Clarendon Laboratory, IRC in Bionanotechnology and Department of Physics, Oxford University

OP10. IN SILICO MODEL OF LIPID BIOSYNTHESIS IN RAPESEED EMBRYOS

Eleftherios Pilalis¹, Abdelghani Idrissi², Aristotelis Chatziioannou¹, Brigitte Thomasset², Fragiskos Kolis¹

1. Metabolic Engineering and Bioinformatics Group, Institute of Biological, Research and Biotechnology, National Hellenic Research Foundation, Athens, Greece

2. Genie Enzymatique et Cellulaire, UMR CNRS 6022, Universite de Technologie de Compiègne, Compiègne, France

11:00-11:30

Coffee Break

11:30-13:15

Session 2: Cancer

Chairmen:

T. Fotsis, University of Ioannina and K. Vorgias, National & Kapodistrian University of Athens

11:30-12:00

Invited Lecture 1: "The role of the replication licensing factors hcdc6 and hcdt1 in carcinogenesis", V. Gorgoulis, Medical School, University of Athens

12:00-13:15

Oral Presentations

OP38. IONIZING RADIATION PROVOKES PREMATURE SENESCENCE IN HUMAN LUNG FIBROBLASTS THAT ENHANCE THE GROWTH OF MALIGNANT LUNG EPITHELIAL CELLS IN VITRO AND IN VIVO.

Adamadia Papadopoulou, Dimitris Kletsas

Laboratory of Cell Proliferation & Ageing, Institute of Biology, National Centre for Scientific Research "Demokritos"

OP39. PROLIFERATION OF EPITHELIAL COLON CANCER CELLS AND STROMAL FIBROBLAST-INDUCED GROWTH AND ACTIVATION OF PROMMP-2 ARE EFFECTIVELY INHIBITED BY IMATINIB

Xanthi N. Stahtea¹, Andreas E. Roussidis¹, Ioannis Kanakis¹, George N. Tzanakakis², George Chalkiadakis³, Dimitris Mavroudis⁴, Dimitris Kletsas⁵, Nikos K. Karamanos¹

1. Laboratory of Biochemistry, Department of Chemistry, University of Patras

2. School of Medicine, Department of Histology, University of Crete

3. Department of Surgery, University Hospital of Heraklion

4. Department of Medical Oncology, University Hospital of Heraklion

5. Institute of Biology, Laboratory of Cell Proliferation and Ageing, National Centre for Scientific Research "Demokritos"

OP40. ESTRADIOL AS A KEY FACTOR AFFECTING THE SYNTHESIS OF MATRIX PROTEOGLYCANS IMPLICATED IN BREAST CANCER

Olga Ch. Kousidou¹, Dimitris Kletsas², Nikos K. Karamanos¹

1. Laboratory of Biochemistry, Department of Chemistry, University of Patras

2. Laboratory of Cell Proliferation and Aging, Institute of Biology, N.C.S.R. "Demokritos"

OP41. THE ANTI-APOPTOTIC ROLE OF PROTHYMOSIN A IN CANCER CELLS TREATED WITH CHEMOTHERAPEUTIC DRUGS

Anastasia Emmanouilidou¹, Zoe Karetsoy¹, Thomais Papamaraki^{1,2}

1. Laboratory of Biological Chemistry, Medical School, University of Ioannina

2. Foundation for Research and Technology-Hellas/Biomedical Research Institute, Ioannina



OP42. MIR-210 IS A REGULATOR OF GENE EXPRESSION UNDER HYPOXIA AND IS DELETED IN HUMAN EPITHELIAL OVARIAN CANCER

Antonis Giannakakis^{1,4}, Raphael Sandaltzopoulos⁴, Alexis Galanis⁴, George Coukos^{1,2,3}, Lin Zhang^{1,2}

1. Center for Research on Early Detection and Cure of Ovarian Cancer, Philadelphia, USA
2. Department of Obstetrics and Gynecology, Philadelphia, USA
3. Abramson Family Cancer Research Institute University of Pennsylvania School of Medicine, Philadelphia, USA
4. Laboratory of Gene Expression, Molecular Diagnostics and Modern Therapeutics, Department, Molecular Biology and Genetics, Democritus University of Thrace, Alexandroupolis, Greece

OP43. TAF12 (TBP ASSOCIATED FACTOR 12) SPECIFICALLY REGULATES RAS MEDIATED EXPRESSION OF E-CADHERIN IN CANCER CELL MIGRATION AND EPITHELIAL-TO-MESENCHYMAL TRANSITION (EMT) (1).

Angeliki Voulgari¹, Stella Voskou¹, Lazlo Tora², Irwin Davidson², Margarita Kalogeropoulou¹, Alexander Pintzas¹

1. National Hellenic Research Foundation, Institute of Biological Research and Biotechnology
2. Institut de Genetique et de Biologie Moleculaire et Cellulaire

13:30-15:00 Poster Session 1 (PP001-PP068)

• **Medical Biochemistry (PP001-PP007)**

PP001. A STUDY CONCERNING THE SENSITIVITY AND SELECTIVITY OF FREE/TOTAL PSA RATIO EVALUATION METHOD AT A BIOPATHOLOGICAL LABORATORY

Stefanos Patiakas

General Hospital of Goumenisa

PP002. LABORATORY BIOCHEMICAL TESTS RESEARCH IN ALCOHOLIC PATIENTS

Stefanos Patiakas^{1,2}

1. General Hospital of Goumenisa
2. Psychiatric Hospital of Thessaloniki

PP003. STUDY OF THE CHOLESTEROL AND TRIGLYCERIDE LEVEL CHANGES DURING PREGNANCY

Stefanos Patiakas^{1,2}, Kiriaki Akritopoulou¹, Sotiria Iliopoulou², Evangelia Sourla¹, Xaralambos Xaralambous¹, Bassiliki Tioli¹, Dimitris Kifonidis³, Illarion Dovlatidis²

1. General Hospital of Goumenisa
2. General Hospital of Karpenisi
3. General Hospital of Ptolemaida

PP004. MOLECULAR CLONING AND BIOCHEMICAL CHARACTERIZATION OF VIM-12, A NOVEL HYBRID VIM1/VIM2 METALLO-B-LACTAMASE FROM A KLEBSIELLA PNEUMONIAE CLINICAL ISOLATE, REVEALS ATYPICAL SUBSTRATE SPECIFICITY

Maria Kontou^{1,3}, Spyros Pournaras², Ioulia Kristo^{1,2}, Alexandros Ikonomidis², Antonios Maniatis², Constantinos Stathopoulos^{1,3}

1. Department of Biochemistry & Biotechnology, University of Thessaly, Larissa, Greece
2. Department of Microbiology, School of Medicine, University of Thessaly
3. Institute of Biomedical Research & Technology (BIOMED), Larissa, Greece

PP005. THE HUMAN KALLIKREIN-RELATED PEPTIDASE 6 AND 10 GENES AND THEIR CLINICAL SIGNIFICANCE IN COLORECTAL CANCER

Dimitra K. Alexopoulou¹, Andreas Scorilas², Maroulio Talieri¹

1. Department of Cellular Physiology, "G. Papanicolaou" Research Center of Oncology, "Saint Savvas" Hospital, Athens, Greece
2. Department of Biochemistry and Molecular Biology, Faculty of Biology, University of Athens, Greece

PP006. CLINICAL SIGNIFICANCE OF PROTEIN ARGININE METHYLTRANSFERASE 1 (PRMT1) ISOFORM EXPRESSION IN COLON CANCER

Konstantina Mathioudaki¹, Andreas Scorilas², Maroulio Talieri¹

1. "G. Papanicolaou" Research Center of Oncology, "Saint Savvas" Hospital, Athens, Greece
2. Department of Biochemistry and Molecular Biology, School of Biology, University of Athens, Greece



PP007. MULTIPLE TISSUE KALLIKREIN-RELATED PEPTIDASES IN COLORECTAL CANCER

Dimitra K. Alexopoulou¹, Yingye Zheng², Lin Li², Eleftherios P. Diamandis³, Antonainus Soosaipillai³, Maroulio Talieri¹

1. Department of Cellular Physiology, "G. Papanicolaou" Research Center of Oncology, "Saint Savvas" Hospital, Athens, Greece
2. Department of Biostatistics & Biomathematics, Fred Hutchinson Cancer Research Center, Seattle, USA
3. Department of Pathology and Laboratory Medicine, Mount Sinai Hospital and University of Toronto, Canada

• **Functional Genomics and Proteomics (PP008-PP024)**

PP008. IDENTIFICATION OF A PSEUDOGENE THAT ENCODES A GENUINE SUBSTRATE FOR STAPHYLOCOCCUS AUREUS GLYCYL-TRNA SYNTHETASE

Stamatina Giannouli^{1,3}, Athanasios Kyritsis^{1,3}, Daniel Kern², Hubert Becker², Constantinos Stathopoulos^{1,3}

1. University of Thessaly, Department of Biochemistry & Biotechnology, Larissa, Greece
2. IBMC-CNRS, Strasbourg, France
3. Institute for Biomedical Research and Technology (BIOMED), Larissa, Greece

PP009. NEURALIZED-LIKE 1 IS TARGETED TO THE PLASMA MEMBRANE BY N-MYRISTOYLATION AND REGULATES THE NOTCH LIGAND JAGGED 1

Evangelia Koutelou^{1,2}, Shigeo Sato², Chieri Tomomori-Sato², Laurence Florens², Selene Swanson², Michael Washburn², Maria Kokkinaki^{1,4}, Ronald Conaway^{2,3}, Joan Conaway^{2,3}, **Nicholas Moschonas**^{1,5}

1. Department of Biology, University of Crete
2. Stowers Institute for Medical Research
3. Department of Biochemistry & Molecular Biology, Kansas University Medical Center
4. Present Address: Department of Biochemistry & Cell Biology, Georgetown University
5. School of Medicine, Laboratory of Biology, University of Patras, University Campus

PP010. A SYSTEMS BIOLOGY APPROACH TARGETING NEUROLOGICAL DISEASE- FROM GENOMICS TO IN SILICO PREDICTIVE MODELS

E. Vafiadaki¹, A. Depaulis², P. Jackers³, D. Arvanitis¹, O. Kel-Margoulis⁴, E. Wingender⁴, T. Vujasinovic⁵, D. Greenberg⁶, H. Soreq⁶, E. DePauw³, J.B. Dumas⁵, Milne Edwards⁵, **D. Sanoudou**¹

1. Molecular Biology Division, Biomedical Research Foundation of the Academy of Athens
2. Institut National de la Sante et de la Recherche Medicale
3. University of Liege
4. Biobase, GmbH
5. Helios
6. Hebrew University of Jerusalem

PP011. ILLUMINA OLIGONUCLEOTIDE MICROARRAY ANALYSIS OF BRAF AND RAS TARGET GENES

Tobias Joyce, Eftychia Oikonomou, Eleni Makrodouli, Alexander Pintzas

Lab Signal Mediated Gene Expression, Institute of Biological Research & Biotechnology, National Hellenic Research Foundation

PP012. PROTEOMIC ANALYSIS OF A HUMAN COLORECTAL ADENOCARCINOMA CELL LINE TRANSFORMED BY KIRSTEN AND HARVEY RAS

Georgia Ikonou¹, Martina Samiotaki¹, Alexander Pintzas², George Panayotou¹

1. Institute of Molecular Oncology, B.S.R.C. "A.Fleming"
2. Institute of Biological Research & Biotechnology, National Hellenic Research Foundation

PP013. GENE EXPRESSION PROFILING OF DENDRITIC CELLS UPON IN VIVO EXPOSURE TO RECOMBINANT VIRAL VACCINE VECTORS AND VIRUS LIKE PARTICLES (VLPs)

Shirin Khalili¹, Devrim Oz-Arslan¹, **Dorothea Kazazi**¹, Tomi Ivacevic², Eliza Tsitoura¹, Florian Kreppel³, Stefan Kochanek³, Gary Jennings⁴, Bernard Bellier⁵, Thomas Brocker⁶, Vladimir Benes², David Klatzmann⁵, Penelope Mavromara¹

1. Molecular Virology Laboratory, Hellenic Pasteur Institute, Athens, Greece
2. Genomics Core Facility, EMBL, Heidelberg, Germany
3. Division of Gene Therapy, University of Ulm, Ulm, Germany
4. Cytos Biotechnology AG, Zurich-Schlieren, Switzerland
5. Biologie et Therapeutique des Pathologies Immunitaires, CNRS, University Pierre et Marie Curie-Paris, Paris, France
6. Institute for Immunology, University of Munich-University, Munich, Germany



PP014. THE GLOBAL ROLE OF HISTONE VARIANT MACROH2A IN THE REGULATION OF GENE EXPRESSION

Giannis Vatsellas, Mathieu Lavigne, Alexandros Polyzos, Dimitris Thanos
Center of Basic Research, Biomedical Research Foundation Academy of Athens, Greece

PP015. FUNCTIONAL GENOMIC APPROACHES TO UNCOVER NOVEL ESSENTIAL GENES FOR MUSCLE DEVELOPMENT AND MAINTENANCE IN DROSOPHILA

Maria Mouratidou¹, Chara Falkou^{1,2}, Katerina Vakaloglou¹, Yiannis Vassiliou^{1,2}, Sofia Kossida², Christos G. Zervas¹

1. Biomedical Research Institute, Academy of Athens, Division of Genetics
2. Biomedical Research Institute, Academy of Athens, Division of Biotechnology

PP016. DEVELOPMENT, CHROMOSOMAL AND PROTEOMIC CHARACTERIZATION OF A T24 BASED CELL LINE MODEL FOR BLADDER CANCER AGGRESSIVENESS

Manousos Makridakis¹, Andreas Petrolekas², Sarantis Gagos³, Konstantinos Stravodimos², Kitty Pavlakis², Jonathan Coleman⁴, Antonia Vlahou¹

1. Biotechnology Division, Biomedical Research Foundation, Academy of Athens, Greece
2. Department of Urology, Laikon Hospital, Medical School of Athens, Greece
3. Genetics Division, Biomedical Research Foundation, Academy of Athens, Greece
4. Department of Surgery, Memorial Sloan Kettering Cancer Center, NY, USA

PP017. A REAL-TIME RT-PCR BASED PLATFORM FOR GENE EXPRESSION STUDIES DURING SYMBIOTIC NITROGEN FIXATION IN LOTUS JAPONICUS

Daniela Tsikou¹, Thomas Ott², Panagiotis Krompas¹, Michael Udvardi³, Panagiotis Katinakis¹, Emmanouil Fliemetakis¹

1. Agricultural University of Athens, Department of Agricultural Biotechnology
2. INRA-CNRS Castanet Tolosan, Laboratoire des Interactions Plantes Micro-Organism (LIPM)
3. Samuel Roberts Noble Foundation, Plant Biology Division

PP018. TRANSCRIPT PROFILING OF GENES INVOLVED IN FLAVONOID AND PHENYLPROPANOID METABOLISM IN THE LEAVES OF THE MODEL LEGUME LOTUS JAPONICUS

Kostas Delis, Emmanouil Fliemetakis, Georgos Karabourniotis, Panagiotis Katinakis
Agricultural University of Athens, Department of Agricultural Biotechnology

PP019. MOLECULAR AND BIOCHEMICAL CHARACTERIZATION OF CARBONIC ANHYDRASES IN CAENORHABDITIS ELEGANS

Michael K. Fasseas, Daniela Tsikou, Emmanouil Fliemetakis, Panagiotis Katinakis
Agricultural University of Athens, Department of Agricultural Biotechnology

PP020. MAMMALIAN BM88 IS FUNCTIONAL IN DROSOPHILA DURING EMBRYONIC NEUROGENESIS AND INTERFERES WITH CELL CYCLE PROGRESSION OF THE NEURONAL PRECURSOR CELLS

Athanasios Tzortzopoulos¹, Dimitra Thomaidou², Rebecca Matsas², Efthimios Skoulakis¹

1. Institute of Molecular Biology and Genetics, BSRC "Alexander Fleming"
2. Laboratory of Cellular and Molecular Neurobiology, Hellenic Pasteur Institute

PP021. CONTRIBUTION TO TETRAHYMENA THERMOPHILA'S PROTEOMIC ANALYSIS

Alexandra G. Xanthopoulou^{1,2}, Kostantinos Vougas¹, Athanassia Sifaka-Kapadai², George T. Tsangaris¹

1. Proteomics Research Unit, Biomedical Research Foundation, Academy of Athens
2. Faculty of Chemistry, National and Kapodistrian University of Athens

PP022. INTERKINGDOM CONSERVATION OF 14-3-3 FUNCTION

Flora Leptourgidou¹, Marco Lalle², Serena Camerini³, Efthimios M. C. Skoulakis¹

1. Institute of Molecular Biology and Genetics, Biomedical Sciences Research Centre "Alexander Fleming", Greece
2. Department of Infectious, Parasitic and Immunomediated Diseases, Istituto Superiore di Sanita, Rome, Italy
3. Department of Environment and Primary Prevention, Istituto Superiore di Sanita, Rome, Italy

PP023. SACCHAROMYCES CEREVISIAE PROTEIN PROFILE AND CONDITIONS OF FERMENTATION: A PROTEOMIC APPROACH EMPLOYING AN INDIGENOUS STRAIN OF S. CEREVISIAE FROM ZITSA, EPIRUS

Maria Parapouli¹, Leonidas Fragkos-Livanios², Martina Samiotaki², Anna-Irini Koukkou¹, Angelos Perisynakis¹, Efstathios Hatziloukas³, George Panagiotou², Constantin Drainas¹

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PP024. DO 14-3-3 MONOMERS EXIST AND FUNCTION IN VIVO?

Georgia Messaritou, Efthimios Skoulakis

Institute of Molecular Biology and Genetics, Biomedical Sciences Research Center "Alexander Fleming"

• **Molecular Basis of Disease (PP025-PP068)**

PP025. BOTH SUB-PATHWAYS OF NUCLEOTIDE EXCISION REPAIR MECHANISM REMOVE MELPHALAN-INDUCED DNA DAMAGE IN A GENE-SPECIFIC WAY

Hara G. Episkopou¹, Maria J. Fousteri², Leon HF. Mullenders², Petros P. Sfikakis³, Meletios A. Dimopoulos⁴, Soterios A. Kyrtopoulos¹, Vassilis L. Souliotis¹

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4. Department of Clinical Therapeutics, University of Athens School of Medicine

PP026. HAX-1 INTERACTS WITH PHOSPHOLAMBAN AND REPRESENTS A NOVEL REGULATOR OF CALCIUM HOMEOSTASIS AND CELL SURVIVAL IN CARDIAC MUSCLE

Elizabeth Vafiadaki¹, Despina Sanoudou¹, Demetrios A. Arvanitis¹, Dawn H. Catino², Evangelia G. Kranias^{1,3}, Aikaterini Kontrogianni-Konstantopoulos²

1. Molecular Biology Division, Biomedical Research Foundation of the Academy of Athens
2. University of Maryland, Baltimore, School of Medicine, Department of Biochemistry and Molecular Biology
3. University of Cincinnati, College of Medicine, Department of Pharmacology and Cell Biophysics

PP027. MYBP-C3, A NOVEL INTERACTING PARTNER OF CSR3

Vasiliki Papalouka¹, Elizabeth Vafiadaki¹, Demetrios A. Arvanitis¹, Maria Oikonomaki¹, Aikaterini Kontrogianni-Konstantopoulos², Evangelia G. Kranias^{1,3}, Despina Sanoudou¹

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3. Department of Pharmacology and Cell Biophysics, College of Medicine, University of Cincinnati

PP028. GLOBAL GENE EXPRESSION ANALYSIS OF THE "HUMANIZED" PLN MOUSE MODEL REVEALS SIGNIFICANT CARDIAC ELECTROPHYSIOLOGICAL ALTERATIONS

Demetrios A. Arvanitis¹, Wen Zhao², Vasiliki Papalouka¹, Elizabeth Vafiadaki¹, Kobra Haghighi², Evangelia G. Kranias^{1,2}, Despina Sanoudou¹

1. Molecular Biology Division, Biomedical Research Foundation of the Academy of Athens
2. Department of Pharmacology and Cell Biophysics, College of Medicine, University of Cincinnati

PP029. CROSSTALK OF EPITHELIAL AND DENDRITIC CELLS IN A CO-CULTURE TRANSWELL MODEL AFTER STIMULATION BY BACTERIA

Georgia Zoumpopoulou¹, Benoit Foligne², Effie Tsakalidou¹, Bruno Pot², Corinne Grangette²

1. Agricultural University of Athens, Department of Food Science and Technology, Laboratory of Dairy Research
2. Institut Pasteur de Lille, Institut de Biologie de Lille, Bacteries Lactiques et Immunité des Muqueuses

PP030. SEARCHING FOR CARDIAC MYOSIN BINDING PROTEIN C SEQUENCE VARIATIONS IN DILATED CARDIOMYOPATHY PATIENTS

Zoi Galata¹, Vasiliki Papalouka¹, Maria Oikonomaki¹, Demetrios A. Arvanitis¹, Fotis Kolokathis², Dimitris Kremastinos², Evangelia G. Kranias^{1,3}, Despina Sanoudou¹

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PP031. ANALYZING PROTEIN-PROTEIN INTERACTIONS OF THE BRCA1-BRCT DOMAIN AND ITS CANCER-ASSOCIATED MUTANTS

Michail Nomikos¹, Maria Theodoridou¹, Koulis Yannoukakos², Dimitrios Mastellos¹

1. Protein Interactions Laboratory, RRP Institute, National Center for Scientific Research 'Demokritos', Aghia Paraskevi Attikis
2. Molecular Diagnostics Laboratory, RRP Institute, National Center for Scientific Research 'Demokritos', Aghia Paraskevi Attikis

PP032. ESTROGEN RECEPTOR BETA STATUS OF HUMAN PROSTATE NEOPLASIA

Paraskevi Oikonomou^{1,2}, Constantina Petraki³, Kypros Dimosthenous³, Michael N. Alexis¹

1. Molecular Endocrinology Programme, Institute of Biological Research and Biotechnology, National Hellenic Research Foundation, Athens, Greece
2. University of Padua, Italy
3. Pathology Department, Evangelismos Hospital, Athens, Greece

PP033. ROLE OF INTEGRIN-LINKED KINASE (ILK) IN ANIMAL MODELS OF PULMONARY FIBROSIS

Panagiotis Kavvadas, Katerina P. Kypreou, Evdokia Protopapadakis, Irene Apostolou, Charoula Xirakia, Paschalis Sideras, Niki Prakoura, Anna Agapaki, Aristidis S. Charonis

Section of Histology, Center for Basic Research and Center for Immunology and Transplantation, Foundation for Biomedical Research of the Academy of Athens

PP034. CORTICOTROPIN RELEASING FACTOR (CRF) AFFECTS BREAST CANCER CELL PROLIFERATION, APOPTOSIS AND INVASIVENESS

Efi Karagianni^{1,4}, Ariadne Androulidaki¹, Erini Dermitzaki¹, Maria Venihaki¹, Olga Rassouli¹, Maria Spiliotaki¹, Vassiliki Zacharioudaki^{1,4}, Christos Stournaras³, Achille Gravanis², Christos Tsatsanis¹, Andrew N. Margioris¹

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2. Department of Pharmacology, School of Medicine, University of Crete
3. Department of Biochemistry, School of Medicine, University of Crete
4. Graduate Program in Molecular Basis of Human Disease, School of Medicine, University of Crete

PP035. DESMIN IS A TARGET AND MEDIATOR OF AGGREGATE FORMATION AND INTERCALATED DISC REORGANIZATION IN TNF- α INDUCED CARDIOMYOPATHY

Panagiota Panagopoulou¹, Douglas L. Mann², Yassemi Capetanaki¹

1. Biomedical Research Foundation, Academy of Athens, Center of Basic Research, Cell Biology Division, Athens
2. Baylor College of Medicine, Winters Center for Heart Failure Research, Houston

PP036. DEREGULATED EXPRESSION OF HNRNP AND/OR MRNA BINDING PROTEINS IN LUNG CANCER

Christina Papadopoulou, Georgios Boukakis, Meropi Patrino-Georgoula, Apostolia Guialis

Institute of Biological Research and Biotechnology, National Hellenic Research Foundation, Athens, Greece

PP037. EXPRESSION OF ERBB AND HORMONE RECEPTORS IN BREAST CANCER

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1. Bioinformatics Unit, Centre of Biotechnology of Sfax, Tunisia
2. CHU Habib Bourguiba, Tunisia

PP038. ECTOPIC EXPRESSION OF ACTIVIN-A IN THE ADULT MURINE LUNG INDUCES SEVERE PULMONARY INFLAMMATION AND INTERSTITIAL FIBROSIS

Charoula Xirakia¹, Eirini Apostolou¹, Athanassios Stavropoulos¹, Stavros Giaglis¹, Alexandros Soundoulidis¹, Evlabia Aza¹, Konstantinos Pashidis¹, Ariana Gavriil¹, Georgios Tzelepis², Evangelos Andreakos¹, Evdokia Protopapadakis¹, Paschalis Sideras¹

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2. Department of Pathophysiology, Athens Medical School

PP039. PRODUCTION AND CHARACTERIZATION OF ANTIBODIES TO ESTROGEN RECEPTOR SUBTYPES AND ISOFORMS EFFECTIVE FOR USE ON ROUTINELY-PROCESSED HUMAN TISSUES

Niki I. Chantzi^{1,2}, Aggeliki K. Meligova¹, Eugenios Dimolea¹, Anastasia Pechteliidou¹, Inta Florentin¹, Dimitra J. Mitsiou¹, Helena Karaioffidi³, Christos Kittas², Dina G. Tiniakos², Michael N. Alexis¹

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3. Histopathology Department "Helena Venizelou" General and Maternity District Hospital, Athens, Greece

PP040. TIMP-1 CONTRIBUTES TO RESISTANCE FROM TNF-A-INDUCED APOPTOSIS OF MG63 CELLS

Ioanna Tsagaraki, Effie Tsilibary, Dimitris Kletsas, Athina Tzinia
Institute of Biology, National Center for Scientific Research "Demokritos

PP041. INTERSTITIAL TELOMERES IN CONTINUOUS IN VITRO GROWTH

Christina Raftopoulou¹, Agni Christodoulidou¹, Maria Chiourea¹, **Sarantis Gagos**¹
1. Laboratory of Genetics, Foundation for Biomedical Research of The Academy of Athens

PP042. MECHANICAL STRETCHING INDUCES LYSO-PHOSPHATIDYLCHOLINE ACYLTRANSFERASE (LPCAT) ACTIVITY THAT MEDIATES DIPALMITOYL PHOSPHATIDYLCHOLINE FORMATION IN ALVEOLAR TYPE II CELLS

Despoina Pantazi¹, Eirini Kitsioli², George Nakos³, Marilena E. Lekka¹
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2. University of Ioannina, Department of Biological Applications and Technologies
3. University of Ioannina, Medical School

PP043. HUMAN PERIPHERAL LEUKOCYTES EXPRESS ENZYMATICALLY ACTIVE L-DOPA DECARBOXYLASE

Ioanna Kokkinou, Emmanuel G. Fragoulis, Dido Vassilacopoulou
Department of Biochemistry & Molecular Biology, Faculty of Biology, National and Kapodistrian University of Athens

PP044. PRKAR1A GENE ALTERATIONS, BRAF MUTATIONS AND MICROSATELLITE INSTABILITY (MSI) IN BASAL CELL CARCINOMA (BCC)

Thaleia A Bei², Angeliki Stamatelli¹, Angelica Saetta¹, Sotirios Stergiopoulos², Sosipatros Boikos², Efstratios Patsouris¹, Kiriaki Aroni¹, Constantine A. Stratakis²
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2. Section on Endocrinology & Genetics, DEB, National Institutes of Child Health and Human Development, NIH, Bethesda, USA

PP045. ANNEXIN V INTERACTION WITH HUMAN L-DOPA DECARBOXYLASE

Ioanna Chalatsa, Alice-Georgia Vassiliou, Emmanuel G. Fragoulis, Dido Vassilacopoulou
Department of Biochemistry & Molecular Biology, Faculty of Biology, National and Kapodistrian University of Athens

PP046. MUTATIONAL ANALYSIS IN FAMILIAL ADENOMATOUS POLYPOSIS (FAP) SYNDROME

Florentia Fostira^{1,2}, Georgia Thodi^{1,2}, Raphael Sandaltzopoulos², Giorgos Nasioulas³, Drakoulis Yannoukakos¹
1. N.C.S.R "Demokritos", Institute R-RP
2. Demokritos University of Thrace, Department of Molecular Biology and Genetics
3. "Hygeia" Hospital

PP047. EFFECT OF SYNTHETIC PEPTIDES THAT CORRESPOND TO DIFFERENT REGIONS OF PTN ON THE IN VITRO GROWTH OF DIFFERENT GLIOMA CELL LINES

Evanthia Sfaelou¹, Constantinos Mikelis¹, Aikaterini Zompra², Paul Cordopatis², Evangelia Papadimitriou¹
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2. Laboratory of Pharmacognosy and Chemistry of Natural Products, Department of Pharmacy, University of Patras, Greece

PP048. EXPRESSION OF DNA-METHYLTRANSFERASES IN LUNG CARCINOMA SPECIMENS

Panagiota Touplikioti¹, George Tzimagiorgis², Sofia Kouidou², **Costas Haitoglou**²
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2. Medical School, Aristotle University of Thessaloniki

PP049. ALTERNATIVE SPLICE SITES AND GENETIC INSTABILITY IN P53

Georgios Tzimagiorgis¹, Andigoni Malousi¹, Elisavet Georgiou¹, Aikaterini Fragou¹, Nikos Barbetakis², Christos Tsilikas², Nicos Maglaveras¹, **Sofia Kouidou**¹
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2. Theagenion Anticancer Hospital



PP050. CHARACTERIZATION OF MLH1 AND MSH2 MUTATIONS IN GREEK FAMILIES WITH HEREDITARY COLORECTAL CANCER

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3. Department of Molecular Biology, Hospital "Hygeia"

PP051. EFFECTS OF SECRETED -SYNUCLEIN SPECIES ON NEURONAL CELL VIABILITY

Evaggelia Emmanouilidou, Kalliopi Nikolaou, Leonidas Stefanis, Kostas Vekrellis

Division of Basic Neurosciences, Biomedical Research Foundation of the Academy of Athens

PP052. EVALUATION AND USE OF NOVEL LIVER SPECIFIC GENE PROMOTERS FOR PRECISE TARGETING OF HSV-1 ONCOLYTIC VIRUSES AGAINST HEPATOCELLULAR CARCINOMA

Pelagia N. Foka¹, Polyxeni P. Doumba^{2,3}, Vlassis Kouvatsis¹, Dorothea Kazazi¹, Alberto Epstein³, Marilena Nikolopoulou², Manousos Konstadoulakis², Ioannis Koskinas³, Penelope Mavromara¹

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2. Laboratory of Surgical Research, Medical School of Athens, Hippokration Hospital
3. B Department of Internal Medicine, Medical School of Athens, Hippokration Hospital
4. Centre de Genetique Moleculaire et Cellulaire, Universite Claude Bernard Lyon 1

PP053. EFFECT OF THE NOVEL HCV CORE+1/S PROTEIN ON LIVER SPECIFIC GENE PROMOTERS

Georgios G. Pissas, Pelagia N. Foka, Niki Vassilaki, Penelope Mavromara

Molecular Virology Laboratory, Hellenic Pasteur Institute

PP054. POLYMORPHISM - 765G>C IN CYCLOOXYGENASE 2 GENE CONFERS PROTECTION AGAINST CORONARY DISEASE OCCURENCE

Eirini Theodoraki¹, Vassilis Papamikos¹, Genovefa Kolovou², Anastasia Limberi³, Vassilis Peppes⁴, Konstantinos Lazaridis¹, Nikolaos Zakopoulos⁴, **George Dedoussis**¹

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2. Onassis Cardiac Surgery Center
3. Sotiria Hospital
4. Alexandra Hospital

PP055. MLPA ANALYSIS FOR DETECTIONS/ DUPLICATIONS IN BULGARIAN DMD/BMD PATIENTS

P. Plageras¹, A. Todorova², N. Bogdanova³, I. Kremensky², J. Horst³, B. Dworniczak³, A. Papaioannou¹, A. Minas¹, K. Kakavas¹, G. Anifandis⁴, V. Krikelis¹, A. Noulas¹

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3. Institute of Human Genetics, University of Muenster, Muenster, Germany
4. University of Thessaly, Department of Medicine, Larissa, Greece

PP056. THE USE OF HOME MADE ELISA AND IMMUNOBLOTTING ASSAYS FOR THE DETECTION OF ANTIBODIES IN SERA OF HCV INFECTED PATIENTS

Athanassios Kakkanas¹, Georgia Dalagiorgou¹, Niki Vasilaki¹, Shirin Khalili¹, Elina Aslanoglou¹, Panagiota Tsitoura¹, Urania Georgopoulou¹, Penelope Mavromara¹, Agata Boudkowska², Patrick Maillard², Olga Kalinina², Eric Nerienet², Viseth²

1. Molecular Virology Laboratory, Hellenic Pasteur Institute, Athens, Greece
2. PTR Team

PP057. FLAVIVIRIDAE FAMILY: EFFECT OF NON-STRUCTURAL 5A PROTEINS ON IRES-DEPENDENT TRANSLATION INITIATION

Eirini Karamichali¹, Urania Georgopoulou¹, Katerina I. Kalliampakou¹, Peter Karayiannis², Michael Kalai³, Penelope Mavromara¹

1. Hellenic Pasteur Institute Athens, Molecular Virology Laboratory
2. Imperial College, St. Mary's Campus, London
3. Pasteur Institute of Brussels, Laboratory of Cellular Microbiology

PP058. DIFFERENCES IN THE EXPRESSION LEVELS OF ADIPOR1 AND CB1 IN ADIPOCYTE CULTURES OF CHILDREN IN ASSOCIATION WITH SERUM ADIPONECTIN AND WAIST CIRCUMFERENCE: DANGEROUS IMPLICATIONS IN CHILDHOOD OBESITY

Alexia Karvela¹, Andrea-Paola Rojas-Gil¹, Helen Papadaki², Eustratia Samkinidou³, John Varakis², George Georgiou³, Bessie E. Spiliotis¹

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2. Anatomy, Histology and Embryology Department, University of Patras School Of Medicine
3. Department of Pediatric Surgery, Karamandaneio Childerens Hospital

PP059. ASSOCIATION OF KLK10 EXON 3 METHYLATION STATUS AND CLINICAL OUTCOME IN BREAST CANCER

Magda Kioulafa¹, Loukas Kaklamanis², Shathis Stathopoulos³, Vasilis Georgoulas⁴, Evi Lianidou¹

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2. Department of Pathology, Onassis Cardiac Surgery Center, Athens, Greece
3. Department of Medical Oncology and Laboratory of Pathology, University Hospital Of Heraklion, School of Medicine, University of Crete, Greece
4. Department of Medical Oncology and Laboratory of Tumor Cell Biology, University Hospital of Heraklion, School of Medicine, University of Crete, Greece

PP060. REAL-TIME PCR QUANTIFICATION OF MATURE MICRORNA-21 (MIR-21) IN NON-SMALL CELL LUNG CANCER (NSCLC)

Athina Markou¹, Aimilia Tsaroucha², Loukas Kaklamanis³, Vasilis Georgoulas⁴, Evi Lianidou¹

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PP061. ASSOCIATION OF CYSTATIN M (CST6) METHYLATION STATUS AND CLINICAL OUTCOME IN EARLY BREAST CANCER

Magda Kioulafa¹, Loukas Kaklamanis², Georgia Sotiropoulou³, Vasilis Georgoulas⁴, Evi Lianidou¹

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4. Department of Medical Oncology and Laboratory of Tumor Cell Biology, University Hospital of Heraklion, School of Medicine, University of Crete, Greece

PP062. P16 METHYLATION IN CERVICAL SCRAPES OF FEMALE SMOKERS

Konstantinos Fedonidis, Theodoros Agorastos, Theodora Katopodi, Dimitrios Krikelis, Dimitrios Goulis, **Sofia Kouidou**

School of Medicine, Aristotle University

PP063. CELLULAR AND MOLECULAR MECHANISMS ASSOCIATED WITH THE CHEMOPREVENTIVE ACTIVITY OF MASTIC OIL IN EXPERIMENTAL TUMOR GROWTH AND METASTASIS

Sophia Magkouta¹, George Stathopoulos¹, Andreas Papapetropoulos², Fragiskos Kolisis³, Charis Roussos¹, Heleni Loutrari¹

1. G.P. Livanos and M. Simou Laboratories", Evangelismos Hospital, Department of Critical Care and Pulmonary Services, Medical School, University of Athens
2. Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras
3. Metabolic Engineering and Bioinformatics Group, Institute of Biological Research and Biotechnology, National Hellenic Research Foundation

PP064. BIOLUMINOMETRIC HYBRIDISATION ASSAY FOR THE DETECTION OF TWO SINGLE NUCLEOTIDE POLYMORPHISMS IN THE TOLL-LIKE RECEPTOR-4 (TLR4) GENE BY PRIMER EXTENSION REACTION

Alexandra C. Iliadi¹, Penelope C. Ioannou¹, Gerasimos Dimisianos², Joanne Traeger- Synodinos², Emmanuel Kanavakis², Theodore K. Christopoulos^{3,4}

1. Department of Chemistry, University of Athens
2. Medical Genetics Athens University, St. Sophia's Children's Hospital
3. Department of Chemistry, University of Patras
4. Institute of Chemical Engineering and High Temperature Chemical Processes



PP065. DIFFERENTIAL IMPACT OF ANTICANCER CHEMOTHERAPEUTICS ON THE CDT1-DEGRADATION CHECKPOINT PATHWAY

Athanasia Stathopoulou¹, Vassilis Roukos², Nikolas Karantzelis¹, Charikleia Petropoulou¹, Zoi Lygerou², Stavros Taraviras¹

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2. Laboratory of General Biology, Department of Medicine, University of Patras, Patras, Greece

PP066. MAST CELLS ARE AN ESSENTIAL HEMATOPOIETIC COMPONENT FOR POLYP DEVELOPMENT

Elias Gounaris, Khashayarsha Khazaie

Northwestern University, Feinberg Medical School, Department of Gastroenterology & R.H. Lurie Comprehensive Cancer Center

PP067. HUMAN GLIOMA TUMORS EXPRESS ERYTHROPOIETIN (EPO) AND ITS RECEPTOR (EPOR) AND TWO TNF-SUPERFAMILY MEMBERS (BAFF, APRIL) IN RELATION TO THEIR DEGREE OF DIFFERENTIATION

Vassiliki Pelekanou¹, Marilena Kampa¹, Katerina Darivianaki², Efstathios N. Stathopoulos², Andreas Tsapis³, Elias Castanas¹

1. Laboratories of Experimental Endocrinology, University of Crete, School of Medicine

2. Laboratories of Pathology, University of Crete, School of Medicine

3. INSERM U841

PP068. EVALUATION OF THE PROGNOSTIC AND DIAGNOSTIC VALUE OF CDT1 AND GEMININ IN CANCER

I. E. Symeonidou¹, D. Pefani¹, H. Sirinian¹, E. Papadaki², S. Taraviras³, Z. Lygerou¹

1. Laboratory of General Biology, University of Patras

2. Laboratory of Anatomy, University of Patras

3. Laboratory of Pharmacology, School of Medicine, University of Patras

15:00-16:30 Session 3: Development and Stem Cells 1

Chairmen: **G. Koliakos**, Aristotle University of Thessaloniki and **J. Strouboulis**, Biomedical Sciences Research Center, BSRC Al. Fleming

15:00-15:30 **Invited Lecture 2: "Evolution of Development and Morphology in arthropods", M. Averof**, Institute of Molecular Biology and Biotechnology

15:30-16:30 Oral Presentations

OP16. NOVEL EFFECTORS OF DIRECTED AND NGN3 MEDIATED DIFFERENTIATION OF MOUSE EMBRYONIC STEM CELLS INTO ENDOCRINE PANCREAS PROGENITORS

Ioannis Serafimidis¹, Irini Rakatzi¹, Vasso Episkopou², Mina Gouti¹, Anthony Gavalas¹

1. Biomedical Research Foundation of the Academy Of Athens, Developmental Biology Laboratory

2. MRC Clinical Sciences Centre, Imperial College School of Medicine, Hammersmith Hospital, Mammalian Neurogenesis Group

OP17. BM88/CEND1 EXPRESSION LEVELS ARE CRITICAL FOR PROLIFERATION AND DIFFERENTIATION OF SUBVENTRICULAR ZONE-DERIVED NEURAL PRECURSOR CELLS

Lida Katsimpardi¹, Cecile Malnou², Pierre-Marie Lledo³, Pierre Charneau², Rebecca Matsas¹, Dimitra Thomaidou¹

1. Laboratory of Cellular and Molecular Neurobiology, Hellenic Pasteur Institute, Athens, Greece

2. Group of Molecular Virology and Vectorology, Institut Pasteur Paris, France

3. Laboratory for Perception and Memory, Institut Pasteur Paris, France



OP18. SOX1 AND SOX2 ARE KEY REGULATORS OF NEURAL STEM CELL IDENTITY IN THE EMBRYONIC FOREBRAIN

Maximilianos Elkouris¹, Nikos Balaskas¹, Maria Poulou¹, Paul Trainor², Vasso Episkopou³, Robin Lovell-Badge⁴, Eumorphia Remboutsika¹

1. Stem Cell Biology, Institute of Molecular Biology and Genetics, BSRC Alexander Fleming, Greece
2. Stowers Institute for Medical Research, Kansas City, USA
3. Neurogenesis Group, MRC- CSC, Hammersmith Hospital, London, UK
4. Division of Developmental Genetics, National Institute for Medical Research, London UK

OP19. REGULATORY ROLE OF WNT SIGNALLING IN DEVELOPMENT OF MESODERM-DERIVED CELL LINEAGES IN AN IN VITRO ES-CELL DIFFERENTIATION SYSTEM

Anna Melidoni, Ioannis Lazaridis, Panos Kouklis

Stem Cell And Chromatin Lab, School of Medicine, University of Ioannina and Biomedical Research Institute (FORTH-BRI), Ioannina, Greece.

OP20. HOXB1 DRIVEN RESPECIFICATION OF NEURAL STEM CELLS

Mina Gouti, Anthony Gavalas

Biomedical Research Foundation of the Academy of Athens

16:30-17:00

Coffee Break

17:00-18:30

Session 4: Development and Stem Cells 2

Chairmen:

R. Matsas, Hellenic Pasteur Institute and V. Episkopou, MRC, Faculty of Medicine, Imperial College London, UK

Oral Presentations

OP21. USING ZEBRAFISH TO UNRAVEL THE BASIS OF CARDIAC VALVE MORPHOGENESIS AND FUNCTION

Stamatia Kalogirou, Elina Georgomanoli, **Dimitris Beis**

Developmental Biology, Biomedical Research Foundation, Academy of Athens

OP22. CHARACTERIZATION OF RIG-6, A MEMBER OF THE CONTACTIN SUBFAMILY OF THE IMMUNOGLOBULIN SUPERFAMILY IN C. ELEGANS

Markella Katidou^{1,2}, Nektarios Tavernarakis¹, Domna Karagogeos^{1,2}

1. IMBB, FORTH, Heraklion, Crete, Greece, 2. University of Crete, Medical School Heraklion, Greece

OP23. BMP MEDIATED SIGNALING DURING FETAL LUNG DEVELOPMENT AND ADULT LUNG TISSUE REPAIR

Alexandros Sountoulidis¹, Athanasios Stavropoulos¹, Stavros Giaglis¹, Rui Monteiro², Evlabia Aza¹, Anastasia Apostolidou¹, Evdokia Protopapadakis¹, Christine Mummery^{2,3}, Evangelos Andreacos¹, Paschalis Sideras¹

1. Center of Immunology and Transplantation, Biomedical Research Foundation of the Academy of Athens
2. Hubrecht Institute, Utrecht, the Netherlands
3. Interuniversity Cardiology Institute of the Netherlands, and Heart Lung Institute, University Medical Centre Utrecht, Utrecht, The Netherlands

OP24. BM88/CEND1 IS INVOLVED IN HISTONE DEACETYLASE INHIBITION MEDIATED GROWTH ARREST AND DIFFERENTIATION OF NEUROBLASTOMA CELLS

Panagiotis Politis^{1,2}, Sofia Akrivou¹, Catherine Hurel¹, Olga Papadodima¹, Rebecca Matsas¹

1. Laboratory of Cellular and Molecular Neurobiology, Hellenic Pasteur Institute
2. Center of Basic Research, Biomedical Research Foundation, Academy of Athens



OP25. ANANDAMIDE IS AN INDUCER OF ADIPOCYTE DIFFERENTIATION

Sevasti Karaliota¹, Chrisanthi Gontinou¹, Alexandra Gountopoulou¹, Katerina Psarra², Athanasia Siafaka-Kapadai¹, Mary Mavri-Vavayanni¹

1. National and Kapodistrian University of Athens, Faculty of Chemistry, Laboratory of Biochemistry

2. Evaggelismos Hospital Athens, Department of Immunology/Histocompatibility

OP26. DOMINANT AND REDUNDANT FUNCTIONS OF TFIID IN THE INITIAL ACTIVATION AND IN THE MAINTENANCE OF ONGOING TRANSCRIPTION OF HEPATIC GENES

Antonis Tatarakis¹, Thanasis Margaritis², Celia Martinez Jimenez¹, Antigone Kouskouti, Dimitris Kafetzopoulos², Laslo Tora³, Iannis Talianidis¹

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2. IMBB-FORTH, Herakleion Crete Greece

3. IGBMC Strasbourg France

OP27. AMPLIFIED DSS-INDUCED INFLAMMATION AND INTESTINAL CELL PROLIFERATION IN CRH -/- MICE

Zoi Chaniotou, Yasemi Koutmani, Thalia Teli, Katia Karalis

Biomedical Research Foundation, Academy of Athens, Athens

19:00-19:15	Conference Opening Ceremony
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Chairmen: S. Gonos, National Hellenic Research Foundation and N. Karamanos, University of Patras

19:15-20:00	<u>Keynote Lecture 1:</u> «Neuronal subtype specification in the mammalian forebrain», Vassilis Pachnis, National Institute of Medical Research (NIMR), Medical Research Council, London, UK
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20:00-21:00	<u>Keynote Lecture 2:</u> «The Tumour Suppressor p53: Structure, Function-Rescue», Sir Alan Fersht, Cambridge University and Director, Medical Research Council Centre for Protein Engineering, Cambridge, UK
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21:00	Reception
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Saturday 8 December 2007

08:30-20:30 Registration

09:00-11:00 Session 5: Signaling

Chairmen: C. Stournaras, University of Crete and G. Simos, University of Thessaly

Oral Presentations

OP28. ISOGENIC H. PYLORI STRAINS PRESENT WITHIN THE SAME PATIENT EXHIBIT INCREASED VIRULENCE POTENTIAL WITH REFERENCE TO CAGA PROTEIN PHOSPHORYLATION.

Effrosini G. Panayotopoulou¹, Kostantinos Papadakos¹, Beatriz Martinez-Gonzalez¹, Spyros Michopoulos², Gerassimos Mantzaris³, Eleftheria Roma⁴, Andreas Mentis¹, Athanasios Archimandritis⁵, Dionyssios N. Sgouras¹

1. Laboratory of Medical Microbiology, Hellenic Pasteur Institute
2. Gastroenterology Clinic of "Alexandra" Hospital,
3. Gastroenterology Clinic of "Evangelismos" Hospital
4. First Department of Pediatrics, Athens University School of Medicine
5. Second Department of Internal Medicine, Athens University School of Medicine

OP29. PKC-DEPENDENT, SUSTAINED PHOSPHORYLATION OF THE C-TERMINUS OF THE RASGAP NEUROFIBROMIN IS CELL-TYPE SPECIFIC AND CORRELATES WITH INCREASED ERK PATHWAY ACTIVITY

George Leondaritis, Dimitra Mangoura
Basic Neurosciences Division, BRF Academy of Athens

OP30. PKC -DEPENDENT TRANSLOCATION OF THE RASGAP NEUROFIBROMIN INTO LIPID RAFTS

Sophia Karouzaki¹, **Emmanouela Tsirimonaki**¹, Nikolaos Sakellaridis², Dimitra Mangoura¹

1. Biomedical Research Foundation, Academy of Athens, BasicNeurosciences Division, Athens
2. University of Thessaly, Department of Pharmacology, School of Medicine, Larissa

OP31. RGS4 PROTEIN: A NEW PLAYER IN M- AND Δ- OPIOID RECEPTOR SIGNALING

Leonidas J. Leontiadis, Zafiroula Georgoussi
Laboratory of Cellular Signalling and Molecular Pharmacology, Institute of Biology, National Centre for Scientific Research "Demokritos", Athens, Greece

OP32. HYDROGEN PEROXIDE MEDIATES THE STIMULATORY EFFECT OF PLEIOTROPHIN IN HUMAN CELL MIGRATION

Sotiria Tsirmoula, Evangelia Papadimitriou
Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece

OP33. AKT-1 ISOFORM NEGATIVELY REGULATES LPS SIGNALING IN MACROPHAGES VIA UPREGULATION OF IRAK-M AND DOWNREGULATION OF TLR4

Ariadne Androutlidaki¹, Alicia Arranz¹, **Vassiliki Zacharioudaki**^{1,3}, Achille Gravanis², Andrew N. Margioris¹, Christos Tsatsanis¹

1. Department of Clinical Chemistry, University of Crete School of Medicine
2. Department of Pharmacology, University of Crete School of Medicine
3. Graduate Program on Molecular Basis of Human Disease, University of Crete School of Medicine

OP34. ERBIN IS A NOVEL SARA-INTERACTING PROTEIN ON EARLY ENDOSOMES THAT NEGATIVELY REGULATES TGF-B/ACTIVIN SIGNALING

George Sflomos^{1,2}, Eleftherios Kostaras^{1,2}, Ekaterini Panopoulou², Nikos Pappas^{1,2}, Theodore Fotsis^{1,2}, Carol Murphy²

1. Laboratory of Biological Chemistry, Medical School, University of Ioannina, Ioannina, Greece
2. Biomedical Research Institute, Foundation for Research and Technology-Hellas, Ioannina, Greece



OP35. MGCRACGAP INTERACTS WITH HIF-1A AND REGULATES ITS TRANSCRIPTIONAL ACTIVITY

Aggeliki Lyberopoulou¹, Emmanouil Venieris¹, Ilias Mylonis¹, Georgia Chachami¹, Ioannis Pappas², George Simos¹, Sofia Bonanou¹, Eleni Georgatsou¹

1. Laboratory of Biochemistry, Department of Medicine, University of Thessaly

2. Laboratory of Pharmacology and Toxicology, Department of Veterinary Medicine, University of Thessaly

OP36. ACTIVITY AND INTRACELLULAR TRANSPORT OF HUMAN HYPOXIA INDUCIBLE FACTOR HIF-1A DEPEND ON THE PRESENCE AND PHOSPHORYLATION STATUS OF A NOVEL UNCONVENTIONAL NUCLEAR EXPORT SIGNAL

Ilias Mylonis¹, Georgia Chachami¹, Efrosyni Paraskeva², George Simos¹

1. Laboratory of Biochemistry, Department of Medicine, University of Thessaly

2. Laboratory of Physiology, Department of Medicine, University of Thessaly

OP37. S-GLUTATHIONYLATION REGULATES IRF3-CBP BINDING AND ACTIVATION OF THE IFNB PATHWAY

Efthymios Prinarakis¹, **Eleni Hantzoura**¹, Dimitris Thanos², Giannis Spyrou¹

1. Center of Basic Research I - Biochemistry Division, Biomedical Research Foundation, Academy of Athens, Greece

2. Center of Basic Research II - Biochemistry Division, Biomedical Research Foundation, Academy of Athens, Greece

11:00-11:30

Coffee Break

11:30-12:30

Session 6: Novel Macromolecules, Mapping of Functions

Chairmen:

D. Kyriakidis, Aristotle University of Thessaloniki and

D. Vassilakopoulou, National & Kapodistrian University of Athens

Oral Presentations

OP11. IDENTIFICATION, CLONING AND CHARACTERISATION OF THE SMALL RAS-RELATED GTP BINDING PROTEIN RAN, IN THE PROTOZOAN PARASITE LEISHMANIA

Despina Smirlis¹, Haralabia Boleti¹, Maria Gaitanou², Ketty Soteriadou¹

1. Laboratory of Molecular Parasitology, Department of Microbiology, Hellenic Pasteur Institute, Athens, Greece

2. Laboratory of Cellular and Molecular Neurobiology, Department of Microbiology, Hellenic Pasteur Institute, Athens, Greece

OP12. STUDIES ON RIBONUCLEASE P (RNASE P) FROM THE ETHANOLOGENIC BACTERIUM ZYMOMONAS MOBILIS

Marianthi Tsitlaidou¹, Anastassios Vourekas¹, Dimitra Kalavrizioti¹, Vassiliki Stamatopoulou¹, Chrisavgi Toumpeki¹, Amalia Afendra², Constantin Drinas³, Denis Drinas¹

1. Department of Biochemistry, School of Medicine, University of Patras

2. Department of Biological Applications and Technologies, University of Ioannina 3. Laboratory of Biochemistry, Department of Chemistry, University of Ioannina

OP13. HUMAN RNASE K: A MEMBER OF A NOVEL PROTEIN FAMILY

Marie-Angela Economopoulou, Emmanuel Fragoulis, Diamantis Sideris

National and Kapodistrian University of Athens, Faculty of Biology, Department of Biochemistry and Molecular Biology

OP14. CRITICAL RESIDUES AND INTRAMOLECULAR INTERACTIONS IN THE XANTHINE PERMEASE YGFO FROM ESCHERICHIA COLI AS REVEALED FROM CYS-SCANNING ANALYSIS

Ekaterini Georgopoulou, Konstantinos Papakostas, Ekaterini Karna, **Stathis Frillingos**

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

OP15. TOWARDS THE PAST THROUGH GENETIC DISRUPTION OF INTRAMOLECULAR SYNERGISM IN THE NUCLEOBASE-ASCORBATE TRANSPORTER FAMILY

Ioannis Papageorgiou¹, Christos Gournas¹, Areti Panatazopoulou^{1,2}, Sotiris Amillis¹, Anna Vlanti¹, **George Diallinas**¹

1. Faculty of Biology, University of Athens, 2. Centro de Investigaciones Biologicas CSIC



12:30-14:30

**Presentation by Company Lab Supplies/ Satellite
Symposium: Multiplex Bioassays and Immunoassays**

Alan Tunicliffe, Multiplex Specialist, Millipore Bioscience Division

13:00-14:30

Poster Session 2 (PP069-PP135)

• **Structural Biology and Protein Chemistry (PP069-PP085)**

PP069. STRUCTURAL AND FUNCTIONAL ANALYSIS OF BRCA1-BRCT PROTEIN MUTANTS IMPLICATED IN BREAST CANCER

Ioannis Drikos¹, Aggelos Thanassoulas², George Nounesis², Constantinos Vorgias¹

1. Department of Biochemistry and Molecular Biology, Faculty of Biology, National and Kapodistrian University of Athens, Athens, Greece

2. National Center of Scientific Research Demokritos, Athens, Greece

PP070. IN VITRO AND IN SILICO STUDIES OF PKH-Γ TRUNCATED FOR THE DEVELOPMENT OF ANTI-HYPERGLYCAEMIC DRUGS USING STRUCTURE-BASED DRUG DESIGN

Demetres Papageorgiou¹, Joseph M. Hayes¹, Josephine Sarrou¹, Nicholas Bischler¹, Vicky T. Skamnaki¹, Spyros E. Zographos¹, Demetres D. Leonidas¹, Nikos G. Oikonomakos¹, Alexios-Leandros Skaltsounis², Veit Wascholowski³, Vasiliki Sarli³, Athanassios Giannis³

1. National Hellenic Research Foundation, Institute of Organic and Pharmaceutical Chemistry

2. National and Kapodistrian University of Athens, Department of Pharmacy

3. Leipzig University, Institute of Organic Chemistry

PP071. STRUCTURE PREDICTIONS, CLONING AND OVEREXPRESSION OF DEFL, THE PRODUCT OF A DROSOPHILA UNCHARACTERIZED GENE

Georgios Nikolopoulos¹, **Dimitrios Vlachakis**¹, Bernhard Waltenspiel², William D. Warren², Metaxia Vlassi¹

1. NCSR "Demokritos", Institute of Biology

2. James Cook University, Comparative Genomics Centre

PP072. CRYSTALLIZATION AND PRELIMINARY CRYSTALLOGRAPHIC ANALYSIS OF A NEW ALKALINE XYLANASE FOXYN10A FROM FUSARIUM OXYSPORUM F3

Evangelia D. Chrysina¹, Evangelos Topakas², Paul Christakopoulos²

1. The National Hellenic Research Foundation, Institute of Organic and Pharmaceutical Chemistry, Athens

2. The National Technical University of Athens, School of Chemical Engineering, Biotechnology Laboratory, Athens

PP073. CRYSTAL STRUCTURE OF THE NUCLEAR FACTOR HCINAP IN COMPLEX WITH ADP REFINED TO 1.8 Å RESOLUTION: INSIGHTS INTO THE FUNCTION OF HCINAP

Spyros E. Zographos¹, Anna Malekkou², Niovi Santama², Demetres Papageorgiou¹, Eliada Lazoura¹, Demetres D. Leonidas¹, Angus I. Lamond³, Nikos G. Oikonomakos¹

1. Institute of Organic and Pharmaceutical Chemistry, the National Hellenic Research Foundation, Athens, Greece

2. Department of Biological Sciences, University of Cyprus and Cyprus Institute of Neurology and Genetics, Nicosia, Cyprus

3. Division of Gene Regulation and Expression, University of Dundee, MSI/WTB Complex, Scotland, UK

PP074. THE ROLE OF THE EXTENSIONS OF THE L4 AND L22 RIBOSOMAL PROTEINS IN THE TUNNEL FUNCTION

Aikaterini Tsagkalia, Alexandros Katranidis, Theodora Choli-Papadopoulou

Laboratory of Biochemistry, School of Chemistry Aristotle University of Thessaloniki, Thessaloniki, Greece

PP075. THE HELICOBACTER PYLORI L25 RIBOSOMAL PROTEIN EXHIBITS FUNCTIONAL SIMILARITIES WITH ITS COUNTER PART FROM BACILLUS SUBTILIS

Philippos Kottakis¹, Stamatina Giannouli², Louiza Papazachariou¹, Alexandros Strikoudis², Athanasios Kyritsis², Constantinos Stathopoulos², Georgios Papadopoulos¹, **Theodora Choli-Papadopoulou**¹

1. Laboratory of Biochemistry, School of Chemistry Aristotle University of Thessaloniki, Thessaloniki, Greece

2. University of Thessaly, Department of Biochemistry & Biotechnology, Larissa



PP076. CHARACTERIZATION OF A MONOACYLGLYCEROL-LIKE ENZYME IN TETRAHYMENA

Andri Evagorou, Dimitrios Anagnostopoulos, Elena Farmaki, Athanasia Siafaka-Kapadai
National and Kapodistrian University of Athens, Department of Chemistry (Biochemistry)

PP077. 2-ARACHIDONYLGLYCEROL METABOLISM IN RABBIT PLATELETS. IDENTIFICATION AND PARTIAL CHARACTERIZATION OF A MONOACYLGLYCEROL LIPASE

Eleni Gkini, Dimitrios Anagnostopoulos, Athanasia Siafaka-Kapadai
Department of Chemistry, University of Athens, Greece

PP078. SPECIFICITY OF ENDOPLASMIC RETICULUM AMINOPEPTIDASES THAT ARE CRUCIAL FOR ANTIGEN PRESENTATION

Irini Evnouchidou¹, Leontios Leontiadis¹, Thanos Papakyriakou³, Shih-Chung Chang⁴, Frank Momburg², Alfred Goldberg⁵, Efstratios Stratikos¹

1. National Centre for Scientific Research "Demokritos", IRRP, Greece
2. German Cancer Research (DKFZ), Department of Molecular Immunology, Heidelberg, Germany
3. National Centre for Scientific Research "Demokritos", Institute of Physical Chemistry, Greece
4. National Taiwan University, Institute of Microbiology and Biochemistry, Department of Biochemical Science and Technology, Taiwan, ROC.
5. Harvard Medical School, Department of Cell Biology, Boston, USA

PP079. OVEREXPRESSION AND PURIFICATION OF BARD1 AND 53BP1 BRCT DOMAINS FOR COMPARATIVE BIOPHYSICAL STUDIES WITH HUMAN BRCA1

Angelos Thanassoulas, Michail Nomikos, Maria Theodoridou, Dimitrios Mastellos, George Nounesis
National Center for Scientific Research "Demokritos", Athens, Greece

PP080. OVEREXPRESSION, PURIFICATION AND CHARACTERIZATION OF THE ROLE OF PLACENTAL LEUCINE AMINOPEPTIDASE IN ANTIGENIC PEPTIDE GENERATION

Dimitra Georgiadou¹, Irini Evnouchidou¹, Vicky Skamnaki², Angelika Chroni², Arron Hearn³, Kenneth Rock³, Efstratios Stratikos¹

1. Protein Chemistry Laboratory, IRRP, National Center for Scientific Research "Demokritos", Athens, Greece
2. Institute of Biology, National Center for Scientific Research "Demokritos", Athens, Greece
3. Department of Pathology, University of Massachusetts Medical School, Worcester, MA, USA

PP081. FRA10AC1 INTERACTS IN VIVO WITH DGCR14, A PUTATIVE SPLICEOSOMAL PROTEIN

Theologia Sarafidou^{1,2}, Despina Apostolopoulou¹, Markella Katidou¹, Nicholas K Moschonas^{1,3}

1. Department of Biology, University of Crete
2. Department of Biochem and Biotech; Genetics, Comparative and Evolutionary Biology Lab, Larissa, University of Thessaly
3. School of Medicine, Lab of Biology, University of Patras

PP082. PROTEIN CRYSTALLOGRAPHY IN ORGANIC SYNTHESIS: A USEFUL METHOD FOR THE CHARACTERIZATION OF NON CRYSTALLINE COMPOUNDS

Dimitris Sovantzis², Doros Hatziloi², Dimitris Stathis¹, Crina Cismas¹, Thanasis Gimisis¹, Spyros E. Zographos², Demetres D. Leonidas², Nikos G. Oikonomakos²

1. Laboratory of Organic Chemistry, Department of Chemistry, University of Athens
2. Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation

PP083. MOLECULAR AND BIOCHEMICAL CHARACTERIZATION OF PLANT PARVULINS. NEW MEMBERS IN AN OLD FAMILY

Evangelia D. Kouri, Catalina Stedel, Katerina I. Kalliampakou, Panagiotis Katinakis, Emmanouil Flemetakis
Agricultural University of Athens, Department of Agricultural Biotechnology

PP084. STRUCTURE - FUNCTION STUDIES ON THE ROLE OF AN INSERTED (A+B) DOMAIN REGARDING THE STABILITY AND ENZYMATIC ACTIVITY OF SERRATIA MARCESCENS' CHITINASE A.

Athanasios C. Zees¹, Serapion Pyrpasopoulos², George Nounesis², Constantinos E. Vorgias¹

1. National and Kapodistrian University of Athens, Faculty of Biology, Department of Biochemistry and Molecular Biology
2. Biomolecular Physics Laboratory, I/R-RP, National Centre For Scientific Research "Demokritos"

PP085. CLONING AND CHARACTERIZATION OF THE CR3 (CD11B/CD18) RECEPTOR IN RAINBOW TROUT

Dimitra Marioli, Angeliki Mikrou, Anastasios D. Papanastasiou, Ioannis K. Zarkadis
Department of Biology, School of Medicine, University of Patras



- **Free Radicals and Oxidative Stress (PP086-PPP098)**

PP086. CHRONIC STRESS EFFECTS IN THE DNA OF LYMPHOCYTES FROM SINGLE PARENT FAMILIES

Stylianos M. Piperakis ¹, **Konstantina Kontogianni** ¹, Georgia Karanastasi ¹, Argyro Agelossopoulou ¹, Maria Zafiropoulou ²

1. BiologyUnit, Department of Pre-School Education, Faculty of Humans Sciences, University of Thessaly

2. Laboratory of Developmental Psychology and Psychopathology, Faculty of Human Sciences, University of Thessaly

PP087. OXIDATIVE STRESS IN PATIENTS WITH MALIGNANCY CAUSED OBSTRUCTIVE JAUNDICE
Konstantinos Grintzalis ¹, Ioannis Papapostolou ¹, Stelios F. Assimakopoulos ², Christos Georgiou ¹

1. Department of Biology, Section of Genetics, Cell and Developmental Biology, University of Patras

2. Department of Internal Medicine, School of Medicine, University of Patras

PP088. IDENTIFICATION OF NATURAL COMPOUNDS THAT ENHANCE PROTEASOME ACTIVITY AND DELAY SENESCENCE

Soultana Kapeta, Niki Chondrogianni, Stathis Gonos

Laboratory of Molecular and Cellular Aging, Institute of Biological Research and Biotechnology, National Hellenic Research Foundation, Athens, Greece

PP089. THE EFFECT OF MUSCLE-DAMAGING EXERCISE ON BLOOD AND SKELETAL MUSCLE OXIDATIVE STRESS: MAGNITUDE AND TIME-COURSE CONSIDERATIONS

Michalis G. Nikolaidis

Center for Research and Technology – Thessaly, Institute of Human Performance and Rehabilitation

PP090. THE ROLE OF HYDROGEN PEROXIDE (H₂O₂) AND IRON IONS TO NF-KB ACTIVATION BY TNF-A

Vasiliki Skiada, Chara Vlachou, Alexandra Barbouti, Dimitrios Galaris

Laboratory of Biological Chemistry, Medical School, University Of Ioannina

PP091. ROLE OF CALCIUM AND P38-MAPK / MSK1 SIGNALING IN THE REGULATION OF H₂O₂-INDUCED PHOSPHORYLATION OF SHSP22 IN H9C2 CELLS

Ioanna-Katerina Aggeli, Catherine Gaitanaki, Isidoros Beis

National and Kapodistrian University of Athens, Faculty of Biology, Department of Animal and Human Physiology, Athens

PP092. MAPK SIGNALING PATHWAYS ARE IMPLICATED IN NF-KB ACTIVATION AND IN ANTIOXIDANT ENZYME INDUCTION DURING OXIDATIVE STRESS IN SKELETAL MYOBLASTS

Eirini Kefaloyianni, Catherine Gaitanaki, Isidoros Beis

Department of Animal and Human Physiology, Faculty of Biology, University of Athens

PP093. ANTIOXIDANT EFFECTS OF AMPHIPATHIC K CLASS PEPTIDE MODELS OF APOLIPOPROTEIN A-I HELIX 6

Polyxeni T. Mantani, Maria P. Petraki, Konstantinos Harilogis, Andromaxi A. Dimitriou, Afroditi P. Tambaki, Maria Sakarellos-Daitsiotis, Alexandros D. Tselepis

Department of Chemistry, University of Ioannina, Ioannina, Greece

PP094. EVALUATION OF CATALASE ACTIVITY, PEROXIDES AND OXIDANTS-PROOXIDANTS BALANCE IN AQUEOUS HUMOR AND SERUM FROM PATIENTS WITH EXFOLIATION SYNDROME AND EXFOLIATIVE GLAUCOMA

Christina D. Befani ¹, Anastasios G.P. Konstas ², George G. Koliakos ¹

1. Aristotle University of Thessaloniki

2. AHEPA Hospital of Thessaloniki, University Department of Ophthalmology

PP095. EFFECTS OF LEPTIN, ISOPROSTANE AND ROSIGLITAZONE ON PRO-ATHEROSCLEROTIC PROPERTIES OF HUMAN MONOCYTES

Diamantis Konstantinidis ¹, George Koliakos ², Martha Kaloyianni ¹

1. Laboratory of Animal Physiology, School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece

2. Laboratory of Biological Chemistry, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

PP096. EFFECTS OF ANTHOCYANIN RICH BLUEBERRIES EXTRACT (V. ANGUSTIFOLIUM) ON THE ANTIOXIDANT AND BEHAVIORAL ASPECTS OF MICE

Magdalini A. Papandreou¹, Andriana Dimakopoulou², Paul Cordopatis², Dorothy Klimis-Zacas³, Marigoula Margarity¹, Fotini N. Lamari²

1. Laboratory of Human & Animal Physiology, Department of Biology, University of Patras
2. Laboratory of Pharmacognosy & Chemistry of Natural Products, Department of Pharmacy, University of Patras
3. Department of Food Science and Human Nutrition, University of Maine

PP097. H2O2 INDUCES RETROTRANSPOSITION THROUGH AN IRON-MEDIATED MANNER

Sofia Konisti¹, George Markopoulos¹, Dimitrios Noutsopoulos¹, George Vartholomatos², Lefkothea Dova², Charalambos Angelidis¹, Dimitrios Galaris³, Theodore Tzavaras¹

1. Laboratory of General Biology, Medical School, University of Ioannina
2. Hematology Laboratory, University Hospital of Ioannina
3. Laboratory of Biological Chemistry, Medical School, University of Ioannina

PP098. EVIDENCE ON THE INVOLVEMENT OF THE CELL CYCLE INHIBITOR GEMININ IN THE ESTABLISHMENT OF CELLULAR SENESCENCE

Maria Iliou¹, Maria Dimaki¹, Panoraia Kotantaki², Stavros Taraviras², Zoi Lygerou¹

1. Department of General Biology, School of Medicine, University of Patras, Rio, Greece
2. Department of Pharmacology, School of Medicine, University of Patras, Rio, Greece

• **Transcription - Translation – Degradation (PP099-PP111)**

PP099. ANTIMICROBIAL ACTIVITY AND MODE OF ACTION OF A NEW KETOLIDE LINKED WITH AN ARYL-ALKYL-SIDE CHAIN AT THE O-6 OF THE LACTONE RING

Ekaterini Kouvela¹, Dimitrios Kalpaxis¹, Gary Ashley², George Dinos¹

1. University of Patras, Medical School, 2. Kosan Biosciences Inc., Hayward California

PP100. PROTEASOME INHIBITION INDUCES CLUSTERIN OVER-EXPRESSION THROUGH HEAT-SHOCK FACTOR 1 AND PROTEIN STABILIZATION

Eirini Balantinou, Ioannis P. Trougakos, Niki Chondrogianni, Stathis Gonos

Molecular & Cellular Aging Laboratory, Institute of Biological Research & Biotechnology, National Hellenic Research Foundation

PP101. IDENTIFICATION OF NOVEL ALTERNATIVELY SPLICED TRANSCRIPTS OF CANIS FAMILIARIS TELOMERASE REVERSE TRANSCRIPTASE

Katerina Angelopoulou¹, Michael Zavlaris², Nikolaos Papaioannou², Ioannis Vlemmas²

1. Laboratory of Biochemistry & Toxicology, School of Veterinary Medicine, Aristotle University of Thessaloniki
2. Laboratory of Pathology, School of Veterinary Medicine, Aristotle University of Thessaloniki, Thessaloniki

PP102. DEVELOPMENTAL EPIGENETIC CHANGES OF THE DFNA5 GENE REGION

Paraskevi Salpea¹, Valya Russanova², Kalliopi Sekeri¹, Bruce Howard², Thomae Sourlingas¹

1. National Centre for Scientific Research, "DEMOKRITOS", Institute of Biology
2. National Institute of Child Health and Human Development, Laboratory of Molecular Growth Regulation

PP103. EFFECT OF PURINE NUCLEOTIDES ON HUMAN POLY (A) SPECIFIC RIBONUCLEASE (PARN)

Nikolaos A.A. Balatsos^{1,2}, Dimitrios Anastasakis¹, Constantinos Stathopoulos^{1,2}

1. University of Thessaly, Department of Biochemistry and Biotechnology, Larissa
2. Institute of Biomedical Research & Technology (BIOMED), Larissa

PP104. ROLE OF P53 UBIQUITIN LIGASES IN HUMAN SENESCENCE

Christina Sisoula, Stathis Gonos

Laboratory of Molecular & Cellular Aging Laboratory, Institute of Biological Research & Biotechnology, National Hellenic Research Foundation

PP105. THE ROLE OF HISTONE ACETYLATION IN THE INDUCTION OF COR GENES EXPRESSION UPON SALT STRESS IN ARABIDOPSIS THALIANA

Athanasios Kaldis¹, Moussa Benhamed², Marianne Delarue², Dao-Xiou Zhou², **Konstantinos Vlachonasios**¹

1. Department of Botany, School of Biology, Faculty of Science, Aristotle University of Thessaloniki
2. Institut de Biotechnologie des Plantes, Univeriste Paris-Sud XI



PP106. MUTATIONS U2609C AND G754A IN 23S RIBOSOMAL RNA AFFECTS DIVERSELY THE POTENCY OF MACROLIDE ANTIBIOTICS

Ekaterini C. Kouvela, Alexandros D. Petropoulos, George P. Dinos, Dimitrios L. Kalpaxis
Laboratory of Biochemistry, School of Medicine, University of Patras

PP107. MECHANISMS OF TRANSCRIPTIONAL REGULATION OF HUMAN APOLIPOPROTEIN GENES THAT PARTICIPATE IN THE METABOLISM OF HIGH DENSITY LIPOPROTEINS

Ioanna Mosialou¹, Vassilis I. Zannis^{1,2}, Dimitris Kardassis^{1,3}

1. Department of Basic Sciences, University of Crete Medical School

2. Section of Molecular Genetics, Whitaker Cardiovascular Institute, Department of Medicine and Biochemistry, Boston University School of Medicine

3. Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology-Hellas

PP108. POSSIBLE BIOLOGICAL ROLE OF TRANSCRIPTIONAL CO-ACTIVATOR ATYAF9A IN EARLY FLOWERING OF ARABIDOPSIS THALIANA PLANTS

Vasiliki Zacharaki, Konstantinos E. Vlachonasios

Department of Botany, School of Biology, Aristotle University of Thessaloniki

PP109. CHIP-CLONING APPROACH TO IDENTIFY NOVEL C-JUN TARGET GENES ACTIVATED BY ONCOGENIC RAS IN COLORECTAL CANCER CELLS

I.Mazon Pelaez, A. Pintzas

Laboratory of Signal Mediated Gene Expression, Institute of Biological Research and Biotechnology, National Hellenic Research Foundation

PP110. ALTERED INTERACTION OF AMINOGLYCOSIDE ANTIBIOTICS WITH RIBOSOMES CARRYING MUTATIONS IN THE A-SITE OF 18S RRNA

Smaragdi Tselika, Fotini Apostolopoulou, Dennis Synetos

Laboratory of Biochemistry, School of Medicine, University of Patras, Patras, Greece

PP111. STATS PROTEIN COMPLEX PURIFICATION BY IN VIVO BIOTINYLATION

Vassiliki Lazou, Eleni Katsantoni

Hematology Division, Biomedical Research Foundation, Academy of Athens, Athens, Greece

• **Membranes and Transport Systems (PP112-PP118)**

PP112. "SEARCHING FOR GENES ENCODING FACTORS INVOLVED IN CELLULAR TRAFFICKING AND TARGETING TO THE PLASMA MEMBRANE OF AMINO ACIDS TRANSPORTERS"

Katerina Roumelioti¹, Aggeliki Apostolaki², Vassiliki Sofianopoulou¹

1. Institute of Biology, National Center for Scientific Research "Demokritos" (NCSR), Agia Paraskevi, Athens, Greece

2. Institute of Molecular Biology and Biotechnology (IMBB), Heraklion, Crete, Greece

PP113. FUNCTIONAL CHARACTERIZATION OF THE PREPROTEIN BINDING DOMAIN OF SECA

Marios Frantzeskos Sardis^{1, 2}, Georgios Gouridis^{1, 2}, Marina Koukaki¹, Spyridoula Karamanou¹, Anastassios Economou^{1, 2}

1. Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology-Hellas, Heraklion, Crete, Greece

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

PP114. DETERMINANTS FOR PREPROTEIN CROSS TALK WITH THE HELICASE DEAD MOTOR OF SECA

Katerina Chatzi^{1,2}, Irini Kamileri^{1,2}, Giorgos Gouridis^{1,2}, Marina Koukaki², Spiridoula Karamanou², Anastassios Economou^{1,2}

1. Department of Biology, University of Crete

2. Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology, Crete

PP115. DEVELOPMENT OF FOAMY VIRAL VECTORS WITH THE ABILITY OF BI-DIRECTIONAL GENE EXPRESSION

Angeliki Andrianaki¹, Elena Siapati¹, George Vasilopoulos^{1,2}

1. Division of Gene Therapy, Biomedical Research Foundation of the Academy of Athens, Athens, Greece

2. Division of Hematology, University of Thessaly Medical School, Larissa, Greece



PP116. DYNAMIC ASSEMBLY OF THE TRANSLOCASE MOTOR ONTO THE PROTEIN-CONDUCTING CHANNEL

Vassiliki Bariami^{1,2}, Spyridoula Karamanou¹, Anastassios Economou^{1,2}

1. Institute of Molecular Biology & Biotechnology, Foundation of Research & Technology-Hellas
2. Department of Biology, University of Crete

PP117. STUDIES ON THE CONTRIBUTION OF RNFE AND RNFG LIKE GENES OF ZYMONONAS MOBILIS COMPLEX I FOR FULL NAD (P) H-OXIDASE ACTIVITY

Elpiniki Vandera¹, Athanasia Varsaki¹, Gheorghe Stoian², Constantin Drainas¹, Angelos Perisynakis¹

1. University of Ioannina, Department of Chemistry, Ioannina
2. University of Bucharest, Faculty of Biology, Bucharest, Romania

PP118. RAB27A: A POSITIVE REGULATOR OF WEIBEL-PALADE BODY EXOCYTOSIS IN ENDOTHELIAL CELLS

Sofia Zografou^{1,2}, Alexandra Papafotika¹, Chrysanthi Xilouri³, Ejvind Mortz⁴, Sarah Wilhelm⁵, Karin Rutschmann⁵, Daniel Auerbach⁵, Huseyin Aygon⁶, Savvas Christoforidis

1. Biomedical Research Institute/Foundation of Research and Technology Hellas
2. University of Ioannina, Medical School, Laboratory of Biological Chemistry
3. University Hospital of Ioannina
4. Analyse A/S, 5. Dualsystems Biotech AG, 6 BioSpring GmbH

• **Pathobiology of the Extracellular Matrix (PP119 – PP132)**

PP119. IMATINIB MESYLATE INHIBITS THE PROLIFERATION AND COLLAGEN SYNTHESIS IN HUMAN BREAST STROMAL FIBROBLASTS

Vassiliki Gioni¹, Theodoros Karabinas¹, Gerassimos Voutsinas², Andreas E. Roussidis³, Savvas Papadopoulos⁴, Nikos K. Karamanos³, Dimitris Kletsas¹

1. Laboratory of Cell Proliferation & Ageing, Institute of Biology, NCSR "Demokritos", Athens
2. Laboratory of Environmental Mutagenesis & Carcinogenesis, Institute of Biology, NCSR "Demokritos", Athens
3. Department of Chemistry, Laboratory of Biochemistry, University of Patras, Patras
4. Department of Pathology, "Hygeia" Hospital, Athens

PP120. STRUCTURAL AND EXPRESSIONAL STUDIES OF PROTEOGLYCANS IN LARYNGEAL CANCER

Marina Stylianou¹, Spyros S. Skandalis^{1,2}, Dimitrios A. Theocharis², Theodore Papadas³, Nikolaos S. Mastronikolis³, Nikoletta Papageorgakopoulou¹, **Dimitrios H. Vynios**¹

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2. Laboratory of Biological Chemistry, Department of Medicine, University of Patras
3. H.N.O. Clinic, University Hospital and Department of Medicine, University of Patras

PP121. PROTEOGLYCAN – RELATED ENZYMES IN COLORECTAL CANCER

Helen Bouga¹, Athanassia Karatsa¹, Dimitrios Kalathas¹, Dimitrios Bounias², Dora Kyriakopoulou², Michael Stavropoulos², Nikoletta Papageorgakopoulou¹, Dimitrios A. Theocharis³, Dimitrios H. Vynios¹

1. Laboratory of Biochemistry, Department of Chemistry
2. Department of Surgery, University Hospital and Department of Medicine
3. Laboratory of Biological Chemistry, Department of Medicine, University of Patras

PP122. INCREASED MONOCYTE ATTACHMENT TO LAMININ-1 IN DIABETES MELLITUS. THE ROLE OF THE ALPHA2, ALPHA1 AND BETA2 INTEGRIN SUBUNITS

Elena Kostidou¹, George Koliakos², Martha Kaloyianni¹

1. Laboratory of Animal Physiology, School of Biology, Aristotle University
2. Department of Biological Chemistry, Medical School, Aristotle University

PP123. "DESIGNER" TIMPS FOR SPECIFIC METALLOPROTEINASE INHIBITION

Magdalini Rapti^{1,2}, Meng-Huee Lee¹, Gillian Murphy¹

1. Cancer Research UK, CRI, Li Ka Shing Centre
2. Biomedical Research Foundation, Academy of Athens, Department of Biochemistry



PP124. AMNIOTIC FLUID REGULATES MAJOR WOUND HEALING PARAMETERS IN VITRO

Stefania Chrissouli¹, Harris Pratsinis¹, Vassiliki Gioni¹, Vasillios Anastassiou², Vassilis Gorgoulis³, Dimitris Klatsas¹

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2. "Mitera" Maternity and Children's Hospita
3. Department of Histology & Embryology, University of Athens, Medical School

PP125. HEPARIN EXOGENOUSLY ADDED ENHANCES HUMAN COLON CANCER CELL GROWTH

Georgia Chatzinikolaou, Dragana Nikitovic, **George N. Tzanakakis**
Department of Histology, Division of Morphology, School of Medicine, University of Crete

PP126. THE STIMULATORY EFFECTS OF APROTININ ON HUMAN ENDOTHELIAL AND PROSTATE CANCER CELLS ARE MEDIATED BY PLEIOTROPHIN

Marina Koutsoumpa, Maria Hatziapostolou, Constantinos Mikelis, Evangelia Papadimitriou
Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras, Greece

PP127. INVOLVEMENT OF CIRCULATING HYALURONIC ACID IN OSTEOCLASTIC BONE RESORPTION OF BREAST CANCER METASTATIC BONE DISEASE

Ioannis Kanakis¹, Maria Nikolaou², Achilleas D. Theocharis¹, Dimitrios Pectasides³, Nikos K. Karamanos¹

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3. Second Propaedeutic Department of Internal Medicine, Athens University Medical School, Attikon University Hospital, Athens, Greece

PP128. A SIMPLE AND EASY ELISA FOR THE DETERMINATION OF MMP-1, MMP-3 AND TIMP-1 IN CELL CULTURES CONDITIONED MEDIA

Ioanna Mantzourani¹, Maria Giannakouli¹, Eleftheria Giannopoulou², Alexios J. Aletras¹

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2. Department of Pharmacology, Medical School, Univeristy of Patras

PP129. A SERINE PROTEASE ACTIVITY FROM NASAL POLYPS TISSUE EXTRACTS ABLE TO DEGRADE THE INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN-3

Sotiris D. Athanasiou¹, Pantelis Marsouvanidis¹, Constantinos Kollias¹, Theodoros Stathas², Stefanos Naxakis², Eleftheria Giannopoulou³, Alexios J. Aletras¹

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2. Department of Otolaryngology, Medical School, University of Patras
3. Department of Pharmacology, Medical School, University of Patras

PP130. A CAPILLARY ELECTROPHORESIS ASSAY TO EVALUATE CHARGE DISTRIBUTION OF CHONDROITIN SULPHATE AND IDENTIFICATION OF HYALURONAN IN CHONDROITIN SULPHATE PREPARATIONS

Christina J. Malavaki¹, Athanasia P. Asimakopoulou¹, Fotini N. Lamari², Achilleas Theocharis¹, George N. Tzanakakis³, Nikos K. Karamanos¹

1. Department of Chemistry, Laboratory of Biochemistry, University of Patras
2. Department of Pharmacy, University of Patras
3. Department of Histology, School of Medicine, University of Crete

PP131. A BIOCHEMICAL APPROACH FOR ANALYZING CHONDROITIN SULPHATE IN BLOOD CIRCULATION

Athanasia P. Asimakopoulou¹, Christina J. Malavaki¹, Jean P. Pujol², Nikos K. Karamanos¹

1. Laboratory of Biochemistry, Department of Chemistry, University of Patras
2. Laboratory of Connective Tissue Biochemistry, University of Caen, France

PP132. EFFECTS OF ZOLEDRONATE ON THE EXPRESSION OF PROTEOGLYCANS AND MEMBRANE METALLOPROTEINASE-1 IN HUMAN BREAST CANCER CELLS

Petros G. Dedes, Olga Ch. Kousidou, Ioannis Kanakis, NIKOS K. Karamanos
Department of Chemistry, Laboratory of Biochemistry, Universtiy of Patras



- **Stem Cells (PP133-PP135)**

PP133. SALL1 AND NROB1 INTERACT WITH THE CORE PLURIPOTENCY FACTORS OF MOUSE EMBRYONIC STEM CELLS

Marilia Ioannou^{1,2}, Efthimia Karantzali^{1,2}, Joseph Papamatheakis^{1,2}, Androniki Kretsovali²

1. University of Crete, Faculty of Biology

2. Institute of Molecular Biology and Biotechnology, FORTH, Crete, Greece

PP134. SOX2 INTERPRETS THE RETINOID SIGNAL IN THE DEVELOPING NEURAL TUBE

Melanie Kalaitzidou¹, Maria Poulou¹, Paul Trainor², Karen Niederreither³, Pierre Chambon⁴, Pascal Dolle⁴, Robin Lovell-Badge⁵, Eumorphia Remboutsika¹

1. Stem Cell Biology, Institute of Molecular Biology and Genetics, BSRC Alexander Fleming, Vari, Greece

2. Stowers Institute for Medical Research, Kansas City, USA

3. Baylor College of Medicine, Houston, USA

4. Institut de Genetique et de Biologie Moleculaire et Cellulaire, Strasbourg, France

5. Division of Developmental Genetics, National Institute for Medical Research, London, UK

PP135. DDX5/P68 RNA HELICASE PLAYS A REGULATORY ROLE IN DNA METHYLATION/DEMETHYLATION CYCLES DURING CELL DIFFERENTIATION

Anastasia Mpakali^{1,2}, Andriana Kotini^{1,2}, Theodora Agalioti¹

1. "Al. Fleming" Biomedical Sciences Research Center, Institute of Molecular Biology and Genetics

2. National and Kapodistrian University of Athens, School of Medicine

15:00-17:00	HSBMB General Assembly
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17:00-17:30	Coffee Break
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17:30-19:30	HSBMB Elections
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17:30-18:50	Session 7: Chromatin
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Chairmen: **G. Thireos, University of Crete and G. Mosialos, Aristotle University of Thessaloniki**

17:30-18:00 **Invited Lecture 3:«Protamine phosphorylation and spermatogenesis»**
T. Giannakouros, Aristotle University of Thessaloniki

18:00-18:50	Oral Presentations
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OP44. IDENTIFICATION OF DISTINCT SET/TAF-IB DOMAINS REQUIRED FOR CORE HISTONE BINDING AND QUANTITATIVE CHARACTERIZATION OF THE INTERACTION

Zoe Karetsou¹, Ioannis Sanidas², **Anastasia Emmanouilidou**¹, Eleni Nikolakaki², Anastasia Politou^{1,3}, Thomais Papamarcaki^{1,3}

1. Laboratory of Biological Chemistry, Medical School, University of Ioannina

2. Laboratory of Biochemistry, Department of Chemistry, Aristotle University of Thessaloniki

3. Foundation for Research and Technology-Hellas/Biomedical Research Institute, Ioannina

OP45. AN EDITABLE HISTONE MODIFICATION PATTERN THAT MARKS AND CONFIGURES MITOTIC CHROMATIN

Yolanda Markaki^{1,3}, Anastasia Christogianni¹, George Papamokos², Anastasia S. Politou^{2,3}, Spyros D. Georgatos^{1,3}

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2. Laboratory of Biological Chemistry, School of Medicine, University of Ioannina

3. Foundation for Research and Technology -Hellas, Biomedical Research Institute



OP46. GENOME WIDE IDENTIFICATION OF HISTONE VARIANT MACROH2A TARGET GENETIC LOCI

Matthieu Lavigne, Evangelia Mantouvalou, Aggelos Banos, Dimitris Thanos
Center of Basic Research, Biomedical Research Foundation, Academy of Athens, Greece

OP47. EVOLUTION OF GENE EXPRESSION PROGRAMS BY ALTERING PROMOTER CHROMATIN ARCHITECTURE

Panagiotis Ntziachristos¹, Depy Papadopoulou¹, Apostolos Klinakis², Evangelia Mantouvalou¹, Argiris Efstratiadis², Dimitris Thanos¹

1. Center of Basic Research, Biomedical Research Foundation, Academy of Athens, Greece

2. Department of Genetics & Development, Columbia University, New York, United States

Chairmen: **G. Panayotou**, Biomedical Sciences Research Center, BSRC Al. Fleming and **M. Fragoulis**, National & Kapodistrian University of Athens

19:15-20:00 **Keynote Lecture 3:** "Tumor suppressor and tumor promoting pathways under the control of TGF- β ", **A. Moustakas**, Ludwig Institute for Cancer Research, Uppsala, Sweden

20:00-21:00 **Keynote Lecture 4:** "DNA damage and repair: from premature ageing and cancer to longevity", **J. Hoeijmakers**, Erasmus University, Rotterdam, The Netherlands

Sunday 9 December 2007

08:30-16:30 Registration

09:00-11:00 Session 8: Molecular Basis of Diseases

Chairmen: **A. Charonis, Biomedical Research Foundation of the Academy of Athens (BRFAA) and A. Tselepis, University of Ioannina**

Oral Presentations

OP48. NEOPLASTIC GROWTH AFTER TELOMERASE DEPLETION IS ACCOMPANIED BY ELEVATED TELOMERIC RECOMBINATION AND CHROMOSOMAL LOSSES OR NON-DISJUNCTIONS

Agni Christodoulidou, Christina Raftopoulou, Maria Chiourea, **Sarantis Gagos**
Laboratory of Genetics, Foundation for Biomedical Research of the Academy of Athens

OP49. ROLE OF HEPATITIS C VIRUS CORE+1 OPEN READING FRAME AND CORE CIS-ACTING RNA ELEMENTS IN VIRAL TRANSLATION AND REPLICATION

Niki Vassilaki¹, Peter Friebe², Glauca Paranhos-Baccala³, Penelope Mavromara¹, Ralf Bartenschlager²
1. Hellenic Pasteur Institute, Athens
2. Department of Molecular Virology, University of Heidelberg
3. Emerging Pathogens Department of BioMerieux

OP50. A NOVEL ROLE FOR HRC IN CARDIOMYOCYTE CA²⁺ CYCLING THROUGH INTERACTION WITH SERCA2

Demetrios A. Arvanitis¹, Elizabeth Vafiadaki¹, Guo-Chang Fan², Bryan A. Mitton², Kimberly N. Gregory², Federica Del Monte³, Aikaterini Kontrogianni-Konstantopoulos⁴, Evangelia G. Kranias^{1,2}, Despina Sanoudou¹
1. Molecular Biology Division, Biomedical Research Foundation of the Academy of Athens
2. Department of Pharmacology and Cell Biophysics, College of Medicine, University of Cincinnati
3. Department of Cardiology, Harvard Medical School, Massachusetts General Hospital
4. Department of Biochemistry and Molecular Biology, School of Medicine, University of Maryland Baltimore

OP51. HEPOXILIN A3 INDUCES COX-2 VIA NF-KB ACTIVATION AND PROMOTES INFLAMMATION

Maria-Patapia Zafiriou^{1,2}, Athanassia Sifaka-Kapadai¹, Santosh Nigam²
1. Department of Chemistry, University of Athens
2. Eicosanoid & Lipid Research Division and Centre for Experimental Gynecology & Breast Research, Charite-University Medical Centre Benjamin Franklin

OP52. ALTERED EXPRESSION OF CALRETICULIN DURING THE DEVELOPMENT OF FIBROSIS

Katerina P. Kypreou, Panagiotis Kavvadas, Panagiotis Karamessinis, Michalis Peroulis, Avra Alberti, Anna Agapaki, Paschalis Sideras, Stelios Psarras, Yasemie Capetanaki, Panagiotis K. Politis, Aristidis S. Charonis
Departments of Basic Research, Immunology and Experimental Surgery

OP53. PROTEOMIC ANALYSIS REVEALED DECREASED EXPRESSION OF ERP46 IN PANCREATIC BETA CELLS UNDER EXPOSURE TO HIGH GLUCOSE

Avra A. Aliberti, Panagiotis Karamessinis, Michalis Peroulis, Katerina D. Kypreou, Panagiotis K. Politis, Aristidis S. Charonis
Centre of Basic Research, Biomedical Research Foundation of the Academy of Athens

OP54. ENHANCED PROTEIN DEGRADATION OF THE GHR/JAK2 COMPLEX THROUGH THE PROTEASOMES AS A CAUSE OF ABNORMAL GH SIGNALING IN GH TRANSDUCTION DEFECT (GHTD)

Andrea Paola Rojas-Gil¹, Ioulia Karageorgou¹, Panos Ziros², Evthimia Basdra⁴, Dimitris Kletsas³, Athanasios G. Papavasiliou⁵, Bessie E Spiliotis¹
1. Pediatric Endocrine Research Laboratory, Department of Pediatrics
2. Department of Biochemistry University of Patras School of Medicine
3. Institute of Biology NCSR Demokritos
4. Department of Orthodontics, Aristotle University of Thessaloniki
5. Department of Biochemistry National and Kapodistrian University of Athens School of Medicine



OP55. PI 3-KINASE P110α IS A CRITICAL, BUT NOT INDISPENSABLE, REGULATOR OF CELL GROWTH AND METABOLISM

Lazaros Foukas

Centre for Cell Signalling, Institute of Cancer, Bart's and the London School of Medicine and Dentistry, Queen Mary University of London

OP56. KLK6 REVERSES THE TUMORIGENIC PROPERTIES OF MDA-MB-435P

Maria Arampatzidou¹, Georgios Pampalakis¹, Vassileios Zoumpourlis², Georgia Sotiropoulou¹

1. Department of Pharmacy, University of Patras

2. Division of Biotechnology, Institute of Biological Research and Biotechnology, National Hellenic Research Foundation

OP57. ERBB2/HER2 OVER-EXPRESSION MODIFIES THE SENSITIVITY OF BREAST CANCER CELLS TO ESTROGENS AND LEADS TO DEREGULATION OF THE CYCLIN D1 AND IEX-1 GENES: IMPLICATION FOR TAMOXIFEN RESISTANCE

Cedric Guedard, Yiota Mylona-Vidali, Dimitra J. Mitsiou, Mixalis N. Alexis

Molecular Endocrinology Programme, Institute of Biological Research and Biotechnology, National Hellenic Research Foundation, Athens, Greece

11:00-11:30

Coffee Break

11:30-13:30

Session 9: Immune System - Cell Cycle - Cellular Senescence

Chairmen:

A. Aletras, University of Patras and D. Kletsas, National Center for Scientific Research, Demokritos

11:30-12:00

Invited Lecture 4: "Novel immune-regulatory effects of osteopontin", V. Panoutsakopoulou, Biomedical Research Foundation of the Academy of Athens (BRFAA)

12:00-13:30

Oral Presentations

OP58. SINGLE AMINO ACID SUBSTITUTIONS OF RAD51 RECOMBINASE RESULT IN PROMINENT ALTERATIONS IN ITS SUB-CELLULAR LOCALIZATION AND CELL CYCLE PROGRESSION OF MAMMARY CARCINOMA CELLS

Effrossyni Boutou¹, Konstantinos Papadimitriou¹, Vassiliki Pappa², Horst-Werner Stuerzbecher³, Constantinos E. Vorgias¹

1. Department of Biochemistry & Molecular Biology, Faculty of Biology, National & Kapodistrian University of Athens

2. Second Department of Internal Medicine, Attikon University General Hospital

3. Molecular Cancer Biology Group, Institute of Pathology, UK-SH, Campus Luebeck

OP59. SPATIOTEMPORAL REGULATION OF THE REPLICATION PROTEIN CDT1 UPON DNA-DAMAGE

Vassilis Roukos¹, Panagiotis Kotsantis¹, Julien Colombelli², Ali Kinkhabwala^{2,3}, Stavros Taraviras⁴, Hideo Nishitani⁵, Ernst Stelzer², Philippe Bastiaens^{2,3}, Zoi Lygerou¹

1. Department of General Biology, Medical School, University of Patras, Rio, Patras, Greece

2. Cell Biology and Biophysics Unit, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany

3. Department of Systemic Cell Biology, Max Planck Institute of Molecular Physiology, Dortmund, Germany

4. Department of Pharmacology, School of Medicine, University of Patras, Rio, Patras, Greece

5. Department of Molecular Biology, Graduate School of Medical Science, Kyushu University, Higashi-Ku, Fukuoka, Japan

OP60. ROLE OF NF-KB SIGNALING PATHWAY IN REPLICATIVE AND OXIDATIVE STRESS-INDUCED SENESCENCE OF HUMAN DIPLOID FIBROBLASTS

Christina Batsi¹, Panagiotis Kanavaros², Kenneth B. Marcu³, Evangelos Kolettas¹

1. University of Ioannina, School of Medicine, Laboratory of Physiology, Cell and Molecular Physiology Unit, Ioannina
2. University of Ioannina, School of Medicine, Laboratory of Anatomy, Histology and Embryology
3. State University of New York At Stony Brook, Department of Biochemistry and Cell Biology

OP61. PARTIAL PROTEASOME INHIBITION TRIGGERS ACCELERATED M1 SENESCENCE AND/OR M2 CRISIS DEPENDING ON THE P53 AND RB STATUS IN HUMAN FIBROBLASTS

Niki Chondrogianni¹, Ioannis Trougakos¹, Dimitris Kletsas², Stathis Gonos¹

1. National Hellenic Research Foundation, Institute of Biological Research and Biotechnology
2. NCSR "Demokritos", Institute of Biology

OP62. KNOCK DOWN OF THE CYTOPROTECTIVE GENE APOLIPOPROTEIN J/CLUSTERIN TO ENHANCE CELL SENSITIVITY IN CANCER THERAPY

Ioannis P. Trougakos¹, Magda Lourda¹, Dimitris Kletsas², Vassilis G. Gorgoulis³, Stathis Gonos¹

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2. Laboratory of Cell Proliferation & Aging, Institute of Biology, National Centre for Scientific Research, "Demokritos", Athens, Greece
3. Department of Histology and Embryology, School of Medicine, University of Athens, Greece

OP63. STUDYING THE IN VIVO ROLE OF THE CELL CYCLE INHIBITOR GEMININ IN LYMPHOID SYSTEM DEVELOPMENT AND HOMEOSTASIS

Dimitrios Karamitros¹, Panoraia Kotandaki¹, Dimitris Kioussis², Zoi Lygerou³, Stavros Taraviras

1. Department of General Pharmacology, Medical School University of Patras, Greece
2. Division of Molecular Immunology, MRC National Institute for Medical Research, London, UK
3. Department of General Biology, Medical School University of Patras, Greece

OP64. IMPLICATION OF HYDROGEN PEROXIDE IN THE MOLECULAR MECHANISMS OF APOPTOTIC CELL DEATH

Christos Amorgianniotis, Alexandra Barbouti, Dimitrios Galaris

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

13:30-15:00 Poster Session 3 (PP136-PP205)

• **Developmental Biology (PP136-PP145)**

PP136. EXPRESSION PATTERN OF THE MATERNALLY IMPRINTED GENE GTL2 IN THE CNS DURING EMBRYONIC DEVELOPMENT AND ADULTHOOD

Lida Zoupi^{1,2}, Marina Vidaki^{1,2}, David McLaughlin^{1,2,3}, Domna Karagogeos^{1,2}

1. Department of Basic Science, University of Crete, Medical School, Iraklion, Greece
2. Institute of Molecular Biology & Biotechnology, Iraklion, Greece
3. UCD School of Biomolecular & Biomedical Science Conway Institute University College Dublin Belfield, Dublin, Ireland

PP137. FUNCTIONAL ANALYSIS OF THE TUBULOINTERSTITIAL NEPHRITIS ANTIGEN (TIN-AG)-RELATED PROTEIN HOMOLOG IN DROSOPHILA

Valeria Kaltezioti¹, Katerina Vakaloglou², Sophia Kossida³, Costas Paliakasis³, Aristidis S. Charonis¹, Christos G. Zervas²

1. Division of Histology, Biomedical Research Institute, Academy of Athens
2. Division of Genetics, Biomedical Research Institute, Academy of Athens
3. Division of Biotechnology, Biomedical Research Institute, Academy of Athens

PP138. THE ROLE OF SPHINGOLIPIDS, GLYCOLIPIDS AND PHOSPHOLIPIDS IN THE DROSOPHILA EPITHELIAL PERMEABILITY BARRIERS

Georgia Tsikala^{1,2}, Domna Karagogeos^{1,3}, Maura Strigini¹

1. IMBB/FORTH, Iraklio, Crete, Greece, 2. Biology Department, University of Crete, Iraklio, Crete, Greece
3. Medical School, University of Crete, Iraklio, Crete, Greece



PP139. THE KIDNEY HYPODISPLASIA OBSERVED IN MONOISOFORMIC RET51 ANIMALS MAY BE ASSOCIATED WITH IMPAIRED WT1 AND NEPHRIN EXPRESSION

Eleni Kotsopoulou¹, Fotini-Effie Tsilibary¹, Vassilis Pachnis², Garyfalia Drossopoulou¹

1. Institute of Biology, National Center for Scientific Research "Demokritos", Athens, Greece

2. Division of Molecular Neurobiology, MRC National Institute for Medical Research, the Ridgeway, Mill Hill, London, UK

PP140. TREHALOSE DEGRADATION DURING THE SYMBIOSIS OF LOTUS JAPONICUS WITH MESORHIZOBIUM LOTI STRAIN R7A

Afroditi Krokida, Maria Dimou, Catalina Stedel, Rodica C. Efroze, Panagiotis Krompas, Anastasia Venieraki, Emmanouil Flemetakis, Panagiotis Katinakis

Agricultural University of Athens, Department of Agricultural Biotechnology, Laboratory of Molecular Biology

PP141. STUDY OF THE BHLH GENE NSCL1 IN THE VERTEBRATE HINDBRAIN

Kostas Theodorakis^{1,2}, Markella Katidou^{1,2}, Katerina Doulgeraki¹, Anthony Gavalas³, Domna Karagogeos^{1,2}

1. University of Crete, Medical School, Department of Basic Science

2. Institute of Molecular Biology and Biotechnology

3. Foundation for Biomedical Research of the Academy of Athens

PP142. STUDIES ON SPATIAL AND TEMPORAL EXPRESSION OF C3 AND MAC COMPLEMENT GENES IN CHICKEN

Angeliki Mikrou, Ioannis K. Zarkadis

Department of Biology, School of Medicine, University of Patras

PP143. EXPRESSION OF TYPE I AND II DEIODINASE DURING EARLY DEVELOPMENT IN SEA BREAM (SPARUS AURATA)

Vera Szisch¹, Nikos Papandroulakis², Dimitris Tzamaras³, Michalis Pavlidis¹

1. University of Crete, Department for Biology

2. Hellenic Centre for Marine Research, Institute of Aquaculture

3. Institute for Molecular Biology and Biotechnology

PP144. NEW PARVIN FUNCTIONS IN DROSOPHILA DEVELOPMENT ?

Maria Chountala, Katerina Vakaloglou, Christos Zervas

Biomedical Research Institute, Academy of Athens, Division of Genetics, Athens, Greece

PP145. ILK: IN TIME, SPACE AND EVOLUTION

Eleni Psarra, Dionysia Petratou, Katerina Vakaloglou, Christos G. Zervas

Biomedical Research Institute, Academy of Athens, Division of Genetics, Athens, Greece

• **Systems Biology and Bioinformatics (PP146-PP150)**

PP146. COMPUTATIONAL BIOLOGY APPROACHES FOR UNDERSTANDING CANCER: APPLICATION TO ERBB PROTEIN FAMILY

Mouna Choura, Ahmed Fourati, Hanen Ben Hassen, Sami Aifa, **Ahmed Rebai**

Bioinformatics Unit, Centre Oo Biotechnology of Sfax

PP147. ELECTROCHEMICAL AND THERMAL ANALYSIS OF CANCEROUS AND NORMAL GENOMIC DNA AND PCR FRAGMENTS OF VARIABLE METHYL-CYTOSINE CONTENT

Andrea Ioannou¹, Despina Alexiadou¹, Stella Girousi¹, Katerina Fragou², Kostas Haitoglou², Georgios Tzimagiorgis², Anastasios Voulgaropoulos¹, Sofia Kouidou-Andreou²

1. Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University Thessaloniki, Greece

2. Laboratory of Biochemistry, Department of Medicine, Aristotle University Thessaloniki, Thessaloniki, Greece

PP148. THE MOG38-51 PEPTIDE AS CONTROL MODEL FOR DEVELOPING AN AB INITIO APPROACH TO DETERMINE MAJOR STRUCTURAL ASPECTS OF PHAGE-DERIVED PEPTIDES SELECTED BY MULTIPLE SCLEROSIS IGGS

Athina Kalaitzoglou¹, Ioannis Heliopoulos¹, Haritomeni Piperidou¹, Dimitrios Monos²

1. Democritus University of Thrace School of Medicine, University Hospital of Alexandroupolis Department of Neurology, Greece

2. University of Pennsylvania, School of Medicine and Department of Pathology and Laboratory Medicine, The Children's Hospital of Philadelphia, Department of Pediatrics, USA



PP149. COMPUTATIONAL ANALYSIS REVEALS A SIGNIFICANT ASSOCIATION OF CPG FREQUENCIES AND SPLICING POTENTIAL

A. Malousi, V. Koutkias, N. Maglaveras, **S. Kouidou**
Aristotle University of Thessaloniki, School of Medicine

PP150. TIME-COURSE MICROARRAY ANALYSIS OF TUMOR GENE EXPRESSION ASSOCIATED WITH CHEMOPREVENTION BY MASTIC OIL: PREDICTION OF PUTATIVE TARGET PATHWAYS

Olga Papadodima¹, Panagiotis Moulos¹, Aristotelis Chatziioannou¹, Heleni Loutrari², Charis Roussos², Fragiskos N. Kolisis¹

1. Metabolic Engineering and Bioinformatics Group, Institute of Biological Research and Biotechnology, National Hellenic Research Foundation

2. "G.P. Livanos and M. Simou Laboratories", Evangelismos Hospital, Department of Critical Care and Pulmonary Services, Medical School, University of Athens

• **Biotechnology (PP151-PP179)**

PP151. CLONING AND CHARACTERIZATION OF A HEAT SHOCK COGNATE GENE (HSC70) AND EXPRESSION ANALYSIS IN RESPONSE TO DIAPAUSES IN THE MOTH SESAMIA NONAGRIOIDES

Anna Kourti, Theodoros Gkouvitsas

Department of Agricultural Biotechnology, Agricultural University of Athens

PP152. CLONING AND CHARACTERIZATION OF THE HSP83 GENE, AND ITS EXPRESSION IN RESPONSE TO DIAPAUSES AND TERMAL STRESS IN THE MEDITERRANEAN CORN BORER SESAMIA NONAGRIOIDES

Anna Kourti, Theodoros Gkouvitsas

Department of Agricultural Biotechnology, Agricultural University of Athens

PP153. BI-ENZYME SYSTEM FOR THE GLUCOSIDATION/ESTERIFICATION OF NATURAL BIOACTIVE COMPOUNDS. THE CASE OF PERILLYL ALCOHOL

Epameinondas Xanthakis¹, Panos Mistriotis¹, Haralampos Stamatis², Fragiskos Kolisis¹

1. National Technical University of Athens, School of Chemical Engineering, Laboratory of Biotechnology

2. University of Ioannina, Department of Biological Applications and Technology, Laboratory of Biotechnology

PP154. THE EU-INTEGRATED PROJECT GEHA (GENETICS OF HEALTHY AGING) IN GREECE

Konstantinos G. Voutetakis, Aggeliki Skouteri, Stathis Gonos

National Hellenic Research Foundation, Institute of Biological Research and Biotechnology, Laboratory of Molecular and Cellular Aging

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Rania Anastasiou¹, Anastasios Aktypis¹, Marina Georgalaki¹, Marina Papadelli², Effie Tsakalidou¹

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2. Department of Agricultural Products Technology, Technological Education Institute of Kalamata

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Marina Georgalaki¹, Marina Papadelli², Elina Chassiotti¹, Rania Anastasiou¹, Bart Devreese³, Gonzalez Van Driessche³, Josef Van Beeumen³, Effie Tsakalidou¹

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Agricultural University of Athens, Department of Food Science and Technology, Laboratory of Dairy Research, Votanikos, Greece

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2. Department of Pharmacognosy & Chemistry of Natural Products, School of Pharmacy, National University of Athens

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Department of Pharmaceutical Sciences, Aristotle University

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Aglaia Pappa^{1,2}, Yuka Nakanishi¹, Mihalis I. Panayiotidis³, Nicholas H. Oberlies¹, Rajesh Agarwal⁴, David J. Kroll¹

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George Sourvinos¹, Nina Tavalai², Anja Berndt², Demetrios Spandidos¹, Thomas Stamminger²

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2. Institute for Clinical and Molecular Virology, University Hospital Erlangen, Erlangen, Germany

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George Sourvinos¹, Roger D. Everett²

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2. MRC Virology Unit, Glasgow, Scotland

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Despoina Vassou¹, Marilena Kampa¹, Anastasia Hatzoglou², Elias Castanas¹

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2. Université Paul Sabatier, Toulouse, France

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Marilena Kampa, Vassiliki Pelekanou, Despoina Vassou, Elias Castanas

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Thomais Markou¹, Danuta Cieslak¹, Catherine Gaitanaki², Antigone Lazou¹

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Laboratory of Animal Physiology, Department of Zoology, Faculty of Sciences, School of Biology, Aristotle University of Thessaloniki

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Elizabeth Fragopoulou, Tzortzis Nomikos, Haralabos C. Karantonis, Smaragdi Antonopoulou

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Eleftheria Letsiou¹, George Nakos², Marilena E. Lekka¹

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Xenia Koliou¹, George Nasioulas², Nikos Sakellaridis³, Dimitra Mangoura¹

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Evgenia Lampropoulou, Margarita Lamprou, Anastasia Parthymou, Evangelia Papadimitriou

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

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Elisavet Markatzinou¹, Vassiliki Galani², George Nakos², Panagiotis Kanavaros², Marilena E. Lekka¹

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Laboratory of Biology, School of Medicine University of Ioannina, Dourouti, Ioannina, Greece

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Maria Banou¹, Eleftheria Giannopoulou², Alexios J. Aletras¹

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PP204. HP1 PROVIDES A PLATFORM FOR THE RECRUITMENT OF MULTIPLE HISTONE KINASES

Vassiliki Lazani, Yolanda Markaki, **Spyros D. Georgatos**

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Aggeliki K. Meligova, Niki Chantzi, Sue Warrak, Dimitra J. Mitsiou, Michael N. Alexis

Institute of Biological Research and Biotechnology, National Hellenic Research Foundation

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Session 10: Transcription

Chairmen:

C. Sekeris, National Hellenic Research Foundation and **E. Tsilibary**, National Center for Scientific Research, Demokritos

15:00-15:30

Invited Lecture 5: "Identifying microRNAs and their targets",
A. Hatzigeorgiou, Biomedical Sciences Research Center, BSRC Al. Fleming

**15:30-16:30****Oral Presentations****OP65. CD40-INDUCED NF-KB SIGNALS STIMULATE DE NOVO SYNTHESIS OF THE TRANSCRIPTION FACTOR IRF-1 WHICH CO-OPERATES WITH NF-KB IN THE REGULATION OF THE TRANSPORTER FOR ANTIGEN PROCESSING (TAP1) EXPRESSION****Aristides Moschonas**¹, Maria Kouraki¹, Pauline Knox¹, Efi Thymiakou², Dimitris Kardassis², Aristides Eliopoulos¹

1. University of Crete Medical School, Molecular & Cellular Biology Laboratory

2. University of Crete Medical School, Laboratory of Biochemistry

OP66. NOVEL MECHANISM OF REGULATION OF HUMAN ABCA1 GENE EXPRESSION BY THE WINGED-HELIX/FORKHEAD TRANSCRIPTION FACTOR FOXA2 (HNF-3B)**Efstathia Thymiakou**, Dimitris Kardassis

Laboratory of Biochemistry, Department of Basic Sciences, University of Crete Medical School and Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology of Hellas, Heraklion, Crete, Greece

OP67. TRANSCRIPTIONAL REGULATION OF THE HUMAN HDL RECEPTOR SR-BI GENE IN THE LIVER AND STEROIDOGENIC TISSUES**Sofia Mavridou**¹, Christos Tsatsanis², Dimitris Kardassis^{1,3}

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3. Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology-Hellas, Heraklion, Greece

OP68. INHIBITION OF 2-OXOGLUTARATE-DEPENDENT OXYGENASES REPRESSES HEPCIDIN GENE EXPRESSION**Georgia G. Braliou**¹, Maria Vittoria Verga Falzacap², Georgia Chachami¹, Guillem Casanovas^{2,3}, Martina U. Muckenthaler^{2,3}, George Simos¹

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2. Molecular Medicine Partnership Unit

3. Department of Pediatric Oncology, Hematology and Immunology, University of Heidelberg, Germany

OP69. A NOVEL ROLE FOR THE S. CEREVISIAE RAD9 DNA DAMAGE CHECKPOINT PROTEIN IN METALLOREGULATED TRANSCRIPTION**Kalliopi Gkouskou**^{1, 2}, Alexandra Voutsina^{1, 3}, George S. Fragiadakis², Christos Andreadis^{1, 2}, Despina Alexandraki^{1,2}

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3. Laboratory of Tumor Cell Biology, School of Medicine, University of Crete

16:30-17:00**Awards and Prizes****17.00 -17.30****Closing Remarks by the Chairmen of the HSBMB and the Organizing Committee**

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Πανελλήνιο Συνέδριο
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