

Μέλη Δικτύου

- Karamanos Nikos (coordinator) – Professor, Biochemistry, Department of Chemistry, collaborating faculty member of FORTH
- Aletras Alexios - Assoc. Professor, Biochemistry, Department of Chemistry
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- Kallitsis Joannis – Professor, Polymer Science, Department of Chemistry and collaborating faculty member of FORTH
- Theocharis Achilleas – Assist. Professor, Biochemistry, Department of Chemistry
- Vynios Demetrios – Professor, Biochemistry, Department of Chemistry
- Galiotis Costas - Director of FORTH/ ICE-HT, Patras, Greece and Professor - Department of Materials Science
- Kostopoulos Basilis - Professor, Director of Applied Mechanics & Vibrations Lab. – Department of Mechanical Engineering and Aeronautics
- Mavrilas Dimosthenis – Assist. Professor, Biomechanics & Biomedical Engineering, Department of Mechanical Engineering & Aeronautics
- Panteliou Sofia – Assoc. Professor - Department of Mechanical Engineering & Aeronautics
- Tsitsilianis Constantinos – Professor, Polymer Science, Department of Chemical Engineering and collaborating faculty member of FORTH
- Gatzounis Georgios, Assist. Professor, Neurosurgery, Department of Medicine
- Georgakopoulos Konstantinos – Assoc. Professor, Ophthalmology, Department of Medicine
- Kalofonos Haralabos - Professor, Director of the Division of Oncology and Clinical Oncology Laboratory – Department of Medicine
- Makatsoris Thomas – Assist. Professor, Clinical Oncology, Department of Medicine
- Moschonas Nikos – Professor, Department of Medicine (associate of the network)
- Mouzaki Athanasia - . Professor, Immunohematology Laboratory, Department of Medicine
- Panagiotopoulos Elias – Professor, Orthopedic Surgery, Department of Medicine
- Antimisiaris Sophia – Professor, Department of Pharmacy, collaborating faculty member of FORTH
- Papadimitriou Evangelia – Assoc. Professor, Molecular Pharmacology, Department of Pharmacy

Για αίτηση συμμετοχής στο ερευνητικό δίκτυο παρακαλώ επικοινωνήστε με τον Νίκο Καραμάνο
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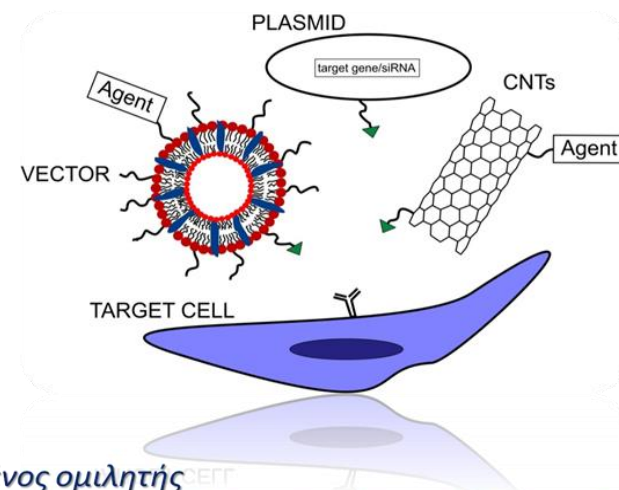
Πανεπιστήμιο Πατρών – University of Patras
Ερευνητικό δίκτυο Βιοϊατρικών και Βιοτεχνολογικών Εφαρμογών
Biomedical and Biotechnological Applications Research Network

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1^η Επιστημονική Ημερίδα Δικτύου

Βιοϊατρικές και Βιοτεχνολογικές Εφαρμογές με έμφαση στη φαρμακοστόχευση ασθενειών και τις εφαρμογές βιοσυμβατών υλικών στην Ιατρική

Συνεδριακό Κέντρο Πανεπιστημίου Πατρών
Αίθουσα Ι-12, Παρασκευή 5 Νοεμβρίου 2010



Προσκεκλημένος ομιλητής
Καθηγητής Mario Leclerc (University of Laval, Quebec, Canada)
Label-free optimal detection of DNA with conjugated polymers

Στο δίκτυο συμμετέχουν μέλη ΔΕΠ από τα Τμήματα Χημείας, Επιστήμης των Υλικών, Χημικών Μηχανικών, Μηχανολόγων Μηχανικών και Αεροναυπηγών, Ιατρικής και Φαρμακευτικής

Ιστοσελίδα: <http://www.biotargeting.upatras.gr/>

ΩΡΑ	ΘΕΜΑ	ΟΜΙΛΗΤΗΣ/ΕΣ
8:45	Εγγραφές	
<i>Προεδρείο: Ν. Καραμάνος, Σ. Αντιμησιάρη</i>		
9:00	Χαιρετισμοί	Πανεπιστήμιο Πατρών Γ. Παναγιωτάκης, Πρύτανης Δ. Καλπαξής, Αντιπρύτανης Χ. Κορδούλης, Κοσμήτορας Σχολής Θετικών Επιστημών Β. Κυριαζοπούλου, Κοσμήτορας Σχολής Επιστημών Υγείας Ν. Ανυφαντής, Κοσμήτορας Πολυτεχνικής Σχολής
9:15	Δομή και Στόχοι του ερευνητικού δικτύου	Ν. Καραμάνος, Εργαστήριο Βιοχημείας, Τμήμα Χημείας, Πανεπιστήμιο Πατρών, Συντονιστής του Δικτύου
9:30	Label-free optimal detection of DNA with conjugated polymers	Mario Leclerc, University of Laval, Quebec, Canada
10:15	Νανοσυστήματα για χορήγηση/στόχευση φαρμάκων	Σ. Αντιμησιάρη, Εργαστήριο Φαρμακευτικής Τεχνολογίας, Τμήμα Φαρμακευτικής, Πανεπιστήμιο Πατρών
10:30	Παρατεταμένη Απελευθέρωση Φαρμάκου μέσω Σχηματισμών Αντιστρεπτού Υδροπηκτώματος/Λιποσώματος	Κωνσταντίνος Τσιτσιλιάνης, Τμήμα Χημικών Μηχανικών, Πανεπιστήμιο Πατρών & ΙΤΕ-ΕΙΧΗΜΥΘ, Πάτρα
10:45	Η αναγκαιότητα για βιολογικές θεραπείες στην παραπληγία	Η. Παναγιωτόπουλος, Α. Αθανασόπουλος, Κλινική Αποκατάστασης Κακώσεων του Νωτιαίου Μυελού, Πανεπιστήμιο Πατρών
11:00	Καφές και Περιήγηση στις Αναρτημένες Ανακοινώσεις (Posters)	
<i>Προεδρείο: Χ. Καλόφωνος, Ε. Παπαδημητρίου</i>		
11:45	Ερευνητικές Δραστηριότητες για Στοχευμένες Θεραπείες στον καρκίνο	Χ. Π. Καλόφωνος, Ογκολογική Κλινική, Τμήμα Ιατρικής, Πανεπιστήμιο Πατρών
12:00	Στόχευση υποδοχέων, ενδοκυττάρων μορίων και μηχανισμών κυτταρικού θανάτου	Ε. Γιαννοπούλου, Εργαστήριο Κλινικής Ογκολογίας, Τμήμα Ιατρικής, Πανεπιστήμιο Πατρών

12:15	Καινοτόμοι μηχανισμοί που ενέχονται στην παθογένεια σαρκωμάτων, οστών και μαλακών μορίων	Δ. Παπαχρήστου, University of Pittsburgh, School of Medicine, Pittsburgh, PA, USA, και Τμήμα Ιατρικής, Πανεπιστήμιο Πατρών
12:30	Ρόλος της πλειοτροπίνης και του υποδοχέα της RPTPβ/ζ στη διαδικασία της αγγειογένεσης και της καρκινικής ανάπτυξης.	Ε. Παπαδημητρίου, Εργαστήριο Μοριακής Φαρμακολογίας, Τμήμα Φαρμακευτικής, Πανεπιστήμιο Πατρών
12:45	Ελαφρύ Γεύμα και Περιήγηση στις Αναρτημένες Ανακοινώσεις (Posters)	
<i>Προεδρείο: Ι. Καλλίτσης, Σ. Παντελιού</i>		
14:30	Πολυμερή και Νανοϋλικά για βιολογικές εφαρμογές	Ι. Καλλίτσης, Γ. Μπόκιος, Τμήμα Χημείας, Πανεπιστήμιο Πατρών
14:45	Ζωϊκό μοντέλο πρόκλησης αυχενικής σπονδυλωτικής μυελοπάθειας με την χρήση οργανικού πολυμερούς προς διερεύνηση παθογενετικών μηχανισμών της νόσου	Γ. Γκατζούνης, Νευροχειρουργική, Τμήμα Ιατρικής, Πανεπιστήμιο Πατρών
15:00	Μηχανική Παραμόρφωση γραφενίου και γραφενίου/πολυμερών νανουσυνθέτων	Κ. Γαλιώτης, ΙΤΕ-ΕΙΧΗΜΥΘ, Πάτρα
15:15	Η Τεχνική στην Υπηρεσία της Ιατρικής	Σ. Παντελιού, Εργαστήριο Στοιχείων Μηχανών, Τμήμα Μηχανολόγων και Αεροναυπηγών Μηχανικών, Πανεπιστήμιο Πατρών
15:30	Αλληλεπιδράσεις Κυττάρων Βιοϋλικών: Προσέγγιση Κατανόηση της Βιοσυμβατότητας στην Ιστοτεχνολογία	Γ. Αθανασίου, Εργαστήριο Εμβιομηχανικής και Βιοϊατρικής Τεχνολογίας, Τμήμα Μηχανολόγων και Αεροναυπηγών Μηχανικών, Πανεπιστήμιο Πατρών
15:45	Υποβάθμιση του Εξωκυττάρου Χώρου: Δεδομένα από τη Μελέτη του Λαρυγγικού και του Ορθοκολικού Καρκίνου	Δ. Βύνιος, Εργαστήριο Βιοχημείας, Τμήμα Χημείας, Πανεπιστήμιο Πατρών
16:00	Κλείσιμο Ημερίδας - Συμπεράσματα	

Αναρτημένες Ανακοινώσεις (Posters)

P01

Quinoline-labelled Water-soluble Copolymers: Structure control of the pH-responsive optical properties in aqueous solution

I. Thivaos, S. Kourkoulis, A. Stefanopoulos, G. Bokias, J. K. Kallitsis

Department of Chemistry, University of Patras, GR-26504 Patras, Greece

P02

Application of Quinoline-labelled Water-soluble Polymers for the Investigation of the Polyelectrolyte/Surfactant Complexation in Aqueous Solution¹.

I. Thivaos, G. Bokias

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P03

Implication of epidermal growth factor receptor activation in metalloproteinases expression, growth and migration of human colon cancer cells

Ch. Gialeli¹, D. Klefsas² and N. K. Karamanos¹

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²Laboratory of Cell Proliferation and Ageing, Institute of Biology, National Center of Scientific Research "Demokritos", Athens, Greece;

P04

Comparison of fluorophore-assisted carbohydrate electrophoresis, blyscan assay and capillary electrophoresis in the analysis of chondroitin sulfate

M.-I. Ellina, V. Zafeiropoulou, A.P. Asimakopoulou, Ch. Gialeli, C. Malavaki, N. K. Karamanos

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P05

Separation of different mers of hyaluronan by capillary zone electrophoresis

C. J. Malavaki¹, E. Mazarakioti¹, C. Markellou¹, A. Passi², N. K. Karamanos¹

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²Department of Experimental and Clinical Biomedical Sciences, University of Insubria, Varese, Italy

P06

Inhibition of cell proliferation, invasion and migration of breast cancer cells and pre-activation of pre-osteoclasts by zoledronate is related to its effects on syndecan-1, metalloproteinases and integrins

N. K. Karamanos¹, P. G. Dedes¹, A. I. Tsonis¹, Ch. Gialeli¹, D. Klefsas²

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P07

Estradiol as stimulator of suyndecn-4 gene expression in human breast and colon cancer cells

N. K. Karamanos, Ch. Gialeli, A. I. Tsonis

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P08

Increased expression of matrix metalloproteinase-9 and of urokinase plasminogen activator in testicular tumors

E. Milia-Argeiti¹, E. Huet², B. Vallé², V.T. Labropoulou³, S. Menashi², AD Theocharis¹

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² CRRET, University of Paris East, Creteil, France

³ Division of Oncology, School of Medicine, University of Patras, Greece

P09

EMMPRIN/C147 levels in testicular germ tumor cells in culture do not correlate with their MMP expression

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P10

Serglycin interacts with C1q subunit of the first complement component and inhibits the classical pathway

A. Skiris¹, K. Haponen², V. Lambropoulou³, M. Borset⁴, D. Heinegard⁵, A.M. Blom², A.D. Theocharis¹

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P11

The chondroitin/dermatan modifying enzymes in cancer: Expressional and epigenetic studies

D.Kalathas¹, I.E. Triantaphyllidou¹, D. Bounias², D. Kyriakopoulou², M. Stavropoulos², P. Goumas³, G. Tsiropoulos³, T. Papadas, N. Mastronikolis³, D.A. Theocharis⁴, N. Papageorgakopoulou¹, D.H Vynios¹

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P12

Versican and Decorin in Colorectal Carcinoma

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P13

Presence of hyaluronidase isoforms in nasal polyps

I. E. Triantaphyllidou¹, E. Tserbini¹, A. Hatzini¹, S. Athanassiou¹, T. Panogeorgou², H. Bouga¹, N.S. Mastronikolis², S. Naxakis², A. J. Aletras¹, P. D. Goumas², D. H. Vynios¹

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P14

Hyaluronan synthases and CD44 receptor in colorectal cancer

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P15

Glycosaminoglycan metabolic enzymes in cancer

I.E. Triantaphyllidou¹, E. Bouga¹, I. Tsouros¹, K. Kollipoulos¹, D. Bounias², D. Kyriakopoulou², M. Stavropoulos², P. Goumas³, G. Tsiropoulos³, T. Papadas³, N. Mastronikolis³, N. Papageorgakopoulou¹, D.A. Theocharis⁴, D.H. Vynios¹

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P16

The cAMP and TGF-β1 pathways suppress the IL-1β and TNF-α-induced production of matrix metalloproteinase-1 from nasal polyps fibroblasts, acting on the NO and PKC pathways

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P17

Proteasome inhibitors enhance the expression of proteasome subunits in nasal polyps fibroblasts

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P18

Study of proteasome implication in TGF-β1 and IGF-I effects on the production of IL-6, TIMP-1 and Type-I collagen by nasal polyps fibroblasts

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P19

Proteasome inhibitors enhance the expression of matrix metalloproteinase- 1 and -3 in nasal polyposis fibroblasts via reactive oxygen species and ap-1 activation

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P20

Macrophage migration inhibitory factor is produced from nasal polyposis fibroblasts by dexamethasone and attenuates the steroid-induced inhibition of IL-6 and TIMP-1 release

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P21

Fabrication and characterization of polymer nanocomposites based on carbon nanotube films

G. Trakakis¹, D. Tasis², K.Papagelis², J. Parthenios¹ and C. Galiotis^{1,2}

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P22

Nanostructured linear and star block copolymers and terpolymers based on polystyrene under tension and compression: Tailoring of the molecular parameters to mechanical behaviour

G. Linardatos¹, G. Tsoukleri^{2,4}, J. Parthenios^{2,4}, O. Montiselli⁵, S. Russo⁵, C. Galiotis^{2,3} and C. Tsitsilianis^{1,2}

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P23

Novel nanocomposites reinforced by vertically aligned carbon nanotubes

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P24

A smart intramedullary leg lengthening device (nail) using Shape Memory Alloy torsional actuators

S. Tsantalis, E. Panagiotopoulos and V. Kostopoulos

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P25

Curcumin-decorated nanosized liposomes : preparation by click chemistry and stability

S. Mourtas^a, A. Niarakis^a, C. Zona^b, D. Aurilia^b, B. La Ferla^b, F. Nicotra^b, S. G. Antimisiaris^{a,c}

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^bUniversity of Milano-Bicocca, Department of Biotechnology and Biosciences, Milano, Italy,

^c ICEHT-FORTH, Patras, 26500 Rio, Greece

P26

Iron nanoxide encapsulating nanosized liposomes: preparation and stability

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P27

Targeting the blood-brain barrier (bbb) with nanosized immunoliposomes. In vitro studies on a bbb cell culture model

E. Markoutsas¹, G. Pampalakis¹, A. Niarakis¹, I. A. Romero³, B. Weksler³, P-O Couraud³, S G. Antimisiaris^{1,2};

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P28

Effect of all-trans-retinoic acid and its conjugate with spermine on human endothelial and prostate cancer cell growth in vitro and angiogenesis in vivo

D. Vourtsis¹, E. Sadikoglou¹, O. Theodorakopoulou¹, C. Lampropoulou¹, G. Magoulas², D. Drainas³, D. Papaioannou² and E. Papadimitriou¹

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P29

Role of pleiotrophin in human prostate cancer cell growth in vivo

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³Department of Pharmacology, Faculty of Medicine, University of Thessaly, Larissa, Greece; ⁴Department of Pathology, Patras University Hospital, GR26500 Patras, Greece

P30

Cyclin-dependent kinase 5 interacts with RPTPβ/ζ and mediates pleiotrophin-induced endothelial cell migration

E.Lampropoulou¹, M. Hatziapostolou², S. Skandalis³, P. N. Tsihchlis², U. Hellman³, and E.Papadimitriou¹

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²Molecular Oncology Research Institute, Tufts Medical Center, Boston, MA 02111, USA; ³Ludwig Institute for Cancer Research, Uppsala University, Uppsala SE-751-05, Sweden

P31

Cell surface expression of nucleolin is maintained by α_vβ₃ integrin and is required for pleiotrophin-induced cell migration

M. Koutsioumpa¹, C.Mikelis¹, N. Kieffer², S.Skandalis³, U.Hellman³, C. Petrou⁴, V.Magafa⁴, P. Cordopatis⁴, and E. Papadimitriou¹

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P32

pH Responsive Reversible Hydrogel/Liposome Composites For Tuning Drug Release

Maria-Teodora Popescu¹, Spyridon Mourtas², Sophia G. Antimisiaris^{2,3}, Constantinos Tsitsilianis^{1,3}

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P33

Self Assembly and Morphology of pH-Sensitive Heteroarm Star Block Terpolymers in Aqueous Media"

Zacharoula Iatridi¹, Constantinos Tsitsilianis^{1,2}

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