



Υπό την Αιγίδα
Τμήμα Ιατρικής
Αριστοτέλειο Πανεπιστήμιο
Θεσσαλονίκης



21
200 ΧΡΟΝΙΑ
ΜΕΤΑ ΤΗΝ
ΕΠΙΛΕΥΣΗ
1821-2021

Διαδικτυακή
Επιστημονική Εκδήλωση
1821-2021



Χρόνια

Ελληνικός Κόσμος
& Νευροεπιστήμες

Web

Scientific Event

1821-2021: 200 years

Greek World
& Neurosciences

14-15

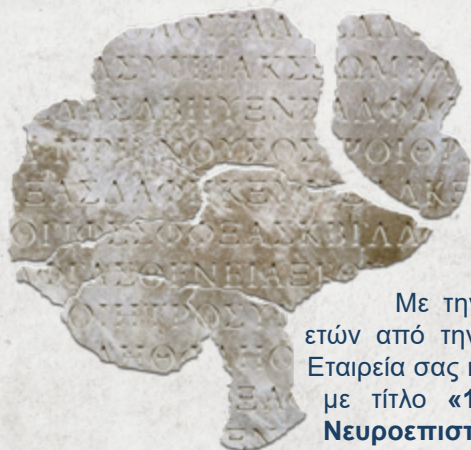
Μαΐου / May

2021

Ο ΟΡΚΟΣ ΤΟΥ ΙΠΠΟΚΡΑΤΗ
ΒΥΖΑΝΤΙΝΟ ΕΙΚΟΝΟΓΡΑΦΗΜΟΝ
ΧΕΙΡΟΓΡΑΦΟ ΤΟΥ 12^{ΟΥ} ΑΙΩΝΑ.
(ΦΙΛΙΟΘΗΚΗ ΤΟΥ ΠΑΤΡΙΑΡΧΟΥ /
BIBLIOTHECA VATICANA)

ΤΕΛΙΚΟ
ΠΡΟΓΡΑΜΜΑ

FINAL
PROGRAM



ΧΑΙΡΕΤΙΣΜΟΣ

ΟΡΓΑΝΩΤΙΚΗΣ ΕΠΙΤΡΟΠΗΣ

Αγαπητές/οι συνάδελφοι και συνεργάτες,
Φίλες και φίλοι,

Με την ευκαιρία της συμβολικής επετείου των διακοσίων ετών από την Επανάσταση του 1821, η Ελληνική Νευρολογική Εταιρεία σας καλωσορίζει στη διαδικτυακή επιστημονική εκδήλωση με τίτλο **«1821-2021: 200 χρόνια Ελληνικός Κόσμος και Νευροεπιστήμες»**, 14-15 Μαΐου 2021.

Η εκδήλωση τελεί υπό την Αιγίδα της Επιτροπής «Ελλάδα 2021» καθώς και του Τμήματος Ιατρικής του Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης.

Με πλήρη συναίσθηση της ιστορικά εμπεδωμένης οικουμενικότητας του Ελληνικού πολιτισμού και της συμβολής του στη διαμόρφωση του σύγχρονου κόσμου, η εκδήλωση αυτή είναι αφιερωμένη στους Ελληνικής καταγωγής επιστήμονες που υπηρετούν τις Νευροεπιστήμες στην Αλλοδαπή ως μέλη απόδημου ελληνισμού, αυτού που ορίζεται ως «Ελληνική Διασπορά».

Οι Έλληνες, είμαστε ένας από τους λαούς που γνώρισαν στην ιστορία τους διωγμούς, γενοκτονίες, ξεριζωμούς και αγώνες για ελευθερία, αυτοδιάθεση και πρόοδο. Από την άλλη, η νεότερη και σύγχρονη ελληνική ιστορία είναι συνυφασμένη με το φαινόμενο της Διασποράς. Μοιραία, δεν μπορούμε να αποφύγουμε αυθόρμητα αισθήματα υπερηφάνειας και ελπίδας με κάθε παράδειγμα ευημερίας και προόδου κάπου στον Κόσμο που έστω και κατ' ελάχιστον, μπορεί να παραπέμπει σε Ομογενειακή ταυτότητα ή προέλευση.

Πέρα ωστόσο από τους αναπόφευκτους λόγω της ιδιοσυστασίας μας ως λαού συναισθηματισμούς και ανεξάρτητα από το βαθμό στον οποίο καλλιεργήθηκαν δεσμοί συνεργασίας της Μητροπολιτικής Ελλάδας με τον Ελληνισμό της Διασποράς, η επιστήμη, ως σημαντικό συστατικό στοιχείο πολιτισμού, είναι πεδίο ανάπτυξης δημιουργικής σχέσεως και αμοιβαία επωφελούς πορείας.

Ως Ελληνική Νευρολογική Εταιρεία, φιλοδοξούμε η διαδικτυακή αυτή εκδήλωση, εκτός από την ανταλλαγή απόψεων σε επιστημονικές εξελίξεις, να αποτελέσει εφελκυστικό για περαιτέρω ανάπτυξη συνεργασίας και δεσμών με τους Ομογενείς συναδέλφους μας.

Επιπλέον, ευχαριστούμε θερμά τους ομιλητές και προέδρους της εκδήλωσης για τη συμμετοχή τους και την ουσιαστική συμβολή τους στη διαμόρφωση του προγράμματος.

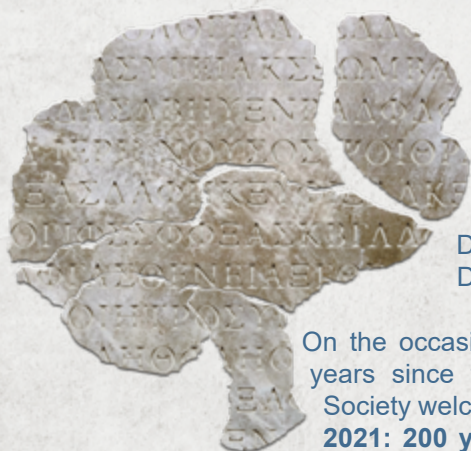
Με ιδιαίτερη εκτίμηση
Εκ μέρους του ΔΣ της ΕΝΕ

Ο Πρόεδρος

Νικόλαος Γρηγοριάδης
Καθηγητής Νευρολογίας ΑΠΘ

Ο Γενικός Γραμματέας

Κωνσταντίνος Βαδικόλιας
Καθηγητής Νευρολογίας ΔΠΘ



WELCOME ADDRESS

Dear colleagues and partners,
Dear friends,

On the occasion of the symbolic anniversary of the two hundred years since the Revolution of 1821, the Hellenic Neurological Society welcomes you to the online scientific event entitled **"1821-2021: 200 years of the Greek World and Neurosciences"** on May, 14th -15th, 2021.

With full awareness of the historically established ecumenical character of the Greek civilization and its contribution to the formation of the modern world, this event is dedicated to scientists of Greek descent who serve Neurosciences abroad as members of the so-called "Greek Diaspora". Modern Greek history is intertwined with the phenomenon of the Diaspora.

Greeks, like any other people, especially those who have experienced persecution, genocide, and struggles for freedom and self-determination, cannot avoid spontaneous feelings of pride and hope with every case of prosperity and progress somewhere in the world with even a least referral to Greek identity or origin.

However, apart from the inevitable emotions due to our identity as a nation and regardless of the degree to which ties of cooperation between Metropolitan Greece and the Hellenism of the Diaspora were cultivated, science, as an important component of culture, is a field of creative relationship and mutually beneficial path. As HSN, we aspire for the online event, in addition to our information on scientific developments, to be a clear message of such a vision in Neurology and Neuroscience in Greece in a highly competitive and demanding global environment.

Finally, we would like to thank all speakers and chairs for their participation and essential contribution in the format of the scientific program.

Sincerely yours,
On behalf of the Board of the HNS

Nikolaos Grigoriadis
Professor of Neurology
HNS Board of Directors President

Konstantinos Vadikolias
Professor of Neurology
HNS Board of Directors Gen. Secretary

14-15 Μαΐου/May 2021

ΕΠΙΤΡΟΠΕΣ / COMMITTEES

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ΑΝΤΙΠΡΟΕΔΡΟΙ /
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KONSTANTINOS KILINTIREAS

ΝΙΚΟΛΑΟΣ ΤΡΙΑΝΤΑΦΥΛΛΟΥ
NIKOLAOS TRIANTAFYLLOU

14-15 Μαΐου/May 2021

ΠΡΟΓΡΑΜΜΑ / PROGRAM

Παρασκευή 14 Μαΐου 2021 | Friday, May 14th 2021

12.45-13.00 Καλωσόρισμα / Welcome address

13.00-13.30 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Δ. Καραγωγέως, Α. Παπαλόης**
D. Karagogeos, A. Papalois

Μακρομοριακά συγκροτήματα μεμβράνης ως φαρμακευτικοί στόχοι
Macromolecular membrane assemblies as drug targets

Δ. Λογοθέτης, ΗΠΑ
D. Logothetis, USA

13.30-13.40 Συζήτηση/Discussion

13.40-14.10 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Λ. Στεφανής, Σ. Κονιτσιώτης**
L. Stefanis, S. Konitsiotis

Σύνδρομο ανήσυχων άκρων
Restless legs syndrome

Γ. Χατζηγεωργίου, Κύπρος
G. Hadjigeorgiou, Cyprus

14.10-14.20 Συζήτηση/Discussion

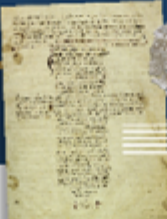
14.20-14.50 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Ι. Ελλούλ, Θ. Τέγος**
I. Elloul, Th. Tegos

Γενετική των ΑΕΕ στην εποχή των - omics: κλινικές επιπτώσεις και ανακάλυψη φαρμακευτικών στόχων
Genetics of stroke in the omics era: clinical implications and drug target discovery

Μ. Γεωργάκης, Γερμανία
M. Georgakis, Germany

14.50-15.00 Συζήτηση/Discussion



1821-2021

20 Χρόνια
200 years

Διαδραστική Επιστημονική Εκδήλωση
Ελληνικός Κόσμος & Νευροεπιστήμες

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YOU TALK ABOUT
THE SCIENTISTS

21
200 STUDENTS
WITH THE
BRANDSTADT
UNIVERSITY

14-15 Μαΐου/May 2021

ΠΡΟΓΡΑΜΜΑ / PROGRAM

15.00-15.30 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: Π. Πρασόπουλος, Γ. Παρασκευάς
P. Prassopoulos, G. Paraskevas

Μέθοδοι τεχνητής νοημοσύνης για έγκαιρη διάγνωση και πρόβλεψη της έκβασης σε κλινικές νευροεπιστήμες: από τη γήρανση του εγκεφάλου και τη νόσο του Alzheimer, έως τις νευροψυχιατρικές διαταραχές, έως τον καρκίνο του εγκεφάλου
Artificial intelligence methods for early diagnosis and prediction of outcome in clinical neurosciences: from brain aging and Alzheimer's disease, to neuropsychiatric disorders, to brain cancer

Χ. Δαβατζίκος, ΗΠΑ
Ch. Davatzikos, USA

15.30-15.40 Συζήτηση/Discussion

15.40-16.10 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: Ι. Ηλιόπουλος, Π. Σιδεράς
I. Heliopoulos, P. Sideras

Θεραπευτική σχετιζόμενη με το συμπλήρωμα: μικρο-αντιλήψεις, μύθοι και νέα αντίληψη
Complement therapeutics: microconceptions, myths, and novel insight

Ι. Λάμπρης, ΗΠΑ
J. Lambris, USA

16.10-16.20 Συζήτηση/Discussion

16.20-16.50 Διάλειμμα/Break

16.50-17.20 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: Ν. Φόρογλου, Κ. Φουντάς
N. Foroglou, K. Fountas

ΑΕΕ, έχει κάποιο ρόλο η χειρουργική;
Stroke, is there a role for surgery?

Χ. Τόλιας, Ηνωμένο Βασίλειο
Ch. Tolias, UK

17.20-17.30 Συζήτηση/Discussion



1821-2021



14-15 Μαΐου/May 2021

ΠΡΟΓΡΑΜΜΑ / PROGRAM

17.30-18.00 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Ν. Γρηγοριάδης, Δ. Μητσικώστας**
N. Grigoriadis, D. Mitsikostas

Βρόχοι ανατροφοδότησης που συνδέουν περιφερικά όργανα μέσω νέων ορμονών με τον εγκέφαλο: επιπτώσεις στη νευροενδοκρινική ρύθμιση, το μεταβολισμό και τα νευροεκφυλιστικά νοσήματα
Feedback loops linking peripheral organs through novel hormones with the brain: implications in neuroendocrine regulation, metabolism, and neurodegenerative disorders

Χ. Μαντζώρος, ΗΠΑ
Ch. Mantzoros, USA

18.00-18.10 Συζήτηση/Discussion

18.10-18.40 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Δ. Καραγωγέας, Μ. Σπηλιώτη**
D. Karagogeos, M. Spilioti

Εξέταση του φλοιικού συγχρονισμού στις αφαιρετικές επιληπτικές κρίσεις: μαθήματα από το μοντέλο ποντικού stargazer
Examining cortical synchronization in absence epilepsy: lessons from the stargazer mouse model

Σ. Σμυρνάκης, ΗΠΑ
S. Smirnakis, USA

18.40-18.50 Συζήτηση/Discussion

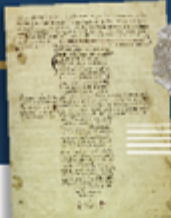
18.50-19.20 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Ε. Καπάκη, Π. Ιωαννίδης**
E. Karaki, P. Ioannidis

Νεανικοί εγκέφαλοι σε ηλικιωμένους ενήλικες: ποια είναι τα μυστικά των υπερηλίκων;
Youthful brains in older adults: what are the secrets of the super agers?

Α. Τουρούτογλου, ΗΠΑ
A. Touroutoglou, USA

19.20-19.30 Συζήτηση/Discussion



1821-2021



Διαδικτυακή Επιστημονική Εκδήλωση
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YOU ARE HERE
THE NEUROSCIENCE



14-15 Μαΐου/May 2021

ΠΡΟΓΡΑΜΜΑ / PROGRAM

19.30-21.00 Τελετή Εναρξης/Opening Ceremony

19.30-20.00 Χαιρετισμοί/Greetings

N. Γρηγοριάδης, Πρόεδρος ΕΝΕ

N. Grigoriadis, President of the Hellenic Neurological Society

Γιάννα Αγγελοπούλου-Δασκαλάκη, Πρόεδρος της Επιτροπής «Ελλάδα 2021»

Gianna Angelopoulos-Daskalaki, President of the "Greece 2021" Committee

Κυριάκος Αναστασιάδης, Πρόεδρος Ιατρικού Τμήματος ΑΠΘ

Kyriakos Anastasiadis, Head of the School of Medicine,

Aristotle University of Thessaloniki

Θεόδωρος Δαρδαβέσης, Κοσμήτορας Σχολής Επιστημών Υγείας ΑΠΘ

Theodoros Dardavesis, Dean of the School of Health Sciences,

Aristotle University of Thessaloniki

Νικόλαος Παπαϊωάννου, Πρύτανης ΑΠΘ

Nikolaos Papaioannou, Rector of the Aristotle University of Thessaloniki

Γεώργιος Γ. Χωριάτης, Ανώτατος Πρόεδρος, ΑΧΕΠΑ ΕΛΛΑΣ

Georgios G. Horiates, Supreme President, ΑΗΕΡΑ HELLAS

Ιωάννης Χρυσουλάκης, Γενικός Γραμματέας Δημόσιας Διπλωματίας και
Αποδήμου Ελληνισμού, Υπουργείο Εξωτερικών

Ioannis Chrysoulakis, The Secretary General for Public Diplomacy and
Greeks Abroad, Ministry of Foreign Affairs, Hellenic Republic

20.00-21.00 Εναρκτήριες Διαλέξεις / Opening Ceremony Lectures

20.00-20.15 Προεδρείο/Chair: **Κ. Βουμβουράκης, Ν. Παπαβραμίδου**
K. Voumnourakis, N. Papavramidou

Οι νευροεπιστήμες στην Ελλάδα: 200 χρόνια συναρπαστικών εξελίξεων
Neurosciences in Greece: 200 years exciting developments

Μαριάννα Καραμάνου

Marianna Karamanou

20.15-21.00 Προεδρείο/Chair: **Ν. Γρηγοριάδης, Κ. Βαδικόλιας**
N. Grigoriadis, K. Vadikolias

Εκτιμώντας το ανεκτίμητο: βιοφαρμακευτική καινοτομία στη Νόσο
Alzheimer

Pricing the priceless: biopharma innovation in Alzheimer's disease

Στέλιος Παπαδόπουλος

Stelios Papadopoulos



1821-2021

20 Χρόνια
200 years

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100 THE AUTHORS
THE AUTHORS

100 STORIES
FROM THE
PAST

14-15 Μαΐου/May 2021

ΠΡΟΓΡΑΜΜΑ / PROGRAM

Σάββατο 15 Μαΐου 2021 | Saturday, May 15th 2021

09.00-09.30 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Κ. Κυλιντηρέας, Μ. Μποζίκι**
K. Kilintireas, M. Boziki

Στοχευμένη απελευθέρωση της πρωτεΐνης NgR-Fc για την ενίσχυση της νευροαποκατάστασης σε μοντέλο πολλαπλής σκλήρυνσης
Targeted delivery of the NgR-Fc protein to enhance neurorepair in a model of multiple sclerosis

Σ. Πετράτος, Αυστραλία
S. Petratos, Australia

09.30-09.40 Συζήτηση/Discussion

09.40-10.10 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Γ. Τσιβγούλης, Κ. Βαδικόλιας**
G. Tsivgoulis, K. Vadikolias

Σύγχρονη προσέγγιση του neuromonitoring στη νευροεντατική μονάδα
Modern approach of neuromonitoring in the neurointensive unit

Κ. Δημητριάδης, Γερμανία
K. Dimitriadis, Germany

10.10-10.20 Συζήτηση/Discussion

10.10-10.50 ΔΙΑΛΕΞΗ / LECTURE

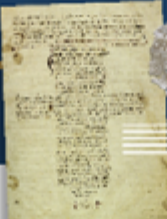
Προεδρείο/Chair: **Μ. Αρναούτογλου, Δ. Κάζης**
M. Arnaoutoglou, D. Kazis

Εφαρμογές των επαγόμενων πολυδύναμων στελεχειαίων κυττάρων και τεχνολογιών επαναπρογραμματισμού στην έρευνα των νευρολογικών νόσων: μελέτη περιπτώσεων πλαγίας μυατροφικής σκλήρυνσης και παιδιατρικής επιληψίας

Application of iPSCs and reprogramming technologies to the investigation of neurological diseases: a case study in ALS and pediatric epilepsy

Ε. Κισκίνης, ΗΠΑ
E. Kiskinis, USA

10.50-11.00 Συζήτηση/Discussion



1821-2021



14-15 Μαΐου/May 2021

ΠΡΟΓΡΑΜΜΑ / PROGRAM

11.00-11.30 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Κ. Βουμβουράκης, Ε. Ευαγγελοπούλου**
K. Voumvourakis, E. Evangelopoulou

Πρόοδος στις κυτταρικές θεραπείες για νευροαναγέννηση σε
νευρολογικές νόσους
Progress of cell therapies for neuroregeneration in neurological
diseases

Δ. Καρούσης, Ισραήλ
D. Karussis, Israel

11.30-11.40 Συζήτηση/Discussion

11.40-12.10 Διάλειμμα / Break

12.10-12.40 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Σ. Γιαννόπουλος, Θ. Καραπαναγιωτίδης**
S. Giannopoulos, Th. Karapanagiotidis

Διακρανιακό υπερηχογράφημα εγκεφαλικού παρεγχύματος - κλινικές
και επιστημονικές εφαρμογές στη νευρολογία & νευροψυχιατρική
Cerebral parenchyma transcranial doppler- clinical and scientific
applications in neurology & neuropsychiatry

Χ. Κρόγιας, Γερμανία
Ch. Krogias, Germany

12.40-12.50 Συζήτηση/Discussion

12.50-13.20 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Λ. Στεφανής, Ν. Σκαρμέας**
L. Stefanis, N. Scarmeas

Η νόσος του Alzheimer: μια παγκόσμια πρόκληση χρήζει λύσεων
Alzheimer's disease: a global challenge in need of solutions

Λ. Μίντλετον, Ηνωμένο Βασίλειο
L. Middleton, UK

13.20-13.30 Συζήτηση/Discussion



1821-2021



14-15 Μαΐου/May 2021

ΠΡΟΓΡΑΜΜΑ / PROGRAM

13.30-14.00 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Δ. Ζαφειρίου, Ε. Χρόνη**
D. Zafiriou, E. Chroni

Νωτιαία μυϊκή ατροφία: επικαιροποίηση θεραπείας
Spinal muscular atrophy: therapeutics update

Β. Δάρρας, ΗΠΑ
B. Darras, USA

14.00-14.10 Συζήτηση/Discussion

14.10-14.40 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Κ. Κυλιντηρέας, Γ. Δερετζή**
K. Kilintireas, G. Deretzi

Διερεύνηση της ανοσολογικής βάσης της νευρολογικής νόσου
Exploring the immunological basis of neurological disease

Δ. Μόνος, ΗΠΑ
D. Monos, USA

14.40-14.50 Συζήτηση/Discussion

14.50-15.20 Διάλειμμα / Break

15.20-15.50 ΔΙΑΛΕΞΗ / LECTURE

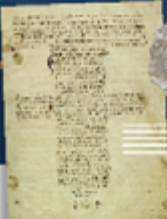
Προεδρείο/Chair: **Ι. Μυλωνάς, Π. Παπαθανασόπουλος**
I. Milonas, P. Parathanasopoulos

Εξελιγμένες έννοιες της σκλήρυνσης κατά πλάκας με την πάροδο των ετών

Evolving concepts of multiple sclerosis over the years

Λ. Κάππος, Ελβετία
L. Karpos, Switzerland

15.50-16.00 Συζήτηση/Discussion



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ΠΡΟΓΡΑΜΜΑ / PROGRAM

16.00-16.30 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **A. Ορολογάς, B. Κιμισκίδης**
A. Orologas, V. Kimiskidis

Γιατί η ψυχολογία έχασε την ψυχή της
Why psychology lost its soul

Γ. Παξινός, Αυστραλία
G. Paxinos, Australia

16.30-16.40 Συζήτηση/Discussion

16.40-17.10 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Π. Μήτσιας, Γ. Τσιβγούλης**
P. Mitsias, G. Tsvigoulis

Πώς πιστεύουμε ότι η ακαδημαϊκή νευρολογία θα εξελιχθεί στο εγγύς μέλλον

How we believe academic neurology will evolve in the near future

Π. Βαρελάς, ΗΠΑ
P. Varelas, USA

17.10-17.20 Συζήτηση/Discussion

17.20-17.50 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Ι. Ηλιόπουλος, Χ. Αλεξόπουλος**
I. Heliopoulos, Ch. Alexopoulos

Παρανεοπλασματικά νευρολογικά σύνδρομα
Paraneoplastic neurological syndromes

A. Ζεκερίδου, ΗΠΑ
A. Zekeridou, USA

17.50-18.00 Συζήτηση/Discussion

18.00-18.30 **Διάλειμμα / Break**



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ΠΡΟΓΡΑΜΜΑ / PROGRAM

18.30-19.00 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Ε. Δαρδιώτης, Γ. Κούτσης**
E. Dardiotis, G. Koutsis

Τριάντα-τρία χρόνια μεταφραστικής νευρογενετικής στην Κύπρο
Thirty-three years of translational neurogenetics in Cyprus

Κ. Χριστοδούλου, Κύπρος
K. Christodoulou, Cyprus

19.00-19.10 Συζήτηση/Discussion

19.10-19.40 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Δ. Παρίσης, Γ. Ρούντολφ**
D. Parisis, J. Rudolf

Πρόσφατες εξελίξεις στην εγκεφαλική αμυλοειδική αγγειοπάθεια
Recent advances in cerebral amyloid angiopathy

Α. Χαριδήμου, ΗΠΑ
A. Charidimou, USA

19.40-19.50 Συζήτηση/Discussion

19.50-20.20 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Δ. Καραγωγέως, Σ.-Ε. Πελίδου**
D. Karagogeos, S.-E. Pelidou

Μικρογλοία και μακροφάγα σε υψηλής διαφοροποίησης γλοίωμα
Microglia and macrophages in high grade glioma

Σ.-Ε. Τσίρκα, ΗΠΑ
S.-E. Tsirka, USA

20.20-20.30 Συζήτηση/Discussion

20.30-21.00 ΔΙΑΛΕΞΗ / LECTURE

Προεδρείο/Chair: **Ε. Κουτσοράκη, Γ. Ξηρομερήσιου**
E. Koutsouraki, G. Xiromerisiou

Από τα γονίδια στα φάρμακα: το τόξο της ανακάλυψης
From genes to medicines: the arc of discovery

Α. Γρέκα, ΗΠΑ
A. Greka, USA

21.00-21.10 Συζήτηση/Discussion

ΠΡΟΛΟΓΙΑ ΑΣΔ
ΘΔΣΥΤΕΙΑΚΣΕΩΜΑ
ΣΔΑΣΔΒΗΥΕΝΒΑΔΦΔ

ΠΡΟΣΚΕΚΛΗΜΕΝΟΙ
ΟΜΙΛΗΤΕΣ / ΣΑΔΑΣΔ

FACULTY ΜΧΖΛΨΚΒ

ΔΕΑΣΔΑΦΗΚΕΥΦ

ΟΓΙΦΣΣΦΦΕ

ΦΤΑΣΦΕΝΕ

ΡΟΣ

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100 THE AUTHORS
THE EDITORS

 100 STYLIA
100 STYLIA
100 STYLIA

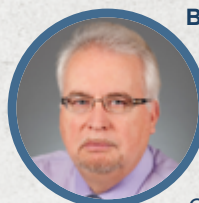
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Dr **Andreas Charidimou** is a post-doctoral clinical research fellow at the Hemorrhagic Stroke Research Program, Massachusetts General Hospital, Harvard Medical School, US. He is also a neurology resident and clinical instructor of neurology at the Neurology Department of the Boston University Medical Centre, Boston University School of Medicine, US. He was trained at the UCL Institute of Neurology, and The National Hospital for Neurology and Neurosurgery, Queen Square, London (UK), where he completed his post-graduate and PhD studies, after graduating from the Medical School of the National and Kapodistrian University of Athens, Greece. His career as a physician-scientist focuses on clinical neuroimaging aspects of spontaneous intracerebral hemorrhage, cerebral amyloid angiopathy and other forms cerebral small vessel disease. He has been fortunate to design and continue to lead international projects at the cutting edge of research in cerebral amyloid angiopathy and cerebral small vessel disease, including the International META-MICROBLEEDS Initiative (aiming for rapid evidence synthesis on the clinical significance of cerebral microbleeds), the International CAA Association Boston Criteria Study Group (an international effort to refine and improve the diagnostic criteria for cerebral amyloid angiopathy-CAA) and the Siderosis Working Group (validating cortical superficial siderosis as the strongest marker for future brain hemorrhage).

medical genetics and translational research. She has set up and offers ISO 15189 accredited molecular diagnostic services for a wide range of neurogenetic diseases. She participated as a principal or co-investigator in 37 research projects with a total funding of over 6.0 million Euros allocated to CING. She is an author of 90 peer reviewed publications and 2 book chapters. Through her research activities she mapped several rare disease genes and contributed towards the identification of a number of neurogenetic disease genes. She mentored and supervised several MSc and PhD students. She is the coordinator of the Medical Genetics postgraduate programme at the Cyprus School of Molecular Medicine.



Basil T. Darras, MD, is the Joseph J. Volpe Professor of Neurology at Harvard Medical School. At Boston Children's Hospital, Dr. Darras is Associate Neurologist-in-Chief and Chief of the Division of Clinical Neurology. He is Director of Boston Children's Neuromuscular Center, which includes one of the oldest and most active Muscular Dystrophy Association clinics in the country. Dr. Darras is a pediatric neurologist with advanced training and certification in human genetics and neuromuscular medicine. His primary research focus is in the field of pediatric neuromuscular disorders. His specific research interests and major publications have focused on the molecular genetics, diagnostics, and therapeutics of Duchenne/Becker muscular dystrophies and spinal muscular atrophy (SMA), and on defining the indications for new diagnostic methodologies in the evaluation of children with pediatric neuromuscular diseases. His clinical focus is the care of children with neuromuscular conditions originating from inherited or acquired conditions of the motor unit. He is Principal Investigator for the Boston Children's site of NIH's NeuroNEXT clinical research network; for the Pediatric Neuromuscular Clinical



Professor **Kyproula Christodoulou** is a Senior Scientist and Head of the Neurogenetics Department of the Cyprus Institute of Neurology and Genetics (CING). She is employed at the CING since January 1989. She has over 30 years of experience in



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Research (PNCr) Network, originally funded by the SMA Foundation and CureSMA; and for trials testing novel treatments for SMA, including the clinical trials for Spinraza® (nusinersen) and Zolgensma® (onasemnogene abeparvovec-xioi), approved by the FDA as the first two treatments for SMA, and for Evrysdi™ (risdiplam), recently approved as the third treatment. He receives frequent invitations to lecture at national and international meetings on topics related to his expertise in neuromuscular disorders and genetics. He has published over 240 original reports in peer-reviewed journals and over 80 chapters, reviews and editorials. He is Editor-in-Chief for the second edition of Neuromuscular Disorders of Infancy, Childhood, and Adolescence: A Clinician's Approach, published by Elsevier in 2015, and served as Editor of the section on Neuromuscular Disorders in the sixth edition of Volpe's Neurology of the Newborn (Elsevier, 2018).



Christos Davatzikos is the Wallace T. Miller Sr. Professor of Radiology at the University of Pennsylvania, and Director of the Center for Biomedical Image Computing and Analytics. He holds a secondary appointment

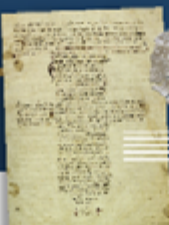
in Electrical and Systems Engineering at Penn as well as at the Bioengineering an Applied Mathematics graduate groups. He obtained his undergraduate degree by the National Technical University of Athens, Greece in 1989, and his Ph.D. degree from Johns Hopkins, in 1994, on a Fulbright scholarship. He then joined the faculty in Radiology and later in Computer Science, where he founded and directed the Neuroimaging Laboratory. In 2002 he moved to Penn, where he founded and directed the section of biomedical image analysis. Dr. Davatzikos' interests are in medical image analysis. He oversees a diverse research program ranging from basic problems of imaging pattern analysis and machine learning, to a variety of clinical studies of aging and Alzheimer's Disease, schizophrenia, brain

cancer, and brain development. Dr. Davatzikos has served on a variety of scientific journal editorial boards and grant review committees. He is an IEEE fellow, a fellow of the American Institute for Medical and Biological Engineering, and member of the council of distinguished investigators of the US Academy of Radiology and Biomedical Imaging Research.



Konstantinos Dimitriadis was born and raised in Athens. Moved to Munich/Germany for medical Studies at Ludwig Maximilians University (LMU), University-of-Chicago and University-of-Sevilla. Training for the specialty in Neurology took

place at the department of Neurology at LMU. Through a fellowship for neurocritical care he subspecialized in Intensive-Care-Medicine in 2016 and worked as ward physician of the Neurologic-ICU at LMU since then. Since 05/2020 he was promoted to Attending at the Institute-for-Stroke-and-Dementia research (ISD), responsible for the Stroke Unit and clinical trials. Simultaneously he performed an MBA at Munich Business School and a Double Degree (MA, MSc) in health economics and public policy at LSE and University of Chicago Harris School of Public Policy. After a doctoral thesis about the expression of Tissue factor in endothelial cells, he obtained his Habilitation on medical education research. In the past years his research interest shifted to neurocritical care and Stroke clinical studies.



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Marios Georgakis graduated from the Medical School of the National and Kapodistrian University of Athens in 2015 and completed Master studies in Neurosciences and doctoral studies in Epidemiology at the same University. Since 2017, he is settled in Munich, Germany, where he completed his PhD studies in Neuroepidemiology with a focus on Stroke Genetics (Institute for Stroke and Dementia Research of the Ludwig-Maximilian-University, LMU Munich, 2020). He is currently pursuing his clinical training in Neurology along with postdoctoral research. His research is focused on the genetic and clinical epidemiology of cerebrovascular disease. His interests include the use of large-scale human genetic data to identify causal risk factors and novel therapeutic targets for stroke and cerebral small vessel disease and the translational potential of polygenic risk scores in informing clinical decision making.



Anna Greka is an institute member of the Broad Institute of MIT and Harvard, where she leads a program focused on dissecting basic molecular and cellular mechanisms that may ultimately serve as the foundation for the development of targeted therapies. She is an associate professor at Harvard Medical School (HMS), and an associate physician in the Renal Division in the Department of Medicine at Brigham and Women's Hospital. The mission of the Greka laboratory is to define fundamental aspects of membrane protein biology and dissect mechanisms of cellular homeostasis. The laboratory complements this cell biology-focused program with tools from molecular biology, genomics, proteomics, and chemical biology.

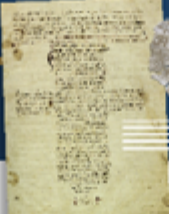
Combining expertise in ion channel biology with the study of kidney podocytes, the Greka laboratory uncovered a pathway linking TRPC5 ion channel activity to cytoskeletal dysregulation and cell death. Based on these discoveries, TRPC5 inhibitors are now being tested in the clinic for difficult-to-treat kidney diseases.

More recently, the Greka laboratory made a key discovery of a general mechanism that monitors the quality of membrane protein cargoes destined for the cell surface by studying a proteinopathy in the kidney, caused by a mutation in MUC1. Specifically, the Greka lab identified a mechanism for membrane protein quality control that is operative in diverse cell types and tissues, such as kidney epithelial cells and retina photoreceptors. The study of cargo quality control is now a major focus of the laboratory.

The Greka laboratory is also interested in dissecting the fundamental mechanisms of cellular homeostasis across the lifespan, with implications for many degenerative human diseases.

Greka has been the recipient of several honors, including the 2020 Donald W. Seldin Young Investigator Award by the American Society of Nephrology and the American Heart Association, the 2018 Seldin-Smith Award for Pioneering Research from the American Society of Clinical Investigation, a 2017 Presidential Early Career Award for Scientists and Engineers, a 2014 Top 10 Exceptional Research Award from the Clinical Research Council, and a 2014 Young Physician-Scientist Award from the American Society of Clinical Investigation Council. She also serves on the Harvard-MIT M.D.-Ph.D. Program Leadership Council.

Greka holds an A.B. in biology from Harvard College and an M.D. and Ph.D. in neurobiology from HMS. She received her medical and scientific training in the Harvard-MIT program in Health Sciences and Technology in the laboratory of National Academy of Sciences member David Clapham, where she explored the role of TRP channels in neuronal growth cone motility.



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Dr **Georgios Hadjigeorgiou** received his MD and PhD degree from Kapodistrian & National University of Athens. Previous academic positions include Professor of Neurology/Chair of the Department of Neurology

and Dean of the Faculty of Medicine, University of Thessaly, GR. He also served as Director of Neuroscience Unit and Laboratory of Neurogenetics, University of Thessaly, GR. His postdoctoral training includes post-doctoral research fellowships at University of Milano and Columbia University, New York.

His major research interest is in the field of Neurogenetics/ genetic epidemiology of complex neurological diseases. His research output includes more than 300 PubMed publications and his activity has been recognized in >12000 citations and h-index >55). He published in high-impact scientific journals including Cell, Nature Commun, Nature Genetics, Lancet Neurology, JAMA, Annals of Neurology and Neurology. He has extensive clinical and research experience and currently he collaborates with leading research centres and study groups abroad (Laboratory of Neurogenetics NIH/NIA, Columbia NY, GEO-PD, IMSGC, EURLSSG, etc.). Among others, he is currently site PI in the Genetic Epidemiology of Parkinson's Disease (GEO-PD) and in International Multiple Sclerosis Genetic Consortium (IMSGC). He also served as Vice President of the European Restless Legs Syndrome Study Group (EURLSSG). He is a co-founder and member of the executive committee of the Hellenic Academy of Neuroimmunology (HELANI) and the Longitudinal Investigation of Aging and Diet (HELIAD). He has received financial support from participation in various research programs (FP7; Greek General Secretariat for Research and Technology; Cyprus Research Promotion Foundation; Alzheimer Association USA; PD Foundation, USA).



Grown up in Athens, Greece **Ludwig Kappos** obtained his M.D. and a Diploma in Clinical Psychology from the University of Würzburg, Germany, in 1980, where he went on to specialise in Neurology and Neuroimmunology, and became

Deputy Chief, Division of Clinical Neurology, Max Planck Society, Clinical Research Unit for Multiple Sclerosis. In 1990 he was elected Head of the Outpatient Department, Neurology/Neurosurgery and from 2008 Chair of Neurology at the University of Basel, Switzerland, a position he held until end of 2020. Since 2019 he serves as Director of the newly founded Research Center of Clinical Neuroimmunology and Neuroscience Basel (RC2NB).

Ludwig Kappos has served as lead investigator of the pivotal phase 2 and 3 studies for most currently approved MS-treatments. Further research interests include methodology of therapeutic studies, standardisation of clinical assessments, development of digital and laboratory biomarkers, cellular and molecular studies in neuroimmunological diseases and use of magnetic resonance imaging in elucidating the pathogenesis of inflammatory CNS disease and as tool in monitoring therapeutic effects and defining prognosis.

Ludwig Kappos has published more than 750 original papers, reviews and book chapters and serves as chair or member in several steering committees and advisory boards of Clinical Trials and Organizations active in the field of MS and general Neurology. He has been awarded with several prizes and honorary doctorates for his scientific contributions.



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Marianna Karamanou, MD, PhD is a dermatologist-venereologist, Professor of Epistemology, History and Ethics of Medicine at Medical School, National and Kapodistrian University of Athens, Greece. She holds a diploma in History of Medicine from the Medical School, Claude Bernard University, Lyon 1, France and a PhD in History of Medicine from the History of Medicine Department, Medical School, National and Kapodistrian University of Athens, Athens, Greece. Currently she is Research Associate at the Institute of the Humanities in Medicine, University of Lausanne and Affiliated Investigator at the Biomedical Research Foundation of the Academy of Athens. Her research activity is reflected in numerous publications (>280 papers) in international peer-review journals covering the whole spectrum of the history of medicine and all time periods. Prof. Karamanou is a member of the International Academy of the History of Pharmacy.



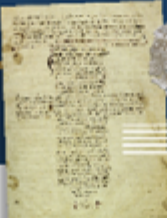
Prof. Dimitrios Karussis, was born in Thessaloniki, Greece on 7-8-1962. He graduated from Aristotelion University of Thessaloniki, Medical school in 1986 with excellency. Since 1988 Prof. Karussis moved and lives in Jerusalem, Israel. He completed at Hadassah his Neurology specialization and his PhD degree. Since 2007 he is the Chairman of the Neuroimmunology Unit and MS Center at Hadassah and the MS/EAE neuroimmunology laboratory. Prof. Karussis has published more than 120 peer reviewed scientific papers, mostly in the field of neuroimmunology and stem cells. He has delivered more than 150 invited plenary lectures and served as chairman in tens of European and world congresses in the field of Neuroimmunology. He serves as ad-hoc reviewer and as member of the editorial board in many major journals. He has been for 6 years a member of the Executive Committee of the

ECTRIMS. Prof. Karussis has pioneered the studies with Linomide and with bone marrow and mesenchymal stem cell transplantation in MS. He is considered one of the world experts in the field of clinical applications of stem cells in neurological diseases. Since 2010, Prof Karussis is the elected President of the Israeli Neuroimmunological society and has organized several International meetings in this field. He has hosted and was President of the International Neuroimmunological meeting in 2016 in Jerusalem.



Evangelos Kiskinis PhD, is an Assistant Professor of Neurology at Northwestern University Feinberg School of Medicine and a New York Stem Cell Foundation Robertson Investigator. Evangelos received his BA

from the University of Surrey and PhD from Imperial College. He carried out postdoctoral training at Harvard University where he pioneered the first models of ALS using personalized stem cell-based approaches. His discoveries on excitability deficits in patient neurons using induced pluripotent stem cells (iPSCs) led to a Phase 2 clinical trial. His laboratory harnesses the power of iPSCs to understand how neuronal function is impaired in ALS/FTD patients and pediatric forms of epilepsy. At Northwestern, he also serves as the Director of the Stem Cell Core Facility. He has received prestigious fellowships from the EMBO, the New York Stem Cell Foundation and the Charles A. King Trust Medical Foundation and in 2019 received the NYSCF Robertson Stem Cell Investigator Award.



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Christos Krogias serves as a Professor of Neurology at the Medical Faculty of the Ruhr University Bochum, Germany. He is the Director of the comprehensive Stroke Centre and the Neurosonology Lab of the University Department of Neurology, St. Josef-Hospital Bochum.

His main fields of interest are cerebrovascular diseases and new applications in Neurosonology. He is a member of several German, Greek and international societies, i.a. Fellow and Committee Member of the European Stroke Organization (ESO). He is author of more than 150 papers in peer-reviewed international, German and Greek scientific journals. He serves as a reviewer in 35 international medline-listed journals. He is the Section Editor Neurosonology of the "Journal of Neuroimaging" of the "American Society of Neuroimaging".

He served for several periods as secretary of the "Association of Greek Students and Scientists, SEFEM" and the "Society of Greek Academics in North Rhine-Westphalia, GREKA". He is significantly and continuously involved in numerous academic collaborations with several Medical Schools in Greece.



John D. Lambris received his Ph.D. in Biochemistry in 1979. He is the Dr. Ralph and Sallie Weaver Professor of Research Medicine in the Department of Pathology & Laboratory Medicine at the University of Pennsylvania, Philadelphia, PA.

Dr. Lambris' laboratory was among the first to characterize the critical sites on C3 responsible for its diverse functions and also to define its complex binding dynamics to various C3 natural ligands, viral proteins, complement receptors, and regulators. His laboratory contributed in the development of complement-based anti-inflammatory therapeutics through the discovery of the first small-size complement inhibitor,

termed Compstatin, which has exhibited consistent efficacy for use in a series of in vivo trials and shows great promise for the use in the clinic. His subsequent efforts to develop more potent compstatin analogues have laid the development of a novel platform for peptide-based drug design, integrating both rational and in silico approaches. In a series of elegant in vivo studies, the Lambris lab established an unprecedented association of complement components with non-inflammatory pathways by demonstrating the involvement of complement in the developmental processes, including liver and limb regeneration, hematopoietic development and stem cell engraftment. Dr. Lambris has also contributed in the field of evolutionary immunology by identifying multiple complement genes in fish and the mechanism by which they expand immune recognition and develop a versatile innate immune system to compensate for their weak adaptive immune repertoire.

Dr. Lambris has published over 500 papers in peer-reviewed journals (H index >119, citations >51,978) and is the editor of several books and special journal issues; listed in Clarivate Highly Cited Researchers, and 3160 Highly cited Researches (h>100).

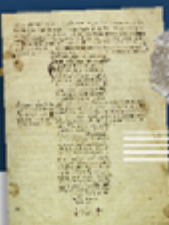
Dr. Lambris has received more than \$50 million research funding from various institutions and agencies including the National Institute of Health (NIH), National Science Foundation (NSF) and European, and the European Union (FP7 program).



Diomedes Logothetis obtained his PhD with David Clapham (1983-87) and postdoctoral work first with the late Peter Hess and then with Bernardo Nadal Ginard (1987-93), all at Harvard Medical School. During this

decade, he studied mechanisms of G protein regulation of K⁺ and Ca²⁺ channels as well as voltage-sensing mechanisms of K⁺ channels.

In 1993 he was recruited as an Assistant



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Professor to the Icahn School of Medicine at Mount Sinai, N.Y., where he began to study the role of activation of K⁺ channels by phosphatidylinositol bis-phosphate (PIP₂). This area became the focus of his lab securing continuous funding by the NIH for 26 years.

In 2008, he moved to Richmond at the Virginia Commonwealth University School of Medicine, where he also began to study heteromeric G protein-coupled receptors involved in schizophrenia. In 2011 his lab deciphered the mechanism by which antipsychotic drugs work through the mGluR2/5-HT_{2A}R heteromer.

Since July 2016, he has come full circle back to his alma matter Northeastern University to the Department of Pharmaceutical Sciences in the School of Pharmacy and the College of Health Sciences, where he is pursuing rational drug design on PIP₂-regulated ion channels.



Christos S. Mantzoros, MD, DSc, PhD h.c. mult. is a Professor of Medicine at Harvard Medical School and an Adjunct Professor at Boston University School of Medicine. He has also served as a Professor of Environmental

Health at the Harvard School of

Public Health.

He currently serves as the Chief of Endocrinology, Diabetes and Metabolism at the Boston VA Healthcare System, where he created de novo a leading academic division true to its tripartite mission, and as the Director of Human Nutrition at Beth Israel Deaconess Medical Center, Harvard Medical School.

He has served as Associate Fellowship Program Director and later as Endocrinology, Diabetes and Metabolism Fellowship Program Founding Director.

He has taught courses at the undergraduate level, at the Medical School and postgraduate level and has organized several CME courses. He has mentored in his own Laboratory more than 170 young scientists who currently hold key positions in clinical medicine, academia,

industry as well as governmental agencies and nongovernmental including organizations.

Dr. Mantzoros has published as an editor two books (one on "Diabetes and Obesity" and one on "Nutrition and Metabolism" with more than two editions each). His research has resulted in more than 650 publications under his name in Medline in addition to more than 169 publications under the collaborative Look Ahead Research Group and more than 240 chapters and reviews or editorials, and has received more than 112,000 citations and an H index of 133 with an i10 index of 527 (Google Scholar).

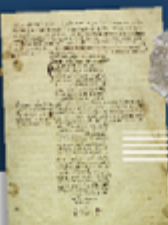
He leads two active laboratories where he performs basic and translational research and has been continuously funded by the NIH since 1996. He has received many grants from NIH, Dept. of Defense, Foundations, Industry and Philanthropy over his 25 years of service at BIDMC, resulting in \$26.5M in direct costs and more than \$40 million in direct and indirect costs for his own projects and an estimated more than another \$50 million for collaborative projects.

He has applied and received patents, has co-founded successful companies and has served as a board member, an advisor, or head of the scientific advisory boards of non-profit foundations as well as government and state agencies or commissions as well as for-profit private businesses and non-profit entities.

He also serves as the Editor-in-Chief of the journal Metabolism and is on the editorial board of several scientific journals worldwide.

For his research discoveries and public health service, Dr. Mantzoros has received four honorary PhDs, the Alexander Technological Institute of Thessaloniki has named their nutrition laboratories after his name and several universities worldwide have awarded Dr. Mantzoros honorary professorships and visiting professorships. He has or is supervising PhD thesis work in several nations worldwide (Sweden, Germany, Greece, USA, etc.) and is actively collaborating with many research groups worldwide.

Dr. Mantzoros has been elected a member of ASCI and a Fellow of the American College of Physicians and the American Association of Clinical Endocrinology. He has been given



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several awards including but not limited to: the American Association of Clinical Endocrinology (Frontiers in Science Award), the American Diabetes Association (Novartis Award in Diabetes and Metabolic Diseases), the North American Association for the Study of Obesity/the Obesity Society (Lilly Award), the American Society for Nutrition (Mead Johnson Award), the HypoCCS award in Paris, France, the Humboldt Foundation of Germany (the Wilhelm Friedrich Bessel Award), by the American Federation of Medical Research (the Outstanding Investigator Award), by the American Physiological Society (FASEB, the Berson Award Lecture), by the New England Hellenic Medical and Dental Association (Hygeia award), amongst many others. He has also received the BIDMC and Harvard Medical School awards for Excellence in Mentoring.

Most recently, he has received several prestigious awards for his lifetime achievements: the 2017 Obesity Society TOPS Award, the 2018 Endocrine Society Outstanding Clinical Investigator Award, the 2018 European Society of Endocrinology Geoffrey Harris Prize, and the 2018 American Society of Nutrition's Robert H. Herman Award and the 2020 American Society of Nutrition's E. V. McCollum Award.



Lefkos Middleton is Professor of Neurology at the School of Public Health, Imperial College London. He studied medicine and trained in Neurology at the Université Louis Pasteur, in Strasbourg (France) and then became

Fellow at the Neurological

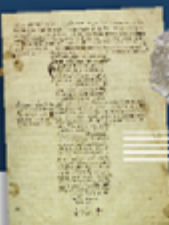
Institute of New York, Presbyterian Hospital and Assistant Professor, Columbia University. He was founder and first Chairman of the US – funded Cyprus Institute of Neurology. In 1999, he was appointed as Head of "Translational Medicine and Genetics", encompassing medical genetics, imaging, biomarkers and experimental medicine, within the GlaxoSmithKline Research & Development, before joining Imperial, in 1997.

He is, currently, the principal investigator of the Chariot register, including ~40,000 healthy volunteers for studies for Alzheimer's disease (AD) and ageing, the Chariot PRO biomarker-enriched prospective longitudinal study on the pre-clinical AD stages and several other studies in AD and Parkinson's disease. He has been Chief UK investigator in three AD trials. He has authored 198 papers, the most recent in AD and related dementias.



Dr. Dimitrios Monos received his B.S. (Biology) from the University of Patras, Greece and his PhD (Biochemistry/Immunology) from Georgetown University, Washington, DC.

Dr. Monos is currently the Evelyn Willing Bromley Professor of Pathology and Lab Medicine at the Perelman School of Medicine, University of Pennsylvania and Director of the Immunogenetics Laboratory supporting the transplant programs, at The Children's Hospital of Philadelphia. He has contributed in identifying the exact structural elements on the different HLA molecules associated with several autoimmune diseases and through genome-wide association studies identify additional genomic regions associated with autoimmunity. Most recently, his lab has identified miRNAs encoded by the HLA genes and the MHC. These new findings identify a new functional role for the HLA genes potentially influencing a large number of cellular pathways that may explain the significant associations of these genes with many diseases. He is the author of more than 140 original publications and served on the editorial boards of several journals. Dr. Monos has been invited to present his work at different Universities, National and International meetings.



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Dr. Stelios Papadopoulos is Chairman of the Board of Directors of Biogen, Inc., Exelixis, Inc., Regulix Therapeutics, Inc., and Eucrates Biomedical Acquisition Corp. He is a co-founder of Exelixis and Eucrates, as well as co-founder and former Chairman of Anadys Pharmaceuticals, Inc. (acquired by Hoffman – La Roche in 2011) and Cellzome, Inc. (acquired by GlaxoSmithKline in 2012). In the not-for-profit sector, Dr. Papadopoulos is a member of the Board of Visitors of Duke Medicine, a member of the Global Advisory Board of the Duke Institute for Health Innovation, and co-founder and Chairman of Fondation Santé (www.fondationsante.org), a foundation providing research grants to biomedical scientists in Greece and Cyprus.

Dr. Stelios Papadopoulos spent six years (2000-06) at Cowen & Co., LLC, most recently as Vice Chairman, where as an investment banker he focused on the biotech and pharma sectors. Prior to joining Cowen, he spent 13 years as an investment banker at PaineWebber, Incorporated where he was most recently Chairman of PaineWebber Development Corp., a PaineWebber subsidiary focusing on biotechnology. He joined PaineWebber in 1987 from Drexel Burnham Lambert where he was an analyst in the Equity Research Department covering the biotechnology industry. Prior to Drexel, he was the biotechnology analyst of Donaldson, Lufkin & Jenrette. Dr. Papadopoulos has received multiple honors and awards for his work in the biopharma industry as a company founder, adviser, and financier.

Before coming to Wall Street, Dr. Papadopoulos was on the faculty of the Department of Cell Biology at New York University School of Medicine. Dr. Papadopoulos holds an M.S. in physics, a Ph.D. in biophysics and an M.B.A. in finance, all from New York University.



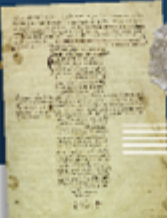
George Paxinos was born in Ithaca, studied Psychology at the University of California at Berkeley and received his PhD from McGill University. Research at Yale University, Cambridge and Oxford followed. Since 1973 he has been a Professor at the University

of New South Wales and Neuroscience Research Australia. He has been president of the Australian Neuroscience Society and the IBRO World Congress of Neuroscience.

He has received the Humboldt Prize and was awarded an Honorary Doctorate / Professor by the University of Athens in 2008, the University of Ioannina (2016) and the Ionian University (2017). He was elected a member of the Australian Academy of Sciences in 2009 and a Corresponding Member of the Academy of Athens in 2012.

George Paxinos mapped the brain and spinal cord. He discovered 94 areas (nuclei) in the central nervous system.

He is the author of 57 scientific books. His first book, *The Rat Brain in Stereotaxic Coordinates*, is the twelfth most cited scientific book of all time. His *Atlas of the Human Brain* received The Award for Excellence in Publishing in Medical Science, Assoc American Publishers and The British Medical Association Illustrated Book Award. In 2015 he published "Κατ' Εικόνα" (Livanis publications), his first novel dealing with the environment, ethics, religion and psychology.



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Steven Petratos, PhD, is a Senior Lecturer and Head of the Regenerative Neuroscience and Development Laboratory, in the

Department of Neuroscience, Central Clinical School at Monash University. Dr Petratos earned his PhD in Pathology from the University of Melbourne, receiving one of only 13

Commonwealth AIDS Research Scholarships in Australia. He completed postdoctoral training at the prestigious Walter and Eliza Hall Institute, the Howard Florey Institute both at the University of Melbourne, as well as the Department of Biochemistry and Molecular Biology at Monash University, receiving the Faculty of Medicine Monash University Research Fellowship. He now leads a research team that focuses on overcoming axonal degeneration in multiple sclerosis as well as identifying novel strategies to repair myelin. His work in the field of demyelination has earned him recognition and more than \$4 million grant funding. Dr Petratos is currently translating his research and developing a novel drug for MS.



Dimes, HHMI Early Career Award, DoD, Dana Foundation and others.

Mr **Christos Toliás** is an Athens Medical School graduate. Moved to the UK in 1991 and has been a Consultant Neurosurgeon and Clinical Lead in Neurosurgery at King's College Hospital, London since 2005. He has a

PhD in Biological Sciences from the University of Warwick and extensive research experience. Mr Toliás has a very large Neurovascular experience and currently has the largest series of aneurysm surgeries in the UK (NNAP). He was the first UK surgeon to perform an ELANA cerebral bypass. He specialises in surgery of cerebral aneurysms, arteriovenous malformations, cavernomas and dural fistulas and rare conditions like Moya-Moya.

He is an elected member of the Society of British Neurological Surgeons (SBNS) Council and Vice President of the World Hellenic Biomedical Association (WHBO).



Stelios M. Smirnakis received the MD from Harvard Medical School and the PhD in Physics from Harvard GSAS in 1997. He has been board certified in Neurology, Vascular Neurology and Neurological Critical Care and currently serves as an

Associate Professor of Neurology at Harvard Medical School, Brigham and Women's Hospital, and Jamaica Plain Veterans Administration Hospital. His laboratory uses optical imaging and classical electrophysiology methods to study the principles of cortical circuit function and malfunction in neurological disease states. Current and past support includes funding from: NIH (NEI, NINDS), Veterans Research Administration, Simons Foundation (SFARI), Brigham Research Institute, March of

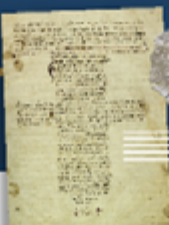


Dr. **Alexandra Touroutoglou** is an Assistant Professor of Neurology at Harvard Medical School. She leads clinical trials to treat patients with Alzheimer's disease at Massachusetts General Hospital, a teaching hospital of

Harvard Medical School. She is the Director of Imaging Operations at the Mass General Center of Translational Brain Mapping and the Director of Imaging Operations at the Frontotemporal Dementia Unit at Mass General. She received her PhD from Aristotle University of Thessaloniki, Greece in 2010 followed by a post-doctoral fellowship at Harvard Medical School.



She has been awarded NIH grants for her



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clinical research and is the author of highly cited articles in brain imaging.

Her team has discovered older adults who maintain youthful brains, called "Super-agers" and her findings have garnered substantial scientific interest and media attention featured by the BBC, Huffington Post, and The New York Times. She has won several awards for her work, including a Teaching Award from Institute of International Education/Fulbright Foundation in 2016 and 2019 and "Woman of the Year" in Greece in 2017.

She also devotes her time in supporting the scientific community in the Greek diaspora and serves as the President of the Hellenic Bioscientific Association of the USA.



Dr. **Stella Tsirka** is a SUNY Distinguished Professor of Pharmacological Sciences at Stony Brook University. Her research focuses on (neuro) inflammatory processes in models of neurological and neuropsychiatric diseases.

Her lab explores the function and activation of microglia in response to both physiological and pathological stimuli, using models for multiple sclerosis, stroke, glioma and epilepsy to investigate neuro-immune interactions and pathways common to them. Dr. Tsirka has been the director of graduate training programs supported by NIH and NSF, and currently directs the Scholars in BioMedical Sciences Program. She currently serves as the Vice Dean for Faculty Affairs, and holds the Miriam and David Donoho Endowed Professorship. She is on the editorial board of several journals and a member of the Executive Committee of the American Society for Pharmacology and Experimental Therapeutics (ASPET) NeuroPharmacology division. She was elected a Fellow of the American Association for the Advancement of Science (AAAS).

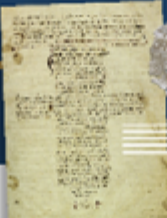


Panayiotis N. Varelas, MD, PhD graduated from the University of Athens Medical School in 1983 and completed Neurology residencies at Aeginition University Hospital and again at Yale School of Medicine in New Haven, Connecticut. He also

completed a Neurocritical Care fellowship at Johns Hopkins Hospital in Baltimore, Maryland. He served as the founding Neuro-ICU Medical Director at the Medical College of Wisconsin. In 2005 he joined Henry Ford Health System in Detroit, Michigan as the Neuro-ICU first Medical Director. In 2019 he was appointed Chair of the Department of Neurology at Albany Medical College, where he also serves as a Tenured Professor of Neurology. He also holds the title of Professor of Neurology at the University of Athens School of Medicine in Athens, Greece. His academic productivity includes more than 130 peer-reviewed articles, 1 book (currently in 3d Edition), more than 28 chapters and 150 abstracts. He participates in several federal or industry-sponsored research grants.

His research interests include brain death, intracerebral hemorrhage, subarachnoid hemorrhage, traumatic brain and spine injury and status epilepticus.

Dr Varelas has national and international reputation. He was elected Chairman of the Critical Care and Emergency Neurology Section of the American Academy of Neurology. He has been a Board member of the Neurocritical Care Society for 8 years and he is currently a member of the Executive Committee of NCS and the Vice-President of the Society.



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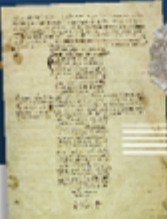
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Dr. **Anastasia Zekeridou** is an Assistant Professor of Neurology and Laboratory Medicine and Pathology at Mayo Clinic in Rochester Minnesota. She finished her Medical School at the Aristotle University of Thessaloniki in 2007 and got her PhD degree from the University of Alexandroupolis in Greece in 2019. She completed her Neurology training in the University Hospital of Lausanne in Switzerland. She worked as a fellow in the French Reference Center for Paraneoplastic Neurological Diseases and the Mayo Clinic Neuroimmunology Laboratory under the mentorship of Dr Vanda Lennon. She is currently a staff Neurologist at Mayo Clinic and researcher focusing on paraneoplastic autoimmunity, neurological autoimmunity in the context of checkpoint inhibitors and novel autoantibody discovery.

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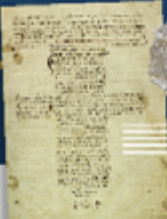
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