

# ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ



Isaac Aidonidis, M.D., F.E.S.C.

Καρδιολόγος

Αναπληρωτής Καθηγητής Ιατρικής Φυσιολογίας

Ιατρική Σχολή

Πανεπιστήμιο Θεσσαλίας, Ελλάδα

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## ΠΡΟΣΩΠΙΚΑ ΣΤΟΙΧΕΙΑ

Όνοματεπώνυμο: ΙΣΑΑΚ ΑΗΔΟΝΙΔΗΣ

Όνομα πατρός: Σπυρίδων

Ημερ/νία και τόπος γέννησης: 16/10/1959, Σέρρες

Οικογενειακή κατάσταση: Έγγαμος με δύο παιδιά

Υπηκοότητα: Ελληνική

Διεύθυνση: Τερψιθέας 78, 41500 Τερψιθεα Λάρισας

Τηλ. : 2410-616865, κιν. 6932612544

E-mail: [iaido@med.uth.gr](mailto:iaido@med.uth.gr)

Ξένες γλώσσες: Γερμανικά, Αγγλικά

### ΣΠΟΥΔΕΣ - ΣΤΑΔΙΟΔΡΟΜΙΑ

1977: Αποφοίτησα από το 13ο Λύκειο Αρρένων Θεσ/νίκης με βαθμό "Λίαν Καλώς".

1978: Υποψηφιότητα για θέση στην Ιατρική Σχολή του Παν/μίου Χαϊδελβέργης (Γερμανία)

1979: Απόκτηση του δικαιώματος εισαγωγής στο Κολλέγιο Σπουδών μετά την κατάληψη μιάς θέσης στην Ιατρική Σχολή του Παν/μίου Χαϊδελβέργης για την αναγνώριση του ελληνικού απολυτηρίου και την εκμάθηση της γερμανικής γλώσσας.

1980: Μετά από επιτυχή συμμετοχή στις εξετάσεις του Κολλεγίου Σπουδών, έναρξη της φοίτησης 1ου εξαμήνου στην Ιατρική Σχολή.

1985: Πτυχίο Ιατρικής του Παν/μίου Χαϊδελβέργης, με βαθμό "Καλώς". Διδάκτωρ της Ιατρικής Σχολής του ιδίου Πανεπιστημίου, με βαθμό "Λίαν Καλώς" με θέμα: "Αντιαρρυθμική δράση της δεξιοστρόφου ισομερούς μορφής της σοταλόλης 3-7 ημέρες μετά από έμφραγμα του μυοκαρδίου σε σκύλους".

1986-89: Ειδικευόμενος Καρδιολογίας στην Παν/μιακή Καρδιολογική και Παθολογική Κλινική Χαϊδελβέργης (Διευθυντής: Prof. Kuebler).

1990-91: Επιστημονικός συνεργάτης στο πειραματικό Εργαστήριο Ηλεκτροφυσιολογίας της Ιατρικής Σχολής του ιδίου Παν/μίου με υποτροφία από την Γερμανική Εταιρεία Έρευνας επί

του Καρδιακού και Κυκλοφορικού Συστήματος με θέμα: "Μηχανισμοί Καρδιακών Αρρυθμιών" (Κρατικό Πρόγραμμα Υποτροφιών SFB 320).

1992: Εκπλήρωση στρατιωτικών υποχρεώσεων στην Ελλάδα (οπλίτης ιατρός άνευ ειδικότητας).

1993-94: Ειδικευόμενος Καρδιολογίας στην Α' Καρδιολογική Κλινική (Διευθυντής: Α. Ζαχαρούλης) του Νοσοκομείου Μελισίων "Αμαλία Φλέμινγκ" (Αθήνα) για την συμπλήρωση του απαιτούμενου υπολείπου χρόνου ειδικότητας.

1995: Επιτυχής συμμετοχή στις γραπτές και προφορικές εξετάσεις για την απόκτηση του τίτλου ειδικότητας Καρδιολογίας (Ιπποκράτειο Νοσοκομείο Αθηνών: Καθηγητές Π. Τούτουζας, Δ. Κόκκινος, Ε. Παπαστεριάδης).

1995-96: Αγροτικός ιατρός στο Κέντρο Υγείας Σχηματαρίου Βοιωτίας.

1996-97: Επιστημονικός συνεργάτης στην Καρδιολογική Κλινική του Ιπποκρατείου Πανεπιστημιακού Νοσοκομείου Αθηνών και στο Εργαστήριο Πειραματικής Φυσιολογίας της Ιατρικής Σχολής του Πανεπιστημίου Αθηνών για την εκτέλεση του έργου των Υποτροφιών από την Ελληνική Καρδιολογική Εταιρεία (Ε.Κ.Ε.) και το Ελληνικό Ίδρυμα Καρδιολογίας (ΕΛ.Ι.ΚΑΡ.).

1997-2004: Επιμελητής Β' (Ε.Σ.Υ.) στην Καρδιολογική Κλινική του Γενικού Νοσοκομείου Λάρισας.

2005-2006: Επιμελητής Α' (Ε.Σ.Υ.) στην Καρδιολογική Κλινική του Γενικού Νοσοκομείου Λάρισας.

2007-2015: Επίκ. Καθηγητής Ιατρικής Φυσιολογίας στην Ιατρική Σχολή του Πανεπιστημίου Θεσσαλίας.

2016-σήμερα: Αν. Καθηγητής Καθηγητής Ιατρικής Φυσιολογίας στην Ιατρική Σχολή του Πανεπιστημίου Θεσσαλίας.

#### **ΜΕΛΟΣ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΕΤΑΙΡΕΙΩΝ**

- 1) Μέλος της Γερμανικής Καρδιολογικής Εταιρείας από το 1988.
- 2) Μέλος της Ελληνικής Καρδιολογικής Εταιρείας από το 1996.
- 3) Αντιπρόεδρος της Ομάδας Εργασίας Πειραματικής Καρδιολογίας (1999-2001).
- 4) Πρόεδρος της Ομάδας Εργασίας Πειραματικής Καρδιολογίας (2002-2004).
- 5) Μέλος της Ομάδας Εργασίας Καρδιακής Ανεπάρκειας της Ελληνικής Καρδιολογικής Εταιρείας από το 2002.

6) Μέλος της Ομάδας Εργασίας Ηλεκτροφυσιολογίας/Βηματοδότησης της Ελληνικής Καρδιολογικής Εταιρείας από το 2003.

7) Μέλος της Ευρωπαϊκής Καρδιολογικής Εταιρείας από το 2003 (F.E.S.C.)

8) Μέλος της ομάδας εργασίας Καρδιακής Κυτταρικής Ηλεκτροφυσιολογίας της Ευρωπαϊκής Καρδιολογικής Εταιρείας από το 2010.

## **ΒΡΑΒΕΙΑ-ΥΠΟΤΡΟΦΙΕΣ**

1995: 1ο Βραβείο Ερευνητικής Εργασίας από την Ελληνική Καρδιολογική Εταιρεία με θέμα: "Μεταβολές του δυναμικού ενεργείας ενδοκαρδιακών και επικαρδιακών κυττάρων κατά την διάρκεια οξέως εμφράγματος του μυοκαρδίου: Επικράτηση των πρώιμων μεταδυναμικών".

1995-96: Υποτροφία Εσωτερικού από το ΕΛ.Ι.ΚΑΡ. με αντικείμενο πειραματικής μελέτης τούς μηχανισμούς πρόκλησης κοιλιακών ταχυαρρυθμιών σε διατακτική μυοκαρδιοπάθεια. Ο ρόλος των ενεργοποιητών ΚΑΤΡ-εξαρτώμενων μιτοχονδριακών διαύλων στην παράταση της διάρκειας επαναπόλωσης κοιλιακών κυττάρων, ως μηχανισμού εμφάνισης κακοήθων αρρυθμιών στην καρδιακή ανεπάρκεια. Απομίμηση των συνθηκών αύξησης της διάρκειας επαναπόλωσης σε καρδιακή ανεπάρκεια με την ουσία 4-αμινοπυριδίνη, ενός αποκλειστή των διαύλων του παροδικού ρεύματος εξόδου K<sup>+</sup> που δεν εξαρτάται από το Ca<sup>++</sup>, και θεωρείται βασικός αιτιολογικός μηχανισμός της μεγάλης παράτασης και διασποράς του διαστήματος QT ως ενός αρρυθμογόνου υποστρώματος στην καρδιακή ανεπάρκεια.

1996-97: Υποτροφία Εξωτερικού από την Ελληνική Καρδιολογική Εταιρεία σε συνεργασία με την Γερμανική Καρδιολογική Εταιρεία με θέμα: "Ηλεκτροφυσιολογικές μεταβολές μονοφασικών δυναμικών ενεργείας κατά την διάρκεια πειραματικής ισχαιμικής προετοιμασίας".

2002: Έπαινος για την ερευνητική εργασία στο 23ο Πανελλήνιο Καρδιολογικό Συνέδριο με θέμα: "ATP sensitive potassium channel activation is irreversibly blocked by 4-aminopyridine in atrial myocytes".

2003: 2ο Βραβείο ερευνητικής εργασίας με θέμα: "Cardiac troponin T in assessing preconditioning-induced protection after myocardial infarction in pigs" από την Ελληνική Καρδιολογική Εταιρεία στα πλαίσια του Σεμιναρίου των Ομάδων Εργασίας.

## **ΔΙΔΑΚΤΙΚΟ ΕΡΓΟ**

1) Εκπαίδευση ειδικευόμενων καρδιολόγων και αγροτικών ιατρών στο ΓΝ Λάρισας.

2) Μαθήματα Φυσιολογίας II (Καρδιαγγειακό Σύστημα) σε φοιτητές της Ιατρικής Σχολής του Πανεπ/μίου Θεσσαλίας σύμφωνα με το Π.Δ. 407/80 από το 2001-2006.

3) Ομιλίες σε ειδικά θέματα Καρδιολογίας στο Αμφιθέατρο του ΓΝ Λάρισας.

4) Συμμετοχή σε τοπικά Συνέδρια Καρδιολογίας Κεντρικής Ελλάδος, Ομιλίες σε τοπικά Σεμινάρια Ιατρικής και σε όλα τα Συνέδρια της Ελληνικής Καρδιολογικής Εταιρείας και των αντίστοιχων Ομάδων Εργασίας επί θεμάτων πειραματικής Καρδιολογίας.

### **ΕΠΙΣΤΗΜΟΝΙΚΟ ΕΡΓΟ**

1) Οργάνωση του Πειραματικού Εργαστηρίου Ηλεκτροφυσιολογίας στο Πειραματικό Χειρουργείο του Πανεπιστημιακού Νοσοκομείου Λάρισας και στο Τμήμα Φυσιολογίας της Ιατρικής Σχολής, με επίκεντρο την μελέτη των μηχανισμών κολπικών και κοιλιακών ταχυαρρυθμιών σε μοντέλα αναισθητοποιημένων χοίρων και κονίκλων, τους μηχανισμούς ισχαιμικής προετοιμασίας, και νέων αντισχαιμικών και αντιαρρυθμικών ουσιών.

2) Κριτής στην επιλογή Εργασιών σε Πανελλήνια Καρδιολογικά Συνέδρια (2001-σήμερα).

3) Κριτής στη δημοσίευση Εργασιών στο περιοδικό της Ελληνικής Καρδιολογικής Επιθεώρησης 2002.

4) Πρόεδρος και Αντιπρόεδρος σε Πανελλήνια Συνέδρια Καρδιολογίας και Διαλέξεις με διεθνή συμμετοχή στα πλαίσια των Σεμιναρίων των Ομάδων Εργασίας της Ελληνικής Καρδιολογικής Εταιρείας (2000-σήμερα).

5) Από το 2002-2004 Ανάληψη καθηκόντων Δ/ντού Σύνταξης του ετήσιου ερευνητικού περιοδικού "ΝΕΑ ΑΠΟ ΤΗΝ ΠΕΙΡΑΜΑΤΙΚΗ ΚΑΡΔΙΟΛΟΓΙΑ" με Πανελλήνια συμμετοχή ερευνητών.

6) Μετάφραση και επιμέλεια συγγραφής κεφαλαίων του Καρδιαγγειακού Συστήματος σε Βιβλία Φυσιολογίας (Ganong 2014).

### **ΔΙΟΙΚΗΤΙΚΟ ΕΡΓΟ**

Μέλος της Επιτροπής Βαθμολογητών Κατατακτηρίων Εξετάσεων στο μάθημα «Φυσιολογία» (2008-2014) του τμήματος Ιατρικής του Παν. Θεσσαλίας..

Μέλος της Γενικής Συνέλευσης του τμήματος Ιατρικής του Παν. Θεσσαλίας (2018- 2019)

Μέλος του Εκλεκτορικού Σώματος και Τριμελών Εισηγητικών Επιτροπών για την πλήρωση θέσεων Καθηγητών σε Α.Ε.Ι. της ημεδαπής.

## ΕΡΕΥΝΗΤΙΚΟ ΕΡΓΟ ΣΤΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΧΑΪΔΕΛΒΕΡΓΗΣ

1985-1989: Μηχανισμοί κοιλιακής ταχυκαρδίας και μαρμαρυγής με την βοήθεια όψιμων δυναμικών σε πειραματικό μοντέλο ισχαιμίας-επαναιμάτωσης σε ναρκωμένους σκύλους. Ανάλυση της συμπαθητικής ροής από το αριστερό αστεροειδές γάγγλιο προς την καρδιά σε ισχαιμία-επαναιμάτωση, κοιλιακή ταχυκαρδία και κοιλιακή μαρμαρυγή (Εργαστήρια Ηλεκτροφυσιολογίας, Καθηγ. J. Brachmann, και Φυσιολογίας του αυτόνομου νευρικού συστήματος, Καθηγ. H. Seller.

Κατά το ίδιο χρονικό διάστημα σε συνεργασία με το Τμήμα Ανατομίας και Βιολογίας του κυττάρου (Καθηγ. J. Metz) έγιναν πειράματα με αντικείμενο μελέτης την σύγκριση της αδρενεργικής νεύρωσης του εμφραγματικού μυοκαρδίου μετά από απολίνωση ή ενδοαυλική απόφραξη του πρόσθιου κατιόντα σε σκύλους με χρόνιο έμφραγμα.

Τα πρώτα πειράματα με την χρήση ειδικών μονοφασικών ηλεκτροδίων αναρρόφησης έγιναν με τη συμβολή του Prof. R. X. Stroobandt (Heart Center, Univ. Hospital Ghent, Belgium), με επίκεντρο την ανάλυση μεταβολών επαναπόλωσης κοιλιακών και κολπικών κυττάρων σε in vivo συνθήκες.

## ΕΡΕΥΝΗΤΙΚΟ ΕΡΓΟ ΣΤΗΝ ΙΣ ΑΘΗΝΩΝ

1994-1998: Συνέχιση ερευνητικής δραστηριότητας στο Εργαστήριο Πειραματικής Φυσιολογίας του Πανεπιστημίου Αθηνών (Καθηγ. Ι. Σταυρίδης) και Πειραματικής Χειρουργικής (Καθηγ. Π. Καραγιαννάκος) με θέμα την διερεύνηση των μηχανισμών πρόληψης εμφραγματικών αρρυθμιών από την ισχαιμική προετοιμασία του μυοκαρδίου σε χοίρους. Εφαρμογή νέων συστημάτων μονοφασικών ηλεκτροδίων επαφής για την απαγωγή πρώιμων και όψιμων μεταδυναμικών σε μοντέλα αρρυθμιών ισχαιμίας-επαναιμάτωσης. Εκπόνηση διδακτορικής διατριβής του Ιατρού Σ. Στάμου στο εργαστήριό μας με "Άριστα" (Καθηγ. Π. Τούτουζας, Επικ. Καθηγ. Ι. Ρίζος).

Μελέτη της ισχαιμικής προετοιμασίας επί του ουδού κοιλιακής μαρμαρυγής οξέως εμφράγματος του μυοκαρδίου.

Επέκταση της έρευνας σε μηχανισμούς χολινεργικής κολπικής μαρμαρυγής και πτερυγισμού σε χοίρους στα πειραματικά εργαστήρια της φαρμακευτικής Εταιρείας ΕΛΠΕΝ. Για το συνολικό αυτό έργο γίνεται αναφορά στο Τεύχος 2, Τόμος ΙΧ του ΕΛ.Ι.ΚΑΡ. 2004 στο κεφάλαιο: "Αρρυθμίες: Η Ελληνική Συμβολή (1960-2003)".

## ΣΥΓΓΡΑΦΗ ΚΕΦΑΛΑΙΩΝ ΣΕ ΒΙΒΛΙΑ

1. J. Brachmann, J. Senges, I. Rizos, C. Schmitt, [I. Aidonidis](#) and W. Kuebler: *Sotalol in patients with recurrent sustained ventricular tachycardia: electrophysiologic and antiarrhythmic*

effects, In: Advances in Cardiology: The Unique Role of sotalol (Medicine Publishing Symposium Series, 17.) Toronto: MES Medical Education Services, 1985, p 31-5.

2. J. Brachmann, [I. Aidonidis](#), W. Schoels, J. Senges and W. Kuebler: *Paradoxical arrhythmogenic properties of antiarrhythmic drugs: experimental and clinical findings*, In: Cardiac Arrhythmias for the Clinical Cardiologist, Editors: E. Andries, R. Stroobandt. Published by Elsevier Science Publishing B.V., 1986, p 193-204.

3. J. Metz, [I. Aidonidis](#), J. Koelb and J. Brachmann: *Autonomic Innervation and Arrhythmias in Canine Myocardial Infarction*, In: Adrenergic System and Ventricular Arrhythmias in Myocardial Infarction, Editors: J. Brachmann, A. Schoemig. Published by Springer-Verlag Berlin Heidelberg, 1989, p 322-334.

### ΑΝΑΦΟΡΕΣ ΣΕ ΒΙΒΛΙΑ

1. Beyer T, [Aidonidis I](#), Rizos I, and Brachmann J. Acute class III effects..., published in *J Am Coll Cardiol* 1986; 7, 116. In: "**Stereoisomers: Therapeutic Drugs**", page 62, by Donald F. Smith (1989) - CRC-Press.

2. Beyer T, Brachmann J, [Aidonidis I](#), Rizos I, Kuebler W. Effects of d-sotalol on electrophysiological parameters in rabbit AV nodal preparations: demonstration of class III actions. *J Mol Cell Cardiol* 18: 279, 1986. In: "**Electrophysiology and Pharmacology of the Heart**" by Dangman (1991) - Informa HealthCare

3. Hoberg E, Eisenhut M, Hofmann M, Schuler G, Brachmann J, [Aidonidis I](#), Nachtkamp J, Kuebler W, Katus HA. Monoclonal antibodies specific for human cardiac myosin: selection, characterization and experimental myocardial infarct imaging. *Eur Heart J* 9: 328-336, 1988. In: "**International Review of Cytology: A Survey of Cell Biology**" by Kwang W. Jeon (1992) - Academic Press.

4. Hoberg E, Eisenhut M, Hofmann M, Schuler G, Brachmann J, [Aidonidis I](#), Nachtkamp J, Kuebler W, Katus HA. Monoclonal antibodies specific for human cardiac myosin: selection, characterization and experimental myocardial infarct imaging. *Eur Heart J* 9: 328-336, 1988. In: "**Structure of Antigens, Volume III (Vol 3)**", page 215, by Marc H.V. Van Regenmortel (1995) - CRC - Press.

5. Brachmann J, Stroobandt R, [Aidonidis I](#), Senges J, Kuebler W. Analysis of monophasic action potentials facilitates differentiation of ventricular tachyarrhythmias. *PACE* 9: 308, 1986. In: "**Quantitative Cardiac Electrophysiology**", page 479, by Informa HealthCare, 2002.

6. [Aidonidis I](#), Brachmann J, Rizos I, Zacharoulis A, Stavridis I, Toutouzas P, Kubler W. Electropharmacology of the bradycardic agents alinidine and zatebradine (UL-FS 49) in a conscious canine ventricular arrhythmia model of permanent coronary artery occlusion.

*Cardiovasc Drugs Ther* 9: 555-563, 1995. In: "**Cardiac Drug Development Guide**" from Series: Methods in Pharmacology and Toxicology, Pub. Date: Jul-30-2003, Page Range: 27-46, Springer Protocols.

7. [Aidonidis I](#), Egel E, Hilbel T, Kuebler W, Brachmann J. Effects of prenylamine and AQ-A 39 on reentrant ventricular arrhythmias induced during the late myocardial infarction period in conscious dogs. *J Cardiovasc Pharmacol* 22: 401-407, 1993. In: "**Acquired Long QT Syndrome**", page 160, by A. John Camm, Marek Malik and YeeGuan Yap (2004) - Wiley - Blackwell.

## ΔΗΜΟΣΙΕΥΣΕΙΣ

### **1. Dose-Dependent Effects of Ranolazine on Reentrant Ventricular Arrhythmias Induced After Subacute Myocardial Infarction in Rabbits.**

Moschovidis V, Simopoulos V, Stravela S, Dipla K, Hatziefthimiou A, Stamatiou R, **Aidonidis I**. *J Cardiovasc Pharmacol Ther.* 2019 Jun 26:1074248419858113. doi: 10.1177/1074248419858113. [Epub ahead of print]

### **2. Amiodarone plus Ranolazine for Conversion of Post-Cardiac Surgery Atrial Fibrillation: Enhanced Effectiveness in Reduced Versus Preserved Ejection Fraction Patients.**

Simopoulos V, Hevas A, Hatziefthimiou A, Dipla K, Skoularigis I, Tsilimingas N, **Aidonidis I**. *Cardiovasc Drugs Ther.* 2018 Dec;32(6):559-565.

### **3. Ranolazine Added to Amiodarone Facilitates Earlier Conversion of Atrial Fibrillation Compared to Amiodarone-Only Therapy.**

Tsanaxidis N, **Aidonidis I**, Hatziefthimiou A, Daskalopoulou SS, Giamouzis G, Triposkiadis F, Skoularigis I. *Pacing Clin Electrophysiol.* 2017 Apr;40(4):372-378.

### **4. Ranolazine enhances nicardipine induced relaxation of alpha1-adrenoceptor mediated contraction on isolated rabbit aorta.**

Malavaki C, Hatziefthimiou A, Daskalopoulou SS, Stefanidis I, Karatzaferi C, **Aidonidis I**. *Acta Cardiol* 2015;70(2):157-162.

### **5. Physiology of pericardial fluid production and drainage.**

Vogiatzidis K, Zarogiannis SG, **Aidonidis I**, Solenov EI, Molyvdas PA, Gourgoulianis KI, Hatzoglou C. *Front Physiol.* 2015 Mar 18;6:62.

### **6. Effectiveness of aldosterone antagonists for preventing atrial fibrillation after cardiac surgery in patients with systolic heart failure: a retrospective study.**

Simopoulos V, Tagarakis G, Hatziefthimiou A, Skoularigis I, Triposkiadis F, Trantou V, Tsilimingas N, **Aidonidis I**. *Clin Res Cardiol.* 2015 Jan;104(1):31-7.

### **7. Azithromycin and Cardiac Arrhythmias.**

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Μέλος 3μελών συμβουλευτικών και 7μελών εξεταστικών επιτροπών **6 διδακτορικών διατριβών** που ολοκληρώθηκαν. Μέλος συμβουλευτικής επιτροπής **1 μεταπτυχιακού διπλώματος** που ολοκληρώθηκε.

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## THE DIHYDROPYRIDINE CALCIUM ANTAGONIST NICARDIPINE REDUCES AORTIC SMOOTH MUSCLE CELL VIABILITY, PROLIFERATION AND MIGRATION

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**SESSION** [All day Poster Session](#)

**SPEAKER** [Rodopi Stamatiou](#)

Congress : Frontiers in CardioVascular Biology 2018

- Topic : Basic Science
- Sub-topic : Vascular Biology and Physiology, Other
- Session type : Poster Session
- FP Number : P165

**Authors** : R Stamatiou (Larissa,GR), **I Aidonidis** (Larissa,GR), C Malavaki (Larissa,GR), E Paraskeva (Larissa,GR), A Hatziefthimiou (Larissa,GR)

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