

KOSTAS N. FOUNTAS
ASSOCIATE PROFESSOR OF NEUROSURGERY
SCHOOL OF MEDICINE
UNIVERSITY OF THESSALY

PERSONAL DETAILS

NAME	FOUNTAS, Kostas N.
DATE OF BIRTH	July 9, 1966
PLACE OF BIRTH	Athens, Greece
PRESENT ADDRESS	University Hospital of Larissa, Medical School, University of Thessaly, Biopolis, 41110, Larissa, Greece
CITIZENSHIP	Greek
PHONES	Hospital -----+30-2413502738 Fax-----+30-2413501014 Cellphone-----+30-6946989600
CURRENT POSITION	Associate Professor of Neurosurgery, Head of Neurosurgery Department

EDUCATION

High School: First Lyceum, Athens, Greece Top student of the class. Graduated with honors among 180 students, for all six consecutive high school years.	1978-1984
Medical School: Pre-medical and Medical (6 year accelerated, combined program) Medical School of Athens University, Greece	1985-1991

POST-GRADUATE TRAINING

- Elective rotation in neurological surgery. Northwestern University Medical Center, Chicago, Ill. U.S.A. February 1991-April 1991
- Neurosurgical Internship - "HYGIA" General Hospital, Athens, Greece. June 1991-March 1993
- Surgical Fellowship: Boston University, Boston, Mass. USA. March 1993-August 1993
- Neurosurgical Residency: 401 General Military Hospital, Department of Neurosurgery, Athens, Greece. March 1994-March 1995
- Neurosurgery Residency, Medical Center of Central Georgia, Macon, GA. July 1995-June 2001
- Fellowship in Functional and Epilepsy Surgery, Medical College of Georgia. July 2001-July 2003

THESIS

"Comparative analysis of the results of the pre-operative evaluation of intra-cranial tumors by using Proton Magnetic Resonance Spectroscopy and Open or Stereotactic Biopsy".

This thesis was completed under the guidance of Professor of Neurosurgery, Th. Maraziotis, M.D., PhD, School of Medicine, University of Patras, Patras, Greece.

My thesis was completed and was published in the Stereotactic and Functional Neurosurgery

Summary

The ability of magnetic resonance spectroscopy (MRS) to differentiate neoplastic brain cells and their metabolic and structural characteristics is evaluated. We examined 120 patients with brain tumors using a 1.5-tesla MRI unit and proton MRS. The peak areas of N-acetyl-aspartate (NAA), phosphocreatine-creatine (Pcr-Cr), choline-containing compounds (Cho), lactate (Lac), lipids, myoinositol, amino acids and the metabolic ratios of NAA/Pcr-Cr, NAA/Cho and Cho/PCR-Cr were calculated by a standard integral algorithm. In normal brain tissue, the following metabolites were identified: NAA at 2.0 ppm, Pcr-Cr at 3.0 ppm and Cho at 3.0 ppm. The different concentrations of the metabolites examined and their role in the biochemical profile of different types of tumors are discussed. The confidence interval of the MRS versus pathology was between 0.9 and 0.954, while the respective rates for conventional MRI it was between 0.52 and 0.631 for single voxel MRI versus pathology. The Cho/Pcr-Cr ratio is a very important malignancy marker for histologic tumor grading of astrocytomas. The greater this ratio, the higher the grade of astrocytoma. NAA/Pcr-Cr together with Cho/Pcr-Cr helps specify the presence or absence of a neoplasm. Proton MRS is a useful and promising diagnostic modality not only in diagnosing but also in grading solid brain tumors.

MILITARY OBLIGATIONS

Fulfilled Military obligations at the Medical Branch of the Greek Marine Corps

DIPLOMAS

M.D., University of Athens, certificate #140661

1991

ECFMG, certificate #432-593-2.	1990
USMLE Steps 1,2,3	2004
TOEFL, certificate # H566067.	1996, 1998,2001,2003
Fundamental Critical Care Society Certificate (FCCS)	1997, 2000, 2003
Animal Research Certification	1997, 1998
ACLS Certification	1998
PALS Certification	2004
European Boards in Neurosurgery	2002
Greek National Boards in Neurosurgery	2001

PREVIOUS CLINICAL APPOINTMENTS

1. Assistant Professor of Neurosurgery, Mercer University School of Medicine, Macon, GA, USA
2. Clinical Instructor at the Medical College of Georgia, Augusta, GA, USA
3. Associate Professor at the MCG.

CURRENT APPOINTMENTS

1. Assistant Professor of Neurosurgery, School of Medicine, University of Thessaly, Larissa, Greece. Head of Neurosurgery Department, Univesrity Hospital of Larissa, Larissa, Greece.

VISITING PROFESSOR APPOINTMENTS

1. Visiting Professor at the Department of Neurosurgery of the Medical College of Georgia, Augusta, GA, USA, May 2013.
2. Visiting Professor at the Department of Neurosurgery of the University of Rochester, Rochester, NY, USA, May 2013.

JOURNALS REVIEWER

1. Reviewer of "*Medical Science Monitor*" Journal

2. Reviewer of "*Epilepsia*" Journal
3. Reviewer of "*Southern Medical Journal*"
4. Reviewer of "*Neurology India*"
5. Reviewer of "*Ophthalmic and Physiological Optics*"
6. Reviewer of "*Zentralblatt fur Neurochirurgie*"
7. Reviewer of "*Journal of Pediatric Neurology*"
8. Reviewer of "*Neuropsychologia*"
9. Reviewer of "*Journal of Orthopaedic Surgery and Research*"
10. Reviewer of "*Journal of Neurology*"
11. Reviewer of "*World Journal of Surgical Oncology*"
12. Reviewer of "*Clinical Neurology and Neurosurgery*"
13. Reviewer of "*Medical Hypotheses*"
14. Reviewer of "*Cognitive and Behavioral Neurology*"
15. Reviewer of "*BMC Emergency Medicine*"
16. Reviewer of "*CML Neurology*"
17. Reviewer of "*Neurocritical Care Journal*"
18. Reviewer of "*Neurotherapeutics*"
19. Reviewer of "*Eastern Journal of Medicine*"
20. Reviewer of "*Biological Psychiatry*"
21. Reviewer of "*Acta Radiologica*"
22. Reviewer of "*Acta Radiologica Short Reports*"
23. Reviewer of "*Journal of Critical Care*"
24. Reviewer of "*World Neurosurgery*"
25. Reviewer of "*Brain and Development*"
26. Reviewer of "*Journal of Clinical Neurosciences*"

27. Reviewer of **“Current Drug Therapy”**
28. Reviewer of **“BMJ Case Reports”**
29. Reviewer of **“Journal of Neurosurgical Anesthesiology”**
30. Reviewer of **“Neuroscience and Behavioral Reviews”**
31. Reviewer of **“Neurology Research International”**
32. Reviewer of **“Cellular and Molecular Neurobiology”**
33. Reviewer of **“Journal of Spine and Neurosurgery”**
34. Reviewer of **“Case Reports in Medicine”**
35. Reviewer of **“Intensive Care Medicine”**
36. Reviewer of **“Journal of Neurosurgical Science”**

MEMBER OF JOURNAL AND SCIENTIFIC ORGANIZATIONS EDITORIAL BOARDS

1. Member of the board of the Directors of the Hellenic Neurosurgical Society (Head of the Educational Committee).
2. Member of the editorial advisory board of **“Neurosurgery”**
3. Member of the editorial advisory board of **“Clinical Neurology and Neurosurgery”**
4. Member of the editorial advisory board of **“Journal of Pediatric Epilepsy”**
5. Member of the editorial advisory board of **“Journal of World Neurosurgery”**
6. Member of the editorial advisory board of **“Case Reports in Radiology”**
7. Member of the editorial advisory board of **“Open Journal of Pediatrics”**
8. Member of the editorial board of **“World Journal of Orthopedics”**
9. Member of the editorial board of **“Dataset Papers in Medicine”**
10. Representative of the Hellenic Neurosurgery Society to the **“World Federation of Neurological Surgeons”**

11. Representative of the Hellenic Neurosurgery Society to the “**UEMS**”