

Curriculum Vitae

PERSONAL DATA

- Name/Surname: Efrosini Papadaki
- Address: Vermiou 3, Heraklion Crete
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- Date of birth: 6/1/1964
- Nationality: Greek

EDUCATION:

- Graduation from **Athens University Medical School**: 29/7/1993 (Grade A)
- Postgraduate education-specialization in Radiology:
University Hospital of Heraklion, Crete (Chairperson: Prof. N. Gourtsoyiannis).
- **Certification in Radiology**: 29/3/2000
- 23/7/2004: acceptance by the Medical Faculty of the University of Crete of the **M.D. Thesis** on the "Application of non-conventional MRI techniques in patients with multiple sclerosis". Grade=A (Supervisor: Prof. N. Gourtsoyiannis)
- 22/4/2005-28/9/2005: **visiting research scholarship in Neuroradiology at the MRI Department of the New York University School of Medicine, NYU Medical Center** (Chairperson: Prof. Robert I. Grossman, supervisor: Prof. Meng Law).
- 12/5/2008-30/5/2008: **invited lecturer at Mount Sinai School of Medicine, New York, USA.**
- 15/10/2012: **European Certificate/ Diplomain Neuroradiology**, certified by the European Society of Neuroradiology (ESNR).

PROFESSIONAL EXPERIENCE

Present position

- **Assistant Professor in Neuroradiology**, School of Medicine, University of Crete, Greece
- **Head of the MRI Unit**, at the Department of Radiology, University Hospital of Heraklion, Crete.
- **Chairperson in Diagnostic Neuroradiology**, at the Department of Radiology, University Hospital of Heraklion, Crete.
- **Affiliated member of Institute of Computer Science, Foundation of Research and Technology, (FORTHNET)**Heraklion, Crete, Greece

MEMBER OF SCIENTIFIC SOCIETIES/ ASSOCIATIONS

- European Society of Radiology
- European Society of Neuroradiology
- Balkan Society of Radiology
- Greek College of Radiology
- Neuroradiology division of the Greek society of Radiology
- Cretan Society of Radiology
- Medical Association of Heraklion Crete

Clinical experience

- Obligatory period as general practitioner: 22/3/2000- 7/4/2001
- 8/4/2001-31/10/2001: Consultant Radiologist at the Medical Center "Cretan Medical care", Hersonissos, Crete.
- 1/11/2001-17/3/2004: Consultant Radiologist at the Medical Center («EUROMEDICA», Heraklion Crete (από 1/12/2002-17/3/2004: head person of the CT Department).
- 8/4/2001-17/3/2004: Docent and honorary consultant in Radiology/Neuroradiology at the Department of Radiology of the University Hospital of Heraklion.
- 18/3/2004- 27/5/2008: Docent and full-paid consultant in Radiology/ Neuroradiology at the Department of Radiology of the University Hospital of Heraklion.
- 22/4/2005-28/9/2005: Research Fellow in Neuroradiology, New York University Medical Center, USA.
- 28/5/2008-13/1/2015: Lecturer in Neuroradiology at the University of Crete.
- 13/1/2015-today: Assistant Professor in Neuroradiology at the University of Crete (permanent position since 28/8/2018).

TEACHING EXPERIENCE

1 DOMESTIC (UNIVERSITY OF CRETE-UNIVERSITY HOSPITAL OF HERAKLION)

Undergraduate

- **Faculty member at the academic undergraduate program of the Medical School, University of Crete,**
 - ✓ Lecturing at the academic courses “Radiology A” and “Radiology B”, since 2004.
 - ✓ Chair of the academic course “Radiological Anatomy”, since 2016.
 - ✓ Chair of the academic course “Radiology A”, since 2019.
- Training of foreign medical students and Radiology residents in Neuroradiology at the Department of Radiology, University Hospital of Heraklion, as part of the **Erasmus Program**, since 2005.

Postgraduate

- **Training in Neuroradiology of residents in Radiology** at the Department of Radiology, University Hospital of Heraklion, since 2001.
- Training in **Neuroradiology of visiting Greek residents and Radiologists** at the Department of Radiology, University Hospital of Heraklion, since 2005.
- **Training of foreign residents and Radiologists in Neuroradiology** at the Department of Radiology, University Hospital of Heraklion, as part the **exchange program for fellowship of the European School of Radiology (ESOR)**. Our Department is one of the 27 European Educational Centers in Neuroradiology, since 2012.
- Faculty member of the **academic postgraduate educational program in Radiology** of the Department of Radiology, University Hospital of Heraklion, since 1999.
- Faculty member of the academic educational program of the Departments of Neurology, Neurosurgery, Vascular Surgery, Nuclear Medicine, Medical Physics, Ophthalmology, Endocrinology, Maxillary Surgery and Otorhinolaryngology at the University Hospital of Heraklion, since 2001.

2. FACULTY MEMBER OF INTERNATIONAL POSTGRADUATE COURSES IN NEURORADIOLOGY

- European School of Radiology (ESOR) **GALEN Foundation Courses in Neuroradiology**
Participation as faculty member in 2008, 2011, 2012, 2014, 2015, 2017
- **Erasmus Course** in Magnetic Resonance Imaging (CNS I, II)
Participation as faculty member in 2013, 2019

Local organizer of the ERASMUS MRI course Central Nervous System II, 1-5 September 2019, in Heraklion Crete

- **European Course in Neuroradiology, Diagnostic and Interventional**(Pierre Lasjaunias European Course in Neuroradiology)
Participation as faculty member in 2014, 2016
 - Examiner for the **European Diploma in Diagnostic Neuroradiology**
Belgrade 2016, Rotterdam 2018, Oslo 2019

3. INVITED LECTURES

1.1 IN INTERNATIONAL CONGRESSES/ COURSES

1. "Whitematterdiseases" 2nd EMCMRI, (Eastern Mediterranean Congress of Magnetic Resonance Imaging). Athens, Greece, October 2004.
2. "Intracranial hemorrhage and vascular lesions". 5th Aegean Postgraduate Radiology Course. Heraklion, Greece, 28-30 September 2007.
3. "Neuroimaging of demyelinating disorders". 3rd Aegean meeting on Neurologic therapeutics. Heraklion, Greece, 25-27 May 2007.
4. "Demyelinating disease". Invited lecture at Mount Sinai School of Medicine, New York, USA, May 2008.

5. "CNS malignancies". ESOR GALEN Foundation Course on Neuro/Musculoskeletal Radiology. Lublin, Poland, 27-29 June 2008.
6. "CNS tumors: postoperative evaluation". 8th Balkan Congress of Radiology. Alexandroupolis, Greece, 29-31 October 2010.
7. "Stroke: diagnosis and therapy". ESOR GALEN Foundation Course on Neuroradiology. Iasi, Romania, 12-14 May 2011.
8. "Stroke: diagnosis and therapy". ESOR GALEN Foundation Course on Neuroradiology. Novi Sad, Serbia, 26-28 April 2012.
9. "Neuroimaging in multiple sclerosis with conventional and advanced MRI techniques". 8th Aegean meeting on Neurologic therapeutics. Heraklion, Greece, 9-11 June 2012.
10. "Hyperintensities on DWI". ERASMUS course on MRI-Central Nervous System I, Thessaloniki, Greece, 12-16 June 2013.
11. "Demyelinating diseases of the brain" 11th Balkan Congress of Radiology. Ohrid, Scopjia, 3-6 October 2013.
12. "MS and other idiopathic inflammatory CNS diseases: diagnostic criteria and mimic" Pierre Lasjaunias European Course in Neuroradiology, 12th cycle, 4th course of "Trauma and degenerative disease. Athens, Greece, 6-10 April 2014.
13. "Imaging in SLE: MRI, fMRI, PET and molecular imaging". 9th European Lupus Meeting. Athens, Greece, 23-26 April 2014.
14. "CNS infections". ESOR GALEN Foundation Course on Neuroradiology. Wroklaw, Poland, 26-28 June 2014.
15. «Postoperative spine". 12th Balkan Congress of Radiology, Istanbul, Turkey, 16-19 October 2014.
16. "Advances in multiple sclerosis". ESOR AIMS-Advanced Neuroimaging, Curitiba, Brazil 27-28 August 2015.

17. "Advances in multiple sclerosis". ESOR AIMS-Advanced Neuroimaging, Bello Horizonte, Brazil 29-30 August 2015.
18. "MS and other idiopathic inflammatory CNS diseases: diagnostic criteria and mimic". Pierre Lasjaunias European Course of diagnostic and interventional Neuroradiology, 13rd cycle, 4th course of "Trauma and degenerative disease. Rhodes, Greece, 19-23 April 2016.
19. "Dementia: conventional and advanced neuroimaging" 39th European Society of Neuroradiology (ESNR) Annual meeting. Belgrade, Serbia, 16-18 September 2016.
20. "MRI in Dementia" 14th Balkan Congress of Radiology, Thessaloniki, Greece, 13-15 October 2016.
21. "Traumatic brain injury" ESOR GALEN Foundation Course on Neuroradiology. Prague, Czech Republic, 25-27 May 2017.
22. "Depression in Alzheimer's dementia" 40th European Society of Neuroradiology (ESNR) Annual meeting. Malmo, Sweden, 13-17 September 2017.
23. "Update on imaging of malignant head and neck tumors" 15th Balkan Congress of Radiology, Budapest, Hungary, 12-14 October 2017.
24. "Depression in Alzheimer's dementia" 16th Balkan Congress of Radiology, Kusadasi, Turkey, 4-6 October 2018.
25. "Update on neuroimaging in Traumatic Brain Injury", 16th Balkan Congress of Radiology, Kusadasi, Turkey, 4-6 October 2018.
26. "Diagnosis and treatment of intracranial hypotension" European Congress of Radiology, Vienna, Austria, 27th Feb - 3rd March, 2019.
27. "Spinal imaging of intracranial hypotension". ERASMUS MRI course CNS II spinal and pediatric imaging. Heraklion, Greece, 1-5 September, 2019.
28. "Gadolinium deposition in the brain" 17th Balkan Congress of Radiology, Heraklion Greece, October 2019.

29. "Diagnosis and treatment of intracranial hypotension" European Congress of Radiology, Vienna, Austria, 28th 11-14March, 2020.

3.2 IN GREEK CONGRESSES/ MEETINGS

1. "Occupational radiation exposure during pregnancy". 6th University Congress of Radiology, Larissa 1996.
2. "Educational program in Radiology of the University Hospital of Heraklion". 6th University Congress of Radiology, Larissa 1996.
3. "General guides of EAR for the education in Radiology". 7th University Congress of Radiology, Heraklion 1997.
4. "Educational program in Radiology of the University Hospital of Heraklion". 11th Hellenic Congress of Radiology, Thessaloniki 1998.
5. "Occupational radiation exposure during pregnancy". 5th Hellenic Congress of Radiotherapy and Oncology, Thessaloniki 1999.
6. "Application of non-conventional MRI techniques in multiple sclerosis". 15th University Congress of Radiology, Athens 2005.
7. "Imaging of cellular and paracellular neoplasms". 8th Hellenic Congress of Radiotherapy and Oncology, AgiaPelagia, Crete 2006.
8. "Imaging of the cellular and paracellular regions". 2nd Postgraduate Course in Neurosurgery, Heraklion 2006.
9. "Intracranial hemorrhage and vascular lesions". 16th University Congress of Radiology, Alexandroupolis, 2006.
10. "Application of non-conventional MRI techniques in parkinsonism". 9th University Congress of Nuclear Medicine and Neurology, Heraklion 2007.

11. "MRI in dementia". 9th University Congress of Nuclear Medicine and Neurology, Heraklion, 2007.
12. "Application of non-conventional MRI techniques in acute stroke". 9th University Congress of Nuclear Medicine and Neurology, Heraklion 2007.
13. "Application of non-conventional MRI techniques in brain tumors". 9th University Congress of Nuclear Medicine and Neurology, Heraklion 2007.
14. "Occupational radiation exposure during pregnancy". 14th Pancretan Congress, Rethymnon 2008.
15. "MRI and glioma". 14th Pancretan Congress, Rethymnon 2008.
16. "Imaging strategies for the diagnosis and treatment of brain tumors" . 3rd Postgraduate Course in Neurosurgery, Heraklion 2009.
17. "MR Imaging of angiogenesis". 17th Postgraduate University Congress in Clinical Oncology, Heraklion 2009.
18. "Neuroimaging in dementia". 2nd Cretan meeting for Alzheimer disease, Heraklion 2010.
19. "Advanced MRI in intracranial tumours". 22th Hellenic Congress of Nuclear Medicine, Alexandroupolis 2011.
20. "Diagnostic imaging criteria in multiple sclerosis". Scientific meeting of the Neurology Department of University Hospital Of Heraklion, Heraklion 2011.
21. "Imaging of the orbits". Scientific meeting of the Cretan Ophtalmologic Society, Heraklion 2011.
22. "The role of MRI in diagnosis and therapy of brain gliomas". 11th Hellenic congress of Nuclear Medicine, Kavouri Athens 2012.
23. "Advanced MRI in multiple sclerosis". Scientific meeting of the Hellenic Neuroscience Academy Skiathos 2012.

24. "Advanced MRI techniques in dementia". University Course of Nuclear Medicine for imaging in Neurology and Neurosurgery, Heraklion 2012.
25. "Advanced MRI techniques in stroke diagnosis and therapy". University Course of Nuclear Medicine for imaging in Neurology and Neurosurgery, Heraklion 2012.
26. "Advanced MRI techniques for the diagnosis and therapy of brain tumors". University Course of Nuclear Medicine for imaging in Neurology and Neurosurgery, Heraklion 2012.
27. "Advanced MRI techniques for the diagnosis of Parkinsonism". University Course of Nuclear Medicine for imaging in Neurology and Neurosurgery, Heraklion 2012.
28. "Imaging of brain tumours". 5th Summer School of Clinical Oncology, Heraklion 2012.
29. "Role of Neuroimaging in Alzheimer Disease". 2nd Cretan meeting for Alzheimer disease, Heraklion 2012.
30. "Imaging of spine degenerative diseases". 68th Hellenic Congress in Orthopedics, Athens 2012.
31. "Hyperintensities in Diffusion-weighted imaging of the brain". 18th Hellenic congress of Radiology, Athens 2012.
32. "New imaging insights in CNS diseases". 16th Pancretan Medical Course, Agios Nikolaos 2012.
33. "Natalizumab and PML in multiple sclerosis". Postgraduate Course in Neuroradiology, Heraklion 2013.
34. "Imaging of stroke". Postgraduate Course in Neuroradiology, Heraklion 2013.
35. "CNS cases with orbital involvement". Postgraduate Course in Neuroradiology, Heraklion 2013.
36. "New insights in head and neck imaging". Postgraduate Course in DNT Heraklion 2013.
37. "CNS emergencies in children. 21st University Congress of Radiology, Heraklion 2013.

38. "Imaging of demyelinating diseases". 5th Cretan-Cyprus Congress of Rheumatology, Heraklion 2013.
39. "Clinical application of MR imaging in Neuroradiology". Meeting of the Hellenic Society of Medical Physics, Heraklion 2013.
40. "Imaging of Traumatic Brain Injury" 17^o Pancretan Medical Course, Lasithi 2014.
41. "Application of non-conventional MRI techniques in multiple sclerosis : from research to clinical practice" .19^o Hellenic congress of Radiology, Athens 2014.
42. "Imaging of multiple sclerosis". Intense Course in Neurology on Multiple Sclerosis Disease 2015), Athens 2015.
43. "CT imaging of intracranial aneurysms (State-of-the-art)". 22^o University Congress of Radiology Athens 2015.
44. "Clinical application of MR imaging in Neuroradiology". Meeting of the Hellenic Society of Medical Physics, Athens 2015.
45. "Imaging of demyelinating diseases". Neurology Days 2015, Larissa 2015.
46. "Neuroimaging in Rheumatology: experience on the Cretan cohort". 10th clinical education in Musculoskeletal Radiology, Heraklion 2016
47. "MR imaging in dementia". University Course of Nuclear Medicine for imaging in Neurology: functional and molecular imaging, Heraklion 2016.
48. "Advanced MRI techniques for the imaging of malignant brain tumors". University Course of Nuclear Medicine for imaging in Neurology: functional and molecular imaging, Heraklion 2016.
49. "Imaging of acute stroke". University Course of Nuclear Medicine for imaging in Neurology: functional and molecular imaging, Heraklion 2016.

50. "MRI imaging of epilepsy". University Course of Nuclear Medicine for imaging in Neurology: functional and molecular imaging, Heraklion 2016.
51. "Differential diagnosis of dementia (presentation of cases)".5thPancretan Meeting of Alzheimer disease and 1st Hellenic meeting in active and healthy aging, Heraklion 2016.
52. "Non-conventional MRI techniques for imaging of intracranial tumors" 20^o Hellenic congress of Radiology, Athens 2016.
53. "Application of non-conventional MRI techniques in diagnosis of dementia". 23rd University Congress of Radiology, Alexandroupolis 2017.
54. "Imaging of systemic Lupus Erythematosus". 2nd School of Systemic Lupus erythematosus, Athens 2017.
55. "Postoperative imaging of gliomas 6th Congress of continued professional education in diagnostic Radiology, Athens 2017.
56. "MR imaging of Alzheimer's dementia». 14th Hellenic Congress of Nuclear Medicine, Heraklion 2018.
57. "Differential diagnosis of MS and non-MS lesions" 21st Hellenic congress of Radiology, Athens 2018.
58. "Don't miss lesions in Neuroradiology".24th University Congress of Radiology, Patra, 2019.
59. "MRI perfusion in stroke".24th University Congress of Radiology, Patra, 2019.

RESEARCH WORK

1. PARTICIPATION IN FUNDED RESEARCH PROJECTS

1. Mental Simulation of Action-MESI. Aristeia II Program, Operational Programme for Education and Lifelong Learning 2007-2013 (E.P.E.D.V.M.) of the NSRF (2007 - 2013), 2014-Fall 2015.

2. Advanced Age: Designing a protocol for the Evaluation of Cognitive Functions and Quality of Life and Evidence-Based Interventions. Cross-border Cooperation Programme “Greece-Cyprus 2007-2013”, co-financed by European Union and National Funds. (2012- 2014).
3. Project 1, Multidisciplinary Network for the Study of Alzheimer's Disease. Thalis program, co-financed by the European Union (European Social Fund - ESF) and Greek national funds through the Operational Program “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) (2013- 2015).
4. Parallel algorithms for very large tensor processing (PARTENSOR; Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK)).
5. Cognitive, psychoemotional and neuroimaging predictors of disease progression in the early stages of Multiple Sclerosis. Hellenic Foundation for Research and Innovation, Post-Doctoral Fellowship Grants. 2017

2. SUPERVISOR IN MEDICAL THESES (UNIVERSITY OF CRETE, MEDICAL SCHOOL)

1. “Myelin content changes in probable Alzheimer’s disease and mild cognitive impairment: associations with age and severity of neuropsychiatric impairment”, by Eleftherios Kavroulakis, **completed** and presented in February 2018.
2. “Multiparametric analysis of quantitative indices of different non-conventional MRI techniques applied in patients with Multiple Sclerosis (MS) and Clinically Isolated syndrome (CIS)”, by Eleftherios Kontopodis.
3. “Correlation between structural and functional MRI abnormalities and neuropsychiatric manifestations in demyelinating and autoimmune diseases”, by Stelios Dimitriou.
4. “Application of optimized functional MRI techniques in patients with ischemic stroke”, by Styliani Alefantinou.
5. Multi-echo T2 sequence for the quantitative evaluation of demyelination in patients with multiple sclerosis and Systemic Lupus Erythematosus”, by Irimi Spanaki

3.PUBLICATIONS

publications: 53, h-index: 11 (scopus)

3.1 MEDICAL THESIS

“Application of non-conventional MRI techniques in patients with multiple sclerosis”.

3.2 BOOK CHAPTERS

1. Non-conventional MRI techniques in Neuropsychiatric Systemic Lupus Erythematosus (NPSLE): Emerging tools to elucidate the pathophysiology and aid the diagnosis and management. **E.Papadaki**, D.Boumpas, in “Neuroimaging Clinical Applications”. Intechweb.org 2012, edited by Peter Bright, pg 441-467. DOI: 10.5772/24627.

2. Role of Computer Tomography and Magnetic Resonance Imaging in brain trauma. **E.Papadaki**, A.Karantanas, BRAIN TRAUMA. Editors Chatjigeorgiou G, Dardiotis E. Medical Editions VAGIANAKIS 2012, pg 128-143.

3. Non-inherited cranial infections. **E.Papadaki**, **Clinical Radiology**. Medical Editions KONSTANTARAS, Athens 2012, pg 436-445.

1.3 PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Regional Cerebral Perfusion Correlates With Anxiety in Neuropsychiatric SLE: Evidence for a Mechanism Distinct From Depression **Papadaki E**, Kavroulakis E, Bertsiaris G, Fanouriakis A, Karageorgou D, Sidiropoulos P, Papastefanakis E, Boumpas DT, Simos P. *Lupus* 2019, 28 (14), 1678-1689

2. Quantification of effective orbital volume and its association with axial length of the eye. A 3D-MRI study. Georgios Bontzos G, **Papadaki E**, Mazonakis M, Maris TG, Kapsala Z, Styliani Blazaki S, Drakonaki E, Detorakis E. *Rom J Ophthalmol*. 2019 Oct-Dec; 63(4): 360–366.

3. Switching from fingolimod to alemtuzumab in patients with highly active relapsing-remitting multiple sclerosis: A case series. Notas K, **Papadaki E**, Orologas A, Moschou M, Kimiskidis VK. *Mult Scler Relat Disord*. 2019 Nov 11;38:101517.

4. Brain SPECT and perfusion MRI: do they provide complementary information about the tumour lesion and its grading? Daboudi M, **Papadaki E**, Vakis A, Chlouverakis G, Makrakis D, Karageorgou D, Simos P, Koukouraki S. Clin Radiol. 2019 Aug;74(8):652.e1-652.e9. doi: 10.1016/j.crad.2019.03.025. Epub 2019 Jun 1.

5. Age-related deep white matter changes in myelin and water content: A T2 relaxometry study. **Papadaki E**, Kavroulakis E, Kalaitzakis G, Karageorgou D, Makrakis D, Maris TG, Simos PG. J Magn Reson Imaging. 2019 Mar 12. doi: 10.1002/jmri.26707. [Epub ahead of print].

6. Estimation of Morphological Characteristics in Asymmetrical Myopic Posterior Staphyloma using Optical Coherence Tomography. Bontzos G, Tsilimbaris M, **Papadaki E**, Maris TG, Mazonakis M, Detorakis ET. Middle East Afr J Ophthalmol. 2018 Jul-Dec;25(3-4):131-136.

7. Optimising T2 relaxation measurements on MS patients utilising a multi-component tissue mimicking phantom and different fitting algorithms in T2 calculations. Georgios I Kalaitzakis, **Efrosini Papadaki**, Eleftherios Kavroulakis, Themistoklis Boursianis, Konstantinos Marias, Thomas G Maris. HJR 2019; 4; 18-31.

8. Gadolinium deposition in the brain: current knowledge and recommendations. Androniki Kozana, **Efrosini Papadaki** HJR 2019; 4; 32-50.

9. Investigating the Role of Model-Based and Model-Free Imaging Biomarkers as Early Predictors of Neoadjuvant Breast Cancer Therapy Outcome. Kontopodis E, Venianaki M, Manikis GC, Nikiforaki K, Salvetti O, **Papadaki E**, Papadakis GZ, Karantanas AH, Marias K. IEEE J Biomed Health Inform. 2019 Sep;23(5):1834-1843.

10. Neuropsychiatric lupus or not? Cerebral hypoperfusion by perfusion-weighted MRI in normal appearing white matter in primary neuropsychiatric lupus erythematosus. **Papadaki E**, Fanouriakis A, Kavroulakis E, Karageorgou D, Sidiropoulos P, Bertias G, Simos P, Boumpas DT. Annals of the Rheumatic Diseases Ann Rheum Dis. 2018 Mar;77(3):441-448.

11. Ex vivo orbital volumetry using stereology and CT imaging: A comparison with manual planimetry. Bontzos G, Mazonakis M, **Papadaki E**, Maris TG, Blazaki S, Drakonaki EE, Detorakis ET. Eur Radiol. 2018 Aug 22. doi: 10.1007/s00330-018-5691-9. [Epub ahead of print]

12. Multinodular and vacuolating neuronal tumor incidentally discovered in a young man: Conventional and advanced MRI features. Dimitrios Makrakis, Stefanos Veneris, **Efrosini Papadaki**. Radiol Case Rep. 2018 Oct; 13(5): 960–964.
13. Response to letter: 'Response to: 'Neuropsychiatric lupus or not? Cerebral hypoperfusion by perfusion-weighted MRI in normal-appearing white matter in primary neuropsychiatric lupus erythematosus' by Papadaki *et al*' by Wallace. **Papadaki E**, Fanouriakis A, Kavroulakis E, Karageorgou D, Sidiropoulos P, Bertias G, Simos P, Boumpas DT. Annals of the Rheumatic Diseases 2018 Jan 23. pii: annrheumdis-2018-212949. doi: 10.1136/annrheumdis-2018-212949. [Epub ahead of print].
14. Myelin content changes in probable Alzheimer's disease and mild cognitive impairment: Associations with age and severity of neuropsychiatric impairment. Kavroulakis E, Simos PG, Kalaitzakis G, Maris TG, Karageorgou D, Zaganas I, Panagiotakis S, Basta M, Vgontzas A, **Papadaki E**. J MagnReson Imaging. 2018 May;47(5):1359-1372. doi: 10.1002/jmri.25849.
15. Incremental diagnostic information obtained via novel Dynamic Contrast Enhanced MRI framework applied on Multiple Sclerosis patients: A preliminary study. Kontopodis EE, Manikis G.C., Nikiforaki K, Venianaki M, Marias K, Maris TG, Karantanas A, **Papadaki E**. 18th2018 IEEE EMBS International Conference on Biomedical and Health Informatics, BHI 2018.DOI: 10.1109/BHI.2018.8333366
16. Recall of semantically related word-lists in two patients with herpes simplex encephalitis. Kouvatsou, Z.K., Masoura, E., **Papadaki, E.Z.**, Kimiskidis, V.K. Neurology Psychiatry and Brain Research 2017;25: 1-8.
17. Mechanical optic neuropathy in high myopia. Bontzos G, Plainis S, **Papadaki E**, Giannakopoulou T, Detorakis E. Clin Exp Optom. 2017 May 14. doi: 10.1111/cxo.12548. [Epub ahead of print].
18. Neural foundations of overt and covert actions. Simos PG, Kavroulakis E, Maris T, **Papadaki E**, Boursianis T, Kalaitzakis G, Savaki HE. Neuroimage 2017 May 15;152:482-496.
19. Cognitive event-related potentials in multiple sclerosis: Correlation with MRI and neuropsychological findings. Kimiskidis VK, Papaliagkas V, Sotirakoglou K, Kouvatsou ZK, Kapina VK, **Papadaki E**, Tsimourtou V, Masoura E, Kazis DA, Papayiannopoulos S, Geroukis T, Bostanjopoulou S. MultSclerRelatDisord 2016;10:192-197.

- 20.** Cerebral perfusion disturbances in traumatic brain injury: A preliminary study about direct and indirect effects on memory and psychoemotional outcome. Kavroulakis E, Simos P, Papadopoulou S, Demetriou S, Karageorgou D, Vakis A, **Papadaki E**. HJR 2016;1:11-26
- 21.** High resolution MR eye protocol optimization: Comparison between 3D-CISS, 3D-PSIF and 3D-VIBE sequences. Tsiapa I, Tsilimbaris MK, **Papadaki E**, Bouziotis P, Pallikaris IG, Karantanas AH, Maris TG. Phys Med. 2015 Apr 10.
- 22.** A case of herpes simplex-associated encephalitis after brain irradiation for lung cancer metastases. Matikas A, Kontopodis E, Nintos G, Bilidas T, Kofteridis DP, **Papadaki EZ**, Lyraraki E, Kanatsouli K, Mavroudis D. Anticancer Res 2014; 34(8): 4411-4
- 23.** Regional MRI perfusion measures predict motor/executive function in patients with Clinically Isolated Syndrome. **Papadaki EZ**, Simos PG, Mastorodemos VC, Panou T, Maris TG, Karantanas AH, Plaitakis A. Behav Neurol. 2014;2014:252419.
- 24.** Hemodynamic evidence linking cognitive deficits in clinically isolated syndrome to regional brain inflammation. **Papadaki EZ**, Simos PG, Panou T, Mastorodemos VC, Maris TG, Karantanas AH, Plaitakis A. Eur J Neurol. 2014 Mar;21(3):499-505.
- 25.** Exploitation of patient avatars towards stratified medicine through the development of in silico clinical trials approaches. Spanakis M, **Papadaki E**, Kafetzopoulos D, Karantanas A, Maris T, Sakkalis V, Marias K. 13th IEEE International Conference on BioInformatics and BioEngineering, IEEE BIBE 2013, DOI: [10.1109/BIBE.2013.6701554](https://doi.org/10.1109/BIBE.2013.6701554)
- 26.** Coexistence of systemic lupus erythematosus and multiple sclerosis: Prevalence, clinical characteristics, and natural history. Fanouriakis A, Mastorodemos V, Pamfil C, **Papadaki E**, Sidiropoulos P, Plaitakis A, Amoiridis G, Bertsias G, Boumpas DT. Semin Arthritis Rheum. 2014 Jun;43(6):751-8. doi: 10.1016/j.semarthrit.2013.11.007.
- 27.** Early signs of memory impairment among multiple sclerosis patients with clinically isolated syndrome. Panou T, Simos P, **Papadaki E**, Mastorodemos V, Plaitakis A. Behavioral Neurology 2012; 25(4):311–326.
- 28.** White matter and deep gray matter hemodynamic changes in multiple sclerosis patients with clinically isolated syndrome. **Papadaki E**, Mastorodemos V, Amanakis E, Tsekouras K,

Papadakis E, Tsavalas N, Simos P, Karantanas A, Plaitakis A, Maris T. MagnReson Med. 2012; 68(6):1932–1942.

29. Primary hemangiopericytoma of the parapharyngeal space: an unusual tumor and literature review. Fountoulakis E.N., **Papadaki E.**, Panagiotaki I., Giannikaki L., Lagoudianakis G., Bizakis J Acta Otorhinolaryngologicaitalica 2011 Jun;31(3) : 194-8.

30. A comparison of acute hemorrhagic stroke outcomes in 2 populations: the Crete-Boston study. Zaganas I, Halpin AP, Oleinik A, Alegakis A, Kotzamani D, Zafiris S, Chlapoutaki C, Tsimoulis D, Giannakoudakis E, Chochlidakis N, Ntailiani A, Valatsou C, **Papadaki E.** Vakis A, Furie KL, Greenberg SM, Plaitakis A. Stroke. 2011 Dec; 42 (12):3640-2.

31. A case of orbital myositis preceding the intestinal symptoms of Crohn's disease. Bourikas LA, Roussomoustakaki M, **Papadaki E.**Valatas V, Koutroubakis IE, Papadakis KA, Kouroumalis EA. J Crohns Colitis. 2010 Sep; 4(3):349-50.

32. Effective orbital volume and eyeball position: an MRI study. Detorakis ET, DrakonakiE, **Papadaki E.**Pallikaris IG, Tsilimbaris MK. Orbit. 2010 Oct;29(5):244-9.

33. Watery eye following patent external DCR: an MR dacryocystography study. Detorakis ET, Drakonaki E, **Papadaki E.** Pallikaris IG, Tsilimbaris MK. Orbit. 2010 Oct;29(5):239-43.

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17. Study of the anatomic variations of the paranasal sinuses in Computed Tomography. Gavridakis G, Prassopoulos P, **Papadaki E**, Mpizakis J, Voloudaki A, Gourtsoyiannis N. 10th University Congress of Radiology, Alexandroupolis , 2000.
18. Correlation of the Magnetization Transfer Ratio (MTR) with the relative Cerebral Blood Volume (rCBV%) in patients with multiple sclerosis. **Papadaki E**, Papanikolaou N, Karampekios S, Spilioti M, Maris T, Gourtsoyiannis N. 14th University Congress of Radiology, Heraklion 2004.
19. Perfusion MR imaging in patients with multiple sclerosis: Correlation with clinical disability. Συσχέτιση με την κλινική λειτουργική κατάσταση. **Papadaki E**, Papanikolaou N, Karampekios S, Spilioti M, Maris T, Gourtsoyiannis N. 14th University Congress of Radiology, Heraklion 2004.
20. Perfusion weighted imaging, diffusion tensor imaging and Magnetic Resonance Spectroscopy (MRS) for the study of dirty white matter (DWM) areas in patients with multiple sclerosis. Skoulikaris N, **Papadaki E**, Nikitidis S, Karampekios S, Papanikolaou N, Mastorodemos V, Maris T, Gourtsoyiannis N. 16th University Congress of Radiology, Alexandroupolis 2006.
21. Application of non-conventional MRI techniques in a case of bithalamic glioma. Tsekouras K, Papadaki E, Manousaki E, Maris T, Stilianaki V, Amanakis E, Karampekios S. 18th University Congress of Radiology, Ioannina 2008
22. Application of the perfusion weighted imaging MRI technique in patients with clinically isolated syndrome=CIS : diffuse involvement of the normal appearing white matter and deep gray matter. **Papadaki E**, Skoulikaris N, Amanakis E, Mastorodemos V, Maris T, Karampekios S. 18th University Congress of Radiology, Ioannina 2008.
23. Application of perfusion MRI technique in patients with clinically isolated syndrome (CIS) converted to definite multiple sclerosis (MS) : increased perfusion compared to those that have remained CIS. **Papadaki E**, Amanakis E, Mastorodemos V, Maris T, Karampekios S. 19th University Congress of Radiology, Thessaloniki 2009.
24. Study of the hemodynamic and structural changes in patients with clinically isolated syndrome (CIS). Dimitriou S, Kavroulakis E, Mastorodemos V, Maris T, Simos P, **Papadaki E**. 21st University Congress of Radiology, Heraklion 2013.

- 25.** Indolent progressive multifocal leukoencephalopathy after natalizumab therapy in a patient with relapsing remitting multiple sclerosis: Diagnosis and treatment. Sinodinos M, Kanatsouli K, Simos P, **Papadaki E**, Amiridis G, Mastorodemos V. 1st Clinical Symposium for MS, Thessaloniki 2013.
- 26.** Diplopia as the first syndrome in a patient with nasopharyngeal neoplasm. Kanatsouli K, Mastorodemos V, **Papadaki E**, Amiridis G. 26th Hellenic Neurology Congress, Thessaloniki 2013.
- 27.** Correlation between the hemodynamic changes and neuropsychiatric manifestations in patients with chronic Traumatic Brain Injury (TBI). S.Dimitriou, E.Kavroulakis, S.Papadopoulou, P.Simos. T.Maris, **E.Papadaki**, 19th Hellenic Congress of Radiology, Athens, 2014.
- 28.** Brain circuits involved in the theory of cognitive simulation: a study of functional MRI. E. Kavroulakis, H. Savaki, T. Boursianis, G. Kalaitzakis, P.Simos, T.Maris, **E.Papadaki**. 22nd University Congress of Radiology, Athens 2015.
- 29.** Application of multi-echo T2 sequence in patients with multiple sclerosis. E. Kavroulakis, G. Kalaitzakis, V. Mastorodimos, P.Simos, T.Maris, **E.Papadaki**. 22nd University Congress of Radiology, Athens 2015.
- 30.** Application of resting state functional MRI in patients with multiple sclerosis (MS) and Clinically Isolated syndrome (CIS). E. Kavroulakis, S.Dimitriou, V. Mastorodimos, T.Maris, P.Simos, **E.Papadaki**. 22nd University Congress of Radiology, Athens 2015.
- 31.** Application of resting state functional MRI in CNS diseases. E. Kavroulakis, P.Simos, S.Dimitriou, V. Mastorodimos, I.Zaganas, A.Fanouriakis, G.Mpertsias, P.Sidiropoulos, **E.Papadaki**. 23rd University Congress of Radiology, Alexandroupolis 2017.
- 32.** Spontaneous, non traumatic pneumocephalus. A case report. I.Petinarakis, V. Fragkiadoulaki, A. Kozana, **E.Papadaki**. 23rd University Congress of Radiology, Alexandroupolis 2017.
- 33.** Application of resting state functional MRI in patients with Systemic Lupus erythematosus, with and without neuropsychiatric involvement. E. Kavroulakis, S.Dimitriou, A.Fanouriakis, G.Mpertsias, T.Maris, P.Sidiropoulos, P.Simos **E.Papadaki**. 23rd University Congress of Radiology, Alexandroupolis 2017.

7. REVIEWER IN MEDICAL JOURNALS

- European Radiology (topic : Neuro)
- European Journal of Neurology
- Lupus
- Case reports in Radiology
- Journal of Comparative Neurology
- Hellenic Journal of Radiology

DESCRIPTION OF FUTURE SCIENTIFIC PLANS

1. PARTICIPATION IN MULTICENTER, INTERNATIONAL STUDIES

To further explore the additive value of imaging indices to the prognosis of clinical and neuropsychological outcome of chronic diseases, through the claim of European funded programs (eg Horizon 2020 call: SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment)

2. COMPLETION OF RESEARCH PROTOCOLS IN PROGRESS

1. Application of non-conventional MRI techniques (T1DCE, T2*DSC perfusion MRI, multi-b-DWI, Diffusion tensor Imaging, multiexponential T2, Resting state functional MRI) **in patients with Clinically Isolated Syndrome (CIS), Multiple Sclerosis (MS)** and healthy controls and correlation with clinical, laboratory and neuropsychological data. This protocol is part of 2 medical theses and of 1 research funded program (**Hellenic Foundation for Research and Innovation, Post-Doctoral Fellowship Grants. 2017**). From this protocol we have so far achieved 8 publications in International Journals included in INDEX MEDICUS, 26 oral presentations in International Congresses and 10 presentations in Greek Congresses (2 awards).

2. Application of non-conventional MRI techniques (T2*DSC perfusion MRI, multi-b-DWI, Diffusion tensor Imaging, multiexponential T2, Resting state functional MRI) **in patients with Neuropsychiatric Systemic Lupus Erythematosus** and patients with **Systemic Lupus Erythematosus** without neurologic involvement and healthy controls, application in diagnosis and treatment and correlation with clinical, laboratory and neuropsychological data. This protocol is part of 2 medical Theses. From this protocol we have so far achieved 1 publication as a book chapter, 3 publications in International Journals included in INDEX MEDICUS, 6 oral presentations in International Congresses and 2 presentations in Greek Congresses (1 award).

3. Application of non-conventional MRI techniques (T2*DSC perfusion MRI, multi-b-DWI, Diffusion Tensor Imaging) and **SPECT in patients with brain tumors** and correlation with clinical, laboratory and pathological data and the respective findings of healthy controls. This protocol is part of 2 Medical Theses. From this protocol we have so far achieved 1 publication in International Journals included in INDEX MEDICUS, 4 oral presentations in International Congresses and 2 presentations in Greek Congresses.

4. Application of non-conventional MRI techniques (T2*DSC perfusion MRI, multi-b-DWI, Diffusion Tensor Imaging, multiexponential T2, Resting state functional MRI) in **patients with Alzheimer's disease and Mild Cognitive Impairment** and correlation with clinical, laboratory and neuropsychological data and the respective findings of healthy controls. This protocol is part of 1 Medical Thesis and 2 research funded Programs (Cross-border Cooperation Program "Greece-Cyprus 2007-2013" και Thalys program). From this protocol we have so far achieved 1 publication in International Journals included in INDEX MEDICUS, 2 oral presentations in International Congresses (1 award) and 1 presentation in Greek Congress.

5. Application of non-conventional MRI techniques (T2*DSC perfusion MRI, multi-b-DWI, Diffusion Tensor Imaging,) in **patients with mesial temporal sclerosis**. From this protocol we have so far achieved 2 oral presentations in International Congresses and 1 presentation in Greek Congress.

6. Application of non-conventional MRI techniques (T2*DSC perfusion MRI, multi-b-DWI, Diffusion Tensor Imaging,) in **patients with chronic traumatic brain injury** and correlation with clinical and neuropsychological data and the respective findings of healthy controls. This protocol is part of 1 Medical Thesis. From this protocol we have so far achieved 1 publication in International Journals included in INDEX MEDICUS, 2 oral presentations in International Congresses and 1 presentation in Greek Congress.

7. Application of functional MRI techniques in normal subjects and various CNS diseases. This protocol is part of 1 research funded Program (Aristeia II Program). From this protocol we have so far achieved 1 publication in International Journals included in INDEX MEDICUS, 3 oral presentations in International Congresses and 2 presentations in Greek Congresses (1 award).

8. Application of optimized functional MRI technique in patients with ischemic stroke. This protocol is part of 1 Medical Thesis

9. Application of optimized MRI techniques (multi-echo T2 και multi-bdiffusion) in patients with multiple sclerosis, neurodegenerative diseases and brain tumors. This protocol is part of 1 Medical Thesis. From this protocol we have so far achieved 1 publication in International Journals included in INDEX MEDICUS, 1 oral presentation in International Congresses and 1 presentation in a Greek Congress.

10. Application of optimized MRI techniques in orbital diseases. This protocol is part of 2 Medical Theses. From this protocol we have so far achieved 4 publications in International Journals included in INDEX MEDICUS, and 3 oral presentations in International Congresses.

3. ORGANIZATION OF FUTURE SCIENTIFIC EVENTS

ERASMUS COURSE ON MAGNETIC RESONANCE IMAGING Central Nervous System II, Heraklion 1-5 September 2019.

ORGANIZING EXPERIENCE

8.1. ADMINISTRATIVE-ORGANIZING EXPERIENCE

- Chairmanship of the MRI Unit of the Department of Radiology (1/1/2008- today)
- Organization and chairmanship of the Ultrasound Unit, Department of Radiology of the Diagnostic Center "Cretan Medical Care", Heraklion (8/4/2001-17/11/2001).
- Organization and chairmanship of the Computed Tomography Unit of the Diagnostic Center "ENCEPHALOS-EUROMEDICA" Heraklion (1/12/2002-17/3/2004).

8.2. SCIENTIFIC ORGANIZING EXPERIENCE

- Organization of the residency educational program at the Department of Radiology of the University Hospital of Heraklion (2010-today).
- Organization of the annual postgraduate program of the Department of Radiology, University Hospital of Heraklion (2010-2014).
- Organization of the annual program of the undergraduate Radiology course (Medical School, University of Crete) (2010-2016).
- Organization of weekly clinic-radiological meetings with Doctors of the Neurological and Neurosurgery Departments (2004-today).

8.3. ORGANIZATION OF SCIENTIFIC EVENTS

- Local organizer of the ERASMUS COURSE ON MAGNETIC RESONANCE IMAGING Central Nervous System II, Heraklion 1-5 September 2019.
- Chairman of the Organizing Committee of the Postgraduate Course in Neuroradiology “New developments in Neuroimaging”, Heraklion 13-14 April 2013.

8.4. MEMBER OF ORGANIZING COMMITTEES

- **European Society of Radiology**
 - ✓ Neuro- subcommittee member of the program planning committee, European Congress of Radiology 2018
 - ✓ Neuro- subcommittee member of the program planning committee, European Congress of Radiology 2019
 - ✓ Neuro- subcommittee member of the program planning committee, European Congress of Radiology 2020
- **European Society of Neuroradiology**
Member of the Social Media Committee

AWARDS :

- Best bachelor grade among the graduate students of the Medical School of the University of Athens (1993). Excellence award (20/10/1993).

- Award for the best oral presentation at the 14th University Congress of Radiology (Heraklion 2004) for the abstract “Correlation of the Magnetization Transfer Ratio (MTR) with the relative cerebral blood volume (rCBV%) in patients with multiple sclerosis”.
- Scholarship of the Hellenic College of Radiology (2005) for the postgraduate training in Neuroradiology at the NUY, Medical Center.
- Award for the best oral presentation at the 19th University Congress of Radiology (Thessaloniki 2009) for the abstract “Dynamic susceptibility contrast MRI –perfusion weighted imaging –PWI) in patients with clinically isolated syndrome-CIS) who converted to clinically definite multiple sclerosis-MS): increased perfusion in comparison to those that remained CIS”.
- DIPLOMA OF BEST SCIENTIFIC CONTRIBUTION, 3rd Mallinckrodt “Neuroimaging from the Masters” conference, Prague 2013.
- Award for the best oral presentation at the 22nd University Congress of Radiology (Athens 2015) for the abstract “Brain circuits involved in the theory of cognitive simulation: a study of functional MRI”.
- Award for the best oral presentation at the 14th Balkan Congress of Radiology (Thessaloniki 2016) for the abstract “Multi-echo T2 relaxation technique in Dementia”.
- Award for the best oral presentation at the 23rd University Congress of Radiology (Alexandroupolis 2017) for the abstract “Application of resting state functional MRI in patients with Systemic Lupus erythematosus, with and without neuropsychiatric involvement”.