

CURRICULUM VITAE OF GEORGE KOSTOPOULOS

February 2014

Details in websites: <http://physiology.med.upatras.gr/NU>
<http://www.med.upatras.gr/en/Pages/people/dep.aspx?tID=35>



Born : April 29, 1949, Athens, Greece

Citizenship : Greek and Canadian

Status : Married - two children

Languages : Greek and English (and only some German and French)

Degrees : M.D., October 1972, Medical School, National University of Athens, Greece

Ph.D., April 1977, Physiology, University of Saskatchewan, Canada

Current position: *Professor and Chairman of Physiology, Medical School, University of Patras, Greece*

Teaching: Undergraduate courses: *Medical Physiology and Neurophysiology*, Graduate courses: *Neuroscience, Neurophysiology for Engineers, Neuroinformatics, Bioethics*
Supervised 12 PhD Theses

Research Interests : *My long term research interests concern cellular and system neuroscience and although rather diverse, they relate mostly to the basic mechanisms underlying brain rhythmical activities in both physiology (sleep) and disease (epilepsy). Methodologically, they have gradually developed from experimental studies at the neuronal and synaptic transmission level to that of several animal models and in the last 2 decades to the level of human EEG and MEG. The particular research topics include mechanisms of Hyperexcitability underlying Epilepsy, Adenosine as endogenous antiepileptic, Age-induced changes in hippocampal excitability, Neuronal Plasticity and its development, Mathematical models of synaptic transmission and of epileptogenesis, differentiation within Hippocampus, Brain rhythmogenesis, EEG source localization, Somatosensory Physiology, Sleep and Absence seizures.*

Academic Appointments :

Current appointment - since 1991: Professor of Physiology, Medical School, University of Patras, Greece

1984-1991: Associate Professor, 1982-1984 : Assistant Professor, (as above)

Sept. 87-Aug.88: Visiting Assoc. Prof., Deps of Physiology and of Neurology and Neurosurgery, McGill University, Canada

Summer 1985: Visiting Professor, University of Zurich

Sept. 79-May 82: Associate teaching staff, Physiology, McGill University, Canada

Dec. 78 -May 82: Assistant Professor (full time), Neurol. and Neurosurgery, M.N.I., McGill University

Academic Administration :

2013 - today: Member, Neurobiology Resource Mapping Task Force, International League Against Epilepsy.

2005 – today: Chairman, Dep. of Physiology, Medical School, University of Patras

2004 – today: Member, Education Editorial Board, International Brain Research Organization (IBRO)

2010- today: Coordinator, Intra-university "Neuroscientists Network"

2011-2012: Member, Scientific Advisory Committee for the 10th ECE – London 2012

2009-2010 Co-chair, International Organizing Committee, "9th European Congress on Epileptology", Rhodes, Greece, June 2010.

2009 - 2012 Greek Delegate in EU COST-ACTION 0605: Consciousness: A transdisciplinary, Integrated Approach.

2003 -: Member, International Scientific advisory Board, IBRO

2002 - 2008: Scientific Director, U of Patras Graduate Studies Program: "Informatics for Life Sciences".

1995 - 1998: Member, Publications Committee, IBRO

1990 - 1997 : Member, Governing Council, International Brain Research Organization (IBRO).

1989 Sept -Sept.90: Member, U of Patras Committee for Research

1988 Sept -Aug.89: Director, 2nd Basic Medical Sciences Section, University of Patras

1988 Sept -Aug.89 and 2001-2002: Member, Medical School Executive Council

1988 Oct - Jan.90: member and first President, Hellenic Soc. for Neuroscience

1986 Sept -Aug.87: Member, University Senate, U. of Patras (representing the Medical School)

1984 Sept -Aug.85: Acting Chairman, Dep. of Physiology, Medical School, Univers. of Patras

Supervision of PhDs:

C. Psarropoulou, 1990; G. Antoniadis, 1995; C. Papatheodoropoulos, 1996; A. Badea, 2003; O. Zainea, 2005; P. Georgopoulos, 2008; T. Petrides, 2008; I. Nikita, 2009, V. Kokkinos, 2010, A. Koupparis (expected 2016), D. Sakellariou (expected 2016).

Work in the peer review system:

- 1980- today - **Evaluator of research grant applications** to: (a) European Commission: BIOMED; BIOTECHNOLOGY; ICT5th Framework; Neurosciences, 2004-2005_NEST; 2004_FP6_IST_BIO_IIS; 2007 ICT_converge ; 2007_FP7 ICT-2007-2; 2007_ERC; 2009_FP7 ICT- C; 2011_FP7 ICT_C-Young Researchers-9.3. 2011_FP7 ICT_2011-7. (b) Foreign National Programs: University

Funding Program of the Italian Ministry of University and Scientific Research, Netherlands Organization for Scientific Research (NOW) Open Program and Serbian Ministry of Sciences; (c) Greek Programs: several programs of Greek Secretariat of Research and Technology, Greek Scholarships Foundation, Ministry of Health and Ministry of Education, Bodosakis Foundation Prizes.

Member of Doctoral Thesis Examination Boards in several Greek Universities as well as abroad: McGill University/Canada; University of Saskatchewan/Canada, Radboud University Nijmegen, Netherlands etc.

Associate Editor of "Journal of Epileptology" in the field of experimental research. 2010 – today -

Member, Editorial Board of: "Brain Research Bulletin", 1999-2012, "Dataset Papers in Neuroscience", 2012-today

Reviewer for several scientific journals 1980- today -: "Brain Research", "Brain Research Bulletin", "Developmental Pharmacology and Therap.", "EEG J – Clinical Neurophysiology", "Epilepsia", "Epileptic Disorders", "Exper. Brain Res.", "J. Neuroscience Methods", "J. Pharmacology and Exp. Ther.", "Life Sciences", "Medical & Biol. Engin. & Computing", "Neurobiology of Disease", "Neuroimage", "Neuroscience", "Neuroscience Letters", "Progress in Brain Research", "Progress in Neurobiology", "The Behavioral and Brain Sciences",

Research supported by Research Grants From:

- Medical Research Council of Canada: 79-82; while at the "Montreal Neurological Institute"
- European Science Foundation: 85-86, twinning grant with Univ. of Zurich
- European Union: Human Capital and Mobility, Network grant ("Generalized Epilepsy", 94-96 ERBCHRXT930247, partner); Biotechnology #PL960177, 1996-1999, ECHBD (partner)
- NATO Linkage Grants with Armenia HTECH.LG #930981, CN 941358 for 1994-1996 and CRG.LG974199 for 1999-2001
- Hellenic Ministry of Education, 98- 99, for establishing a "centre for tele-education in Neuroscience"
- Hellenic Ministry of Health: 90-92, 94-96
- Hellenic Secretariat of Research & Technology: several personal research grants since 1984 and grants for collaborations with Bulgaria 98-2001 and Armenia 2002-2004 (on neuronal modeling); PENED 2002-2005 (on epilepsy and on neurosteroids)
- University of Patras: Program Karatheodori 2002-2004 (on epilepsy)
- European Union (STREP) FP7-ICT-2011-7, "Advanced multi-paRametric Monitoring and analysis for diagnosis and Optimal management of epilepsy and Related brain disorders". 2011-2014, agreement # 287720

Awards : - Studentship, Greek State Studentship Foundation (IKY), 66-67;

- Fellowship, Medical Research Council of Canada (MRC), 75-79;
- Scholarship, MRC, 1979-1982;
- MICHAEL PRICE (International Price for Epilepsy Research), 1983;
- Visiting Scientist Award, MRC, Sept. 1987 - Aug. 1988

Membership in Academic Societies :

1) American Physiological Society, 1982 - today. 2) American Neuroscience Society. 3) International Brain Research Organization. 4) Federation of European Neuroscience Societies, 5) Hellenic Society for Neuroscience, member, 1986 - ___ and founding president, 6) European Biomedical Research Association, founding member, 1994 - __ , 7) European Epilepsy Academy, 1999 - __ ., 8) European DANA Alliance for the Brain, 2010 - __.

Invited speaker (last 5 years):

- "Relationships between Spindles and K-complexes, as gatekeepers of our conscious awareness" in thw "1st International Conference on Sleep Spindling", held in Budapest on May 12-14, 2016
- "The epilepsies as network diseases", Panhellenic meeting "Clinical Neurophysiology in Practice" 23-25/10/2015, Kalamata, Greece
- "History of Neuroscience in Greece: From Alcmeon to Austerity" at the Federation of European Neuroscience Societies (FENS) Featured Regional Meeting, "Nourishing Neuroscience at the Cradle of Culture", Thessaloniki 7-10/10/2015
- "High Frequency Oscillations as marker of the epileptogenic zone", 15th Continuing education seminar of the "Panhellenic Scientific Seminar of the Greek National League against epilepsy", Athens 16/5/2015
- "Goals and expectations from current research on epilepsy", Public education meeting "Epilepsy is not what you think", "Greek National League against epilepsy", Athens, 18/2/2015
- "Long term multimodal monitoring of epileptic patients at home: The experience of FP7-ICT project ARMOR (2011-2014)", MICHAEL FORUM, October 9th-12th, 2014, Bonn, Germany.
- "EEG and MEG Dynamics of Sound and Safe Sleep" 19th International Conference on Biomagnetism, August 24-28, 2014, Halifax, Canada.
- «Pierre Gloor: Epilepsy is a network disease» Special Symposium: The pioneers at the Montreal Neurological Institute: early concepts in today's practice. 30th International Epilepsy Congress, Montreal, 23-27 June 2013.
- "Neural correlates of losing consciousness in sleep and epilepsy" Albert Einstein College of Medicine, New York, 25 April 2013.
- "EEG and MEG studies indicating cognitive processes during sleep", Universite de Montreal, Dep de Psychologie, 11 April 2013
- "Glimpses into consciousness from the ways we lose it". Montreal Neurological Institute, Brain Imaging Center and Cognitive Neuroscience group, McGill University, Canada, 25 March 2013
- "Understanding sleep mechanisms contributes to a redefinition of the term "generalized" of absence seizures." Michael Stiftung for Epileptology, 50th Anniversary Berlin October 5-6, 2012
- "Challenges and prospects of Neuroinformatics" 2nd meeting of the IEEE student branch of the Technical University of Messolongi, 23/10/2011
- "Sleep's macro-, micro- and dynamic structure", "Society for Applied Neuroscience" meeting, Thessaloniki, Greece, May 2011
- "Recent Advances in Sleep Physiology of Interest to Psychoanalysis", International Fedration of Psychoanalytic Societies, Athens, October, 2010
- "Frontal lobe and epileptic seizures: Basic mechanisms". Teaching section, 9th European Congress of Epileptology, Rhodes June 2010.
- "Why do we sleep?" in the frame of "Searching for the Equation. Mind, Brain and Behavior" a 3-days public awareness event organized at the Pantion University, Athens by the Center of Society, Science and Art www.caid.gr, February 2010

- "Mechanisms underlying loss of consciousness in sleep and epilepsy"; "Consciousness and its measures" Limasol, Cyprus, November 2009
- «Brain mechanisms of Rhythmogenesis in sleep: Recent EEG and MEG advances": 31o annual meeting of the Greek Society of Biological Sciences" Patras, May 2009
- "Mechanism of Consciousness loss in sleep and epilepsy» 23d annual meeting of Greek Neurologists , Thessaloniki, May 2009
- Dynamics of brain rhythmogenesis in human sleep and their possible contribution to epilepsy" Plenary lecture at the 8th National Neuroscience Congress, Bolu, Turkey, Apr 2009.
- "Brain as interpreter of body, environment and society". 7.1.2009. National Res. Institute. "Society of Science: 2nd cycle of lectures". Athens.
- "Of Brain Rhythms and Greek Arrhythmias" 18.11.2008 Society for Neuroscience Washington DC USA 18.11.2009. Satellite Events: Greek Neuroscience Social.
- "Use of animal models for AED development" 03.08.2008. Faculty Lecturer in Venice International University – International School of Neurological Sciences of Venice Advanced International Course: Bridging Basic with Clinical Epileptology-3. Sponsored by European Community, Eureka, ILAE, FENS and Fondazione Istituto Neurologico C.Besta.
- «Neuronal Assemblies Supporting Brain Rhythm Transformations in Sleep and Epilepsy". 27.06.2008. AREADNE 2008: Research in Encoding and Decoding of Neural Ensembles. Santorini, Greece.

Publications: 89 research papers in peer reviewed and CIF bearing journals and over 200 other contributions as chapters in scientific books (23) and symposium proceedings For the full list of publications see :

<http://physiology.med.upatras.gr/NU>.

Harzig's PorP: Query date: 2012-06-10: **h-index: 34**, Citations: > 4.000, g-index: 56.

Google Scholar profile May 2016: total citations >3600, **h-index: 34** see <http://scholar.google.gr/citations?user=KFxqz5EAAAAJ&hl=el>