

Date of birth: August 11, 1954

Place of birth: Athens, Greece

EDUCATION

M.D.	Medical School, University of Athens	1979
Ph. D.	Washington University School of Medicine in St. Louis	1987

PROFESSIONAL EXPERIENCE

A. Positions Held

1997-	Professor of Physiology, Dept. Basic Sciences, Faculty of Medicine, University of Crete
1996-	Group leader, Computational Neurosciences Group, Institute of Applied and Computational Mathematics, FORTH
2008-2016, 2018-	Director of the Graduate Program Brain & Mind
2003	Visiting Professor, College de France
1997-2000	Director of the Graduate Program in the Neurosciences, School of Health Sciences, University of Crete
1994-1996	Sciences, University of Crete
1993-1996	Visiting Professor of Otolaryngology, Washington University School of Medicine in St. Louis
1992-1993	Chairman, Dept. Basic Medical Sciences, Division of Medicine, University of Crete
1990-1997	Associate Professor of Physiology, Dept. Basic Sciences, Faculty of Medicine, University of Crete
1989-1990	Senior Staff Fellow, Laboratory of Neural Control, NINDS, NIH
1987-1989	Staff Fellow, Laboratory of Neural Control, NINDS, NIH
1983-1987	Research Asst. in Otolaryngology, Washington University School of Medicine in St. Louis
1981-1983	Research Fellow in the Neurosciences, Albert Einstein College of Medicine, New York
1976	IBRO Fellow, Dept. Physiology and Biophysics, Escola Paulista de Medicina, Sao Paulo, Brazil.

B. Clinical Experience

Psychiatry Hop. St Antoine, P.M. Curie University of Paris, France (79-81).

HONORS AND AWARDS

- 1) Hellenic National Foundation Scholarship, 1972.
- 2) IBRO Fellowship, 1976.
- 3) French State Scholarship, 1980.
- 4) Sue Golding Graduate Scholarship, 1982-1984.
- 5) Scholarship from the Div. of Biol. & Biomed. Sci., Wash. Univ., 1984-1987.
- 6) University of Crete Research Committee Grant #298, (PI, 1991).
- 7) CODEST Grant SC1*-CT91-0643 (DTEE), (PI, 1991-1994).
- 8) University of Crete Research Committee Grant #519, (PI, 1994).

- 9) EEC Grant PEP-Crete (Co-PI, 1992-1995).
- 10) Secretariat for Res. & Technology, Grant 91ED433, (PI, 1993-1995)
- 11) CODEST HCM Grant ERBCHBGCT930472, (PI, 1995-1997).
- 12) University of Crete Research Committee Grant #590, (PI, 1994-1996).
- 13) CODEST HCM Grant ERB4050PL932435, (PI, 1994-1996).
- 14) TMR Grant ERBFMMACT95-0036, (Co-PI, 1996-1999).
- 15) UNESCO Grant 96 GRE 302 (PI, 1996-1997).
- 16) BIOTECH Grant ERB BIO4 CT98-0546 (PI, 1998-2001)
- 17) Graduate Programm in Neurosci. EPEAEK Grant (PI, 1998-2000)
- 18) Excellence of Research Institutes, (PI – Comp Neuro, 2000-2004)
- 19) Excellence of Research Institutes, (PI – Comp Neuro, 2005-2008)
- 20) Secretariat for Res. & Technology, PENED 03ED803, (PI, 2006-2008)
- 21) Secretariat for Res. & Technology, Excellence II METR (PI, 2014-2016)

LICENSES

Medicine, Athens, Greece.

AFFILIATIONS

Medical Society of Athens
 Hellenic Medical Association
 International Brain Research Organization
 American Society for Neurosciences
 British Society for the History of Science
 American History of Science Society
 International Neural Networks Society
 The Mathematical Association of America
 American Physiological Society
 IEEE

Editorial Boards/Referree/Study Sections

Faculty1000, Motor Systems
 Psychopharmacology
 Neuroscience Letters
 Biological Cybernetics
 Journal of Neurophysiology
 Journal of Neuroscience
 European Journal of Neuroscience
 SCIENCE
 Brain Research
 Experimental Brain Research
 Annals of Neurology
 Brain Research Bulletin (Editorial Board)
 Springer Encyclopedia of Neuroscience (Field Editor)
 Frontiers in Bioscience (Editorial Board)
 Frontiers in Neuroscience
 Child Development
 World Science Journal
 Int. J. of Computational Cognition (Editorial Board)
 IST EU DGXIII
 COST EU DGXII
 European Science Foundation
 Welcome Trust
 Human Frontiers Science Program

PUBLICATIONS

1. Neromyliotis, E. and A. K. Moschovakis. Response properties of saccade related neurons of the post-arcuate premotor cortex. *J. Neurophysiol.* 119: 2291–2306, 2018.
2. Neromyliotis, E. and A. K. Moschovakis. Saccades evoked in response to electrical stimulation of the posterior bank of the arcuate sulcus. *Exp. Brain Res.* 235(9): 2797–2809. DOI: 10.1007/s00221-017-5012-6.
3. Neromyliotis, E. and A. K. Moschovakis. Response properties of motor equivalence neurons of the primate premotor cortex. *Front. Behav. Neurosci.* doi: 10.3389/fnbeh.2017.00061
4. Helen E. Savaki, Georgia G. Gregoriou, Sophia Bakola, and Adonis K. Moschovakis Topography of Visuomotor Parameters in the Frontal and Premotor Eye Fields *Cereb. Cortex* first published online May 20, 2014 doi:10.1093/cercor/bhu106
5. H.E. Savaki, S. Bakola, G.G. Gregoriou, V. Raos and A.K. Moschovakis. The representation of saccade metrics in the lateral intraparietal area LIP of the monkey. *J. Neurosci.* 30: 1118 – 1127, 2010.
6. Kardamakis, A. A. Grantyn and A. Moschovakis. Neural network simulations of the primate oculomotor system. V. Eye-head gaze shifts. *Biol. Cybern.* 102:209–225, 2010.
7. Kardamakis, A. and A. Moschovakis. The optimal control of gaze shifts. *J. Neurosci.* 29: 7723-7730, (2009).
8. E. Kattoulas, N. Smyrnis, A. Mantas, I. Evdokimidis, V. Raos and A.K. Moschovakis. The arm that moves the eye: Arm movement metrics influence saccade metrics when looking and pointing towards a memorized target location. *Exp. Brain Res.* 189: 323-338, 2008.
9. S. Bakola, G.G. Gregoriou, A.K. Moschovakis, V. Raos and H.E. Savaki. Saccade-related information in the superior temporal motion complex: Quantitative functional mapping in the monkey. *J. Neurosci.* 27: 2224-2229, 2007.
10. K. Hadjidimitrakis, A.K. Moschovakis, Y. Dalezios, A. Grantyn. Eye position modulates the electromyographic responses of neck muscles to electrical stimulation of the superior colliculus in the alert cat. *Exp. Brain Res.* 179: 1-16, 2007.
11. R. Kato, A. Grantyn, Y. Dalezios and A.K. Moschovakis. The local loop of the saccadic system closes downstream of the superior colliculus. *Neuroscience* 143: 319-337, 2006.
12. S. Bakola, G.G. Gregoriou, A.K. Moschovakis and H.E. Savaki. Functional imaging of the intraparietal cortex during saccades to visual and memorized targets. *Neuroimage* 31: 1637-1649, 2006.
13. Kardamakis, A. and A. Moschovakis. Implications of interrupted eye-head gaze shifts for resettable integrator reset. *Brain Res. Bull.* 70: 171-178, 2006.
14. A.K. Moschovakis, G.G. Gregoriou, G. Ugolini, M. Doldan, W. Graf, W. Guldin, K. Hadjidimitrakis and H.E. Savaki. Oculomotor areas of the primate frontal lobes: A transneuronal transfer of rabies virus and [¹⁴C]-2-deoxyglucose functional imaging study. *J. Neurosci.* 24: 5726-5740, 2004.
15. A.A. Grantyn, A.K. Moschovakis and T. Kitama. Control of orienting movements: role of multiple tectal projections to the lower brain stem. *Progr. Brain Res.* 143: 415-430, 2003.
16. Grantyn, A. Brandi, D. Dubayle, W. Graf, G. Ugolini K. Hadjidimitrakis and A.K. Moschovakis. Density gradients of trans-synaptically labeled collicular neurons after

- injections of rabies virus in the lateral rectus muscle of the rhesus monkey. *J. Comp. Neurol.* 451: 346-361, 2002.
17. S. Sklavos and A.K. Moschovakis. Neural network simulations of the primate oculomotor system. IV. A distributed bilateral stochastic model of the neural integrator of the vertical saccadic system. *Biol. Cybern.* 86: 97-109, 2002.
 18. A.K. Moschovakis, G.G. Gregoriou, and H.E. Savaki. Functional imaging of the primate superior colliculus during saccades to visual targets. *Nature Neurosci.* 4: 1026-1031, 2001.
 19. A.K. Moschovakis. The intracellular HRP technique. *Brain Res. Bull.* 50: 385-386, 1999.
 20. Y. Dalezios, C.A. Scudder, S.M. Highstein and A.K. Moschovakis. Anatomy and physiology of the primate interstitial nucleus of Cajal. II. Discharge pattern of single efferent fibers. *J. Neurophysiol.* 80: 3100-3111, 1998.
 21. A.K. Moschovakis, T. Kitama, Y. Dalezios, Petit, J., A. M. Brandi and A.A. Grantyn. An anatomical substrate for the spatiotemporal transformation. *J. Neurosci.* 18: 10219-10229, 1998.
 22. A.K. Moschovakis, Y. Dalezios, J. Petit and A.A. Grantyn. New mechanism that accounts for position sensitivity of saccades evoked in response to electrical stimulation of superior colliculus. *J. Neurophysiol.* 80: 3373-3379, 1998.
 23. Bozis, A. and A.K. Moschovakis. Neural network simulations of the primate oculomotor system. III. A one-dimensional one-directional model of the superior colliculus. *Biol. Cybern.* 79: 215-230, 1998.
 24. A.K. Moschovakis. The neural integrators of the mammalian saccadic system. *Front. Biosci.* 2: 552-577, 1997.
 25. A.K. Moschovakis. Superior colliculus and eye movement control. *Curr. Opin, Neurobiol.* 6: 811-816, 1996.
 26. A.A. Grantyn, Y. Dalezios, T. Kitama and A.K. Moschovakis. Neuronal mechanisms of two-dimensional orienting movements in the cat. I. A quantitative study of saccades and slow drifts produced in response to the electrical stimulation of the superior colliculus. *Brain Res. Bull.* 41: 65-82, 1996.
 27. Moschovakis, A. K., Scudder, C. A., and Highstein, S. M. The microscopic anatomy and physiology of the mammalian saccadic system. *Progr. Neurobiol.* 50: 133-254, 1996.
 28. A.K. Moschovakis. Neural network simulations of the primate oculomotor system. II. Frames of reference. *Brain Res. Bull.* 40: 337-345, 1996.
 29. Scudder, C.A., Moschovakis, A.K., Karabelas, A.B., and Highstein, S. M. Anatomy and Physiology of Saccadic Long-Lead Burst Neurons Recorded in the Alert Squirrel Monkey. I. Descending projections from the mesencephalon. *J. Neurophysiol.* 76: 332-352, 1996.
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 31. Kokkoroyiannis, T., Scudder, C. A., Highstein, S. M., Balaban, C. and Moschovakis, A. K. Anatomy and Physiology of the Primate Interstitial Nucleus of Cajal. I. Efferent Projections *J. Neurophysiol.* 75: 725-739, 1996.
 32. Moschovakis, A. K. Are laws that govern behavior embedded in the structure of the C.N.S.? The case of Hering's law. *Vision Res.* 35: 3207-3216, 1995.
 33. Burke, R.E., Fyffe, R.E.W., and Moschovakis, A.K. Electrotonic architecture of cat gamma motoneurons. *J. Neurophysiol.* 72: 2302-2316, 1994.
 34. Partsalis, A.M., Highstein, S.M., and Moschovakis, A.K. Lesions of the posterior commissure disable the vertical neural integrator of the primate oculomotor system. *J.*

Neurophysiol. 71: 2582-2585, 1994.

35. Moschovakis, A.K. Neural network simulations of the primate oculomotor system. I. The vertical saccadic burst generator. *Biol. Cybern.* 70: 291-302, 1994.
36. Moschovakis, A.K. and Highstein, S. M. The anatomy and physiology of primate neurons that control rapid eye movements. *Ann. Rev. Neurosci.* 17: 465-488, 1994.
37. Antal, M., Sholomenko, G.N., Moschovakis, A.K., Storm-Mathisen, J., Heizmann, C. W., and Hunziker, W. The termination pattern and postsynaptic targets of rubro-spinal fibers in the rat spinal cord: A light and electron microscopic study. *J. Comp. Neurol.* 325:22-37, 1992.
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39. Moschovakis, A.K., Burke, R.E., and Fyffe, R.E.W. The size and dendritic structure of HRP-labeled gamma motoneurons in the cat spinal cord. *J. Comp. Neurol.* 311: 531-545, 1991.
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43. Moschovakis, A. K., Scudder, C. A., and Highstein, S. M. A morphological basis for Hering's law: Projections to extraocular motoneurons. *Science Wash DC* 248: 1118-1119, 1990.
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46. Goldberg, J. M., Highstein, S.M., Moschovakis, A.K., and Fernandez, C.F. Inputs from regularly and irregularly discharging vestibular nerve afferents to secondary neurons of the vestibular nuclei of the squirrel monkey. I. An electrophysiological analysis. *J. Neurophysiol.* 58: 700-718, 1987.
47. Highstein, S.M., Goldberg, J. M., Moschovakis, A.K., and Fernandez, C.F. Inputs from regularly and irregularly discharging vestibular nerve afferents to secondary neurons of the vestibular nuclei of the squirrel monkey. II. Correlation with output pathways of secondary neurons. *J. Neurophysiol.* 58: 719-738, 1987.
48. Moschovakis, A. K., and Karabelas, A. B. Observations on the somatodendritic morphology and axonal trajectory of intracellularly HRP labeled efferent neurons located in the deeper layers of the superior colliculus of the cat. *J. Comp. Neurol.* 239: 276-308, 1985.
49. Karabelas, A. B. and Moschovakis, A. K. Nigral inhibitory termination on efferent neurons of the superior colliculus. An intracellular horseradish peroxidase study in the cat. *J. Comp. Neurol.* 239: 309-329, 1985.
50. Lazaratou, H., Moschovakis, A., Armaganidis, A., Kapsambelis, V., Kibouris, J., and

- Kephalas, T. A. The pharmacological effect of fractions obtained by smoking cannabis through a water-pipe. II. A second fractionation step. *Experientia* 36: 1407-1408, 1980.
51. Armaganidis, A., Moschovakis, A., Papanikolaou, G., Kapsambelis, V., Petroulakis, G., Liakopoulos, D., and Lazaratou, H. Hashish smoke interferes with Sidman avoidance in mice. *Experientia* 35: 894-895, 1979.
 52. Moschovakis, A., Liakopoulos, D., Armaganidis, A., Kapsambelis, V., Papanikolaou, G. and Petroulakis, G. Cannabis interferes with nest-building behavior in mice. *Psychopharmacology* 58: 181-183, 1978.
 53. Filho, L. C. S., Moschovakis, A. K., and Izquierdo, I. Effect of hippocampal lesions on rat shuttle responses in four different behavioral tests. *Physiol. & Behav.* 19: 169-171, 1977.

BOOK CHAPTERS

- 1) A.K. Moschovakis. Burst neurons - medium lead - vertical. In: Encyclopedia of Neuroscience. Volume 1. M. Binder, N. Hirokawa and U. Windhorst (Eds), Springer-Verlag, Berlin, pp. 511-516, 2009.
- 2) A.K. Moschovakis. Foveation hypothesis. In: Encyclopedia of Neuroscience. Volume 2. M. Binder, N. Hirokawa and U. Windhorst (Eds), Springer-Verlag, Berlin, pp. 1627-1630, 2009.
- 3) A.K. Moschovakis. Neural control of eye movements. In: Encyclopedia of Neuroscience. Volume 4. M. Binder, N. Hirokawa and U. Windhorst (Eds), Springer-Verlag, Berlin, pp. 2559-2564, 2009.
- 4) Y. Dalezios and A.K. Moschovakis. Neural integrator - Vertical. In: Encyclopedia of Neuroscience. Volume 4. M. Binder, N. Hirokawa and U. Windhorst (Eds), Springer-Verlag, Berlin, pp. 2583-2588, 2009.
- 5) A.K. Moschovakis. Reticulotectal long-lead burst neurons. In: Encyclopedia of Neuroscience. Volume 4. M. Binder, N. Hirokawa and U. Windhorst (Eds), Springer-Verlag, Berlin, pp. 3491-3492, 2009.
- 6) A.K. Moschovakis. SC - Interlayer neurons. In: Encyclopedia of Neuroscience. Volume 5. M. Binder, N. Hirokawa and U. Windhorst (Eds), Springer-Verlag, Berlin, pp. 3579-3582, 2009
- 7) A.K. Moschovakis and A. Grantyn. SC - Sensorimotor integration. Volume 5. In: Encyclopedia of Neuroscience. M. Binder, N. Hirokawa and U. Windhorst (Eds), Springer-Verlag, Berlin, pp. 3591-3596, 2009.
- 8) A.K. Moschovakis. SC - Tectal long-lead burst neurons. Volume 5. In: Encyclopedia of Neuroscience. M. Binder, N. Hirokawa and U. Windhorst (Eds), Springer-Verlag, Berlin, pp. 3599-3603, 2009.
- 9) A. Grantyn and A.K. Moschovakis. Structure-function relationships in the superior colliculus of higher mammals. In: W.C. Hall and A.K. Moschovakis (Eds.) The Superior Colliculus: New Approaches for Studying Sensorimotor Integration, CRC Press, Boca Raton, pp. 107-145, 2003.
- 10) P. Lalley, A.K. Moschovakis and U. Windhorst. Electrical activity of individual neurons *in situ*: Extra- and intracellular recording. In: Modern Techniques in Neuroscience Research. U. Windhorst and H. Johansson (Eds), Springer-Verlag, Berlin, pp. 127-172, 1999.

BOOKS

- 1) W.C. Hall and A.K. Moschovakis. The Superior Colliculus: New Approaches for Studying Sensorimotor Integration, CRC Press, Boca Raton, 2003.
- 2) Moschovakis, A. K. Observations on the appearance and function of neurons in the primate superior colliculus. An intracellular HRP study. Ph.D. thesis, Washington University in St. Louis, University Microfilms, Ann Arbor, Michigan, 1987.

ABSTRACTS

- 1) Neromyliotis, E. and A. K. Moschovakis (2016). Involvement of the premotor cortex (Area 6) in saccade generation. FENS Forum, Copenhagen.
- 2) A.K. Moschovakis, A.A. Kardamakis and A. Grantyn. A new model of primate eye-head gaze shifts. *Proc. Soc. Neurosci.* 263.1, 2008.
- 3) A. Kardamakis and A. Moschovakis. Eye-head coordination obeys minimal effort rule. COSYNE08 135, 2008.
- 4) E. Kattoulas, N. Smyrnis, A. Mantas, I. Evdokimidis, V. Raos and A.K. Moschovakis. Looking and pointing towards a memorized target location: The influence of arm movement metrics on saccade metrics. *Proc. Soc. Neurosci.* 33: 618.3/PP24, 2007.
- 5) A.K. Moschovakis, R. Kato, Y. Dalezios and A. Grantyn. Predorsal bundle evoked saccades survive lesions of the superior colliculus. *FENS Abstr.* 3:76.6, 2006..
- 6) K. Hadjidimitrakis, A.K. Moschovakis, Y. Dalezios and A. Grantyn. Eye position dependent mapping from the superior colliculus to neck muscles. *FENS Abstr.* 3:76.2, 2006.
- 7) H.E. Savaki, S. Bakola, G.G. Gregoriou, A.K. Moschovakis. The lateral intraparietal cortex represents visual and motor space in segregated, albeit partially overlapping, regions. *FENS Abstr.* 3:76.8, 2006.
- 8) A.K. Moschovakis, R. Kato, Y. Dalezios and A. Grantyn. Saccades evoked in response to microstimulation of the predorsal bundle (PDB) in the alert cat. *Proc. Soc. Neurosci.* 31: 167.9, 2005.
- 9) S. Bakola, G.G. Gregoriou, A.K. Moschovakis and H.E. Savaki. Functional imaging of the lateral intraparietal cortex during saccades to visual and memorized targets. *Proc. Soc. Neurosci.* 31: 287.2, 2005.
- 10) S. Erimaki, C.N. Christakos and A.K. Moschovakis. Complicating factors in the analysis of neural population synchrony and in understanding the formation of aggregate rhythms. Applications to tremor genesis. *Proc. Soc. Neurosci.* 29: 914.6. 2003.
- 11) A.K. Moschovakis, G.G. Gregoriou and H.E. Savaki. Functional mapping of the superior colliculus in the rhesus monkey during saccades to visual targets. *Proc. Soc. Neurosci.* 27: , 2001.
- 12) A. Grantyn, A. Moschovakis, A. Brandi, D. Dubayle, K. Hadjidimitrakis, M. Doldan, W. Graf, and G. Ugolini. Density gradients of monkey superior colliculus neurons connected to the abducens nucleus. *Proc. Soc. Neurosci.* 27:17, 2001.
- 13) S. Sklavos and A.K. Moschovakis. A new model of the neural integrator of the vertical saccadic system. *Eur. J. Neurosci.* 12: 163, 2000.
- 14) G. Ugolini, D. Dubayle, A. Grantyn, A. Brandi, A. Berthoz, J. Büttner-Ennever, A. Moschovakis and W. Graf. Horizontal eye movement network in primates. II. Polysynaptic input. *Proc. Soc. Neurosci.* 26: 969(363.6), 2000.
- 15) W. Guldin, G. Dahrman, M. Doldan, W. Graf, J. B  rle, A. Moschovakis and G. Ugolini. Horizontal eye movement network in primates. III. Cortical relays. *Proc. Soc. Neurosci.* 26:969, 2000.
- 16) G.G. Gregoriou, A.K. Moschovakis and H.E. Savaki. Involvement of the parietofrontal cortical network in the sensory guidance of arm and eye movements. *Proc. Soc. Neurosci.* 25: 382, 1999.
- 17) A.A. Grantyn, Y. Dalezios, T. Kitama and A.K. Moschovakis. Neuronal mechanisms of two-dimensional orienting movements in the cat: An anatomical basis for the spatio-temporal transformation. *Proc. Soc. Neurosci.* 23: 1295, 1997.
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- 19) A.A. Grantyn, Y. Dalezios, T. Kitama and A.K. Moschovakis. An anatomical basis

- for the spatiotemporal transformation in the saccadic system. *Proc. Soc. Neurosci.* 23: 1295, 1997.
- 20) A.K. Moschovakis. Models of the neural control of rapid eye movements. *Neurology of Human Spatial Orientation, Ibiza*, p. 46, 1995.
 - 21) A.A. Grantyn, Y. Dalezios, T. Kitama and A.K. Moschovakis. A. quantitative study of saccades and slow drifts produced in response to the electrical stimulation of the superior colliculus in the cat. *Eur. J. Neurosci.* 8(Suppl.): 97, 1995.
 - 22) Kokkoroyiannis, T., Scudder, C. A., Highstein, S. M., Balaban, C. and Moschovakis, A. K. The efferent projections of the Interstitial Nucleus of Cajal in the squirrel monkey. *Eur. J. Neurosci.* 8(Suppl.): 163, 1995.
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 - 25) Moschovakis, A. K. Anatomical substrates of Hering's law. Santorini meeting devoted to *Binocular Oculomotor Coordination and Plasticity: Implications for Strabismus*, p. 3, 1994.
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 - 31) Moschovakis, A.K., Marks, W.B., and Burke, R.E. Quantitative morphology of g-motoneurons in the cat spinal cord. *Proc. Soc. Neurosci.* 15: 696, 1989.
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