

Dear colleagues,

Dear friends,

First of all, I would like to thank the Chapters that gave me this opportunity to be in the list of candidates for one of the offices of the ILAE, cooperating with our new President Emilio Perucca in establishing a successful Program to improve the care of epilepsy worldwide.

I'm a specialist in Neurology, Neuropediatrics and Electrophysiology and presently Associate Professor of the Neurology Department of Universidade Federal de São Paulo in Brazil. In the beginnings of the 90's, after finishing my Post-Doctorate at the National Institutes of Health, Bethesda, USA under the mentorship of William Theodore, I joined my Brazilian colleagues and together we developed a program with the Ministry of Health establishing Centers of Excellence in the Treatment of Epilepsy in Public Universities. This pioneer program allowed an unprecedented rise in education, patient care and research in the field of epilepsy in my country. Nowadays, epilepsy is the area with the largest number of scientific publications and theses within Brazilian Neurology. Personally, I'm co-author of more than 100 peer-reviewed papers in epilepsy, many based upon PhD and doctoral theses written under my direction by young neurologists; and also of eight books written to support educational activities in the country. I was President of the Brazilian League against Epilepsy 1994-1996 and of the Brazilian Epilepsy Association from 2003-2006 through which since 2005 I have been serving the IBE as Vice-President of the Latin American Commission.

From 2005 - 2009, I served the ILAE as Chair of the Education Commission, in which apart from the global agenda I also represented the Lusophonic branch, with the challenge of developing an Educational Program for Portuguese speaking countries. This allowed for the establishment of closer relations between epileptologists from Brazil, Portugal, Mozambique, Angola and Cape Verde. Since 2007 the dream came true of promoting epilepsy education in Latin America by an annual Latin American Summer School on Epilepsy (LASSE). In 2013 I will share again with Esper Cavalheiro, its mastermind, the organization of its seventh edition. Presently, as a member of the ILAE Education Commission I was honored by the invitation of members of the Commission on Latin American Affairs for serving as the Chair of our Epilepsy Academy (ALADE), through which we motivate young students to whom we offer training fellowships of variable length in Latin American Epilepsy Centers.

Considering education as a major commitment I hope my experience will be useful for serving at the global ILAE level, mainly supporting networking for epilepsy in the developing world and implementing the educational agenda of our organization. I strongly believe that joining our hands, colleagues from developed and developing regions will improve epilepsy care and knowledge of all, and these are the main reasons for which I hope I can deserve your vote to be a member of the ILAE Executive Committee.

Sincerely,

Elza Márcia Yacubian



## BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.  
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME <b>YACUBIAN, Elza Márcia Targas</b>	POSITION TITLE <b>Neurologist/Epileptologist          Universidade Federal de São Paulo          (UNIFESP), São Paulo, SP, Brazil, Department          of Neurology and Neurosurgery, Escola          Paulista de Medicina/UNIFESP, São Paulo</b>		
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
Faculdade de Medicina de São José do Rio Preto	MD	1976	Medicine
Faculdade de Medicina de São José do Rio Preto	Neurologist	1978	Neurology
Faculdade de Medicina da Universidade de São Paulo	Neuropediatrician and Electrophysiologist	1981	Neuropediatrics and EEG
Faculdade de Medicina da Universidade de São Paulo	Doctorate	1989	Neurology
National Institutes of Health, Bethesda, MD	Post-Doctorate	1991	Epilepsy

### A. Personal Statement.

I'm a specialist in Neurology, Neuropediatrics and Electrophysiology and presently Associate Professor of the Neurology Department of Universidade Federal de São Paulo in Brazil. In the beginnings of the 90's, after finishing my Post-Doctorate at the National Institutes of Health, Bethesda, USA under the mentorship of William Theodore, I joined my Brazilian colleagues and together we developed a program with the Ministry of Health establishing Centers of Excellence in the Treatment of Epilepsy in Public Universities. This pioneer program allowed an unprecedented rise in education, patient care and research in the field of epilepsy in my country. Nowadays, epilepsy is the area with the largest number of scientific publications and theses within Brazilian Neurology. Personally, I'm co-author of more than 100 peer-reviewed papers in epilepsy, many based upon PhD and doctoral theses written under my direction by young neurologists; and also of eight books written to support educational activities in the country. I was President of the Brazilian League against Epilepsy 1994-1996 and of the Brazilian Epilepsy Association from 2004-2008 through which since 2005 I have been serving the IBE as Vice-President of the Latin American Commission.

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## **B. Positions and Honors**

### **Positions and Employment**

1992-2000 Chief Epilepsy Program, Department of Neurology, Hospital das Clínicas, Faculdade de Medicina da Universidade de São Paulo, SP, Brazil

2000-present Chief Epilepsy Program, Department of Neurology and Neurosurgery, Hospital São Paulo, Universidade Federal de São Paulo, SP, Brazil

### **Other Experience and Professional Memberships**

1994-1996 President of the Liga Brasileira de Epilepsia

2003-2006 President of the Associação Brasileira de Epilepsia

2005-present Vice-President Latin American Commission of the International Bureau for Epilepsy

2005-2009 Chair, Commission on Education of the International League Against Epilepsy

2009-present Chair, SubCommission on Education, Latin American Commission on Epilepsy, ILAE

### **Honors**

2009 Certificate of Recognition, International League against Epilepsy- Chair of the Commission on Education 2005-2009

## **C. Selected Publications** (peer-reviewed publications in the last five years) **(In chronological order)**

1. Pascalicchio TF, de Araujo Filho GM, da Silva Noffs MH, Lin K, Caboclo LO, Vidal-Dourado M, Ferreira Guilhoto LM, **Yacubian EM**. Neuropsychological profile of patients with juvenile myoclonic epilepsy: a controlled study of 50 patients. **Epilepsy Behav** **2007**;10(2):263-7.
2. Perosa SR, Argañaraz GA, Goto EM, Costa LG, Konno AC, Varella PP, Santiago JF, Pesquero JB, Canzian M, Amado D, **Yacubian EM**, Carrete H Jr, Centeno RS, Cavalheiro EA, Silva JA Jr, Mazzacoratti Mda G. Kinin B1 and B2 receptors are overexpressed in the hippocampus of humans with temporal lobe epilepsy. **Hippocampus** **2007**;17(1):26-33.
3. Caboclo LO, Garzon E, Oliveira PA, Carrete H Jr, Centeno RS, Bianchin MM, **Yacubian EM**, Sakamoto AC. Correlation between temporal pole MRI abnormalities and surface ictal EEG patterns in patients with unilateral mesial temporal lobe epilepsy. **Seizure** **2007**;16(1):8-16.
4. da Silva TI, Ciconelli RM, Alonso NB, Azevedo AM, Westphal-Guitti AC, Pascalicchio TF, Marques CM, Caboclo LO, Cramer JA, Sakamoto AC, **Yacubian EM**. Validity and reliability of the Portuguese version of the quality of life in epilepsy inventory (QOLIE-31) for Brazil. **Epilepsy Behav** **2007**;10(2):234-41.
5. de Araújo Filho GM, Pascalicchio TF, Sousa Pda S, Lin K, Ferreira Guilhoto LM, **Yacubian EM**. Psychiatric disorders in juvenile myoclonic epilepsy: a controlled study of 100 patients. **Epilepsy Behav** **2007**;10(3):437-41.

6. Lin K, Carrete H, Lin J, de Oliveira PA, Caboclo LO, Sakamoto AC, **Yacubian EM**. Facial paresis in patients with mesial temporal sclerosis: clinical and quantitative MRI-based evidence of widespread disease. **Epilepsia** 2007;48(8):1491-9.
7. Marques CM, Caboclo LO, da Silva TI, Noffs MH, Carrete H Jr, Lin K, Lin J, Sakamoto AC, **Yacubian EM**. Cognitive decline in temporal lobe epilepsy due to unilateral hippocampal sclerosis. **Epilepsy Behav** 2007;10(3):477-85.
8. Silva AV, Houzel JC, Croaro I, **Targas Yacubian EM**, Stavale JN, Centeno RS, Cavalheiro EA. Granular cell dispersion and bilamination: two distinct histopathological patterns in epileptic hippocampi? **Epileptic Disord** 2007;9(4):438-42.
9. Low C, Garzon E, Carrete H Jr, Vilanova LC, **Yacubian EM**, Sakamoto AC. Early destructive lesions in the developing brain: clinical and electrographic correlates. **Arq Neuropsiquiatr** 2007 ;65(2B):416-22.
10. Carrete H Jr, Abdala N, Lin K, Caboclo LO, Centeno RS, Sakamoto AC, Szjenfeld J, Nogueira RG, **Yacubian EM**. Temporal pole signal abnormality on MR imaging in temporal lobe epilepsy with hippocampal sclerosis: a fluid-attenuated inversion-recovery study. **Arq Neuropsiquiatr** 2007;65(3A):553-60.
11. Westphal-Guitti AC, Alonso NB, Migliorini RC, da Silva TI, Azevedo AM, Caboclo LO, Sakamoto AC, **Yacubian EM**. Quality of life and burden in caregivers of patients with epilepsy. **J Neurosci Nurs** 2007;39(6):354-60.
12. Filho GM, Rosa VP, Lin K, Caboclo LO, Sakamoto AC, **Yacubian EM**. Psychiatric comorbidity in epilepsy: a study comparing patients with mesial temporal sclerosis and juvenile myoclonic epilepsy. **Epilepsy Behav** 2008;13(1):196-201.
13. Argañaraz GA, Konno AC, Perosa SR, Santiago JF, Boim MA, Vidotti DB, Varella PP, Costa LG, Canzian M, Porcionatto MA, **Yacubian EM**, Sakamoto AC, Carrete H Jr, Centeno RS, Amado D, Cavalheiro EA, Junior JA, Mazzacoratti M da G. The renin-angiotensin system is upregulated in the cortex and hippocampus of patients with temporal lobe epilepsy related to mesial temporal sclerosis. **Epilepsia** 2008;49(8):1348-57.
14. Lin K, Marx C, Caboclo LO, Centeno RS, Sakamoto AC, **Yacubian EM**. Sign of the Cross (Signum Crucis): observation of an uncommon ictal manifestation of mesial temporal lobe epilepsy. **Epilepsy Behav** 2009;14(2):400-3.
15. Azevedo AM, Alonso NB, Vidal-Dourado M, Noffs MH, Pascalicchio TF, Caboclo LO, Ciconelli RM, Sakamoto AC, **Yacubian EM**. Validity and reliability of the Portuguese-Brazilian version of the Quality of Life in Epilepsy Inventory-89. **Epilepsy Behav** 2009;14(3):465-71.
16. Lin K, Carrete H Jr, Lin J, Peruchi MM, de Araújo Filho GM, Guaranha MS, Guilhoto LM, Sakamoto AC, **Yacubian EM**. Magnetic resonance spectroscopy reveals an epileptic network in juvenile myoclonic epilepsy. **Epilepsia** 2009;50(5):1191-200.
17. de Araújo Filho GM, Jackowski AP, Lin K, Guaranha MS, Guilhoto LM, da Silva HH, Caboclo LO, Júnior HC, Bressan RA, **Yacubian EM**. Personality traits related to juvenile myoclonic epilepsy: MRI reveals prefrontal abnormalities through a voxel-based morphometry study. **Epilepsy Behav** 2009;15(2):202-7.
18. Guaranha MS, da Silva Sousa P, de Araújo-Filho GM, Lin K, Guilhoto LM, Caboclo LO, **Yacubian EM**. Provocative and inhibitory effects of a video-EEG neuropsychologic protocol in juvenile myoclonic epilepsy. **Epilepsia** 2009;50(11):2446-55.

19. Lin K, Jackowski AP, Carrete H Jr, de Araújo Filho GM, Silva HH, Guaranha MS, Guilhoto LM, Bressan RA, **Yacubian EM**. Voxel-based morphometry evaluation of patients with photosensitive juvenile myoclonic epilepsy. **Epilepsy Res** 2009;86(2-3):138-45.
20. Terra-Bustamante VC, Machado HR, dos Santos Oliveira R, Serafini LN, Souza-Oliveira C, Escorsi-Rosset S, **Yacubian EM**, Naffah-Mazzacoratti Mda G, Scorza CA, Cavalheiro EA, Scorza FA, Sakamoto AC. Rasmussen encephalitis: long-term outcome after surgery. **Childs Nerv Syst** 2009;25(5):583-9.
21. de Araújo Filho GM, Lin K, Lin J, Peruchi MM, Caboclo LO, Guaranha MS, Guilhoto LM, Carrete H Jr, **Yacubian EM**. Are personality traits of juvenile myoclonic epilepsy related to frontal lobe dysfunctions? A proton MRS study. **Epilepsia** 2009;50(5):1201-9.
22. Lin K, Jackowski AP, Carrete H Jr, de Araújo Filho GM, Silva HH, Guaranha MS, Guilhoto LM, Bressan RA, **Yacubian EM**. Voxel-based morphometry evaluation of patients with photosensitive juvenile myoclonic epilepsy. **Epilepsy Res** 2009;86(2-3):138-45.
23. Mantoan MA, Caboclo LO, de Figueiredo Ferreira Guilhoto LM, Lin K, da Silva Noffs MH, de Souza Silva Tudesco I, Belzunces E, Carrete H Jr, Bussolotti RT, Centeno RS, Sakamoto AC, **Yacubian EM**. Correlation between memory, proton magnetic resonance spectroscopy, and interictal epileptiform discharges in temporal lobe epilepsy related to mesial temporal sclerosis. **Epilepsy Behav** 2009;16(3):447-53.
24. Sampaio LP, Caboclo LO, Kuramoto K, Reche A, **Yacubian EM**, Manreza ML. Prevalence of epilepsy in children from a Brazilian area of high deprivation. **Pediatr Neurol** 2010;42(2):111-7.
25. Santana MT, Jackowski AP, da Silva HH, Caboclo LO, Centeno RS, Bressan RA, Carrete H Jr, **Yacubian EM**. Auras and clinical features in temporal lobe epilepsy: a new approach on the basis of voxel-based morphometry. **Epilepsy Res** 2010;89(2-3):327-38.
26. Tudesco Ide S, Vaz LJ, Mantoan MA, Belzunces E, Noffs MH, Caboclo LO, **Yacubian EM**, Sakamoto AC, Bueno OF. Assessment of working memory in patients with mesial temporal lobe epilepsy associated with unilateral hippocampal sclerosis. **Epilepsy Behav** 2010;18(3):223-8.
27. Silva I, Lin K, Jackowski AP, Centeno Rda S, Pinto ML, Carrete H Jr, **Yacubian EM**, Amado D. Absence of gender effect on amygdala volume in temporal lobe epilepsy. **Epilepsy Behav** 2010;19(3):501-3.
28. Simões PS, Perosa SR, Arganãraz GA, **Yacubian EM**, Carrete H Jr, Centeno RS, Varella PP, Santiago JF, Canzian M, Silva JA Jr, Mortara RA, Amado D, Cavalheiro EA, Mazzacoratti M da G. Kallikrein 1 is overexpressed by astrocytes in the hippocampus of patients with refractory temporal lobe epilepsy, associated with hippocampal sclerosis. **Neurochem Int** 2011;58(4):477-82.
29. **Yacubian EM**, Caboclo LO. Epilepsy and stigma: an approach to understanding through the life and works of the Brazilian writer Machado de Assis (1839-1908). **Epilepsy Behav** 2011;20(3):465-70.
30. Filho GM, Mazetto L, da Silva JM, Caboclo LO, **Yacubian EM**. Psychiatric comorbidity in patients with two prototypes of focal versus generalized epilepsy syndromes. **Seizure** 2011;20(5):383-6.
31. Varella PP, Santiago JF, Carrete H Jr, Higa EM, **Yacubian EM**, Centeno RS, Caboclo LO, Castro Neto EF, Canzian M, Amado D, Cavalheiro EA, Naffah-Mazzacoratti M da G. Relationship between fluid-attenuated inversion-recovery (FLAIR) signal intensity and inflammatory mediator's levels in the hippocampus of patients with temporal lobe epilepsy and mesial temporal sclerosis. **Arq Neuropsiquiatr** 2011;69(1):91-9.
32. Filho GM, Jackowski AP, Lin K, Silva I, S B Guaranha M, Guilhoto LM, Júnior HC, **Yacubian EM**, Bressan RA. The integrity of corpus callosum and cluster B personality disorders: a quantitative MRI study in juvenile myoclonic epilepsy. **Prog Neuropsychopharmacol Biol Psychiatry** 2010;34(3):516-21.

33. Guaranha MS, Filho GM, Lin K, Guilhoto LM, Caboclo LO, **Yacubian EM**. Prognosis of juvenile myoclonic epilepsy is related to endophenotypes. **Seizure** 2011;20(1):42-8.
34. de Araújo Filho GM, da Silva JM, Mazetto L, Marchetti RL, **Yacubian EM**. Psychoses of epilepsy: a study comparing the clinical features of patients with focal versus generalized epilepsies. **Epilepsy Behav** 2011;20(4):655-8.
35. French JA, Abou-Khalil BW, Leroy RF, **Yacubian EM**, Shin P, Hall S, Mansbach H, Nohria V; RESTORE 1/Study 301 Investigators. Randomized, double-blind, placebo-controlled trial of ezogabine (retigabine) in partial epilepsy. **Neurology** 2011;76(18):1555-63.
36. Centeno RS, **Yacubian EM**, Caboclo LO, Júnior HC, Cavalheiro S. Intracranial depth electrodes implantation in the era of image-guided surgery. **Arq Neuropsiquiatr** 2011;69(4):693-8.
37. Ferrari TP, Hamad AP, Caboclo LO, Centeno RS, Zaninotto AL, Scattolin M, Carrete Junior H, Lancellotti CL, **Yacubian EM**. Atypical presentation in Rasmussen encephalitis: delayed late-onset periodic epileptic spasms. **Epileptic Disord** 2011;13(3):321-5.
38. Martins HH, Alonso NB, Vidal-Dourado M, Carbonel TD, de Araújo Filho GM, Caboclo LO, **Yacubian EM**, Guilhoto LM. Are adverse effects of antiepileptic drugs different in symptomatic partial and idiopathic generalized epilepsies? The Portuguese-Brazilian validation of the Liverpool Adverse Events Profile. **Epilepsy Behav** 2011;22(3):511-7.
39. de Lima C, Vancini RL, Arida RM, Guilhoto LM, de Mello MT, Barreto AT, Guaranha MS, **Yacubian EM**, Tufik S. Physiological and electroencephalographic responses to acute exhaustive physical exercise in people with juvenile myoclonic epilepsy. **Epilepsy Behav** 2011;22(4):718-22.
40. dos Santos EB, Tudesco I de S, Caboclo LO, **Yacubian EM**. Low educational level effects on the performance of healthy adults on a Neuropsychological Protocol suggested by the Commission on Neuropsychology of the Liga Brasileira de Epilepsia. **Arq Neuropsiquiatr** 2011;69(5):778-84.
41. Beniczky S, Guaranha MS, Conradsen I, Singh MB, Rutar V, Lorber B, Braga P, Fressola AB, Inoue Y, **Yacubian EM**, Wolf P. Modulation of epileptiform EEG discharges in juvenile myoclonic epilepsy: an investigation of reflex epileptic traits. **Epilepsia** 2012;53(5):832-9.
42. Ferrari-Marinho T, Caboclo LO, Marinho MM, Centeno RS, Neves RS, Santana MT, Brito FS, Junior HC, **Yacubian EM**. Auras in temporal lobe epilepsy with hippocampal sclerosis: relation to seizure focus laterality and post surgical outcome. **Epilepsy Behav** 2012;24(1):120-5.
43. Jardim AP, Neves RS, Caboclo LO, Lancellotti CL, Marinho MM, Centeno RS, Cavalheiro EA, Scorza CA, **Yacubian EM**. Temporal lobe epilepsy with mesial temporal sclerosis: hippocampal neuronal loss as a predictor of surgical outcome. **Arq Neuropsiquiatr** 2012;70(5):319-24.
44. Almeida SS, Naffah-Mazzacoratti MG, Guimarães PB, Wasinski F, Pereira FE, Canzian M, Centeno RS, Carrete H, **Yacubian EM**, Carmona AK, Vieira RF, Nakaie CR, Sabatini RA, Perosa SR, Bacurau RF, Gouveia TL, Gallo G, Würtele M, Cavalheiro EA, Silva JA Jr, Pesquero JB, Araujo RC. Carbamazepine inhibits angiotensin I-converting enzyme, linking it to the pathogenesis of temporal lobe epilepsy. **Transl Psychiatry** 2012;2:e93.
45. Liberalesso PB, Garzon E, **Yacubian EM**, Sakamoto AC. Refractory nonconvulsive status epilepticus in coma: analysis of the evolution of ictal patterns. **Arq Neuropsiquiatr** 2012;70(7):501-5.
46. Scarpa da Costa Neves R, Rada Jardim A, Caboclo LO, Lancellotti C, Marinho TF, Hamad AP, Marinho M, Centeno R, Cavalheiro EA, Scorza C, **Targas Yacubian EM**. Granule cell dispersion is not a predictor of

surgical outcome in temporal lobe epilepsy with mesial temporal sclerosis. **Clin Neuropathol** 2012 Jul 5.  
[Epub ahead of print]

#### **D. Research Support**

**R01 NS055057-01A2 Delgado-Escueta (PI) 04/01/2010-03/31/2015**

Discovering More Juvenile Myoclonic Epilepsy Genes by a Consortium.

The goals of this study are to accelerate discovery of epilepsy causing genes for JME, their pathogenetic mechanisms and cures through an international "GENESS" consortium. This consortium includes various sites in the developing world which provide human genetic resources, such as many large families.

Role: Site Director (Brazil)

**Fundação de Amparo à Pesquisa do Estado de São Paulo (2008-2012)**

Projeto CINAPSE. Epilepsy tissue study program with the group of Prof. Esper Abrão Cavalheiro.