

# **Gordon H. Baltuch, MD**

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## **Education**

He received his degree from Stanford University, and medical degree and Doctor of Philosophy from McGill University. He completed his training in Neurosurgery at the Montreal Neurologic Institute and Fellowship at the CHUV in Lausanne, Switzerland. He is board certified by the American Board of Neurological Surgery and the Royal College of Surgeons of Canada. His research interests include novel surgical strategies for the treatment of Parkinson's Disease, Movement Disorders, and Epilepsy. He is presently an assistant professor of neurosurgery at the University of Pennsylvania and associate director of the PADRECC of the Philadelphia VA. He is included in the Castle Connolly Guide of America's Top Doctors, Strathmore's "Who's Who" in America, as well as America's Registry of Outstanding Professionals.

## **Specialty**

- Epilepsy, Movement Disorders

## **Research Interests**

- Epilepsy, Movement Disorders

## **Selected Publications**

Baltuch GH, Shenouda G, Langleben A, Villemure JG, High dose tamoxifen in the treatment of recurrent high-grade glioma: A report of clinical stabilization and tumour regression. Canadian Journal of Neurological Sciences, 20: 168- 170, 1993.

Baltuch GH, Dooley NP, Couldwell WT, and Yong VW, Staurosporine differentially inhibits glioma versus nonglioma cell lines. *Journal of Neuro-Oncology*, 16: 14-147, 1993.

Baltuch GH, Couldwell WT, Villemure JG, and Yong VW, Protein kinase C inhibitors suppress cell growth in established and low passage glioma cell lines: A comparison between staurosporine and tamoxifen. *Neurosurgery*, 22: 493-501, 1993.

Baltuch GH, Farmer JP, Meagher-Villemure K, O'Gorman A, and Montes J-L, Ganglioglioma presenting as a vascular lesion in a ten year old male: A case report. *Journal of Neurosurgery* 79: 920-923, 1993.

Baltuch GH, Villemure J-G, McCrae E, and Antel JP, Lysis of human glioma cell lines by major histocompatibility complex-unrestricted CD4+ cytotoxic lymphocytes via a TNF independent mechanism. *Neurosurgery*, 35: 450-456, 1994.

Baltuch GH, Dooley NP, Rostworowski KM, Villemure JG, and Yong VW, Protein kinase C isoform overexpression in C6 glioma cells and its role in cell proliferation. *J Neuro-Oncology*, 24: 241-250, 1995.

Baltuch GH, and Yong VW, Signal transduction for proliferation of glioma cell lines in vitro occurs predominantly through a protein kinase C-mediated pathway. *Brain Research*, 143-149, 1996.

Favre J, Curty B, Steel T, Baltuch GH, Genne D, Kernan J, Fankhauser H, Recurrent nocardial brain abscesses treated by repeated stereotactic aspirations. *J Clin Neurosci* 5 (1): 97-100, 1998.

Dooley NP, Baltuch GH, Groome N, Villemure J-G, Yong VW, Apoptosis is induced in A172 human glioma cell line by antisense oligonucleotides to protein kinase C and is enhanced by cycloheximide. *Neuroreport*, 9(8), 1727-1733, 1998.

Tatum W, Moore DB, Stecker MM, Baltuch GH, French JA, Ferriera JA, Carney PM, Labar DR, Vale FL. Ventricular asystole during vagus nerve stimulation for epilepsy in humans. *Neurology*, 52 (6), 1267-1269, 1999.

Kohler C, Norstrand JA, Baltuch GH, O'Connor MJ, Gur RE, French JA, Sperling MR. Depression in temporal epilepsy before epilepsy surgery. *Epilepsia*, 40 (3): 339-340, 1999.

Glosser G, Cole LC, Deutch GK, Donofrio N, Bagley L, Baltuch GH, French JA. Hemispheric asymmetries in arousal affect outcome of the intracarotid amobarbital test. *Neurology* 52: 1583-1590, 1999.

Shieh JTC, Martin J, Baltuch GH, Malim MH, Gonzalez-Scarano F. Determinants of Syncytia-formation in microglia by the human immunodeficiency virus type 1 (HIV-1): Role of the V1/V2 domains J. Virology 74: 693-701, 2000.

Boockvar JA, Telfeian AE, Baltuch GH, Stern M, Schmidt L, Trojanowski JQ. Long term deep brain stimulation in a patient with essential tremor: clinical response and postmortem correlation with stimulator termination sites in ventral thalamus. Journal of Neurosurgery, 93: 140-144, 2000.

Telfeian AE, Boockvar JA, Simuni T, Jaggi J, Skolnick B, Baltuch GH. Efficiency of Unilateral deep brain stimulation of the vim nucleus of the thalamus in a patient with Bipolar disorder associated with Klinefelter's syndrome and essential tremors J. Neurosurgery, J Neurosurgery, 93: 127-128, 2000.

Siderof A, Gollomp SM, Stern MB, Baltuch GH, Riina HA. Emergence of complex Involuntary Movement After Gamma Knife Radiosurgery for Essential Tremor. (Movement Disorders, in press)

Taylor JP, Sater R, Baltuch GH, Crino PB. Expression of peripherin, a peripheral nerve intermediate filament protein, in focal cortical dysplasia. (ACTA Neurpath, in press)

Hua Y, Baltuch GH, Crino PB. Differential phenotype of dysplastic and heterotopic neurons: gene expression (neurotrophins and transcription factors) and clonality assays. (Neurology, in press)

Schwalb JM, Riina HA, Skolnick B, Jaggi J, Simuni T, Baltuch GH, Revision of Deep Brain Stimulator. Report of three cases with MR imaging targetting. J Neurosurg (in press).

King D, Alavi A, Baltuch GH, French J. Temporal lobe hypometabolism in patients with hippocampal atrophy and mesial temporal sclerosis. (submitted)

Levy-Reis I, Gonzalez-Atavales J, King DS, French JA, Baltuch GH, Bagley L. Detre JA. High resolution imaging of 4 Tesla for hippocampal volumetry in temporal lobe epilepsy