

# Sotirios Keros, MD PhD

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## A. GENERAL INFORMATION

1. Full Name: Sotirios Tony Keros
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## B. EDUCATIONAL BACKGROUND

<i>Degree</i>	<i>Institution name, city and state</i>	<i>Dates attended</i>	<i>Year Awarded</i>
B.S.E	Duke University, Durham NC	1990-1994	05/1994
Ph.D.	Department of Neurobiology University of Alabama- Birmingham, Birmingham AL	1996-2005	2005
M.D.	University of Alabama- Birmingham, Birmingham AL	1996-2006	2006

## C. TRAINING and EMPLOYMENT

### 1. Post-doctoral training

Post-Doctoral Fellow, Dept of Pediatrics	Weill Cornell Medical College, Mentors: Neil Harrison, Peter Goldstein and Stuart A. Anderson	Feb-June, 2007
Medical Resident	Child Neurology, Weill Cornell Medical College - New York Presbyterian Hospital	June 2007- Sept 2012
Research Fellowship	Neurological Sciences Academic Development Award (NIH K12)	Oct 2011- June 2014
Pediatric Epilepsy Fellowship	Weill Cornell Medical College, New York Presbyterian Hospital	July 2014- June 2015

### 2. Academic positions

Instructor in Pediatrics	Weill Cornell Medical College	Oct 2011- June 2014
Clinical Assistant Professor in Pediatrics	Weill Cornell Medical College	July 2015- Present
Assistant Professor in Pediatrics	University of South Dakota	Aug 2015- Present

3. Hospital/Clinical Positions

Assistant Attending Physician	New York Presbyterian Hospital	Oct 2012- June 2014; July 2015 - Present
Physician	Sanford Children's Hospital and Specialty Clinics	August 2015- Present

D. LICENSURE, BOARD CERTIFICATION

New York State Medical License: #242777 Issued: 04/01/2009 Through: 03/31/2016

South Dakota Medical License: #9499 Issued: 03/02/2015 Through: 03/01/2016

DEA numbers: FK3377721; FK5299943

American Board of Neurology and Psychiatry, with Special Qualification in Child Neurology, September 2013

E. HONORS AND AWARDS

Pre-Intramural Research Training Award Fellow, National Institute of Child Health and Human Development, National Institutes of Health, Laboratory of Chris J. McBain 1995

Resident Physician Prize, given by vote of the graduating medical school class to a New York Presbyterian Hospital resident physician who has "demonstrated excellence and dedication to the instruction of medical students" 2010

Award for Teaching Excellence, given to the subspecialty resident or fellow "most dedicated to teaching" as voted by the pediatrics residents 2010

Neurological Sciences Academic Development Award (NSADA K12) 2011-2014

**F. INSTITUTIONAL/HOSPITAL AFFILIATIONS**

Sanford Children's Hospital / University of South Dakota, Sioux Falls, SD

New York Presbyterian Hospital / Weill Cornell Medical College, New York, NY

**G. BIBLIOGRAPHY**

Peer reviewed original research

1. **Keros S**, McBain CJ. Arachidonic acid inhibits transient potassium currents and broadens action potentials during electrographic seizures in hippocampal pyramidal and inhibitory interneurons. *J Neurosci*. 1997 May 15;17(10):3476-87.
2. DeFazio RA, **Keros S**, Quick MW, Hablitz JJ. Potassium-coupled chloride cotransport controls intracellular chloride in rat neocortical pyramidal neurons. *J Neurosci*. 2000 Nov 1;20(21):8069-76.
3. **Keros S**, Hablitz JJ. Ectopic action potential generation in cortical interneurons during synchronized GABA responses. *Neuroscience*. 2005;131(4):833-42.
4. **Keros S**, Hablitz JJ. Subtype-specific GABA transporter antagonists synergistically modulate phasic and tonic GABA conductances in rat neocortex. *J Neurophysiol*. 2005 Sep;94(3):2073-85.
5. Lafaille FG, Pessach IM, Zhang SY, Ciancanelli MJ, Herman M, Abhyankar A, Ying SW, **Keros S**, Goldstein PA, Mostoslavsky G, Ordovas-Montanes J, Jouanguy E, Plancoulaine S, Tu E, Elkabetz Y, Al-Muhsen S, Tardieu M, Schlaeger TM, Daley GQ, Abel L, Casanova JL, Studer L, Notarangelo LD. Impaired intrinsic IFN- $\alpha/\beta$  immunity to HSV-1 in human iPSC-derived UNC-93B- and TLR3-deficient central nervous system cells. *Nature*. 2012 Nov 29; 491(7426):769-73
6. Maroof AM, **Keros S**, Tyson JA, Ying SW, Ganat YM, Merkle FT, Liu R, Goulburn A, Stanley EG, Elafanty AG, Widmer HR, Eggan K, Goldstein PA, Anderson SA & Studer L. Directed differentiation of human pluripotent stem cells into cortical interneurons. *Cell Stem Cell*. 2013 May 2; 12(5):559-72

7. Jaiswal MK, **Keros S**, Zhao M, Inan M, Schwartz TH, Anderson SA, Homanics GE, Goldstein PA. Reduction in focal ictal activity following transplantation of MGE interneurons requires expression of the GABAA receptor  $\alpha 4$  subunit. *Front Cell Neurosci*. 2015 Apr 9;9:127

8. Calder EL, Tchieu J, Steinbeck JA, Tu E, **Keros S**, Ying SW, Jaiswal MK, Cornacchia D, Goldstein PA, Tabar V, Studer L. Retinoic Acid-Mediated Regulation of GLI3 Enables Efficient Motoneuron Derivation from Human ESCs in the Absence of Extrinsic SHH Activation. *J Neurosci*. 2015 Aug 19;35(33):11462-81

#### Book Chapters

**Sotirios Keros** and Kaleb Yohay. "Neurocutaneous Disorders" in *Clinical Decision Support: Pediatrics*, edited by McMillan JM, Barrett DJ, Boney CM, Jones MD (2012). *Decision Support in Medicine*, LLC. Wilmington, DE.

Alison S. May and **Sotirios Keros**. "The Neurological Exam in Neonates and Toddlers" in *Common Neurosurgical Conditions in the Pediatric Practice: Recognition and Management*, edited by Jeffrey P. Greenfield and Caroline Long (In Press)