

BIOGRAPHICAL SKETCH

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NAME Jin S. Hahn		POSITION TITLE Professor of Neurology and Neurological Sciences and of Pediatrics	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Harvard Colleges, Cambridge MA	AB	1978	Chemistry and Physics
Harvard Medical School, Boston MA	MD	1982	Medicine
The Children's Hospital, Boston, MA	Resident	1982-84	Pediatrics
Harvard Medical School, Boston, MA	Resident	1984-87	Neurology
Stanford Univ Medical School, Stanford, CA	Fellow	1987-89	Electroencephalography and Epilepsy
Stanford Univ Medical Informatics Program, Stanford, CA		1998-99	Medical Informatics

A. Positions and Honors**Positions and Employment:**

1982-87 Clinical Instructor, Harvard Medical School, Boston, MA
 1987-89 Clinical Instructor in Neurology, Stanford University Medical Center, Stanford, CA
 1987-89 Volunteer Clinical Faculty and Physician Specialist in Pediatric Neurology, Stanford University Hospital and Children's Hospital at Stanford, Stanford, CA
 1989-91 Asst Clinical Prof of Neurosciences and Pediatrics, Level II-III, UC San Diego, San Diego, CA
 1991-92 Acting Assistant Prof of Neurology and Neurological Sciences, Stanford Univ, Stanford, CA
 1991-96 Asst Prof of Neurology and Neurological Sciences and of Pediatrics, Stanford Univ, Stanford, CA
 1991-2002 Medical Director of EEG Laboratory, Lucile Packard Children's Hospital, Palo Alto, CA
 1991-2008 Chief of Pediatric Neurology Service, Lucile Packard Children's Hospital, Palo Alto, CA
 1991-2008 Director of Child Neurology Residency Program, Stanford University, Stanford, CA
 1995-2005 Assoc Prof of Neurology and Neurological Sciences and Pediatrics, Stanford Univ, Stanford, CA
 1999-2008 Chief of Pediatric Neurology Division, Stanford University, Stanford, CA
 1999- Medical Director, Carter Centers for Brain Research in Holoprosencephaly and Related Malformations, Stanford University, Stanford, CA
 2000-03 Co-chair, Information Technology Committee, Lucile Packard Children's Hospital, Palo Alto, CA
 2001-02 Associate Professor, by courtesy, of Neurosurgery, Stanford Univ, Stanford, CA
 2004-08 Chief Medical Information Officer, Lucile Packard Children's Hospital, Palo Alto, CA
 2005- Prof of Neurology and Neurological Sciences and Pediatrics, Stanford Univ, Stanford, CA
 2005- Professor, by courtesy, of Neurosurgery, Stanford Univ, Stanford, CA

Honors and Awards:

1978 Highest Honors in Chemistry and Physics, Magna Cum Laude, Harvard
 1978 Phi Beta Kappa, Harvard
 1979 Medical Student Research Fellowship, Myasthenia Gravis Foundation
 1990 M.A.B. Brazier Young Investigator Award (Clinical Neurophysiology)

B. Selected Peer-Reviewed Publications (selected from 50)

Hahn JS, Aizenman E, Lipton SA. Central mammalian neurons normally resistant to glutamate toxicity are made sensitive by elevated extracellular Ca²⁺: toxicity is blocked by the N-methyl-D-aspartate antagonist MK-801. *Proc Natl Acad Sci USA* 1988; 85(17):6556-60. PMID: 2901101.

- Hahn JS**, Monyer H, Tharp BR. Interburst interval measurements in the EEGs of premature infants with normal neurological outcome. *Electroencephalogr Clin Neurophysiol* 1989; 73(5):410-8. PMID: 2479519.
- Hahn JS**, Tharp BR. Winner of the Brazier Award. The dysmature EEG pattern in infants with bronchopulmonary dysplasia and its prognostic implications. *Electroencephalogr Clin Neurophysiol* 1990; 76(2):106-13. PMID: 1697238.
- Liu A, **Hahn JS**, Heldt GP, Coen RW. Detection of neonatal seizures through computerized EEG analysis. *Electroencephalogr Clin Neurophysiol* 1992; 82(1):30-7. PMID: 1370141.
- Ortibus EL, Sum JM, **Hahn JS**. Predictive value of EEG for outcome and epilepsy following neonatal seizures. *Electroencephalogr Clin Neurophysiol* 1996; 98(3):175-85. PMID: 8631277.
- Hahn JS**, Siegler DJ, Enzmann D. Intravenous gammaglobulin therapy in recurrent acute disseminated encephalomyelitis. *Neurology* 1996; 46(4):1173-4. PMID: 8780119.
- Hahn JS**, Berquist W, Alcorn DM, Chamberlain L, Bass D. Wernicke encephalopathy and beriberi during total parenteral nutrition attributable to multivitamin infusion shortage. *Pediatrics* 1998; 101(1):E10. PMID: 9417174.
- Hahn JS**, Harris BT, Gutierrez K, Sandborg C. Progressive multifocal leukoencephalopathy in a 15-year-old boy with scleroderma and secondary amyloidosis. *Pediatrics* 1998; 102(6):1475-9. PMID: 9832587.
- Woolfenden AR, Albers GW, Steinberg GK, **Hahn JS**, Johnston DC, Farrell K. Moyamoya syndrome in children with Alagille syndrome: additional evidence of a vasculopathy. *Pediatrics* 1999; 103(2):505-8. PMID: 9925853.
- Simon EM, Hevner R, Pinter JD, Clegg NJ, Miller VS, Kinsman SL, **Hahn JS**, Barkovich AJ. Assessment of the deep gray nuclei in holoprosencephaly. *AJNR Am J Neuroradiol* 2000;21(10):1955-61. PMID: 11110554.
- Olson DM, Sheehan MG, Thompson W, Hall PT, **Hahn J**. Sedation of children for electroencephalograms. *Pediatrics* 2001; 108(1):163-5. PMID: 11433070.
- Hahn JS**, Henry M, Hudgins L, Madan A. Congenital hypomyelination neuropathy in a newborn infant: unusual cause of diaphragmatic and vocal cord paralyses. *Pediatrics* 2001; 108(5):E95. PMID: 11694679.
- Simon EM, Hevner RF, Pinter J, Clegg NJ, Delgado M, Kinsman SL, **Hahn JS**, Barkovich AJ. The dorsal cyst in holoprosencephaly and the role of the thalamus in its formation. *Neuroradiology* 2001; 43(9):787-91. PMID: 11594433.
- Simon EM, Hevner RF, Pinter JD, Clegg NJ, Delgado M, Kinsman SL, **Hahn JS**, Barkovich AJ. The middle interhemispheric variant of holoprosencephaly. *AJNR Am J Neuroradiol* 2002; 23(1):151-6. Erratum in: *AJNR Am J Neuroradiol* 2002 Apr;23(4):742. PMID: 11827888.
- Zou H, Lu QC, Durack JC, Chao C, Strasberg HR, Zhang Y, Tsai M, Melmon K, **Hahn JS**. Structured data management--the design and implementation of a web-based video archive prototype. *Proc AMIA Symp* 2001; 786-90. PMID: 11825293.
- Barkovich AJ, Simon EM, Clegg NJ, Kinsman SL, **Hahn JS**. Analysis of the cerebral cortex in holoprosencephaly with attention to the sylvian fissures. *AJNR Am J Neuroradiol* 2002; 23(1):143-50. PMID: 11827887.
- Nelson GB, Olson DM, **Hahn JS**. Short duration of benign partial epilepsy in infancy. *J Child Neurol* 2002; 17(6):440-5. PMID: 12174965.
- Plawner LL, Delgado MR, Miller VS, Levey EB, Kinsman SL, Barkovich AJ, Simon EM, Clegg NJ, Sweet VT, Stashinko EE, **Hahn JS**. Neuroanatomy of holoprosencephaly as predictor of function: beyond the face predicting the brain. *Neurology* 2002; 59(7):1058-66. PMID: 12370462.
- Lewis AJ, Simon EM, Barkovich AJ, Clegg NJ, Delgado MR, Levey E, **Hahn JS**. Middle interhemispheric variant of holoprosencephaly: a distinct clinicon neuroradiologic subtype. *Neurology* 2002; 59(12):1860-5. PMID: 12499474.

- Barkovich AJ, Simon EM, Glenn OA, Clegg NJ, Kinsman SL, Delgado M, **Hahn JS**. MRI shows abnormal white matter maturation in classical holoprosencephaly. *Neurology* 2002; 59(12):1968-71. PMID: 12499493.
- Hahn JS**, Delgado MR, Clegg NJ, Sparagana SP, Gerace KL, Barkovich AJ, Olson DM. Electroencephalography in holoprosencephaly: findings in children without epilepsy. *Clin Neurophysiol* 2003; 114(10):1908-17. PMID: 14499753.
- Stashinko EE, Clegg NJ, Kammann HA, Sweet VT, Delgado MR, **Hahn JS**, Levey EB. A retrospective survey of perinatal risk factors of 104 living children with holoprosencephaly. *Am J Med Genet A* 2004; 128A(2):114-9. PMID: 15213999.
- Hahn JS**, Lannin WC, Sarwal MM. Microangiopathy of brain, retina, and inner ear (Susac's syndrome) in an adolescent female presenting as acute disseminated encephalomyelitis. *Pediatrics* 2004; 114(1):276-81. PMID: 15231946.
- Chen KM, Cherry AM, **Hahn JS**, Enns GM. Mild developmental delay in terminal chromosome 6p deletion. *Am J Med Genet A* 2004; 129A(2):201-5. PMID: 15316977.
- Hsu D, Sandborg C, **Hahn JS**. Frontal lobe seizures and uveitis associated with acute human parvovirus B19 infection. *J Child Neurol* 2004; 19(4):304-6. PMID: 15163099.
- Hahn JS**, Plawner LL. Evaluation and management of children with holoprosencephaly. *Pediatr Neurol* 2004; 31(2):79-88. PMID: 15301825.
- Hahn JS**, Hahn SM, Kammann H, Barkovich AJ, Clegg NJ, Delgado MR, Levey E. Endocrine disorders associated with holoprosencephaly. *J Pediatr Endocrinol Metab* 2005; 18(10):935-41. PMID: 16355806.
- Hahn JS**, Barkovich AJ, Stashinko EE, Kinsman SL, Delgado MR, Clegg NJ. Factor analysis of neuroanatomical and clinical characteristics of holoprosencephaly. *Brain Dev* 2006; 28(7):413-9. Epub 2006 Feb 28. PMID: 16503393.
- Roesler CP, Paterson SJ, Flax J, **Hahn JS**, Kovar C, Stashinko EE, Jing H, Benasich AA. Links between abnormal brain structure and cognition in holoprosencephaly. *Pediatr Neurol* 2006; 35(6):387-94. PMID: 17138007.
- El-Jaick KB, Powers SE, Bartholin L, Myers KR, **Hahn J**, Orioli IM, Ouspenskaia M, Lacbawan F, Roessler E, Wotton D, Muenke M. Functional analysis of mutations in TGIF associated with holoprosencephaly. *Mol Genet Metab* 2007; 90(1):97-111. Epub 2006 Sep 7. PMID: 16962354.
- Hahn JS**, Pohl D, Rensel M, Rao S; International Pediatric MS Study Group. Differential diagnosis and evaluation in pediatric multiple sclerosis. *Neurology* 2007; 68(16 Suppl 2):S13-22. PMID: 17438234.
- Tenembaum S, Chitnis T, Ness J, **Hahn JS**; International Pediatric MS Study Group. Acute disseminated encephalomyelitis. *Neurology* 2007; 68(16 Suppl 2):S23-36. PMID: 17438235.
- Hahn JS, Barnes PD. Neuroimaging Advances in Holoprosencephaly: Refining the Spectrum of the Midline Malformation. *American Journal of Medical Genetics*, 2010 154C:120-32.
- Hahn JS, Clegg NJ, Stashinko E, Barnes PD. Septo-Preoptic Holoprosencephaly: A mild subtype associated with mild craniofacial malformations. *AJNR*, 2010 (in press)

C. Research Support

Ongoing Research Support

The Don and Linda Carter Foundation, The Crowley-Carter Foundation

1998-2009

The Carter Centers for Brain Research in Holoprosencephaly

ongoing

The goals of this multicenter program's clinical studies are to gather information on children with holoprosencephaly and related brain malformations to characterize the spectrum of the disorder, determine the genetics and pathogenesis of the disorder, and to identify targets for therapy.

Role: PI

Completed Research Support

Wadsworth Foundation Banwell B (PI)

2002-2004

This is a multicenter study with the goal of understanding viral exposure in pediatric MS

Role: Site PI

Glaxo Smith Kline

2000-2003

A multicenter safety and pharmacokinetic study of lamotrigine in infants

This was a multicenter drug study investigating the safety and efficacy of a relatively new antiepileptic medication, lamotrigine, in infants.

Role: Site PI