

Steven A. Kane, M.D., Ph.D.

Abbreviated Curriculum Vitae Prepared on December 7, 2024

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Birth

December 7, 1958 in Cleveland, OH

Education

1981	BS, MS	Physics, Chemistry	Miami University, OH
1990	MD, PhD	Neural Sciences	Washington Univ., St. Louis

Post-doctoral training

1990-1	Internship	Medicine	Barnes-Jewish Hospital, MO
1991-4	Residency	Ophthalmology	Harkness Eye Institute, NY
1994-5	Fellowship	Pediatric and neuro-ophthalmology	Harkness Eye Institute, NY

Medical credentials

1995	New York State medical license 1898806
1997	Diplomat, American Board of Ophthalmology

Professional organizations and societies

Society of Heed Fellows
North American Neuro-ophthalmology Society
American Association of Pediatric Ophthalmology and Strabismus
Greater New York Society of Pediatric Ophthalmology and Strabismus, President

Current academic appointment

2008-	Associate Clinical Professor	Columbia University, NY
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Current hospital appointments

2006-	Adjunct surgeon	New York Eye and Ear, NY
2008-	Attending physician	Presbyterian Hospital, NY

Manhattan Eye and Ear, NY

Honors

1989	James O’Leary Prize for research in neuroscience
1994	Society of Heed Fellows
1998	Philip Knapp Memorial Teaching Award
2000-	Various best doctors lists
2006	Philip Knapp Memorial Teaching Award
2013	Physician of the Year, Children’s Glaucoma Foundation

Invited presentations

1985	The cerebellum and the coordination of movement	Miami University, OH
1987	Studies of the brain using positron emission tomography	Miami University, OH
1995	Diagnosis and treatment of third nerve palsy	Krieger Eye Institute, MD
1995	Cortical blindness: clinical syndromes and physiology	University of Rochester, NY
2000	Pediatric glaucoma	Westchester Med. Center
2003	Trabeculectomy	Mass. Eye and Ear, MA
2006	Pediatric cataracts	Westchester Med Center
2006	Eye and skin diseases	Roosevelt Hospital, NY
2006	The pediatric glaucomas	St. Vincent's Hospital, NY
2008	Pediatric glaucoma	NY Eye and Ear
2008, 11	The pediatric glaucomas	MEETH: Greater NY Ophthal. Lecture Series
2009	Ophthalmic signs of neurological disease: localization from visual loss and ocular fundus signs	Neurological Institute, NY
2009	Visual loss from Vigabatrin	Neurological Institute, NY
2009	The pediatric glaucomas: recognition and treatment	Staten Island Hospital
2010	Differential effects of goniotomy for the childhood glaucomas	NY Ophthal. Society
2010	New approaches to the management of glaucoma in children with corneal disease	AAO Pediatric Keratoplasty Association
2010	What does a pediatric neuro-ophthalmologist do?	Neurological Institute, NY
2011	Mitochondrial optic neuropathies	Neurological Institute, NY
2011	Differential effects of goniotomy of the childhood glaucomas	Westchester Med. Center
2012	Surgical treatment of the pediatric glaucomas	New York University
2012-	Glaucoma with the Sturge Weber syndrome	Vascular Birthmarks Foundation (yearly)

2014	Visual loss associated with vigabatrin	Neurological Institute, NY
2015	The visual system in epilepsy	New York University
2016	The pediatric glaucomas: recognition, characterization, and treatment	Hadassah Medical Center, Jerusalem
2016	Precision ophthalmology: Oh, the things you can do... with a goniotomy knife	Precision Medicine, CPMC
2018	The role of biologics in ophthalmic and neurologic disease	James Rodney Lectureship, Beaumont Hospital, MI
2019	KAND-related vision concerns	KIF1A Foundation CPMC
2019	Precision ophthalmology: prenatal consultation for congenital cataracts	CPMC
2024	The Pediatric Glaucomas	SUNY Downstate, Visiting Professorship

Clinical trials, past and ongoing

2003-5	Evaluating the effectiveness of dichloroacetate in MELAS syndrome	CPMC
2017-	Jewelfish: an open-label study to investigate the safety, tolerability, and pharmacokinetics/pharmacodynamics of RO7034067 in adult and pediatric patients with spinal muscular atrophy (IRB AAAR1270)	CPMC
2017-	Sunfish: A two part seamless multi-center randomized placebo-controlled, double blind study to investigate the safety, tolerability, pharmacokinetics, pharmacodynamics and efficacy of RO7034067 in Type 2 and 3 spinal muscular atrophy patients (IRB AAAR0891)	CPMC
2017-2020	Firefish: A two part seamless, open-label multi-center study to investigate the safety, tolerability, pharmacokinetics, pharmacodynamics and efficacy of RO7034067 in infants with Type 1 spinal muscular atrophy (IRB AAAR3218)	CPMC
2017-2023	Detection of amblyopia by retinal rivalry: a prospective study to determine sensitivity and specificity of vision screening using a video-game format on an iPad compared to standard methods of vision screening in primary care and school settings (IRB AAAC0020)	CPMC

Select publications

A. Original, peer-reviewed articles

- Chiang, M.F., Wang, L., Busuloc, M., Du, Y.E., Chan, P., Kane, S.A., Lee, T.C., Weissgold, D.J., Berrocal, A.M., Coki, O., Flynn, J.T., Starren, J. Telemedical retinopathy of prematurity diagnosis: accuracy, reliability, and image quality. *Arch. Ophthalmol.* 2007 125(11): 1562-3.
- Lajoie, A., Koreen, S., Wang, L., Kane, S.A., Lee, T.C., Weissgold, D.J., Berrocal, A.M., Du, Y.E., Coki, O., Flynn, J.T., Starren, J., Chiang, M.F. Retinopathy of prematurity management using single-image vs multiple-image telemedicine examinations. *Am. J. Ophthalmol.* 2008 146(2):298-309.
- Scott, K.E., Kim, D.Y., Wang, L., Kane, S.A., Coki, O., Sarren, J., Flynn, J.T., Chiang, M.F. Telemedical diagnosis of retinopathy of prematurity intraphysician agreement between ophthalmoscopic examination and image-based interpretation. *Ophthalmology* 2008 115 (7):1222-1228.
- Williams, S.L., Wang, L., Kane, S.A., Lee, T.C., Weissgold, D.J., Berrocal, A.M., Rabinowitz, D., Starren, J., Flynn, J.T., Chiang, M.F. Telemedical diagnosis of retinopathy of prematurity: accuracy of expert versus non-expert graders. *Br. J. Ophthalmol.* 2010 94 (3):351-6.
- Walton, D.S., Nagao, K., Yeung, H.H., Kane, S.A. Late-recognized primary congenital glaucoma. *J. Ped. Ophthal. Strabismus.* 2013 50(4):234-8.
- Pearson, T.S., Pons, R., Engelstad, K., Kane, S.A., Goldberg, M.E., and De Vivo, D.C. Paroxysmal eye-head movements in GLUT1 deficiency syndrome. *Neurology* 2017 Apr 25; 88(17): 1666–1673.
- Yeung, H.H., Kane, S.A., Nzuna, J.S., Walton, D.S. Failure of goniosurgery for glaucoma associated with the Sturge-Weber syndrome. *J. Pediatric Ophthal. and Strabismus* 2020 Nov;57(6):384-387.
- Kane, S.A., Gaspich, M., Kane, J.S., Weitzman, S.A., Hofeldt, A. Automated vision screening of children using a mobile graphic device. *Eye (Lond).* 2021 Dec 37:30-33.
- Kane, J.S., Gaspich, M., Gold, A., Pichardo, H., Kane, S.A. Relative foveal dark adaptation: a potential method for assessing macular health. *Eye (Lond).* 2024 June 38:2976-2980.
- Gold, A., Weitzman, S.A., Hans, M., Medow, N., Moon J.Y., Kane, S.A. Mobile Graphic Device Vision Screening for Unilateral

Amblyopia in Pediatric Subjects. J. Pediatr Ophthal Strabismus.
2025. Accepted for publication.

B. Reviews, Chapters and Editorials

- Kane, S.A. and Thach, W.T. Palatal myoclonus and function of the inferior olive: are they related? Ed. P. Strata. The Olivocerebellar System in Motor Control. Springer Verlag, Berlin. 1989. p. 427-460.
- Thach, W.T., Kane, S.A., Mink; J.W., and Goodkin, H.P. Cerebellar output: multiple maps and motor modes in movement coordination. Eds. Llinas, R. and Sotelo, C. In: The Cerebellum Revisited, Springer-Verlag. New York. 1992. p. 283-300.
- Suh, LeeJee H. Cataract. Eds. Daniel Casper and George Cioffi. In: The Columbia Guide to Basic Elements of Eye Care. Springer. 2019. p. 117-136.
- Kane, S.A. Pediatric Glaucoma. Eds. Daniel Casper and George Cioffi. In: The Columbia Guide to Basic Elements of Eye Care. Springer. 2019. p. 185-194.