

BIOGRAPHICAL SKETCH

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NAME John Samuel Stahl	POSITION TITLE Associate Professor of Neurology		
eRA COMMONS USER NAME JSSTAHL			
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
University of Pennsylvania, Philadelphia, PA	BA	1979-1983	Biology
New York University, New York, NY	MD, PhD	1983-1992	Medicine/Physiology
New York University Medical Center, New York	N/A	1992-1993	Internal Med. (residency)
Case Western Reserve University	N/A	1993-1996	Neurology (residency)

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

1992-1993: Medical Intern, Department of Internal Medicine, New York University Medical Center

1993-1996: Neurology Resident, Department of Neurology, Case Western Reserve University

1996-2004: Assistant Professor, Department of Neurology, Case Western Reserve University

1996-present: Staff Neurologist, Louis Stokes Cleveland Dept. of Veterans Affairs Medical Center

2004-present: Associate Professor, Department of Neurology, Case Western Reserve University

Professional Certifications

1993: Diplomate, National Board of Medical Examiners

1996: Licensee, Ohio State Medical Board

1997, 2007: Board certified in Neurology, The American Board of Psychiatry and Neurology

Honors

1983: Phi Beta Kappa

1983-1992: Medical Scientist Training Program scholarship

1992: Alpha Omega Alpha Medical Honor Society

B. Selected peer-reviewed publications (selected, in chronological order).

Averbuch-Heller L, **JS Stahl**, KG Rottach, and RJ Leigh. (1995) Gabapentin as treatment for nystagmus. Ann Neurol **38**, 972.

Stahl, JS (1995) A portable and affordable Lancaster red-green test. Neuro-Ophthalmology. **15**, 321-322.

Stahl, JS, and JI Simpson (1995) Dynamics of abducens nucleus neurons in the awake rabbit. J. Neurophysiol. **73**, 1383-1395.

Stahl, JS, and JI Simpson (1995) Dynamics of rabbit vestibular nucleus neurons and the influence of the flocculus. J. Neurophysiol. **73**, 1396-1413.

De Zeeuw CI, DR Wylie, **JS Stahl**, and JI Simpson (1995) Phase relations of Purkinje cells in the rabbit flocculus during compensatory eye movements. J. Neurophysiol. **74**, 2051-2064.

Stahl, JS, KG Rottach, L Averbuch-Heller, RD von Maydell, SD Collins, and RJ Leigh (1995) A pilot study of Gabapentin as treatment for acquired nystagmus. Neuroophthalmology. **16**, 107-113.

Averbuch-Heller L, **JS Stahl**, BF Remler, and RJ Leigh. (1996) Bilateral ptosis and upgaze palsy with right hemispheric lesions. Ann Neurol **40**, 465-468.

Stahl JS, L Averbuch-Heller, BF Remler, and RJ Leigh. (1998) Clinical evidence of extraocular muscle fiber-type specificity of botulinum toxin. Neurology. **51**, 1093-1099.

- Averbuch-Heller L, **JS Stahl**, ML Hlavin, and RJ Leigh. (1999) Square-wave jerks induced by pallidotomy in parkinsonian patients. Neurology **52**, 185-188.
- Stahl, JS.** (1999) Amplitude of human head movements associated with horizontal saccades. Exp. Brain Res. **126**, 41-54.
- Stahl, JS**, M Lehmkuhle, K Wu, B Burke, D Saghafi, and S Pesh-Imam. (2000) Prospects for treating acquired pendular nystagmus with servo-controlled optics. Invest. Ophthalmol. Vis. Sci. **41**, 1084-90.
- Stahl, JS**, AM van Alphen, and CI De Zeeuw. (2000) A comparison of video and magnetic search coil recordings of mouse eye movements. J. Neurosci. Meth. **99**, 101-110.
- Stahl, JS.** (2001) Eye-head coordination and the variation of eye movement accuracy with orbital eccentricity. Exp. Brain Res. **136**, 200-210.
- van Alphen, AM, **JS Stahl**, SKE Koekoek, and CI De Zeeuw. (2001) The dynamic characteristics of the mouse vestibulo-ocular and optokinetic response. Brain Res. **890**, 296-305.
- Stahl, JS.** (2001) Adaptive plasticity of head movement propensity. Exp. Brain Res. **139**, 201-208.
- Stahl, JS.** (2002) Calcium channelopathy mutants and their role in ocular motor research. Ann N Y Acad Sci **956**, 64-74.
- McMullen CA, Andrade FH, and **Stahl JS.** (2004) Functional and genomic changes in the mouse ocular motor system in response to light deprivation from birth. J Neurosci. **24**, 161-169.
- Goossens HHLM, Hoebeek FE, van Alphen AM, van der Steen J, **Stahl JS**, De Zeeuw CI, and Frens, MA. (2004) Simple spike and complex spike activity of floccular Purkinje cells during the optokinetic reflex in mice lacking cerebellar LTD. Eur J Neurosci. **19**, 687-697.
- Smith RM, Oommen BS, and **Stahl JS.** (2004) Application of adaptive filters to visual testing and treatment in acquired pendular nystagmus. J Rehabil Res Dev. **41**, 313-324.
- Smith RM, Oommen BS, and **Stahl JS.** (2004) Image-shifting optics for a nystagmus treatment device. J Rehabil Res Dev. **41**, 325-336.
- Oommen BS, Smith RM, and **Stahl JS.** (2004) The influence of future gaze orientation upon eye-head coupling during saccades. Exp Brain Res. **155**, 9-18.
- Stahl JS.** (2004) Eye Movements of the Murine P/Q Calcium Channel Mutant *Rocker*, and the Impact of Aging. J Neurophysiol. **91**, 2066-2078.
- Stahl JS.** (2004) Using eye movements to assess brain function in mice. Vision Res. *In press*.
- Stahl JS. (2004) Using eye movements to assess brain function in mice. Vision Res. **44**, 3401-10.
- Hoebeek FE, **Stahl JS**, van Alphen AM, Schonewille M, Luo C, Rutteman M, van den Maagdenberg AM, Molenaar PC, Goossens HH, Frens MA, De Zeeuw CI. (2005) Increased Noise Level of Purkinje Cell Activities Minimizes Impact of Their Modulation during Sensorimotor Control. Neuron. **45**, 953-65.
- Stahl JS** and James RA. (2005) Neural integrator function in murine CACNA1A mutants. Ann NY Acad Sci. **1039**, 580-2.
- Alagramam KN, **Stahl JS**, Jones SM, Pawlowski KS, and Wright CG. (2005) Characterization of vestibular dysfunction in the mouse model for Usher syndrome 1F. J Assoc Res Otolaryngol. **6**, 106-18.
- Oommen BS, and **Stahl JS.** (2005) Overlapping gaze shifts reveal timing of an eye-head gate. Exp Brain Res. **167**, 276-286.
- Oommen BS, and **Stahl JS.** (2005) Inhibited head movements: a risk of combining phoning with other activities? Neurology. **65**, 754-756.
- Yin H, **Stahl JS**, Andrade FH, McMullen, CA, Webb-Wood S, Newman NJ, Biousse V, Wallace DC, and Pardue MT. (2005) Eliminating the *Ant1* isoform produces a mouse with CPEO pathology but normal ocular motility. Invest Ophthalmol. Vis. Sci. **46**, 4555-62.
- Oommen BS, **Stahl JS.** (2005) Amplitudes of head movements during putative eye-only saccades. Brain Res. **1065**, 68-78.
- Stahl JS**, James RA, Oommen BS, Hoebeek FE, and De Zeeuw CI. (2006) Eye movements of the murine P/Q calcium channel mutant *tottering*, and the impact of aging. J. Neurophysiol. **95**, 1588-607.
- Oommen BS and **Stahl JS.** (2008) Eye orientation during static tilts and its relationship to spontaneous head pitch in the laboratory mouse. Brain Res. *In press*.

C. Research Support, 2004-2008

R01 EY13370

Title: "Vestibulocerebellar Function in Channelopathy Mutants"

Source: NEI/NIH Role: PI Dates: 2/02-1/05

Description: This project studied vestibular and ocular motor function in mice carrying mutations of neuronal calcium channels, with special attention to comparing different mutant strains and assessing how deficits developed with aging. Behavioral data from this project forms a basis for the current application.

R01 EY13238.

Title: "Neuromuscular Transmission Properties of Ocular Muscles"

Source: NEI/NIH Role: Co-Investigator (PI HJ Kaminski) Dates: 7/01-6/04 (year 3 only)

Description: This project explored transmission at the neuromuscular junction of eye muscles in animals in an attempt to understand why eye muscles and limb muscles are differentially affected in neuromuscular disorders such as myasthenia gravis. Dr. Stahl contributed to this project by recording eye movements of mice to assess the functional consequences of alterations of neuromuscular transmission previously demonstrated *in vitro*.

R24 EY014837

Title: "Targeted Therapies for Myasthenia Gravis"

Source: NEI/NIH Role: Co-Investigator (PI HJ Kaminski) Dates: 9/03-8/08

Description: This project explores new immunological therapies for myasthenia gravis. Dr. Stahl contributes to this program project by recording eye movements of mice treated with complement inhibitors.

P30 EY11373 (Visual Sciences Research Center, VSRC)

Title: "Core Facility for the Visual Sciences"

Source: NEI/NIH Role: Participant (PI JH Lass) Dates: 04/07-03/12

Description: This multi-investigator program supports a number of core resources that facilitate research of vision and ocular motility. Relevant to the proposed project, it provides Dr. Stahl with services of a fully equipped histological laboratory, and an animal technician devoted to breeding the mutants.

Merit Review Award

Title: "Coordination of Head and Eye Movements"

Source: Dept. of Veterans Affairs Role: PI Dates: 4/02-3/05, 10/05-9/09

Description: This project uses behavioral measurements in humans to investigate the mechanisms that control whether or not head movements occur during gaze shifts.

Rehabilitation Research Award

Title: "Therapies for Abnormal Eye Movements that Degrade Vision"

Source: Dept. of Veterans Affairs Role: PI Dates: 7/01-6/04, 8/04-9/07

Description: This project seeks to develop electromechanical devices to improve vision in patients with acquired disorders of eye movements, particularly acquired pendular nystagmus.