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Gregory Aram Sahagian, M.D.

EDUCATION

Columbia University

School of Engineering and Applied Science, New York City, NY ■ 1991
B.S. in Chemical Engineering

Albert Einstein College of Medicine, Bronx, NY ■ 1995

M.D.

Winthrop University Hospital

SUNY School of Medicine, Mineola, NY ■ 1995-1996
Internship, Medical

University of California, San Diego, San Diego, CA ■ 1996-1998
Residency, Neurology

University of California, San Diego, San Diego, CA ■ 1998-1999
Chief Resident, Neurology

University of California, San Diego, San Diego, CA ■ 1999-2000

Fellowship, Neuromuscular, Subspecialty training in neuromuscular diseases including nerve conduction studies, electromyography and botulinum toxin use

LICENSURE

- California Medical License Number – A62263
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CERTIFICATIONS

- American Board of Psychiatry and Neurology- Neurology ■ 2001 ■ Re-Certified 2011
- American Board of Psychiatry and Neurology- Neuromuscular Medicine ■ 2012
- American Board of Electrodiagnostic Medicine ■ 2002 ■ Re-Certified 2011
- The Joint Commission Accredited with National Quality Approval ■ Gold Seal of Approval
- AANEM Accredited EMG lab with Exemplary Status ■ Lab Medical Director 2013-present

AWARDS

- Top Doctor Award
San Diego ■ 2007 ■ 2013 ■ 2014 ■ 2015 ■ 2016 ■ 2017
 - Golden Neuron award for most outstanding Neurology Resident,
University of California, San Diego ■ 1999
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PROFESSIONAL SOCIETIES

- American Academy of Neurology
 - American Association of Neuromuscular and Electrodiagnostic Medicine
California State Liaison 2008- present
 - Association of California Neurologists
Young Physician Section representative to the CMA ■ 2005-2009
 - California Medical Association
Young Physician Section Delegate to the AMA ■ 2005-2009
 - San Diego Neurologic Society
Program Chairman ■ 2001-2004
 - San Diego County Medical Society
 - American Medical Association
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PROFESSIONAL EXPERIENCES

Neurologist, Private Group Practice, North County Neurology Associates dba The Neurology Center, Carlsbad, Escondido, Poway, La Jolla, CA ■ January 2016 – Present

- CEO/CFO/Managing Partner – 2004-present

Neurologist, The Research Center of Southern California, Carlsbad, CA ■ 2000- present

Scripps Memorial Hospital, Encinitas, California

- Active Privileges 2000- present
- Chairman, Department of Neurosciences, 2016 - present

Tri-City Medical Center, Oceanside, California,

- Active Privileges ■ 2000 - Present
- Chief of Neurology ■ 2002 – 2015
- Chairman, Department of Medicine ■ 2003 – 2005

Assistant Clinical Professor, Voluntary

UCSD Department of Neurosciences ■ 2000-Present

Myasthenia Gravis Foundation of California

Medical Advisory Board Member ■ 2013-Present

HOSPITAL AFFILIATIONS

- **Tri-City Medical Center**, Oceanside, California, Active Privileges ■ 2000 - Present
- **Scripps Memorial Hospital**, Encinitas, California, Active Privileges ■ 2000 – Present
- **Palomar Medical Center**, Escondido, California, Active Privileges ■ 2012- Present
- **Pomerado Medical Center**, Poway, California, Active Privileges ■ 2012- Present
- **Rady Children's Hospital**, San Diego, CA Active Privileges ■ Current

PUBLICATION

- Wagner, G., Rosen, J., Holguin, G., Frishberg, B., Wang, A., Sahagian, G., Haase-Alasantro, L. (2016). Clinical Assessment of Posterior Cortical Atrophy. Poster presented at the National Academy of Neuropsychology Conference, Seattle, WA.
 - Morello CM, Leckband SG, Stoner CP, Moorhouse DF, Sahagian GA: Randomized double-blind study comparing the efficacy of gabapentin with amitriptyline on diabetic peripheral neuropathy pain. Arch Intern Med 1999 Sep 13; 159(16): 1931-7
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RESEARCH ACTIVITIES

ALS

“Epidermal Nerve Fiber Analysis in Amyotrophic Lateral Sclerosis”, Primary Investigator, 2009-present

PrecisionMed 4800: A single or multiple visit protocol for collection of DNA/RNA/SERUM/PLASMA/CSF in Amyotrophic Lateral Sclerosis and related disorders.” 2012

Alzheimer’s Disease

191622-025 “Multi-center, Open-label study of Repeated doses of Botox in the treatment of Focal Upper Limb Spasticity Post-Stroke.” Sub-investigator, 1999-2000

GAL-INT-11 “A randomized double blind placebo-controlled trial to evaluate the efficacy and safety of Galantamine in subjects with mild cognitive impairment (MCI) clinically at risk for development of clinically probably Alzheimer’s disease.” Sub-Investigator, 2001

TVP1012-A001-201- A 1-Year, double-blind, randomized, placebo-controlled study of Ragasiline 1 mg and 2 mg added to Aricept 10 mg daily in patients with mild to moderate dementia of the Alzheimer’s type.” Sub-Investigator, 2005

VP-AD-301 “A Double-Blind Placebo-Controlled Study of VP4896 for the Treatment of Mild to Moderate Alzheimer’s Disease.” Sub-Investigator, 2006

PRX-03140 “A Randomized, Double-Blind, Placebo Controlled, Phase IIa Study to Assess the Short-Term Effects of PRX-03140 Alone and in Combination with Donepezil in Subjects with Mild Alzheimer’s Disease.” Sub-Investigator, 2006

ELN115727-301 & 302 “A Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Efficacy and Safety Trial of Bapineuzumab (AA-001, ELN115727 in Patients with Mild to Moderate Alzheimer’s Disease who are Apo lipoprotein E ϵ 4 Non-Carriers (301) or Non-Carriers (302).” Sub-Investigator, 2008

RESEARCH ACTIVITIES CONTINUED

Alzheimer's Cont'd

ELN115727-351 "A Phase 3 Extension, Multicenter, Double-Blind, Long Term Safety and Tolerability Treatment Trial of Bapineuzumab (AAB-001, ELN115727) in Subjects with Alzheimer's Disease who Participated in Study ELN115727-301 or in Study ELN115727-302." Sub-Investigator, 2009

AAB-001-SC-ALZ-2003 " A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multi-Center, Biomarker, Safety, and Pharmacokinetic Study of Bapineuzumab (AAB-001) Administered Subcutaneously at Monthly Intervals in Subjects with Mild to Moderate Alzheimer's Disease." Sub-Investigator, 2010

14862A "Randomized, double-blind, parallel-group, placebo-controlled, fixed-dose study of Lu AE58054 in patients with mild-moderate Alzheimer's disease treated with donepezil." Sub-investigator, 2015

Epilepsy

E2080-A001-301 "A Double-Blind, Placebo-Controlled, Parallel-Group Study of Rufinamide Given as Adjunctive Therapy in Patients with Refractory Partial Seizures". Sub Investigator, 2006

Migraine

191622-037-00 "A multicenter, double-blind, randomized, placebo-controlled, parallel group study of BOTOX® (Botulinum Toxin Type A) purified neurotoxin complex for the prophylactic treatment of migraine headaches in the episodic migraine population." Sub-Investigator, 2001

191622-038-01 "A multicenter, double-blind, randomized, placebo-controlled, parallel group study of BOTOX® (Botulinum Toxin Type A) purified neurotoxin complex for the prophylactic treatment of headaches in the chronic headache population." Sub-Investigator, 2001

CAPSS-155 "A comparison of the efficacy and safety of TOPAMAX® (Topiramate) tablets versus placebo for the prophylaxis of migraine." Sub-Investigator, 2001

MT 100-308 "A double blind, placebo-controlled, study to evaluate the safety and efficacy of MT 100 versus over-encapsulated Sumatriptan in subjects with acute migraine attacks." Sub-Investigator, 2001

MT100-402 – "A Double Blind, Randomized Placebo-Controlled, Study to Evaluate the Safety and Efficacy of MT 100 for the Treatment of Migraine in Subjects Who Are Intolerant to 5-HT Agonists or Have Cardiovascular Risk Factors." Sub-Investigator, 2001

MT100-401A – "A Double Blind, Randomized, Placebo-Controlled Study to Evaluate the Safety and Efficacy of a Two Tablet Dose of MT 100 for Treatment of Migraine in Imitrex® None responders." Sub-Investigator, 2001

MT 300-302 – "A Randomized-Double-Blind, Placebo Controlled Evaluation of the Safety and Efficacy of MT 300 in the Acute Treatment of Migraine." Sub-Investigator, 2003

RESEARCH ACTIVITIES CONTINUED

Migraine Cont'd

SUM40298 – “A Randomized, Double-Blind, Placebo-Controlled, Single Attack, Parallel-Group Evaluation of the Efficacy of Sumatriptan 50mg Tablets versus Placebo in the Treatment of Self-Described and/or Physician-Diagnosed Sinus Headaches that Meet International Headache Society (HIS) Criteria for Migraine Headache.” Sub-Investigator, 2003

VML251/00/02 – “A Double-Blind, Placebo-Controlled, Three-Way Crossover clinical Study to Assess the Safety and Efficacy of Two Dose Regimens of Frovatriptan, Compared with Placebo, in Preventing Menstrually Associated Migraine (MAM) Headaches.” Sub-Investigator, 2002

311CUS/0022 “A Multicenter, Randomized, Placebo-Controlled, Double-Blind, Parallel-Group Trial to Evaluate Early Efficacy and Tolerability of Zolmitriptan (Zomig) Nasal Spray in the Acute Treatment of Adult Subjects with Migraine.” Sub-Investigator, October 2002

MT300-401 “A Multicenter Randomized, Single-Blind, Evaluation of Three Injectable Anti-Migraine Drugs.” Sub-Investigator, February 2003

3420AG1 – “Program to Assess Treatment Strategies: A Botox Observational Program.” – Sub Investigator, 2003

CL1776-005 – “A Phase 2 Safety and Efficacy Study of NPS 1776 for the Acute Treatment of Migraine Headaches.” Sub Investigator, 2004

001 – “A Randomized, Evaluator-Masked Trial to Evaluate the Efficacy of Botox Compared with Depakote in Migraine Prevention.” Sub Investigator, 2004

MT400-303 “An Open-label, Repeat Dose Study of the Safety of Combo Formulation in the Treatment of Multiple Episodes of Acute Migraine over 12 Months.” Sub-Investigator, 2004

MT400-301 (POZEN) “A Double-Blind, Multicenter, Randomized, Placebo-Controlled Single Dose Study To Evaluate The Safety And Efficacy Of Trexima In The Acute Treatment Of Migraine Headaches.” Sub-Investigator, 2004

065-00 (Maxalt) “A Multicenter, Double-Blind, Randomized, Parallel, Placebo-Controlled Study to Examine the Efficacy of Rizatriptan 10-mg Tablet Administered Early During a Migraine Attack While the Pain is Mild.” Sub-Investigator, 2004

VML251-3MRM/02 “A double-blind, placebo-controlled, parallel group study, with an open-label extension phase, to assess the efficacy, tolerability and safety of oral frovatriptan in the prevention of menstrually related migraine (MRM) headaches in a “difficult to treat” population.” Sub-Investigator, 2005

E2007-A001-210- A Randomized, Double-Blind, Placebo-Controlled, Multi-Center, Parallel-Group Study to Evaluate the Efficacy and Safety of E2007 in Migraine Prophylaxis.” Sub-Investigator, 2005

RESEARCH ACTIVITIES CONTINUED

Migraine Cont'd

A Single-Center, Double-Blind Comparison of BOTOX® (Botulinum Toxin Type A) and DEPAKOTE® for the Prophylactic Treatment of Migraine Headaches- Pilot Study.” Sub-Investigator, 2005

“A Single-Center, Double-Blind Comparison of Botox and Topiramate for the Prophylactic Treatment of Chronic Migraine Headache.” Sub-Investigator, 2005

1602 “A Multi-Center, Randomized, Single-Blind, Controlled Study to Obtain Preliminary Safety and Efficacy Data for ONS Treatment of Chronic Migraine Headache.” Sub-Investigator, 2005

191622-079/080 “A Multicenter Study Evaluating the Efficacy and Safety of Botox Purified Neurotoxin complex as Headache Prophylaxis In Migraine Patients with 15 or More headache Days per 4-Week Period in a 24 week, Double-Blind, Randomized, Placebo Controlled, Parallel-Group Phase Followed by a 32 Week Open-Label Phase.” Sub-Investigator 2006

TRX103632/635 “A Randomized, Double-Blind, Multi-Center, Placebo Controlled, Cross-Over Study to Determine the Consistency of Response for TREXIMA (Sumatriptan 85mg/Naproxen Sodium 500mg) in the Acute Treatment of Multiple Migraine Attacks.” Sub-Investigator 2006

TRX106573 “A Randomized, Double-Blind, Multi-Center, Placebo-Controlled, Cross-Over Study of Trexima® in Migraine Subjects Who Report Poor Response or Intolerance to Relpax®.” Sub-Investigator, 2006

NL-2006-001 “A Phase III Randomized, Double-Blind, Parallel Group, Sham-Controlled Study Evaluating the Efficacy and Safety of Non-Invasive, Non-Repetitive Transcranial TMS Stimulation (TMS) for the Acute Preemptive Treatment of the Aura Phase of Migraine Headache.” Sub-Investigator, 2007

TON/03/07-CLIN “A Multi-Centre, Parallel Group, Double-Blind, Placebo Controlled, Dose Ranging Study of the Efficacy and Tolerability of Tonabersat in the Prophylaxis of Migraine Headache and Open Label Extension.” Sub-Investigator, 2007

BTX0805 “Safety and Efficacy of Botulinum Neurotoxin Type A in the Treatment of Forward Head Posture with Associated Chronic Tension Type Headache using a Novel Fixed site Injection Paradigm.” Sub-investigator, 2009

NXN-188-203 “A Phase 2 Study of the Safety and Effectiveness of a Single Oral Dose of NXN 188 for the Treatment of Moderate to Severe Migraine Headache with Aura.” Sub-Investigator, 2009

NXN-188-204 “A Phase 2 Study of the Safety and Effectiveness of a Single Oral Dose of NXN 188 for the Treatment of Moderate to Severe Migraine Headache without Aura” – 2009

0462-082-00 “ A Worldwide, Randomized, Double Blind, Placebo-Controlled, Parallel Group Clinical Trial to Evaluate the Safety and Efficacy of Rizatriptan for the Acute Treatment of Migraine in Children and Adolescents” - 2010

COMPEL An open-label, multicenter study of the long-term efficacy, safety and tolerability of BOTOX for the prophylaxis of headaches in adult patients with chronic migraine. 2012

RESEARCH ACTIVITIES CONTINUED

Multiple Sclerosis

9006- (TEVA) "A Multi-Center, Randomized, Double-Blind, Parallel Group Study to Evaluate the Efficacy, Tolerability, and Safety of 40mg of Copaxone in the Treatment of Relapsing-Remitting Multiple Sclerosis Patients." Sub-Investigator, 2004

A 24-month double-blind, randomized, multicenter, placebo-controlled, parallel-group study comparing the efficacy and safety of 0.5 mg and 1.25 mg fingolimod (FTY720) administered orally once daily versus placebo in patients with relapsing-remitting multiple sclerosis with optional extension phase Protocol No.: CFTY720D2309

Extension to CFTY720D2309 (A 24-month double-blind, randomized, multicenter, placebo-controlled, parallel-group study comparing the efficacy and safety of 0.5mg and 1.25mg fingolimod (FTY720) administered orally once daily versus placebo in patients with relapsing-remitting multiple sclerosis, 2006

28821 "A Phase III, Randomized, Double-Blind, Placebo-Controlled, Multi-Center Clinical Trial of Oral Cladribine in Subjects with a First Clinical Event at High Risk of Converting to MS." – 2006

CFTY720D2302 "A 12-Month Double-Blind, Randomized, Multi-Centre, Active-Controlled, Parallel-Group Study Comparing the Efficacy and Safety of 0.5 mg and 1.25 mg Fingolimod (FTY720) Administered Orally Once Daily Versus Interferon β -1a (Avonex[®]) Administered I.M. Once Weekly in Patients with Relapsing-Remitting Multiple Sclerosis". Principal Investigator, 2007

MPB8298-SP-03 "A Double-Blind, Placebo Controlled Multi-Center Study to Evaluate the Efficacy and Safety of MBP8298 in Subjects with Secondary Progressive Multiple Sclerosis." Sub-Investigator, 2007

ACT 10573 "A Double Blind, Placebo-Controlled, Randomized Crossover, Activity Study of Single Oral Doses of 50 mg and 400 mg Nerispiridine on Visual Function in Patients with Multiple Sclerosis." Sub-investigator, 2008

DR110566: "A 14-Week, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study to Evaluate the Efficacy, Safety, and Tolerability of Nerispiridine 50 mg, 100 mg, and 200 mg in Patients with Multiple Sclerosis." Sub-Investigator, 2009

29652 " A 12-week, Phase IIIb, Open-Label, Single-Arm, Multicenter Trial to Evaluate Ease of use of an Electronic Auto injector (RebiSmart[™]) for Self-Injection in Subjects with Relapsing Multiple Sclerosis (RMS) treated with Rebif[®] 44mcg Subcutaneously three times a week." Sub-Investigator, 2009

Nerispiridine (HP184) - Clinical Trial - ACT10573: A double-blind, placebo-controlled, randomized crossover, activity study of oral doses of 50 mg and 400 mg nerispiridine on visual function in patients with multiple sclerosis, IND # 61,494." Sub-Investigator, 2009

RESEARCH ACTIVITIES CONTINUED

Multiple Sclerosis *Continued*

H9B-MC-BCDJ (a) –Multiple Subcutaneous Doses of LY2127399, an Anti-BAFF Human Antibody, in Subjects with Relapsing-Remitting Multiple Sclerosis.” Sub-Investigator, 2009

101MS325 “A Multicenter, Randomized, Rater-Blind, Parallel-Group, Active Controlled Study to Evaluate the Benefits of Switching Therapy (Glatiramer Acetate or Interferon β 1a) to Natalizumab in Subjects with Relapsing Remitting Multiple Sclerosis.” Sub-investigator, 2010

A 6-month, Randomized, Active Comparator, Open-label, Multi- Center Study to Evaluate Patient Outcomes, Safety and Tolerability of Fingolimod 0.5 mg/day in Patients with Relapsing Forms of Multiple Sclerosis who are candidates for MS therapy change from Previous Disease Modifying Therapy (EPOC).” Sub-Investigator, 2010

EFC6058 “A multi-center double-blind parallel-group placebo-controlled study of the efficacy and safety of teriflunomide in patients with relapsing multiple sclerosis who are treated with interferon-beta.” Sub-Investigator, 2010

RebiDose Human Factors. A three-arm multicenter trial to preform human factors testing of the investigational RebiDose ready to use single use auto injector device including simulated injections in subjects with relapsing multiple sclerosis (RMS), caregivers, and nurses.” Sub-Investigator, 2011

RebiSmart Human Factors, A three-arm, multicenter trial to perform human factors testing of the investigational RebiSmart electronic auto-injector device including simulated injections in subjects with relapsing multiple sclerosis (RMS), caregivers, and nurses.” Sub-Investigator, 2012

FTY Prefer A 12-month, Prospective, Randomized, active-controlled, open label study to evaluate the patient retention of Fingolimod vs. approved first-line disease modifying therapies in adults who are in early stages of treatment for Relapsing Remitting multiple sclerosis.” Sub-Investigator, 2012

Novartis Assess FTY (2312): Fingolimod vs. Glatiramer Acetate A 12-month, randomized, rater and dose-blinded study to compare the efficacy and safety of fingolimod 0.25mg and 0.5mg administered orally once daily with glatiramer acetate 20mg administered subcutaneously once daily in patients with relapsing-remitting multiple sclerosis.” Sub-investigator, 2012

CFTY20D2399: “A Single arm, open-label, multi-center study evaluating the long-term safety and toleratbility of 0.5mg fingolimod (FTY720) administered orally once daily in patients with relapsing forms of multiple sclerosis.” Sub-Investigator, 2013

CBAF312A2304:”A multicenter, randomized, double-blind, parallel-group, placebo-controlled variable treatment duration study evaluating the efficacy and safety of Siponimod (BAF312) in patients with secondary progressive multiple sclerosis.” Sub-Investigator 2014

Biogen Idec 109MS413A multicenter, open-label phase IV study to evaluate whether a Medication Event Monitoring System (MEMS®) can improve adherence to Tecfidera® (delayed-release dimethyl fumarate) treatment in multiple sclerosis patients Sub-investigator 2015

RESEARCH ACTIVITIES CONTINUED

Parkinson's Disease

RP 54274X-321 "A phase III multicenter, double blind, parallel-group placebo controlled study of the effect of Riluzole 50 mg BID or 100 mg BID on the progression of Parkinson's Disease in patients treated with L-Dopa or Dopamine Agonist." Sub-Investigator, 1999-2001

666E-CNS-0075-021 "A Phase III, Double-Blind, Placebo-Controlled, Randomized Study Comparing the Efficacy, Safety, and Tolerability of Sumanitrole Versus Placebo or Ropinirole in Patients with Early Parkinson's Disease." Sub-Investigator, 2002-2003

M/2760/0011 "PNU-95666E: Open-Label, Long Term, Flexible Dose Study of Safety, Tolerability and Therapeutic Response in Patients with Parkinson's Disease." Sub-Investigator, 2003

DA2APD-0075-031 :A Phase III, Double-blind, Fixed Dose Response Study Comparing the Efficacy and Safety of Sumanitrole vs. Placebo In Patients with Early Parkinson's Disease." Sub-Investigator, 2003

1198.100 NS2330 "A Fourteen-Week Placebo-Controlled Dose-Response Efficacy and Safety Study of NS 2330 in Early Parkinson's Disease Patients (Study for Proof of Concept in Early Parkinson's Disease of a Triple Reuptake Inhibitor, NS2330 / SCEPTRE)"

S308-3-003 " A Multi-Centre, Randomized, Double-Blind, Parallel-Group Placebo and Pramipexole Controlled Study to Assess Efficacy and Safety of SLV308 Monotherapy in the Treatment of Patients with Early Stage Parkinson's Disease". Sub-Investigator, 2006

S308-3-008 "An extension of SLV308, A multicenter, randomized, double-blind, parallel-group placebo and pramipexole controlled study to assess efficacy and safety of monotherapy in the treatment of patients with early stage Parkinson's disease." Sub-Investigator, 2007

Droxidopa NOH306 "A Multicenter, Double-Blind, Randomized, Parallel-Group, Placebo-Controlled Study to Assess the Clinical Effect of Droxidopa in the Treatment of Symptomatic Neurogenic Orthostatic Hypotension in Patients with Parkinson's Disease." Sub-Investigator, 2010

S187.3.002 "A Randomized, Double-Blind, Double-Dummy, Efficacy, Safety and Tolerability Study of Levodopa-Carbidopa Intestinal Gel in Levodopa-Responsive Parkinson's Subjects Receiving Optimized Treatments with Parkinson Medicinal Products, who Continue to Experience Persistent Motor Fluctuations." Sub-Investigator, 2010

S187.3.003 "Open-Label, 12-Month Safety and Efficacy Study of Levodopa – Carbidopa Intestinal Gel in Levodopa-Responsive Parkinson's Disease Subjects." Sub-Investigator, 2010

S187.3.004 "An Open-Label, 12 Month Safety and Efficacy Study of Levodopa-Carbidopa Intestinal Gel in Levodopa-Responsive Subjects with Advanced Parkinson's Disease and Severe Motor-Fluctuations Despite Optimized Treatment with Available Parkinson's Disease Medications." Sub-Investigator, 2010

RESEARCH ACTIVITIES CONTINUED

Parkinson's Disease Continued

S187.3.005 "Open-Label Continuation Treatment Study With Levodopa – Carbidopa Intestinal Gel In Subjects With Advanced Parkinson's Disease And Severe Motor-Fluctuation Who Have Exhibited A Persistent And Positive Effect To Treatment in Previous Studies." Sub-Investigator, 2010

M12-920 "An Open-Label, Two Part, Multi-Center Study to Assess the Safety and Efficacy of Levodopa-Carbidopa Intestinal Gel (LCIG) for the Treatment of Non-Motor Symptoms in Subjects with Advanced Parkinson's Disease." Sub-Investigator, 2013

Stroke

NF 198,003 "A double-blind, placebo-controlled, dose-ranging study of Nefiracetam in patients with Post-Stroke Depression." Sub-Investigator, 2001

CHARISMA EFC4505 "Clopidogrel for High Atherothrombotic Risk and Ischemic Stabilization, Management and Avoidance (CHARISMA)." Sub-Investigator, 2002

981-124 "A Double-Blind, Randomized, Placebo-Controlled Study of Atorvastatin as Prevention of Cerebrovascular Events in Patients With a Previous Transient Ischemic Attack (TIA) or Stroke" Present

Botox vs. Zanaflex "Placebo Controlled Trial of BOTOX® versus Zanaflex® for the Treatment of Subjects with Post- Stroke Upper limb Spasticity." Sub-Investigator, March 2003

EFC7331 MATCH – "Management of Atherthrombosis with Clopidogrel in High-Risk Patients with Recent Transient Ischemic Attack or Ischemic Stroke: A Randomized, Double-Blind Study, with 18 months of Follow-up." Principal Investigator, 2001-2002

YM872 " A Randomized, Double-Blind, Placebo-Controlled, Sequential Dose-Escalation Study to Evaluate the Safety of YM872 in Patients with Acute Ischemic Stroke." 1998

100282 Bayer Study "A Randomized, Double-Blind, Placebo-Controlled Trial to Evaluate the Efficacy, Safety, Tolerability, and Pharmacokinetic/Pharmacodynamic Effects of a Targeted Exposure of Intravenous Repinotan in Patients with Acute Ischemic Stroke." Sub-Investigator, 2003

9.159 "PRoFESS – Prevention Regimen for Effectively avoiding Second Strokes: A double-blind, active and placebo controlled study of Aggrenox vs. clopidogrel, with and without Micardis." Sub Investigator, 2004

SA-NXY-0007: "A Double-Blind, Randomized, Placebo Controlled, Parallel Group, Multicenter, Phase IIb/III Study to Assess the Efficacy and Safety of Intravenous NXY-059 in Acute Ischemic Stroke." Sub Investigator, 2004

Ptcl-01213 Entitled: "A Randomized, Double-blind, Placebo-controlled, Multicenter, Parallel study to evaluate the effects of DP-b99 on Neurologic Function and Disability in subjects with Acute Ischemic Hemispheric Stroke." Sub-Investigator, 2004

RESEARCH ACTIVITIES CONTINUED

Stroke Continued

F7ICH-1641 A Randomized, Double-Blind, Placebo Controlled, Multi-Centre, Parallel Groups Confirmatory Efficacy and Safety Trial of Activated Recombinant Factor VII (NovoSeven®/Niasstase® in Acute Intracerebral Hemorrhage.” Sub-Investigator, 2005

NTI-ASP-0502 “A Randomized, Double-Blind, Placebo Controlled Study of Ancrod (Viprinex) in Subjects Beginning Treatment within 6 Hours of the Onset of Acute Ischemic Stroke.” Sub-Investigator, 2006

CD-0125 “Safety and Efficacy of NeuroFlo Technology in Ischemic Stroke.” Sub Investigator, 2006

NTS-INT06-007 “A Double-Blind, Randomized, Controlled, Parallel Group, Multi-Centre, Pivotal Study to Assess the Safety and Effectiveness of the Treatment of Acute Ischemic Stroke with the NeuroThera® Laser System within 24 Hours from Stroke Onset.” Sub-Investigator, 2007

A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of SCH530348 in Addition to Standard of Care in Subjects With a History of Atherosclerotic Disease: Thrombin Receptor Antagonist in Secondary Prevention of Atherothrombotic Ischemic Events (TRA 2°P - TIMI 50) P04737-3694.” Sub-Investigator, 2007

P04737 “A Multicenter, Randomized, Double-Blind, Placebo Controlled Study to Evaluate the Safety and Efficacy of SCH 530348 in Addition to Standard of Care in Subjects with a history of Atherosclerotic Disease: Thrombin Receptor Antagonist in Secondary Prevention of Atherothrombotic Ischemic Events.” Sub-Investigator, 2008

01373 “A double blind, randomized, placebo-controlled, parallel group, multicenter Phase 3 pivotal study to assess the safety and efficacy of 1mg/kg/day intravenous DP-b99 over 4 consecutive days versus placebo when initiated within nine hours of acute ischemic stroke onset.” Sub–Investigator, 2010

NTS-INT08-009 “ A double-blind, randomized, sham-controlled, parallel group, multicenter, pivotal study to assess the safety and efficacy of transcranial laser therapy with the NeuroThera® Laser System for the treatment of acute ischemic stroke within 24 hours of stroke onset.” Sub–Investigator, 2010

Other

VA Cooperative Study 485 – National Health Survey of Gulf War Era Veterans and Their Families Clinical investigator for the neurologic aspect of the study (i.e. NCS and neurologic exams), 1997-2000

E2020-A001-209 “A 12-week, multicenter, randomized, double-blind, placebo-controlled, preliminary study to determine the efficacy and safety of Donepezil Hydrochloride (E2020) in patients with persistent mild to moderate memory impairment resulting from a single Closed Head Injury.” Sub-Investigator, 2001

RESEARCH ACTIVITIES CONTINUED

Other Continued

GAL-INT-11 “A randomized double blind placebo-controlled trial to evaluate the efficacy and safety of galantamine in subjects with mild cognitive impairment (MCI) clinically at risk for development of clinically probably Alzheimer’s Disease.” Sub-Investigator, 2001

A1481066 – “A Multi-Center, Double-Blind, Placebo-Controlled Flexible Dose Study to Evaluate the Efficacy and Safety of Viagra ® in Women Who Have Female Sexual Arousal Disorder Resulting From a Traumatic Spinal Cord Injury.” Sub-Investigator, 2003

GAL-COG-3002- “An Analysis of Mortality in Subjects who participated in Three Studies of Galantamine in Mild Cognitive Impairment.” Sub-Investigator, 2004

101468/205: A 12-Week, Double-Blind, Placebo Controlled, Parallel Group Study to Assess the Efficacy and Safety of Ropinirole XR (Extended Release) in Patients with Restless Legs Syndrome.” Sub-Investigator, 2005

E2020-A001-412: A One Year, Multicenter, Randomized, Double-Blind, Placebo-Controlled Evaluation of the Efficacy and Safety of Donepezil Hydrochloride (E2020) in Subjects with Mild Cognitive Impairment.” Sub-Investigator, 2005

“A Randomized, Double-blind, Placebo Controlled Multi-Center Study to Evaluate the Safety and Efficacy of Botulinum Neurotoxin Type A in the Treatment of Forward Head Posture with Associated Chronic Tension Type Headache using a Novel Fixed site Injection Paradigm” Sub-Investigator, 2009

Alexion ECU-NMO-301: A Randomized, Double-Blind, Placebo-Controlled, Multi-Center Trial to Evaluate the Safety and Efficacy of Eculizumab in Patients with Relapsing Neuromyelitis Optica (NMO) Sub-Investigator 2014

Alexion ECU-NMO-302: “ A Phase III, Open-Label, Extension Trial of ECU-NMO-301 to Evaluate the Safety and Efficacy of Eculizumab in Patients with Relapsing Neuromyelitis Optica (NMO)” Sub-Investigator 2014