

BEHAVIORAL NEUROLOGY AND NEUROPSYCHIATRY FELLOWSHIP
Baylor College of Medicine, Department of Neurology
Updated 11/24/06

Program Director

Paul E. Schulz, MD
Associate Professor of Neurology
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Director, Cognitive and Behavioral Neurology Fellowship
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Positions Available:

7/1/07 and 7/1/08: 1 position each

Fellowship Description

Accreditation:

1. Our Program is accredited by the United Council for Neurologic Subspecialties (UCNS) as “Behavioral Neurology and Neuropsychiatry”. It is one of 11 accredited Programs. The UCNS URL is <http://www.ucns.org/>. Accredited programs are at: http://www.ucns.org/apps/directory/index.cfm?event=public.program.view&program_id=3.
2. Our program is also licensed by the Texas State Board of Medical Examiners as “Behavioral Neurology”.

Our faculty and associates include the following:

1. Paul Schulz MD- Behavioral Neurologist and Fellowship Director
2. Gene Lai MD, PhD- Neurologist subspecializing in movement disorders and dementia

3. Rachele Doody MD PhD- Neurologist subspecializing in Alzheimer's disease; Director of our ADRC
4. Susan Rountree- Neurologist subspecializing in Alzheimer's disease
5. Michelle York PhD- Neuropsychologist
6. Major Bradshaw PhD- Neuropsychologist
7. Florence Kim MD- Psychiatrist subspecializing in neuropsychiatry
8. Mary Keenan PhD- Psychologist
9. Postdocs in neuropsychology
10. Behavioral Neurology Fellows
11. Neurology residents
12. Interaction with multiple other faculty who are involved in seeing patients and doing clinical research, including faculty in gero-psychiatry, psychiatry, etc.
13. Multiple basic science faculty are in the department with whom the Fellows interact. The Fellow's offices are also located in the basic science laboratory of Dr. Paul Schulz. This affords direct interactions with neuroscience graduate students and postdocs and allows Fellows to learn about the cellular mechanisms underlying cognitive function.

Patients:

1. We have very active inpatient and outpatient services in private and public hospital settings.
2. The inpatients are often psychiatry, medical, or surgical patients who have neuropsychiatric symptoms, like psychosis, hallucinations, delusions, illusions, altered thought content, paranoia, encephalopathy, etc. They are seen at The Methodist Hospital, St. Luke's Episcopal Hospital, the Ben Taub County Hospital, and the Michael DeBakey VAMC.
3. The outpatients are private patients seen at Baylor, Harris County residents at Ben Taub, and veterans seen at the VAMC.

Sites:

1. Baylor College of Medicine outpatient clinics
2. The Methodist Hospital for inpatients
3. St. Luke's Episcopal Hospital for inpatients
4. The Michael E. DeBakey VA Medical Center (MEDVAMC) for outpatients and inpatients
5. The Ben Taub hospital for outpatients and inpatients

Didactics:

1. We have a 2 hour weekly "Cognitive and Behavioral Neurology Case Conference" in which 10-20 persons meet to discuss any interesting patients they have seen during the week. The conference is attended by behavioral neurologists, neuropsychiatrists, neuropsychologists, neuropsychology postdocs, neuroscience graduate students, study coordinators, and Behavioral Neurology Fellows.
2. Fellows work with faculty 1-on-1 in weekly private clinics and in weekly public hospital outpatient clinics.
3. We have daily conferences to attend in general neurology and psychiatry. We have annual departmental conferences, and national and international conferences that Fellows attend.
4. We participate in a Dementia Interest Group at the MEDVAMC. With this group, we are involved in about 4 clinical research projects. Fellows can also attend our Alzheimer's Disease Research Center's monthly meeting.
5. Fellows participate in our weekly Research Meeting in which we discuss ongoing clinical and basic research projects. In this meeting, basic scientists listen to and contribute ideas to

the clinical researcher's projects, and the Behavioral Neurology Fellows hear about and contribute ideas to the basic scientist's projects. As a result, fellows learn about the cellular basis of cognitive and behavioral function.

Research

1. Research is highly emphasized with regard to the academic development of Fellows. They have protected time for this, which is about 50% of their time.
2. Research development includes weekly research meetings at which Fellows present new developments in their ongoing projects.
3. There are many ongoing projects that Fellows can join.
4. Additionally, Fellows are expected under guidance to initiate their own projects in order to gain experience in all aspects of research.
5. In addition to clinical research, research development includes exposure to basic science and basic scientists who study the cellular mechanisms underlying cognition.
6. Research is closely supervised and mentored to achieve maximum success.

Past Fellows

1. Past Fellows include some physicians in academics and some in private practice.
2. For details about past Fellows, please contact the Program Director.
3. Current Fellows are Drs. Schmolck, Hickey, and Kass.
4. Past Fellows include Drs. Goldman, Coerver, Kataki, McConnell, and Kim.

List of Behavioral Neurology & Neuropsychiatry Meetings Attended by Fellows

Dr. Schmolck attended the Society for Neuroscience Meeting in 2003, 2004, and 2005. In 2003, she presented the following: "H Schmolck, A Verma, I Goldsmith, MK York, H Levin, EM Mizrahi. Semantic memory in patients after right or left anterior temporal lobectomy. 33rd Annual Meeting of the Society for Neuroscience, New Orleans, November 8th – 12th, 2003.

In 2004, she presented: H Schmolck. The formation of real life memories: Differing predictors for facts versus events. Contribution at the 34th Annual Meeting of the Society for Neuroscience, San Diego, October 23rd to 27th, 2004."

Dr. Schmolck submitted an abstract for the November, 2005 meeting entitled "Semantic Memory is more impaired in dominant than nondominant Temporal Lobe Epilepsy" with the authors of H Schmolck, A Verma, I Goldsmith, PJ Foreman, D Yoskor, MK York, H Levin, and P Schulz.

Dr. Schmolck attended an FTD meeting in Philadelphia in July of 2004 where she presented a poster on what the role of the lateral temporal cortex is in memory. Her poster was: "H Schmolck, P Schulz. Semantic Memory – overlooked and undertested? - What can we do at bedside? Contribution at the Satellite Meeting Frontotemporal Dementia, 9th International Conference on Alzheimer's Disease and Related Disorders, Philadelphia, July 15th – 16th 2004".

She also attended the American Epilepsy Society Meeting in 2004 where she presented data on semantic memory testing before and after epilepsy surgery. Her talk was entitled "Patterns of semantic memory deficit in pre- and post surgical TLE patients, in comparison with bilateral temporal lesions and semantic dementia". It was to the Special Interest Group in Neuropsychology at the 58th Annual Meeting of the American Epilepsy Society, New Orleans December 3rd- 7th 2004. She subsequently received a one year grant for this Project from the AES.

She submitted an abstract for the November 2005 meeting of the AES, which was accepted. She presented "Impaired Semantic Memory in Temporal Lobe Epilepsy- what is the role of Anterior Temporal Lobectomy?" The authors were H Schmolck, A Verma, I Goldsmith, D Yoshor, MK York, H Levin, PJ Foreman, EM Mizrahi, and P Schulz.

Dr. Schmolck presented her project "Semantic Memory Function in Patients before and after Epilepsy Surgery" to our Research Day Symposium at the Michael E. DeBakey Veterans Administration Medical Center on 3/29/05. The Authors were H Schmolck, J Foreman, A Verma, I Goldsmith, MK York, H Levin, D Yoshor, EM Mizrahi, and P Schulz.

Dr. Schmolck presented at the Baylor College of Medicine Annual Rush Record Neuroscience Retreat in March of 2005. Her poster was entitled "The Lateral Temporal Lobes- what do they do? A comparison in multiple disease states".

Dr. Schmolck attended the Baylor College of Medicine's Annual course called "Current Neurology" in 2003, 2004, and 2005.

She also attends the Baylor College of Medicine Annual course called "Epilepsy Currents".

She was unable to attend the First FTD in ALS Meeting in 5/05 because she just gave birth to a baby boy. But Dr. Schulz presented her poster entitled "Is the Amygdala affected in Amyotrophic Lateral Sclerosis?" The authors were H Schmolck, D Mosnik, MW Wheaton, SH Appel, GM Ringholz, and PE Schulz.

She will be attending the FTD meeting in San Francisco in Sept of 2006.

Dr. Katherine Coerver presented a poster at the Frontotemporal Dementia meeting in Philadelphia in July of 2004. Her project involves studying a large family with frontotemporal dementia that predominantly affects women. She is looking for the gene producing FTD in that family. Her poster was entitled "Characterization of a Large Kindred with a Right Frontal Temporal Dementia the Affects Males and Females Differently". The authors were K Coerver, D Mosnik, P McMurray, P Patel, P Schulz, and GM Ringholz.

Dr. Coerver presented her work at the Baylor College of Medicine Department of Neurology Grand Rounds in August of 2004. Her talk was entitled "Characterization of a unique Familial Right Frontotemporal Dementia".

After working with us for 5 months, Dr. Tatiana Goldman presented a preliminary analysis of her project "Prevalence and Subtypes of Dementia in a Veterans Population and Accuracy of Diagnosis in the VA Healthcare System" to our Research Day Symposium at our Michael E. DeBakey Veterans Administration Medical Center (MEDVAMC) on 3/29/05.

Dr. Goldman also presented her work at our MEDVAMC Dementia Research Interest Group meeting on 3/2/05. It was entitled "Prevalence and Subtypes of Dementia in a VA Population and Accuracy of Diagnosis". The authors were T Goldman, D Mosnik, M Kunik, L Snow, U Brown, and P Schulz.

Dr. Kris McConnell attended the AAN meeting in 2003 and presented her abstract on the relationship between cognitive impairment in ALS and the site of motor onset of ALS (limb versus bulbar).

Dr. Joseph Kass attended a 3 day Grant Writing Workshop in January of 2006.

List of Research Projects by Fellows

Dr. Heike Schmolck has worked on several projects. One involves assessing semantic memory in patients before and after unilateral anterior temporal lobectomy. Another involves the development of a bedside test of semantic memory. Another involves testing frontal lobe function in patients with ALS. Another involves social cognition in patients with ALS. She is also the PI on a prospective study of "Flashbulb Memories" for the Columbia Shuttle Disaster. She has studied the cognitive prognosis of patients with European Tick Born encephalitis, and is evaluating the cognitive prognosis of patients in Houston with West Nile Encephalitis.

Dr. Tatiana Goldman is a current Fellow who has been working on a project that involves assessing the effect of working up dementias to varying extents on whether patients with dementia are given optimal pharmacologic treatment. Specifically, she has been determining the frequency with which dementia is diagnosed in patients with cognitive symptoms, whether the diagnosis of dementia is recorded in the electronic medical record (EMR), whether a specific diagnosis of dementia is made and recorded in the EMR, whether the work-up of dementia includes all the items suggested by the American Academy of Neurology Practice Parameters, and whether making the diagnosis of a specific type of dementia results in the best pharmacologic treatment being given.

Dr. Florence Kim trained in Psychiatry before becoming a Fellow with us. She is working on a project in which she assesses frontal lobe dysfunction in patients with manic-depressive illness. She has also studied the effects of omega-3 fatty acid on depression, and then its effects on PKC activity in vitro to understand more about how it may be acting clinically. She has also studied the effects of medical illnesses on the development of psychiatric symptoms. She has studied the use of atypical antipsychotics in the setting of cancer. Finally, she began working on New approaches to the understanding and treatment of patients with depression: focus on special populations and non-responsive depression while a fellow, and has continued that project as a faculty member.

While a fellow with us, Dr. Kris McConnell, now Williams, performed a study of the relationship between cognitive function in ALS patients and the site of onset for their ALS: bulbar or limb onset.

Dr. Katherine Coerver worked on characterizing the neuropsychologic features of the frontotemporal dementia (FTD) found in a family with FTD. That ongoing project also involves searching for the gene underlying their FTD. There are enough affected and unaffected family members that ascertaining their genetic mutations is realistic.

Dr. Joseph Kass is working on a neuro-ethics project in which he is testing whether patients with frontal lobe dysfunction related to ALS are more vulnerable to persuasion in the informed consent process. He is also working on a longitudinal study of cognitive function in patients with neuro-infections.

List of Publications by Fellows

H Schmolck, EA Kensinger, S Corkin, LR Squire (2002). Semantic knowledge in patient H.M. and other patients with bilateral medial and lateral temporal lobe lesions. Hippocampus 12:520-533.

K Schmidtke, H Manner, R Kaufmann, **H Schmolck** (2002) Cognitive procedural learning in patients with fronto-striatal lesions. Learning and Memory 9: 419-429

E Maritz, **H Schmolck**, R Korinthenberg (2004) Neurologische Spaetfolgen nach FSME Erkrankung im Kindelsalter (Neurological Sequelae after Tick Born Encephalitis in children) Aerztliche Praxis Paediatric 3/Mai-Juni: 41-42

H Schmolck, E Maritz, I Kletzin, R Korinthenberg (in press) Neurological, neuropsychological and EEG findings after European Tick Borne Encephalitis in Children. Journal of Child Neurology.

H Schmolck (2003) Radiation necrosis in the temporal pole and lateral temporal cortex, presenting with a deficit of semantic memory. Baylor Webcase #73. <http://www.bcm.tmc.edu/neurol/challeng/pat73/summary.html>

M Katakai, **H Schmolck**, P Schulz (2005) Behavioral Neurology. In: LA Rolak, Ed: Neurology Secrets, Fourth Edition. Elsevier Mosby, Philadelphia PA pp. 233-247

H Schmolck (2003) Radiation necrosis in the temporal pole and lateral temporal cortex, presenting with a deficit of semantic memory. Baylor Webcase #73. <http://www.bcm.tmc.edu/neurol/challeng/pat73/summary.html>

H Schmolck. Large thalamic mass due to Neuro-Behcet's disease. Neurology. 2005 Aug 9; 65(3): 436.

Schmolck H, Coerver K, Ringholz G, and Schulz PE. Characterization of a large family with female predominant frontotemporal dementia. In preparation.

M Katakai, **H Schmolck**, and P Schulz. Cognitive Prognosis after West Nile Encephalitis. In preparation.

K McConnell and G Ringholz. Lack of association between bulbar onset to ALS and cognitive impairment. Abstract presented at the AAN meeting, 2003.

MJ Fisch and **HF Kim**. Use of atypical antipsychotic agents for symptom control in patients with advanced cancer. *Journal of Supportive Oncology*, 2004; 2(5):1-6.

LB Marangell, JM Martinez, HA Zboyan, B Kertz, **HF Kim**, LJ Puryear. A double-blind, placebo-controlled study of the omega-3 fatty acid docosahexaenoic acid (DHA) in the treatment of major depression. *American Journal of Psychiatry*, 2003 May;160(5):996-8.

SC Yudofsky and **HF Kim**, eds. *Neuropsychiatric Assessment*. Review of Psychiatry Series, Volume 23, American Psychiatric Press Inc., in press, 2004.

HF Kim, LB Marangell, SC Yudofsky. Psychopharmacology and ECT treatment of suicidal patients. In *Textbook of Suicide Management and Assessment*, American Psychiatric Press Inc., RE Hales and R Simons, eds., in press.

HF Kim, SC Yudofsky, RE Hales, G Tucker. Neuropsychiatric aspects of seizure disorders. In *Textbook of Neuropsychiatry and Behavioral Neurosciences*, 5th edition, American Psychiatric Press Inc., SC Yudofsky and RE Hales, eds., in press.

HF Kim and SC Yudofsky. Neuropsychiatric lab testing. In *Neuropsychiatric Assessment*. Review of Psychiatry Series, Volume 23, American Psychiatric Press Inc., 2004.

Goals and Objectives of the Fellowship

A. Goals of the Fellowship

1. To teach Fellows the clinical skills of performing a thorough, efficient, and reliable cognitive and behavioral history and physical examination.
2. To enhance Fellow's understanding of structural and functional neuroanatomy as they relate to behavior and cognition.
3. To achieve competence in the evaluation and diagnosis of cognitive and behavioral disorders.
4. To develop an understanding of the indications for diagnostic studies and their interpretation relevant to cognitive neurology. This includes learning which ancillary tests should be used at which times.
5. To train academic leaders in the fields of cognitive neurology and stimulate interest in clinical research in this field.
6. To provide opportunities for scholarly activities, which includes presentation and publication of basic and/or clinical research.
7. To promote an understanding of the functions of an interdisciplinary team in the care and management of patients with neurocognitive disorders.
8. To learn to educate psychiatry and neurology residents and medical students about the clinical sequelae of neurocognitive and neurobehavioral disorders.
9. To provide training experiences with graduated responsibility.
10. To provide training for Fellows that recognizes and utilizes the 6 Core Competencies.
11. To have Fellows meet eligibility requirements for any Fellowship Certification process that may arise in the field of cognitive and behavioral neurology.

B. Objectives of the Fellowship Program

1. Patient evaluation. Upon completion of the fellowship, the fellow will
 - Be able to perform a complete neurocognitive and neurobehavioral evaluation including neurological, psychiatric and cognitive history and examination
 - Formulate a full differential diagnosis
 - Understand which diagnostic tests would be appropriate for additional evaluation, including laboratory studies, imaging (CT, MRI, SPECT), neurophysiologic, and neuropsychological testing
 - Acquire proficiency at interpreting neuroimaging, neuropathologic, blood, and neurogenetics tests for a variety of behavioral neurologic conditions.
 - Order appropriate tests (laboratory, imaging, neurophysiology, neuropsychological testing)
 - Interpret test results and conclude a diagnosis
2. Neuropsychological Testing. Upon completion of the fellowship, the fellow will
 - Be familiar with the materials and tests used in neuropsychological evaluation, and understand role and limitations of testing in patient assessment
 - Acquire proficiency in interpreting the results of neuropsychological testing
 - Understand statistical basis of psychometrics
 - Be able to choose adequate tests for various clinical situations

3. Patient management. Upon completion of the fellowship, the fellow will
 - Be able to utilize available treatment modalities for neuro-cognitive and neuro-psychiatric disorders, including pharmacological, behavioral, and psychological treatment.
 - Be able to manage behavioral complications of the broad range of neuro-cognitive and neuro-psychiatric disorders
 - Be able to manage common medical complications of neuro-cognitive and neuro-psychiatric disorders
 - Have gained an advanced understanding of psychopharmacology and neuropsychopharmacology, with special emphasis on anticonvulsants, psychostimulants, and the interactions of psychotropic medications with other medications on the central nervous system.
 - Be able to competently advise and council caregivers

4. Knowledge Base. The fellow will
 - Gain broad knowledge in the field through extensive exposure to the core literature in neuropsychiatry, neuropsychology, and behavioral neurology. Neuroanatomy and neurochemistry of behavior will be emphasized.
 - Participate in the curriculum including rounds, conferences, supervision, didactics, and seminars.
 - Understand the cellular and systemic mechanisms underlying a wide variety of neurobehavioral disorders.

5. Research. Upon completion of the fellowship, the fellow will
 - Have developed and implemented a research project under the guidance of the Fellowship Faculty. This includes developing proficiency at planning a project, developing hypotheses, developing an appropriate experimental design, getting appropriate IRB approval, data acquisition and analysis, figure making, and manuscript preparation and submission.
 - Have participated in other research projects of the Section
 - Be able to independently develop and conduct original research projects
 - Have experience in major techniques used in neurocognitive and behavioral neurology research, including but not limited to the development of new cognitive tasks/paradigms, functional MR imaging, genetics/family studies, longitudinal and cross-sectional studies in human disease states, and drug trials
 - Be able to present results in form or oral or visual presentations, as well as research papers

C. Objectives of the Individual Fellowship Experiences

1. Weekly Behavioral Neurology Clinic located in The Methodist Hospital (Institution 1).
 - 1) To learn to take care of patients with cognitive, behavioral, and interpersonal dysfunction in a private practice setting. Fellows see new patients and then the patient is seen by a faculty member. All patients are discussed in detail.
 - 2) To learn to take cognitive-behavioral neurologic histories and doing relevant physicals.
 - 3) To learn the proper work-up for each type of cognitive-behavioral symptom.

- 4) To acquire proficiency in ordering and interpreting neuroimaging tests, including MRI, CT, SPECT scans, and PET scans.
- 5) To acquire proficiency in ordering and interpreting neuropathologic and neurogenetics tests.
- 6) To learn how to use neuropsychologic data in the work-up and management of patients with cognitive-behavioral disorders.
- 7) To learn about neuropsychologic assessment.
- 8) To learn the differential diagnosis for cognitive-behavioral symptoms.
- 9) To learn about the treatment of cognitive disorders such as dementia, behavioral disorders such as agitation or aggression, and interpersonal disorders such as disinhibition.
- 10) To understand the mechanisms underlying cognitive-behavioral disorders.
- 11) To learn about enrolling private patients in clinical studies.

2. Weekly Cognitive Disorders Clinic located at the MEDVAMC (Institution 2)

- 1) To learn to care for patients with cognitive, behavioral, and interpersonal dysfunction in a Veteran Healthcare environment. Fellows supervise the care given by residents. Both residents and fellows are supervised by faculty members, including behavioral neurologists and neuropsychologists.
- 2) To learn more about relevant history taking, physical examinations, and work-up of behavioral-neurologic symptoms by supervising residents.
- 3) To learn more about ordering and interpreting neuroimaging tests, including MRI, CT, SPECT scans, and PET scans.
- 4) To acquire proficiency in interpreting neuropathologic and neurogenetics tests.
- 5) To learn how to use neuropsychologic data in the work-up and management of patients with cognitive-behavioral disorders and to learn about neuropsychologic assessment.
- 6) To reinforce what they have learned about the differential diagnosis of cognitive-behavioral symptoms.
- 7) To reinforce what they have learned about the treatment of cognitive disorders such as dementia, behavioral disorders such as agitation or aggression, and interpersonal disorders such as disinhibition.
- 8) To learn about enrolling Veterans in clinical studies.
- 9) To learn to teach more effectively by supervising residents and students in this Clinic.

3. Clinical Research- full time 3 days per week (Institution 1 and/or 2)

- 1) To learn about formulating hypotheses to test experimentally.
- 2) To learn about experimental design.
- 3) To learn how to estimate the number of patient that are necessary to test a hypothesis.
- 4) To learn about the roles of IRBs and how to fill out applications, submit them, and renew them.
- 5) To learn how to collect data.
- 6) To learn how to critically analyze data.
- 7) To learn to make figures.
- 8) To learn to write manuscripts and submit them.
- 9) To learn to submit abstracts and present study data at scientific meetings.
- 10) To learn to critically evaluate other Fellow's projects and to offer suggestions for them.

4. Conferences and Lectures- Daily activity, Institution 1

- 1) To attend and present at a monthly Behavioral Neurology Conference, which Fellows give to Baylor Residents, Students, and other Fellows. For this conference, Fellows write and give talks on a variety of cognitive-behavioral neurologic topics.
- 2) To attend our Departmental weekly Grand Rounds where many clinical and laboratory investigations are presented. The Program Director for Behavioral Neurology chooses speakers for this conference and selects a variety of topics from the cellular to the systems level that are appropriate for General Neurology and Behavioral Neurology.
- 3) To attend our annual 3 day Neurology Update course to learn about recent advances in cognitive and behavioral neurology.
- 4) To attend our one day Annual Neuropathology Conference and to attend our twice monthly neuropathologic conferences to learn about the pathologic basis of disorders being seen in Behavioral Neurology.
- 5) To attend our Tuesday noon Neurology educational conference in which residents and fellows learn about neuroanatomy, clinical and cellular neurophysiology, neuropathology, neuroradiology, and specific disease processes.
- 6) To attend our Thursday noon Journal Club to learn more about how to critically evaluate the literature.
- 7) To attend our Friday noon M&M conferences and stroke conferences to learn more about the behavioral issues that arise with various disease processes.
- 8) To attend our Monthly Alzheimer's Disease Research Center (ADRC) meetings. This is an opportunity for Fellows to hear about projects in which our ADRC Faculty and staff are involved. Fellows can get involved in these studies. Fellows also present brief updates on their own projects and get additional feedback on them. Fellows can also use the ADRC database for their projects.
- 9) To attend and participate in our monthly Veterans Hospital Dementia Interest Group meetings. Fellows attend and hear about research projects in which other investigators are involved. Fellows also present their own projects once or twice per year: it is an opportunity for Fellows to learn more about clinical investigations and to receive input from other clinicians experienced at clinical research in the field of dementia.
- 10) To attend and present patients every week at our Behavioral and Cognitive Neurology Case Conference. This conference is supervised by the Faculty, who also present cases. Behavioral neurologists, neuropsychologists, neuropsychiatrists, neuroscience graduate students, and clinical and basic science postdocs attend this conference yielding a multi-disciplinary approach to the discussion of each patient. Fellows present cases weekly. This conference also serves as a venue in which Fellows learn neuroanatomy, the work up of various disorders, and the treatment of those disorders.

Program Faculty

Faculty

Our Faculty include the following for whom more details are provided subsequently:

1. Paul E. Schulz MD, Program Director, Associate Professor of Neurology, Director of the Cognitive Disorders Clinics associated with BCM. Clinical Investigations of FTD, FTD in ALS, Frontal dysfunction in managism, Incidence and work up of dementia, Risk factors for dementia. Laboratory investigations of cellular mechanisms underlying cognitive and behavioral function and how they run awry in various disorders, including Alzheimer's, FTD, and myotonic dystrophy.
2. Rachele Doody MD, PhD, Professor of Neurologist, Director Alzheimer's Disease Research Center, BCM.
3. Gene Lai MD PhD, Professor of Neurology, Director Parkinson's Disease Research and Education Center (PADRECC) at the MEDVAMC. Investigations of dementia, depression, psychosis in dementia, Lewy body disease and Parkinson's disease, and ALS.
4. Susan Rountree MD, Assistant Professor of Neurology, Alzheimer's Center, BCM.
5. Florence Kim MD, Neuropsychiatrist, Assistant Professor of Psychiatry, BCM. Clinical investigations of Frontal lobe Impairment in Bipolar Disorder.
6. Michelle York PhD, Neuropsychologist, Assistant Professor of Neurology and Psychiatry, Comprehensive Epilepsy Center and Parkinson's Disease Center (PADRECC), Co-Investigator in the Department of Veteran's Affairs Medical Center Mental Illness Research, Education, and Clinical Center (MIRECC), BCM.
7. Major Bradshaw PhD, Neuropsychologist, Assistant Professor of Neurology.

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Paul E. Schulz, M.D.		POSITION TITLE	
eRA COMMONS USER NAME		Associate Professor of Neurology and Neuroscience	
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
Boston University (Combined BA-MD Degree Program- BA awarded at the end of Medical School)	BA	1984	Premed and Psychology
Boston University School of Medicine	MD	1984	M.D.

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

I. PROFESSIONAL TRAINING

- 1984-1985 Intern, Internal Medicine; Boston Veterans Administration Hospital, Boston, MA
- 1985-1988 Resident, Neurology; Baylor College of Medicine, Houston, Texas
- 1988-1993 Fellowship, The Cellular Neurophysiology of Cognitive Function; Baylor College of Medicine

II. PROFESSIONAL POSITIONS

- 2006- Associate Professor, Departments of Neurology (tenure) and Neuroscience, Baylor College of Medicine
- 1993-2006 Assistant Professor, Department of Neurology; Baylor College of Medicine
- 1994-2006 Assistant Professor, Division of Neuroscience; Baylor College of Medicine
- 2005- Director, Neurology Fellowship Programs, Baylor College of Medicine
- 2004- Director, Behavioral Neurology Fellowship, Baylor College of Medicine
- 2003- Director, Cognitive Disorders Clinics, Baylor College of Medicine
- 1999- Director, Neurology Residency Program, Baylor College of Medicine
- 1999- Director, Neurology Grand Rounds, CME Program, Baylor College of Medicine
- 1994-2000 Director, Neurology Student Program, Baylor College of Medicine

III. HONORS & AWARDS

- 2004 "Favorite Professor in Neurology" from the 2004 Graduating Baylor Medical Student Class
- 2003 "John P. McGovern Outstanding Teacher Award for the Clinical Sciences"
- 2003 "Outstanding Attending Award" from the 2003 Graduating Baylor Medical Student Class
- 2003 "Teacher Recognition Award" from the A.B. Baker Section on Neurologic Education of the American Academy of Neurology
- 2003 Nomination for the "Robertson Teaching Award"
- 2003, 2002, 2001, 2000, 1998, 1997 "Best Module" Award for our Nervous System Course at end of Basic Sciences by Sophomore Baylor Medical Students
- 2001, 00 "Outstanding Teacher Award" from Baylor Students finishing their Basic Science Studies
- 1998 "Outstanding Faculty Award" from the 1998 Graduating Senior Baylor Medical Students
- 1993 NIH FIRST Award

- 1990 "Outstanding in Your Field" presented by The Texas Consortium of Geriatric Education Centers
- 1988 NIH Physician-Scientist Award
- 1988 National Research Service Award
- 1988 "Outstanding Resident in Neurology"
- 1984 "Henry Bakst Award in Community Medicine"
- 1984 Magna Cum Laude Graduate from Boston University

IV. RESEARCH FUNDING

- 8/1/06-7/31/07 DeGeorge Foundation grant for "Dementia Research". PI. The goal of these studies is to investigate the epidemiology and therapeutics of dementia.
- 8/9/05-8/8/06 Teva Neuroscience Educational Grant.
- 1/10/05-10/1/05 Hamill Foundation Grant for "Investigating a Genetic Basis for Frontotemporal Dementia". PI. Grant.
- 7/1/05-10/30/06 American Epilepsy Society Grant to Dr. Schmolck, my fellow.
- 7/1/05-6/30/07 American Heart Association Grant to Dr. Fan, my postdoc.
- 5/1/01-4/30/02 Senior Scientist on NIH RO1 "Interactions of Myotonic Dystrophy Protein Kinase"
- 10/1/99-5/1/01 NIH NIA Pilot project entitled "Changes in synaptic plasticity in the DMPK knockout mouse with aging"
- 7/1/99-6/30/04 Neuroscience Program Training Grant participant
- 6/1/94-5/31/99 NIH NINDS FIRST Award for Components of Hippocampal Synaptic Plasticity
- 6/1/95-5/31/96 Alzheimer's Disease Research Center Pilot Project Amyloid Effects on Hippocampal Calcium Currents
- 12/1/88-11/30/93 NIH NIA Physician-Scientist Award for: Cholinergic Modulation of Hippocampal Mossy Fiber Synapse Long-Term Potentiation.
- 6/1/90-5/30/91 Alzheimer's Disease Research Center Pilot Project
- 7/1/88-11/30/88 National Research Service Award

V. GRANT REVIEWER FOR

- NIH NINDS Special Study Section for HIV Program Projects
- Kansas NSF First Award
- John Sealy Endowment Fund - External Reviewer

VI. JOURNAL REVIEWER FOR

- PNAS
- Learning and Memory
- JNP
- JNS
- Synapse

VII. JOURNAL EDITORIALSHIPS

- Associated Editor, *Neurology*

VIII. ADMITTING PRIVILEGES

- The Methodist Hospital
- The Michael E. DeBakey VA Medical Center
- St. Luke's Episcopal Hospital

IX. ABPN

- 1990

X. Active State Licensure

Texas H3840

XI. PUBLICATIONS

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2. Schmolck H, Mosnik D, **Schulz PE**. Discrimination of threatening and non-threatening faces in ALS.
3. Kasten MR, Fan Y, **Schulz PE**. Activation of silent synapses with sustained but not decremental long-term potentiation.
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In Preparation

1. Pinto GPP, Goldman T, Kunik M, and **Schulz PE**. The work up and treatment of veterans with dementia.
2. Kasten MR, Fan Y, **Schulz PE**. Synaptically-induced metabotropic glutamate receptor-dependent LTD does not require postsynaptic calcium.
3. Mosnik DM, Witgert M, Salamone A, Bradshaw M, and **Schulz PE**. Behavioral changes in amyotrophic lateral sclerosis and their relationship to cognitive changes.

Books and Book Chapters

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2. Neurology Core Rotation Manual, Baylor College of Medicine
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2. **Schulz PE**, Sadek A, and Bowler R. Parkinsonism due to Manganism in a Welder: Neurological and Neuropsychological Sequelae. Conference on Health Effects, Clinical Research, and Industrial Hygiene Issues in Occupational Exposure to Manganese. April 17, 2004.

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4. **Schulz PE**, Ringholz GM, Mosnik DM, Bradshaw M, McDonald RO, Talcott BL, Appel SH. The prevalence of frontotemporal dementia in familial and sporadic ALS. FTD Meeting. Philadelphia, PA; July 16, 2004.
5. Schmolck H, **Schulz PE**. Semantic memory- overlooked and undertested? What can we do at the bedside? FTD Meeting. Philadelphia, PA; July 16, 2004.
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7. Schmolck H, Mosnik D, Wheaton MW, Appel SH, Ringholz GM, and **Schulz PE**. Is the Amygdala Affected in Amyotrophic Lateral Sclerosis? First International Research Workshop on Frontotemporal Dementia in ALS, London, Ontario; May 15-17, 2005.
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10. Witgert M, Bradshaw M, Mosnik D, **Schulz PE**. Behavioral Change in Amyotrophic Lateral Sclerosis (ALS). International Neuropsychologic Society meeting, February, 2006.
11. Mosnik DM, Sterling L, Wheaton M, Schmolck H, and **Schulz P**. The dissociation of dysarthria from cognitive dysfunction in ALS. International Neuropsychologic Society meeting, February, 2006.
12. Coerver K, Mosnik D, McMurray P, Patel P, **Schulz PE**, Ringholz GM. Characterization of a Large Kindred with Frontotemporal Dementia that Affects Males and Females Differently. ANPA Meeting; 2006.
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19. Sterling LE, Mosnik DM, Salamone A, Wheaton M, Appel SH, and **Schulz PE**. The dissociation of dysarthria from cognitive dysfunction in ALS. The ALS-MND meeting, Yokahama Japan, Nov 2006.

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Certification(s) American Board of Psychiatry and Neurology,		
ABPN-Psychiatry	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Neurology	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Date
ABPN-Child Neurology	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Other (specify)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
Other Board	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
Other (name below)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
List any equivalent training here:	Date	
Active State Licensure(s): Texas	Date(s) 1988	
Current Academic Positions: Professor of Neurology	Date Assumed this Position 2003	
Current Hospital Appointments: The Methodist Hospital	Date of Appointments 1987	
Fellowship/post-graduate training (type & location): PhD	Date of Completion 1990	

In the space below, list the most recent publications in journals (maximum 10 articles). Do not include presentations, abstracts, and those 'in preparation' or 'submitted.

1. Ornish, D.M., Scherwitz, L.W., **Doody, R.S.**, et al. Effects of Stress Management Training and Dietary Changes in Treating Ischemic Heart Disease. *JAMA*, 1983; 249(1), 54-59.
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58. Snow, A.L., Norris, M.P., **Doody, R.**, Molinari, V.A., Orengo, C.A., Kunik, M.E. Dementia deficits scale: rating self-awareness of deficits. *Alzheimer's Disease and Associated Disorders*, 2004;18:22-31.
59. Pavlik VN, Hyman DJ, **Doody RS.** Cardiovascular risk factors and cognitive function in adults 30-59 years of age (NHANES III). *Neuroepidemiology*, in press.
60. Specific functional effects of memantine treatment in patients with moderate to severe Alzheimer's disease. **Doody R**, Wirth Y, Schmitt F, Moebius HJ. *Dementia and Geriatric Cognitive Disorders*, 2004;18:227-232.

CURRICULUM VITAE

Name: Eugene Lai		
Degree(s) MD PhD		Year of Birth
Medical School Baylor College of Medicine		Date of Graduation 1986
Certification(s) American Board of Psychiatry and Neurology		
ABPN-Psychiatry	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Neurology	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Date
ABPN-Child Neurology	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Other (specify)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
Other Board	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
Other (name below)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
List any equivalent training here:		Date
Active State Licensure(s): Texas		Date(s) 1990-Present
Current Academic Positions: Professor of Neurology Director PADRECC		Date Assumed this Position 2003- 2001-
Current Hospital Appointments: TMH, MEDVAMC		Date of Appointments 1990-Present
Fellowship/post-graduate training (type & location):		Date of Completion

In the space below, list the most recent publications in journals (maximum 10 articles). Do not include presentations, abstracts, and those 'in preparation' or 'submitted.'

CLINICAL INVESTIGATION EXPERIENCE

1. Principal investigator, Prospective open-label study of the efficacy and safety of botulinum toxin A in the treatment of dystonia
2. Principal investigator, A double-blind, placebo-controlled study of CEP-151 (recombinant IGF-1) in the treatment of amyotrophic lateral sclerosis
3. Co-investigator, A double-blind, placebo-controlled, parallel group, high-dose study of tacrine (CI-970) in patients with Alzheimer's disease
4. Co-investigator, A multicenter, randomized, double-blind, placebo-controlled evaluation of the safety and efficacy of E2020 in patients with Alzheimer's disease
5. Co-investigator, The efficacy of controlled-release oral physostigmine in Alzheimer's disease and senile dementia of the Alzheimer type

6. Co-investigator, A randomized, double-blind, placebo-controlled, crossover protocol to evaluate the safety and efficacy of 12.5 and 25 mg Sumatriptan Suppositories in the acute treatment of multiple migraine attacks
7. Co-investigator, A randomized, double-blind, placebo-controlled, dose ranging study of the efficacy and tolerability of SB-202026 in patients suffering from dementia of the probable Alzheimer's type
8. Co-investigator, A controlled study of ondansetron in the treatment of primary degenerative dementia of the Alzheimer's type
9. Co-investigator, Study of midodrine in patients with neurogenic orthostatic hypotension
10. Co-investigator, Intrathecal baclofen in the management of intractable focal, cranial, and generalized dystonia: a multicenter pilot study of blinded dose-reduction in implanted patients
11. Co-investigator, Effect of ventral posterior pallidotomy on Parkinson's disease and other movement disorders
12. Principal investigator, An amyotrophic lateral sclerosis wheelchair survey to determine appropriateness and functional outcome
13. Principal investigator, An open-label study using CEP-151 in the treatment of amyotrophic lateral sclerosis in patients who were previously evaluated for and/or participated in Protocol CEP-1200 or -1200A
14. Co-investigator, A 54-week, randomized, double-blind, placebo-controlled evaluation of the effects of Donepezil Hydrochloride (E2020) on functional outcomes in patients with Alzheimer's disease with a staged crossover to open-label Donepezil Hydrochloride (E2020) treatment
15. Co-investigator, A 24-week, double-blind, placebo-controlled, parallel group, fixed dose study of the efficacy and tolerability of SB 202026 25 g bid and SB 202026 50 g qd in patients suffering from dementia of the probable Alzheimer's type
16. Co-investigator, A 26-week, randomized, double-blind, placebo-controlled, parallel-group, multicenter study of Milameline (CI979/RU35926) in patients with probable Alzheimer's disease.
17. Principal investigator, A treatment protocol using Myotrophin (human mecaseprin [recombinant DNA origin]) injection in patients with amyotrophic lateral sclerosis (ALS).

18. Co-investigator, Assessment of progression in Alzheimer's disease: the follow-up study.
19. Co-investigator, An open-label pilot study of oral hydroxyl-chloroquine efficacy in patients with amyotrophic lateral sclerosis (ALS).
20. Co-investigator, The Parkinson's epidemiology research committee (PERC) study of Parkinson's disease in twins.
21. Co-investigator, A randomized, double-blind, placebo-controlled, four-arm dose-finding study investigating the efficacy and safety of three doses of Lu 25-109 in patients with Alzheimer's disease.
22. Co-investigator, An open-label, multicenter clinical trial evaluating the safety and efficacy of donepezil hydrochloride in patients with Alzheimer's disease.
23. Co-investigator, An open-label study to evaluate the safety and efficacy of Exelon inpatients with mild to moderate probable Alzheimer's disease in the community setting.
24. Principal investigator, Metrifonate investigational nationwide trial (1998-1999).
25. Principal investigator, A survey to determine quality of life issues in patients diagnosed with amyotrophic lateral sclerosis (2001-2004).
26. Principal investigator, Parkinson's Disease Research, M.R. Bauer Foundation (2002-2001).
27. Principal investigator, Department of Veterans Affairs Merit Review Grant, Incidence of Parkinson's Disease among Veterans, (1998-2002).
28. Co-investigator, A placebo-controlled safety and tolerability pilot study of remacimide hydrochloride in subjects with probable Alzheimer's disease (2000-2003)
29. Principal Investigator, Department of Veterans Affairs Parkinson's Disease Research, Education and Clinical Center (PADRECC), Houston VA Medical Center (2002-2005)
30. Principal investigator, A comparison of best medical therapy and deep brain stimulation of subthalamic nucleus and globus pallidus for the treatment of Parkinson's disease, (2002-2007)
31. Principal Investigator, A phase III, double-blind, placebo-controlled, randomized study comparing the efficacy, safety, and tolerability of

- sumanirole versus placebo or ropinirole in patients with early Parkinson's disease (2001-2003)
32. Principal investigator, Open-label, long term, flexible dose study of safety, tolerability, and therapeutic response of sumanirole patients with Parkinson's disease (2001-2004)
 33. Principal investigator, Daily energy expenditure and physical activity in patients with Parkinson's disease (2002-2004)
 34. Principal investigator, A prospective, multi-center, randomized, open-label study with blinded raters to evaluate the effects of immediate versus delayed switch to Stalevo on motor function and quality of life in patients with Parkinson's disease with end-of-dose wearing off (2005).
 35. Principal Investigator, OV-1003 and OV-1005, Psychosis in Parkinson's disease (2005).
 36. Principal Investigator, A multi-center, double-blind, placebo-controlled, parallel group safety study of pulmonary function in patients with reduced lung function treated with BOTOX purified neurotoxin complex for focal upper limb post stroke spasticity (2005).

Papers (The first 33 are not included)

34. Litvan I, Agid Y, Jankovic J, Goetz C, Brandel JP, **Lai EC**, Wenning G, D'Olhaberriague L, Verny M, Ray-Chaudhuri K, McKee A, Jellinger K, Bartko JJ, Mangone C, Pearce R. Accuracy of clinical criteria for the diagnosis of Progressive Supranuclear Palsy (Steele-Richardson-Olszewski syndrome). *Neurology* 1996;46:922-930.
35. Lange DL, Felice KJ, Festoff BW, Gawel MJ, Gelinas DF, Kratz R, Lain EC, Murphy MF, Natter HM, Norris FH, Rudnicki S. Recombinant human insulin-like growth factor-I in ALS: description of a double-blind, placebo-controlled study. *Neurology* 1996;47(suppl 2):S93-S95.
36. **Lai EC**. Paraneoplastic syndromes. In: *Neuroimmunology for the Clinician*. Rolak LA and Harati Y, eds. Butterworth-Heinemann, Boston 1997:377-391.
37. Litvan I, Agid Y, Sastri N, Jankovic J, Wenning GK, Goetz C, Verny M, Brandel JP, Jellinger K, Chaudhuri KR, McKee A, **Lai EC**, Pearce RKB, Bartko JJ. What are the obstacles for an accurate diagnosis of Pick's disease? A clinicopathologic study. *Neurology* 1997;49:62-69.
38. Litvan I, Agid Y, Goetz C, Jankovic J, Wenning G, Brandel JP, **Lai EC**, Verny M, Ray-Chaudhuri K, McKee A, Jellinger K, Pearce PKB, Bartko JJ.

- Accuracy of the clinical diagnosis of corticobasal degeneration: a clinicopathological study. *Neurology* 1997;48:119-125.
39. Litvan I, Goetz C, Jankovic J, Wenning GK, Booth V, Bartko JJ, McKee A, Jellinger K, **Lai EC**, Brandel JP, Verny M, Chaudhuri KR, Pearce RKB, Agid Y. What is the accuracy of the clinical diagnosis of multiple system atrophy? A clinicopathologic study. *Arch Neurol* 1997;54:937-944.
 40. Krauss JK, Jankovic J, **Lai EC**, Rettig GM, Grossman RG. Posteroventral medial pallidotomy in levodopa-unresponsive parkinsonism. *Arch Neurol* 1997;54:1026-1029.
 41. Desaloms JM, Krauss JK, **Lai EC**, Jankovic J, Grossman RG. Microelectrode-guided posteroventral pallidotomy for treatment of Parkinson's disease: postoperative magnetic resonance imaging analysis. *Neurosurgical Focus* 1997;2(3).
 42. Krauss JK, Desaloms JM, **Lai EC**, King DE, Jankovic J, Grossman RG. Microelectrode-guided posteroventral pallidotomy for treatment of Parkinson's disease: postoperative magnetic resonance imaging analysis. *J Neurosurg* 1997;87:358-367.
 43. **Lai EC**, Felice KJ, Festoff BW, et al. Effect of recombinant human insulin-like growth factor I (rhIGF-I) on progression of amyotrophic lateral sclerosis: a placebo-controlled study. *Neurology* 1997;49:1621-1630.
 44. Krauss JK, Grossman RG, **Lai EC**, Schwartz K, Jankovic J. Medical posteroventral pallidotomy for the treatment of Parkinson's disease. *Zentralbl Neurochir* 1997;58:153-162.
 45. Lange DJ, Murphy PL, Diamond B, Appel V, **Lai EC**, Younger DS, Appel SH. Selegiline is ineffective in a collaborative double-blind, placebo-controlled trial for amyotrophic lateral sclerosis. *Arch Neurol* 1998;55:93-96.
 46. Ondo W, Jankovic J, **Lai EC**, Sankhla C, Khan M, Ben-Air L, Schwartz K, Grossman RG, Krauss JK. Assessment of motor function after stereotactic pallidotomy. *Neurology* 1998;50:266-270.
 47. Litvan I, MacIntyre MHS, Goetz C, Wenning GK, Jellinger K, Verny M, Bartko JJ, Jankovic J, McKee A, Brandel JP, Ray Chaudhuri K, **Lai EC**, Pearce RKB, Agid Y. Accuracy of the clinical diagnosis of Lewy Body disease, Parkinson disease, and dementia with Lewy bodies: a clinicopathologic study. *Arch Neurol* 1998;55:969-978.

48. Rettig GM, **Lai EC**, Krauss JK, Grossman RG, Jankovic J. Neuropsychological evaluation of patients with Parkinson's disease before and after pallidal surgery. In: Krauss JK, Grossman RG, Jankovic J, eds. Pallidal surgery for the treatment of Parkinson's disease and movement disorders. Lippincott-Raven, Philadelphia 1998, pp. 211-231.
49. **Lai EC**, Krauss JK. Indications for pallidal surgery for Parkinson's disease. In: Krauss JK, Grossman RG, Jankovic J, eds. Pallidal surgery for the treatment of Parkinson's disease and movement disorders. Lippincott-Raven, Philadelphia 1998, pp. 113-120.
50. Overby AS, Roberts-Warrior D, **Lai EC**. Changes in postural control after pallidotomy. In: Krauss JK, Grossman RG, Jankovic J, eds. Pallidal surgery for the treatment of Parkinson's disease and movement disorders. Lippincott-Raven, Philadelphia 1998, pp. 191-210.
51. Luiz JE, Lee AG, Keltner JL, Thirkill CE, **Lai EC**. Paraneoplastic optic neuropathy and autoantibody production in small cell carcinoma of the lung. *J Neuro-Ophthalmol* 1998;18:178-181.
52. Litvan I, Booth V, Wenning GK, Bartko JJ, Goetz CG, McKee A, Jankovic J, Jellinger K, **Lai EC**, Brandel JP, Verny M, Ray Chaudhuri K, Pearce RKB, Agid Y. Retrospective application of a set of clinical diagnostic criteria for the diagnosis of multiple system atrophy. *J Neural Transm* 1998;105:217-227.
53. **Lai EC**. Creutzfeldt-Jakob Disease. In: *Prognosis in Neurology*. Ed. Gilchrist JM. Butterworth-Heinemann, Boston 1998, pp 263-265.
54. Sankhla C, **Lai EC**, Jankovic J. Peripherally induced oromandibular dystonia. *J Neurol Neurosurg Psychiatry* 1998;65:722-728.
55. Desaloms JM, Krauss JK, **Lai EC**, Jankovic J, Grossman RG. Posteroventral medial pallidotomy for treatment of Parkinson's disease: preoperative magnetic resonance imaging features and clinical outcome. *J Neurosurg* 1998;89:194-199.
56. Jankovic J, Ben-Arie L, Schwartz K, Chen K, Khan M, **Lai EC**, Krauss JK, Grossman R. Movement and reaction times and fine coordination tasks following pallidotomy. *Movement Disorders* 1999;14:57-62.
57. Jankovic J, **Lai E**, Ben-Arie B, Krauss J, Grossman R. Levodopa-induced dyskinesias treated by pallidotomy. *J Neurol Sci* 1999;167:62-67.
58. Jankovic J, **Lai EC**, Krauss J, Grossman R. Surgical treatment of levodopa-induced dyskinesias. *Adv Neurol* 1999;80:603-609.

59. **Lai EC.** Therapeutic developments in amyotrophic lateral sclerosis. *Exp. Opin. Invest. Drugs* 1999;8:347-361.
60. Ondo WG, Ben-Aire L, Jankovic J, Lai EC, Constant C, Grossman RG. Weight gain following unilateral pallidotomy in Parkinson's disease. *Acta Neurol Scand* 2000;101:79-84.
61. **Lai EC,** Jankovic J, Krauss JK, Ondo WG, Grossman RG. Long-term efficacy of posteroventral pallidotomy in the treatment of Parkinson's disease. *Neurology* 2000;55:1218-1222.
62. Rettig GM, York MK, **Lai EC,** Jankovic J, Krauss JK, Grossman RG, Levin HS. Neuropsychological outcome following unilateral pallidotomy for the treatment of Parkinson's disease. *J Neurol Neurosurg Psychiatr* 2000;69:326-336.
63. Roberts-Warrior D, Overby A, Jankovic J, Olson S, **Lai EC,** Krauss JK, Grossman RG. Postural control in Parkinson's disease after unilateral posteroventral pallidotomy. *Brain* 2000;123:2141-2149.
64. Trail M, Nelson ND, Van JN, Appel SH, **Lai EC.** The use of wheelchairs among patients with amyotrophic lateral sclerosis: a survey to determine user characteristics and selection preferences. *Arch Phys Med Rehabil* 2001;82:98-102.
65. Jankovic J, **Lai EC,** Ondo EG, Roberts-Warrior D, Olson SL, Krauss JK, Grossman RG. Effects of pallidotomy on gait and balance. *Adv Neurol* 2001;87:271-281.
66. Trail M, Nelson ND, Van JN, Appel SH, **Lai, EC.** A study comparing patients with amyotrophic lateral sclerosis and their caregivers on measures of quality of life, depression, and their attitudes towards treatment options. *J Neurol Sci* 2003;209:79-85.
67. York MK, Levin HS, Grossman RG, **Lai EC,** Krauss JK. Clustering and switching in phonemic fluency following pallidotomy for the treatment of Parkinson's disease. *J Clin Exp Neuropsychol* 2003;25:110-121.
68. Nelson ND, Trail M, Van JN, Appel SH, **Lai EC.** Quality of life in patients with amyotrophic lateral sclerosis: perception, coping resources, and illness characteristics. *J Palliative Med* 2003;6:417-424.
69. Trail M, Nelson ND, Van JN, Appel SH, **Lai EC.** Major stressors facing patients with amyotrophic lateral sclerosis (ALS): a survey to identify their

- concerns and to compare with those of their caregivers. *ALS and Other Motor Neuron Disorders* 2004;5:40-45.
70. Veazey C, Aki SOE, Cook C, **Lai EC**, Kunik ME. Prevalence and treatment of depression in Parkinson's disease. *J Neuropsychiat Clin Neurosci* 2005;17:310-323.
 71. Fleming A, Cook, KF, Nelson ND, **Lai EC**. Proxy reports in Parkinson's disease: caregiver and patient self-reports of quality of life and physical activity. *Movement Disorders* 2005;20:1462-1468.
 72. Trail M, Fox C, Ramig LO, Sapir S, Howard J, **Lai EC**. Speech training for Parkinson's disease. *NeuroRehabilitation* 2005;20:205-221.
 73. Protas EJ, Mitchell K, Williams A, Qureshy H, Caroline K, **Lai EC**. Gait and step training to reduce falls in Parkinson's disease. *NeuroRehabilitation* 2005;20:183-190.

CURRICULUM VITAE

Name: Michele Klaswick York		
Degree(s) PhD	Year of Birth	
Medical School Baylor College of Medicine	Date of Graduation	
Certification(s) Texas Board of Psychologists		
ABPN-Psychiatry	() YES (X) NO	Date
ABPN-Neurology	() YES (X) NO	Date
ABPN-Child Neurology	() YES (X) NO	Date
ABPN-Other (specify)	() YES (X) NO	Date
Other Board	(X) YES (X) NO	Date Neuropsychology
Other (name below)	() YES (X) NO	Date
List any equivalent training here:	Date	
Active State Licensure(s):	Date(s)	
Current Academic Positions: Assistant Professor	Date Assumed this Position April, 2005	
Current Hospital Appointments: Veteran's Affairs	Date of Appointments	
Fellowship/post-graduate training (type & location):	Date of Completion	

In the space below, list the most recent publications in journals (maximum 10 articles). Do not include presentations, abstracts, and those 'in preparation' or 'submitted.'

1. McClure, S.M., **York, M.K.**, and Montague, P.R. (2004). The neural substrates of reward processing in humans: The modern role of functional magnetic resonance imaging. *The Neuroscientist*, 10(3):260-268.
2. **York, M.K.**, Rettig, G., Levin, H.S., Armstrong, D.D., Hamilton, W., Mizrahi, E., Grossman, R.G. (2003) The effect of Ammon's horn sclerosis and other pathologies on seizure frequency and cognition following temporal lobectomy. *Epilepsia*, 44, 387-398.
3. **York, M.K.**, Levin, H.S., Grossman, R.G. (2003) Clustering and switching in phonemic fluency following pallidotomy for the treatment of Parkinson's disease. *Journal of Clinical and Experimental Neuropsychology*, 25, 110-121.
4. **York, M.K.**, Franks, J.J., Henry, R.R., Hamilton, W.J. (2001). Verbal working memory storage and processing deficits in HIV-1 infected individuals. *Psychological Medicine*, 31, 1279-1291.
5. Rettig, G.M., **York, M.K.**, Grossman, R.G., Lai, E., Jankovic, J., Levin, H.S. (2000). Neuropsychological outcome following unilateral pallidotomy for the treatment of Parkinson's disease. *Journal of Neurology, Neurosurgery, and Psychiatry*, 69, 326-336.
6. **York, M.K.**, Levin, H.S., Grossman, R.G., Hamilton, W. (1999). Neuropsychological outcome following unilateral pallidotomy. [review]. *Brain*, 122, 2209-2220.

Submitted or In Preparation

1. Dulay, M. F., Levin, H.S. Macias Chamorro, A., Jankovic, J., Lai, E. C., Grossman, R.G., & **York, M. K.** (in progress). Depression and neurocognitive status before and after unilateral pallidotomy for Parkinson's disease. Will submit to *Journal of Neuropsychiatry and Clinical Neurosciences*.
2. Dulay, M.F., **York, M.K.**, Soety, E.M., Lai, E.C., Jankovic, J., Levin, H.S., Ondo, W.G., Tintner, R., Simpson, R.K. (in progress). Neuropsychological and emotional outcome in 3 patients who underwent STN-DBS surgery years after pallidotomy. Will submit to *Movement Disorders*.
3. Dulay, M. F., **York, M. K.**, Soety, E. M., Hamilton, W. J., Mizrahi, E. M., Goldsmith, I. L., Verma, A., Grossman, R.G., Yoshor, D., & Levin, H.S. (revisions in progress). Memory, emotional and occupational outcome after anterior temporal lobectomy for complex partial seizures. Submitted to *Epilepsia*.

Abstracts

1. **York, M.K.**, Dulay, M.F., Jankovic, J., Lai, E.C. (2006). Frontostriatal cognitive functioning 6-months following bilateral subthalamic nucleus deep brain stimulation. Poster to be presented at the American Academy of Neurology conference in San Diego, CA, April 2006.
2. Dulay, M.F., **York, M.K.**, Jankovic, J., Simpson, R.K. (2006). Neuropsychological outcome after bilateral deep brain stimulation surgery for advanced Parkinson's disease: Base rates adjusted for practice effects, test unreliability, and natural disease progression. Poster to be presented at the annual International Neuropsychological Society conference in Boston, MA, February 2006.
3. Dulay, M. F., Levin, H. S., Jankovic, J., Lai, E. C., & **York, M. K.** (2005). Relationship among psychiatric, motor and cognitive functioning in non-demented individuals with Parkinson's disease (abstract). *Movement Disorders*, 20, 10, S144.
4. Dulay, M. F., Levin, H. S., Macias Chamorro, A., Lai, E. C., Grossman, R. G., Soety, E. M., & **York, M. K.** (2005). Depression, memory, and executive functions after pallidotomy for Parkinson's disease. *Journal of the International Neuropsychological Society*, 11(S1), 121.
5. Dulay, M. F., Levin, H. S., **York, M. K.**, Yoshor, D., Grossman, R. G., Verma, A., Goldsmith, I. L., Mizrahi, E. M. (2005). Verbal memory declines are largest for patients with depression and anxiety after anterior temporal lobectomy. *Epilepsia*, 46(s8), 63.
6. Dulay, M. F., **York, M. K.**, Mizrahi, E. M., Goldsmith, I. L., Verma, A., Grossman, R. G., Yoshor, D., & Levin, H. S (2005). Predictors of psychiatric and occupational outcome after anterior temporal lobectomy (abstract). *The Clinical Neuropsychologist*, 19(3-4), 563.
7. Dulay, M. F., **York, M. K.**, Soety, E. M., Goldsmith, I. L., Mizrahi, E. M., Verma, A., Hamilton, W. J., Grossman, R. G., Yoshor, D., Levin, H. S. (2005). Relationship between memory and depression after anterior temporal lobectomy. *Journal of the International Neuropsychological Society*, 11(S1), 58.

8. **York, M.K.**, Levin, H.S., Soety, E.M., Lai, E.C., Jankovic, J., Grossman, R.G. (2004). Information processing speed influences the component processes of verbal working memory in Parkinson's disease patients. *Journal of the International Neuropsychological Society*, 10, S1.
9. Soety, E.M., **York, M.K.**, Levin, H.S., Armstrong, D.D., Grossman, R.G., Yoshor, D., Hamilton, W., Mizrahi, E., Verma, A., Goldsmith, I. (2004). Preoperative medical and neuropsychological variables predict pathology in anterior temporal lobectomy. *Journal of the International Neuropsychological Society*, 10, S1.
10. **York, M.K.**, Lai, E.C., Soety, E.M., Atassi, F., Grossman, R.G., Simpson, R. (2004). Temporal course of the motor effects of subthalamic DBS after stopping stimulation. *Neurology*, 62, S5, A397.
11. **York, M.K.**, Lai, E.C., Levin, H.S., Grossman, R.G. (2003). Dual-task processing in mild and moderately severe Parkinson's disease patients. *Neurology*, 60, S1, A401-402.
12. Hamilton, W.J., Grossman, R.G., Armstrong, D.D., Huang, E.S., **York, M.K.**, Kong, M.W., Verma, A., Goldsmith, I.L., Mizrahi, E.M. (2003). Seizure recurrence following anterior temporal lobectomy for complex partial seizures: A cox proportional hazards analysis. *Journal of Neurosurgery*, 98, 667.
13. **York, M.K.**, Lai, E.C., Levin, H.S., Grossman, R.G. (2002). Working memory functioning in mild and moderate Parkinson's disease patients. *Movement Disorders*, 17, S136.
14. **York, M.K.**, Levin, H.S., Grossman, R.G., Lai, E. (2001). Verbal fluency clustering and switching following pallidotomy. International Symposium for Mental and Behavioral Dysfunction in Movement Disorders.
15. McNeely, H.E., Christensen, B.K., Cave, K.R., **York, M.K.**, Henry, R.R. (2001). Cognitive processes underlying Trails B performance among persons with HIV-1. *Journal of the International Neuropsychological Society*, 7, 343.
16. **York, M.K.**, Mizrahi, E.M., Levin, H.S., Armstrong, D.D., Rettig, G.M., Hamilton, W.J., Grossman, R.G. (2001). The effect of Ammon's Horn Sclerosis and Atypical Sclerosis on seizure frequency following temporal lobectomy, *Epilepsia*, 42, 202-203.
17. Levin, H.S., **York, M.K.**, Mizrahi, E.M., Armstrong, D.D., Hamilton, W.J., Rettig, G.M., Grossman, R.G. (2001). The effect of Ammon's Horn Sclerosis and Atypical Sclerosis on memory functioning following temporal lobectomy, *Epilepsia*, 42, 236.
18. **York, M.K.**, Franks, J., Henry, R.R., Verbal working memory in HIV-1 infection. (2000). *Journal of the International Neuropsychological Society*, 6, 233.
19. **York, M.K.**, Rettig, G., Levin, H.S., Grossman, R.G., Lai, E., Jankovic, J. (2000). Neuropsychological outcome following unilateral pallidotomy for the treatment of Parkinson's disease. *Journal of the International Neuropsychological Society*, 6, 209.

CURRICULUM VITAE

Name: Mary Mitchell Kenan		
Degree(s) PhD		Year of Birth:
Medical School		Date of Graduation
Certification(s)		
ABPN-Psychiatry	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Neurology	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Child Neurology	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Other (specify)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
Other Board	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
Other (name below)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
List any equivalent training here:		Date
Active State Licensure(s):		Date(s)
Current Academic Positions: Instructor		Date Assumed this Position 1999
Current Hospital Appointments:		Date of Appointments
Fellowship/post-graduate training (type & location):		Date of Completion

In the space below, list the most recent publications in journals (maximum 10 articles). Do not include presentations, abstracts, and those 'in preparation' or 'submitted'.

Kenan, M. (2005). An Alzheimer's disease diagnosis: What does it mean. Alzheimer's Association Houston and Southeast Texas Chapter; Newsletter, 7.

Doody, R.S., & **Kenan, M.** (2000). Risk factors contributing to the Development of Alzheimer's disease. Texas Alzheimer's News, 1-2.

Kenan, M. (1998). Consultation to hospice care centers: Opportunities for clinical practice. Psychologists in Long Term Care Newsletter, 12, 2-3.

CURRICULUM VITAE

Name: Susan Dykman Rountree		
Degree(s) MD	Year of Birth:	
Medical School Baylor College of Medicine	Date of Graduation 1991	
Certification(s) American Board of Psychiatry and Neurology in Neurology		
ABPN-Psychiatry	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
ABPN-Neurology	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Date
ABPN-Child Neurology	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
ABPN-Other (specify)	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
Other Board	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
Other (name below)	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
List any equivalent training here:	Date	
Active State Licensure(s): Texas	Date(s)	
Current Academic Positions: Instructor	Date Assumed this Position 2004	
Current Hospital Appointments: The Methodist Hospital	Date of Appointments 2004	
Fellowship/post-graduate training (type & location): Alzheimer's and Memory Disorders	Date of Completion 2004	

In the space below, list the most recent publications in journals (maximum 10 articles). Do not include presentations, abstracts, and those 'in preparation' or 'submitted'.

1. "Does silicon Exposure from Ruptured Breast Implants Trigger Production of ANA or GM 1 Antibodies?" Poster Presentation at the Annual Meeting, American Academy of Neurology, May 6-13, 1995.
2. Alexander TH, Collin L, Harrison P, Hostetler W, Rountree SD, and Ulrich R. The Prevalence of Intracranial Stenosis in Symptomatic Patients Referred for Extracranial Duplex Ultrasound. Journal Neuroimaging, 1998; 8:123.
3. Alexander TH, Collins L, Harrison P, Hostetler W, Rountree SD, and Ulrich R. Transcranial Doppler Will Resolve discrepancies between extracranial vascular test results. Angiography and clinical symptomatology – a case study. Journal Vascular Technology, 1998; 22:209-212.
4. Invited Reviewer, The International Journal of Occupational and Environmental Health.

Current Clinical Trials

1. A 24 week, multicenter, randomized, double-blind, placebo-controlled evaluation of the safety and efficacy of donepezil hydrochloride (E2020) in patients with

- severe Alzheimer's disease followed by a 12-week open-label extension period. (E2020-A001-315) Eisai/Pfizer Sub-investigator
2. An 80-week, randomized, multi-center, parallel-group, double-blind study of the efficacy and safety of atorvastatin 80 mg plus an acetylcholinesterase inhibitor versus an acetylcholinesterase inhibitor alone in the treatment of mild to moderate Alzheimer's disease. Pfizer Protocol A2581078 Sub-Investigator
 3. A multi-center, randomized, double blind, placebo-controlled trial of simvastatin to slow the progression of Alzheimer's disease. NIH Sub-Investigator Component of NIH Consortium AG10483
 4. High dose supplements to reduce homocysteine and slow the rate of cognitive decline in Alzheimer's disease. NIH Sub-Investigator Component of NIH Consortium AG10483
 5. A randomized, multi-center, double-blind, placebo-controlled, 18-month study of the efficacy of xaliproden in patients with mild-to-moderate dementia of the Alzheimer's type. Sanofi-Synthelabo Study No. EFC2946 Sub-Investigator
 6. A 1-year, double-blind, randomized, placebo-controlled study of rasagiline 1 mg and 2 mg added to Aricept® 10 mg daily in patients with mild to moderate dementia of the Alzheimer's type. Eisai Protocol TVP-1021-A001-201 Sub-Investigator
 7. A phase IIa, multi-center, randomized, double-blind, placebo-controlled, multiple ascending dose, safety and tolerability trial of AAB-001 in patients with mild to moderate Alzheimer's disease. Elan Study Protocol AAB-001-201 Sub-Investigator
 8. A prospective, multi-center, randomized, open-label study with blinded raters to evaluate the effects of immediate versus delayed switch to Stalevo® on motor function and quality of life in patients with Parkinson's disease with end-of-dose wearing off. Novartis Protocol N.o. CELC200AUS11 Sub-Investigator
 9. Alzheimer's Disease Neuroimaging Initiative (ADNI). NIH Sub-investigator.

Name: Haesue Florence Seung Kim (Florence)		
Degree(s) MD, Enrolled in PhD Program		Year of Birth:
Medical School Baylor College of Medicine		Date of Graduation
Certification(s)		
ABPN-Psychiatry	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Date
ABPN-Neurology	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
ABPN-Child Neurology	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
ABPN-Other (specify)	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
Other Board	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
Other (name below)	<input type="checkbox"/> YES <input type="checkbox"/> NO	Date
List any equivalent training here:		Date
Active State Licensure(s): Texas		Date(s)
Current Academic Positions: Assistant Professor		Date Assumed this Position 2004
Current Hospital Appointments: The Methodist Hospital		Date of Appointments 2004
Fellowship/post-graduate training (type & location): Behavioral Neurology		Date of Completion 2003

In the space below, list the most recent publications in journals (maximum 10 articles). Do not include presentations, abstracts, and those 'in preparation' or 'submitted'.

1. **HF Kim**, EJ Weeber, JD Sweatt, LB Marangell. Inhibitory effects of omega-3 fatty acids on protein kinase C activity *in vitro*. *Molecular Psychiatry*, 2001 March; 6(2):246-8.
2. **HF Kim**, ME Kunik et al. COPD and functional impairment: the impact of anxiety and depression. *Psychosomatics*, 2000 Nov-Dec; 41(6):465-71.
3. **HF Kim**, U Braun, ME Kunik. Anxiety and depression in medically ill older adults. *Journal of Geropsychology*, 7(2):117-130, April 2001.
4. MJ Fisch and **HF Kim**. Use of atypical antipsychotic agents for symptom control in patients with advanced cancer. *Journal of Supportive Oncology*, 2004; 2(5):1-6.
5. LB Marangell, JM Martinez, HA Zboyan, B Kertz, **HF Kim**, LJ Puryear. A double-blind, placebo-controlled study of the omega-3 fatty acid docosahexaenoic acid (DHA) in the treatment of major depression. *American Journal of Psychiatry*, 2003 May;160(5):996-8.
6. B Mirnikjoo, SE Brown, **HF Kim**, LB Marangell, JD Sweatt, EJ Weeber. Protein kinase inhibition by omega-3 fatty acids. *Journal of Biological Chemistry*, 2001, Apr 6; 276(14):10888-96.

Name Major R. Bradshaw		
Degree(s) PhD	Year of Birth	
Medical	Date of Graduation Dec 2004	
Certification(s)		
ABPN-Psychiatry	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Neurology	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Child Neurology	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
ABPN-Other (specify)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
Other Board	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
Other (name below)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Date
List any equivalent training here:	Date	
Active State Licensure(s):	Date(s)	
Current Academic Positions: Assistant Professor	Date Assumed this Position January, 2006	
Current Hospital Appointments:	Date of Appointments	
Fellowship/post-graduate training (type & location): Clinical Neuropsychology, Baylor College of Medicine	Date of Completion Nov. 30, 2005	

In the space below, list the most recent publications in journals (maximum 10 articles). Do not include presentations, abstracts, and those 'in preparation' or 'submitted.'

1. Ringholz GM, Appel SH, **Bradshaw M**, Cooke NA, Mosnik DM, Schulz PE. Prevalence and patterns of cognitive impairment in sporadic ALS. *Neurology*. 2005 Aug 23;65(4):586-90.