Announcements

The James A. Haley V. A. Hospital is in the process of developing a Clinical Neuro Research Center. There are six projects in the process of completion. These include:
1. Pain management,
2. Surgery for abnormal movements,
3. Use of gliadai wafers in intra-cranial metastases,
4. Protocol for follow-up of patients treated with radiosurgery,
5. Vascular study comparing surgery versus stenting in carotid disease, and
6. Anterior vs. posterior decompression and fusion in cervical spinal cord stenosis.

USF is starting a new program in Biomedical Engineering this Fall (1999). An M.S. degree will be offered. Call Bill Lee (974-2126) for more details.

Paul E. Gottschall, Department of Pharmacology and Therapeutics is a temporary member of the "Brain Disorders and Clinical Neuroscience-4" study section, of the Center for Scientific Review at NIH and has served since June, 1998.

Leon D. Prockop, Department of Neurology, spent a three-month portion of a sabbatical leave at the National Center for Toxicology Information at the Salvatore Mangieri Foundation and the University of Paris. His work is focused on clinical and laboratory research aspects of neurotoxicology. As a result of the work, one article is in press, two manuscripts have been submitted for publication, and three manuscripts are in preparation. Two long-term collaboration research projects are ongoing.

Honors

Michael F. Nolan of Anatomy recently received the "Faculty Outstanding Teacher Award - Basic Medical Sciences" for 1998-99. He was also recognized with the "Most Outstanding Pre-clinical Professor Award" by the class of 2000.

Paul R. Sanberg was a Grass Foundation traveling lecturer during the Spring, 1999.

Robert W. Thatcher has received the "Life Time Achievement Award" for work in the Scientific Specialty of QEEG, American Board of Certification of Quantitative Electroencephalography.

MarzennaWiranowska received an award to present "CD44 adhesion molecule, MMP-2, gliaoma invasion and interferon treatment" at the Anticancer Research Conference in Greece.

Presentations

The following is a list of presentations by USF faculty and collaborators at various neuroscience meetings since the last newsletter.

Comparative Literature Symposium
February 3-6, 1999, Texas Tech University
Tucker, R: The narration and incorporation of brain mechanism awareness and literature.

National Future Health Workshop
February 9, 1999, Palm Springs, California

International Conference on Metalloproteinasases and their Inhibitors in the Nervous System: Physiology and Disease
February, 1999, Banff, Alberta, Canada

Winter Conference on Neural Plasticity
Feb 24-28, 1999, St. Lucia, West Indies
Paul R. Sanberg participated in a presentation on "Neurosurgical treatments for neurodegenerative disease."

The Cell Transplantation Society
March 21-24, 1999, Montreux, Switzerland
Paul Sanberg gave the Presidential Address entitled, "Neurotransplantation using cells of the testes."

American Association for Cancer Research
April 10-14, 1999, Philadelphia, Pennsylvania
Wiranowska, M; Rojiani, A; Johnson, J; Gottschall, P & Sapatra, S: Interferon effect on the expression of CD44 adhesion molecule and MMP-2 secretion during glioma invasion.

Experimental Biology '99
April 17-21, 1999, Washington D. C.
Lindsey, BG: The medullary raphe: Such an obvious role in respiratory control, but what exactly is it?
American Academy of Neurology
April 19-23, 1999, Toronto, Ontario
Graves, AB; Rajaram, L; Bowen, JD; McCormick, WC; McCurry, SM & Larson, EB: Does the possession of multiple risk factors increase the risk for cognitive decline over a two-year follow-up period?

Sanchez-Ramos, JR; Song, S; Cardozo-Pelaez, F; Hazzi, C; Willing, A; Saporta, S & Sanberg, PR: The medullary raphe: Bone marrow stromal cells grafted into adult rat brain migrate, organize in architectonic patterns and express neuronal markers.

American Society for Neural Transplantation & Repair
April 29-May 2, 1999, Clearwater, Florida
Freeman, T; Deacon, T; Ciccetti, F; Hauser, R & Sanberg, PR: Histological evaluation of human fetal striatal transplants in a patient with Huntington’s disease.

Jantzen, PT; Gordon, MN; Gottschall, PE; Hsiao, K; Duff, K & Morgan, DG: Potentiation of the Alzheimer’s-like phenotype in mAPP/mPS-1 transgenic mice by metabolic inhibition.

Nishino, H; Hida, H; Kumazaki, M; Yamamoto, M; Takei, N; Sanberg, PR & Borlongan, CV: Glial cell alterations accompany in vitro and in vivo melatonin protection against cerebral ischemia in adult rats.

Polgar, S; Borlongan, CV; Saporta, S; Cahill, DW & Sanberg, PR: Composite brains: A hypothetical model for recovery following neural transplantation.

Rivas-Arancibia, S; Rodriguez, AJ; Zigova, T; Willing, AE; Brown, WD; Cahill, DW & Sanberg, PR: Taurine protects against damage in a 3-nitropropionic acid rat model of neurodegeneration.

Rodriguez, AJ; Rivas-Arancibia, S; Willing, AE; Brown, WD; Zigova, T; Cahill, DW & Sanberg, PR: Effects of Taurine on motor behavior and TH alterations caused by 3-nitropropionic acid in rats.

Saporta, S; Willing, AE; Zigova, T; Sinibaldi, SJ; Colina, L & Sanberg, PR: Neurotransmitter phenotype of hNT neurons transplanted into striatum and neocortex.

Tedesco, EM; Zigova, T; Willing, AE; Saporta, S; Freeman, T; Randall, T & Sanberg, PR: The effect of lithium chloride on the morphological maturation of cultured hNT neurons.

Willing, AE; Zigova, T; Miliken, M; Colina, L; Saporta, S; Snable, G & Sanberg, PR: Effect of lithium chloride pretreatment on cells from a human neuron-like cell line transplanted into the striatum of normal rats.

Zigova, T; Willing, AE; Saporta, S; McGrogan, M & Sanberg, PR: Dopaminergic phenotype of TH-positive hNT cells in vitro.

International Symposium on Nicotine Acetylcholine Receptors
May 13-14, 1999, Annapolis, Maryland

International Scientific Symposium on Tourette Syndrome
June 4-6, 1999, New York City, New York
Shytle, D; Silver, A; Wilkinson, B; Newman, M; Katherine-Phillip, M; Sanberg, PR; McConvile, B & Fogelson, H: Treatment of Tourette disorder with transdermal nicotine and haloperidol.

New Clinical Drug Evaluation Unit Program
June 1-4, 1999, Boca Raton, Florida
Sheehan, D; Shytle, D; Newman, M; Sanberg, PR & Silvers, A: Development of the Tourette disorder scale (TODS).

International Conference on Functional Mapping of the Human Brain
June 7-12, 1999, Dusseldorf, Germany
Thatcher, RW; Biver, CJ; Gomez, M & Salazar, AM: 3-dimensional vector analysis of MRI relaxometry and current source localization (LORETA) of EEG in traumatic brain injury.

International Bekesky Centenary Conference on Hearing and Related Sciences
June 24-26, 1999, Budapest, Hungary
Sokolowski, BHA: Development of excitation in cells of the inner ear.

1999 Summer Convention
Florida Psychological Association
July 8-11, 1999, Palm Beach, Florida

Thatcher, RW: Biophysical linkage between MRI, EEG and cognition in traumatic brain injury.

Publications


Borlongan, CV; Stahl, CE; Fujisaki, T; Sanberg, PR & Watanabe, S: Cyclosporine-A-induced hyperactivity in rats: Is it mediated by immunosuppression, neurotoxification, or both? Cell Transplantation. 8:153-159, 1999.


Crawford, F; Freeman, M; Town, T; Fallin, D; Gold, M; Duara, R & Mullan, M: No genetic association between polymorphisms in the Tau gene and Alzheimer's disease in clinic or population based samples. *Neuroscience Letters*, 266:193-196, 1999.


Edland, SD; Graves, AB; McCormick, WC & Larson, EB: Estimation and sample design in prevalence surveys of dementia. *Journal of Clinical Epidemiology*, 52:300-403, 1999.


Graves, AB; Rajaram, L; Bowen, JD; McCormick, WC; McCurry, SM & Larson, EB: Cognitive decline and Japanese culture in a cohort of older Japanese Americans in King County, WA: The Kame Project. *Journal of Gerontology: Social Sciences*, 54:154-161, 1999.

Green, JB; Sora, E; Bialy, Y; Ricamato, A & Thatcher, RW: Cortical motor reorganization after paraplegia: An EEG study. *Neurology*, (in press).


Hoffman, DA; Lubar, JF; Thatcher, RW; Sterman, BM; Rosenfeld, PJ; Striebel, S; Trudeau, D & Stockdale, S: Limitation of the American Academy of Neurology and American Clinical Neurophysiology Society paper on QEEG. *Journal of Neuropsychiatry and Clinical Neurosciences*, (in press).


Li, Z; Morris, KF; Bacek, DM; Shannon, R & Lindsey, BG: Multimodal medullary neurons and correlational linkages of the respiratory network. *Journal of Neurophysiology*, 82:188-201, 1999.


Tang, J; Town, T; Paris, D; Placzek, A; Parker, T; Crawford, F; Yu, H; Humphrey, J & Mullan, M: Activation of microglial cells by the CD40 pathway: Relevance to multiple sclerosis. *Journal of Neuroimmunology*, 97:77-85, 1999.


Willing, AE; Sudbery, JJ; Otberg, AI; Saporta, S; Poulos, SG; Cameron, DF; Freeman, TB & Sanberg, PR: Sertoli cells decrease microglial response and increase engraftment of human hNT neurons in the hmemparkinsonian rat striatum. *Brain Research Bulletin*, 48:441-444, 1999.

Willing, AE; Otberg, AI; Saporta, S; Anton, A; Sinibaldi, S; Cameron, DF; Freeman, TB & Sanberg, PR: Sertoli cells enhance the survival of co-transplanted dopamine neurons. *Brain Research*, 822:246-250, 1999.

Wiranowska, M: International collaborative study for proposed international standards for interferon alpha. *WHO International Laboratory for Biological Standards*.


Zigova, T; Willing, AE; Borlongan, CV; Saporta, S; Sable, GL & Sanberg, PR: Lithium chloride induces the expression of tyrosine hydroxylase in hNT neurons. *Experimental Neurology*, 157:251-258, 1999.

### Grants

Amy Borenstein Graves of Epidemiology-Biostatistics has received a grant for "Identification of individuals at high risk for Alzheimer’s disease in a community population of older African Americans" from the Alzheimer’s Association of American.

David A. and Mary Irene Falk Memorial Fund gave support to The Suncoast Gerontology Center Laboratories for research on Alzheimer’s disease.

Bruce G. Lindsey of Physiology & Biophysics has received a grant from the National Institute of Health (NIH) for "Brainstem respiratory neuron interactions."

Tanja Zigova of Neurosurgery has received approval for a "Research and Creative Scholarship Grant Award" in support of her project entitled "Dopaminergic phenotype of lithium-treated hNT neurons." In addition, she has received a grant from the Institute on Aging for work on "Dopaminergic properties of hNT neurons in long-term culture."

Samuel Saporta of Anatomy has received a grant from the American Heart Association for "Blood-Brain barrier disruption following peripheral nerve injury."

### Employment

Position available in cardiovascular research laboratory with interests in the autonomic and neuropeptide control of cardiac muscle and coronary blood flow. Individual should have knowledge of isolated tissue and cell investigations, molecular biological techniques (western blot and immunoassays) computer database and statistical software.