University of Kansas School of Allied Health

Research & Scholarship Report

2002-2004

Building Bridges Through Leadership in Allied Health Research
Introduction

The School of Allied Health (SAH) is pleased to present its research report for 2002–2004. We are hopeful that this information will be of interest to fellow scientists from within the University and Kansas City area, who may discover potential avenues for collaboration. We also hope to attract the interest of students wishing to pursue careers in the allied health sciences.

The SAH is the most diverse academic unit within the University of Kansas Medical Center, comprising 9 different departments of health professions education. Research activities within the School reflect this wealth of diversity. Various agencies within the federal government, primarily the National Institutes of Health (NIH) and the U.S. Department of Education, provided over $4.6 million of research support for the School from 2002-2004. KU’s dramatic improvement was reflected when the SAH was ranked 12th in the nation in 2003 for NIH funding to schools of allied health in public universities.

The SAH 2000 – 2003 Strategic Plan emphasized recruitment and retention of research faculty, research collaboration among the departments in the SAH and other KU Schools and Centers, and strengthening the School’s research infrastructure. The goals set forth in this Plan have all been met by the appointment of a part-time Associate Dean of Research for the School; the hiring of a full-time biostatistician, whose services are shared between the SAH and the School of Nursing; utilization of the services of the Office of Nursing Grants and Research for grant preparation and submissions; and increasing the internal funds available to support seed projects that have the potential to lead to significant external support.

Finally, two new Ph.D. programs, one in the Department of Physical Therapy and Rehabilitation Sciences, and the other in the Department of Occupational Therapy Education, were approved within the past three years and are well underway. As a result of these efforts, a research-intensive environment within the School has been created that not only advances the allied health sciences, but also promotes the health and well-being of our community and state.

The following pages list the research-related publications, presentations and grant activity for faculty members from the School of Allied Health. As you will see from reviewing this information, much of the research in the School can be classified under the general headings of neuroscience and lifespan studies - areas designated for emphasis in the strategic research plan for KUMC.

As you review the material in this report, please feel free to contact Dr. Karen Miller, Senior Vice Chancellor and Dean, or me should you have questions about any aspect of research within the SAH, or would like more information about specific areas of interest.

John Ferraro, Ph.D.
Associate Dean for Research
School of Allied Health
Research and Scholarship Report
2002-2004

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DEPARTMENT OF BIOMETRY
G034 Olathe Pavillion
588-5566

Khatab M. Hassanein, Ph.D, Professor and Chairman

Publications:


Grant Activity:
Assessing the Role of Antioxidants in Ovarian Cancer
2002-04 (Departmental Role—Statistical Consultant)
Cancer Treatment Research Foundation

Urban-Rural Sedative and Anxiolytic Use in Long-Term Care
9/01-8/06 (Departmental role—Data management)
Rural Dwelling Older Adults: CPAP Adherence Support In Home Telehealth/Internet 2000-2005 (Departmental role—Data management) NIH

Care Planning Integrity & Nursing Home Resident Outcomes (Departmental role—Data Management) NIH NINR

A Forty-Year Followup of Men at High Risk for Alcoholism 05/01/2002 to 04/30/2005 (Departmental role—Data management) NIAAA Assignment # 1 R21 AA13374-01


Real-time Palpation in Aging for Improved Detection and Discrimination of Breast Abnormalities 2003 – 2006 (Departmental role—Statistical consultant) United States Army
Eric Elsinghorst, Ph.D, Research Assistant Professor

Publications:

Presentations:
Adrienne Moore Baxter, M.S., R.D., L.D., Instructor

Publications


Presentations:


Grant Activity:
Health Education Training Centers (HETC) in Kansas 2003-September 2005 (Subcontractor)
Bureau of Health Professions, United States Department of Health and Human Services
A Clinical Study to Evaluate the Safety and Efficacy of the Transcend® Implantable Gastric Stimulation System for Weight Loss 2001-January 2007 (Consultant/counselor, support group facilitator)
Transneuronix, Inc.

Spiritually Based Rural Telehealth Weight Management 2004-2006 (Consultant, develop materials, supervise/train)
Health Resources and Services Administration, U.S. Department of Health and Human Services
Peter Beyer, M.S., R.D., L.D., Associate Professor

Publications:


Presentations:


Susan Carlson, Ph.D., Midwest Dairy Council Professor

Publications:


Presentations:

Carlson, S.E., “Increased DHA intake during the last trimester of pregnancy may extend the duration of gestation and enhance foetal growth. And Possible mechanisms underlying behavioral effects of DHA and AA during development,” Mother and Newborn: Present and Future (Pediatricians/Neonatologists), Milan, 11-12 December 2004.


Carlson, S.E., “Dietary fatty acids and the brain,” IUPUI School of Medicine, IN, November 2002.

Carlson, S.E., Pediatric Grand Rounds Des Moines, IA, November 2002.


Grant Activity:
The effects of infant formula supplemented with long chain polyunsaturated fatty acids on visual and cognitive development in term infants
August 2003-August 2006 (PI)
Mead Johnson Nutritionals (Bristol Myers Squibb), Payment is based on visits completed, conservatively $742,524 (3 years)

Models for studying individual components of human milk and relationships among those components as they relate to optimal formula composition
March 2004-March 2005 (2 years) (PI)
Mead Johnson Nutritionals, $253,011

Brain DHA, dopamine and behavior: Roles in ADHD
Sept 30, 2004-June 30, 2007 1R01 MH067938 (Co-I)
$450,000

Brain, LCPUFAs and Maternal Mental Health
September 15, 2004-June 30, 2007, 1R01 MH071599 (Co-I)
$450,000

Mary Hise, Ph.D. R.D., CNSD, Assistant Professor and Clinical Director, Nutrition Support Service, University of Kansas Hospital

Publications:


**Presentations:**


Grant Activity:
Nutritional and Immune Parameters in Home Parenteral Nutrition Patients
03/01/2002-03/31/03 (PI)
University of Kansas Medical Center, School of Allied Health Research Grant

Debra Sullivan, Ph.D., Associate Professor

Publications:


Presentations:


**Grant Activity:**

Synergistic effect of dairy foods on metabolism: a mechanistic study
01/01/04-12/31/05 (PI)
Dairy Management, Inc., Directs $219,137

Effects of increasing dairy product consumption on blood pressure in a multi-ethnic population of elementary school children
08/01/01-06/30/04 (PI)
Dairy Management, Inc., Directs $222,264

Prevention of obesity by alteration of dietary fat
01/01/01-12/31/05 (PI of subcontract)
National Institutes of Health, Direct cost $2,158,002, subcontract cost $290,795

Long-term exercise, weight loss, and energy balance.
04/01/05-03/31/10 (Co-I)
National Institutes of Health. Direct Costs $2,179,175

Physical activity across the curriculum
01/01/03-12/31/08 (Co-I)
National Institutes of Health, Direct costs $1,200,000

Resistance training for the prevention of obesity
07/01/03 -06/30/07 (Co-I)
National Institutes of Health, Directs $291,000

Prevention of obesity in YMCA daycare centers
10/01/02-9/30/05 (Co-I)
National Institutes of Health, Direct costs $450,000

Kansas Get Moving
07/01/04-06/30/06 (Co-I)
Sunflower Foundation, Direct costs $248,150

The effects of dairy intake on weight maintenance and metabolic profile
11/1/03-10/31/06 (Co-I)
Dairy Management, Inc., Directs $ 95,262

Partnerships in health promotion
09/01/02-8/30/04 (Co-I)
HRSA Training grant
Training health care providers in prevention and treatment of obesity in children
07/1/03-6/30/04 (Co-I)
Sunflower Foundation, Directs $113,670

Effects of ginseng and ginkgo on drug disposition in man
08/01/01-12/31/04 (Co-I)
National Institutes of Health, Direct costs $1,118,776

African American smokers in low income housing
04/01/00-03/31/04 (Co-I)
National Cancer Institute, Direct cost $1,299,449

Smoking cessation and energy balance: a mechanistic study
7/01-6/03 (Co-I)
American Heart Association, $110,000

Obesity among school-age children in Kansas
7/02-6/03 (Co-I)
Sunflower Foundation, $149,994

Low carbohydrate vs low fat diet following weight loss for weight maintenance and prevention of
weight re-gain
01/01/03-12/01/04 (Co-I)
Atkins Foundation and Health Management Resources
Lin Bian, Ph.D., Research Assistant Professor

Publications:


Presentations


Grant Activity
Clinical Assessment of Cochlear Transducer Function Using Distortion Product Otoacoustic Emissions
04/28/2003 (PI)
Department of Health and Human Services, NIH- National Institute on Deafness and Other Communication Diaorders (NIDCD)

Mary Carpenter, Ph.D., Associate Professor

Publications:


Mark Chertoff, Ph.D., Associate Professor

Publication:

Presentations:

Choi, Chul-Hee., Chertoff, M.E., & Bian, L., “Deriving a cochlear transducer function using the summating potential,” 26th meeting of the Association for research in Otolaryngology, Daytona Beach, FL, 2003

Lichtenhan, J.T., Chertoff, M.E., & Yi, X., “The influence of varying degrees of permanent hearing loss on a polynomial model of mechano-electric transduction,” 26th meeting of the Association for research in Otolaryngology, Daytona Beach, FL, 2003

Grant Activity:
Entered fifth year of five-year funding period for NIH-NINCDS study on mechano-electric transduction in the cochlea.

Debora Daniels, Ph.D., Clinical Assistant Professor

Ph.D. Dissertation
John Ferraro, Ph.D., Doughty-Kemp Chairman and Professor

Publications:


Presentations:


**Grant Activity:**

Improved Method of Auditory Assessment in Infants
September 2001 – July 2004 (PI)
Hall Foundation of Kansas City, $60,000 (Funded)

An Improved Method for the Electrophysiological Assessment of Hearing Function in Newborns and Young Children
August, 2004 –August, 2005 (PI)
Deafness Research Foundation, $20,000
Marc Fey, Ph.D., Professor

Publications:


**Presentations:**


Susan Jackson, Ph.D., Associate Professor

Publications


Presentations:


Grant Activity:
Quentin N. Burdick Program for Rural Interdisciplinary Training grant
3 years (Training Faculty)
Department of Health and Human Services, Bureau of Health Professions, Total costs: $931,413

The Kansas Geriatric Education Center
5 years (Contributing Faculty)
Department of Health and Human Services, Bureau of Health Professions, Total costs: $1,961,268

Sandra Keener, M.A., Clinical Instructor

Publication:

Presentations:


Jeff Searl, Ph.D., Associate Professor

Publications:


Presentations:


Searl, J., “Lip contact pressure, oral air pressure, and sound pressure level in tracheoesophageal speech,” International Association of Laryngectomees Voice Institute, Vancouver, B.C., 14-20 July 14-20, 2002.


Grant Activity:
Linguopalatal contact pressures during speech.
May, 2001 – July, 2004 (PI)
National Institute of Deafness and Other Communicative Disorders, National Institutes of Health, $202,000 (Direct +Indirect)

Quality of life of individuals with chronic speech disorders: Pilot data collection
January – December 2004 (Co-PI)
Center for Family Studies and Demography, Bowling Green State University, $5,500

Judith Widen, Ph.D., Associate Professor

Publications:


Presentations:


Widen, J., “Pediatric Behavioral Assessment: Things We Should Have Learned in School Had We Been Paying Attention,” Kansas Speech Language Hearing Association Convention, Wichita, KS, October 2003.

Grant Activity:
Efficacy of OAE/ABR in Identifying Hearing Loss
10/1/00 – 12/30/03 (Consultant, Diagnostic Evaluation Coordinator)
Association for Teachers of Preventive Medicine, Centers for Disease Control

A Comparison of Language Intervention Programs
9/1/01 – 8/31/05 (Psychoacoustician)
National Institute of Deafness and other Communication Disorders
Becky Bothwell, OTR

Publications:

Presentations:


Grant Activity:
Dynamic Assessment of Cognition in Schizophrenia
September 2003-August 2005 (Project Manager and administrator of cognitive measures)
NIMH

Matching Learning Potential and Rehab Approach
September 2003-August 2005 (Project manager)
NARSAD

Tana Brown, Ph.D., OTR, FAOTA, Associate Professor

Publications:


Presentations:


Grant Activity:
Independent living for people with psychiatric disabilities: Using contextual cues to remove environmental barriers
National Institute of Disability Research and Rehabilitation, $433,543

Partnerships in health promotion
Dates (2002 – 2005) (Project Director)
Health Resources and Services Administration,$363,548

Dynamic assessment of cognition in schizophrenia
Dates (2003-2005) (Principal Investigator)
National Institute of Mental Health, $147,000

Matching learning potential and rehabilitation approach for people with schizophrenia National Association for Research in Schizophrenia and Depression
2003-2005
$100,000

Preventing obesity in people with schizophrenia
2003-2004 (PI)
University of Kansas Research Institute’s Clinical Pilot Grant, $25,000

Jessica Saiter Clark, OTR

Publication:

Presentations:

Saiter, J., “An Introduction to Understanding the OT and OTA Fieldwork Performance Evaluations (FWPEs),” Heartland Occupational Therapy Fieldwork Alliance spring meeting, April 2003.


Cheryl Deterding, M.A., OTR, Assistant Professor

Presentations:
Deterding, Cheryl, “Quality Indicators in Assistive Technology,” (co-presenter) Closing the Gap Annual Conference, Minneapolis, MN, October 2002

Deterding, Cheryl, “The Accessible Workstation,” July 30, Lawrence Workforce Center Staff and Partners, August 14, Manhattan Workforce Center Staff and Partners, August 14, Junction City Workforce Center Staff and Partners, August 28, Atchison Workforce Center Staff and Partners, September 3,Topeka Workforce Center Staff and Partners.

Deterding, Cheryl, “Components of an Accessible Workstation,” State Workforce Center Managers, One-Stop Operators, Agencies that serve job seekers with disabilities, May 25.

Grant Activity:
Ready and Able: Enhancing the Ability of the One-Stops to Serve Individual with Disabilities Department of Labor Grant

Ready and Able: Enhancing the Ability of the One-Stops to Serve Individuals with Disabilities .3 FTE on Department of Labor Grant

Winnie Dunn, Ph.D., OTR, FAOTA, Professor and Chair

Publications:


**Presentations:**
- Visiting Professor in Australia: University of Sydney
  - Graduate course on interdisciplinary theory
  - Graduate course on service provision issues
  - 4 continuing education courses on sensory processing


Dunn, W. Moderator for group research presentation on sensory processing and participation, national AOTA conference, May 2003.


Dunn, W., “I have my scores, now what do I do?” Infant Toddler services of Philadelphia, May 2004.


Grant Activity:
Health Resources and Services Administration, Bureau of Health Professions (BHPr) Allied Health Projects Grant Program $170,000 per year 3 years.

Mary Pat Gilbert, M.S., O.T.R., Clinical Instructor

Presentation:

Katherine F. Grobe, Ph.D., Assistant Professor

Publications:


Presentations


Froehlich-Grobe, K., “Issues related to promoting health and physical activity among people with disabilities,” Preventive Medicine Department at the University of Kansas Medical Center; Kansas City, KS, March 2003.
Froehlich-Grobe, K., “Promoting health among people with disabilities,” Physical Therapy Education Department at the University of Kansas Medical Center, Kansas City, KS, February 2003.


**Grant Activity**

Understanding health and wellness needs and investigating communication networks of people with disabilities from ethnic and racial minorities
2001-2005 (PI)
Subcontract from the Research and Training Center and the Schiefelbush Life Span Institute at the University of Kansas, National Institute of Disability and Rehabilitation Research, $150,000

Health care status and utilization patterns of MediKan enrollees
August 2004-June 2005 (Co-I)
Kansas Department of Social and Rehabilitation Services, $20,871

Developing an action plan to improve the quality and quantity of data about paralysis
October 2004-October 2005 (Co-I)
Christopher Reeve Paralysis Foundation, $192,395

Development of a Disability-Related Stress Scale
2005-1006 (Co-PI)
University of Kansas Medical Center, $34,967

**Wendy Hildenbrand, M.P.H., O.T.R./L., Clinical Instructor**

**Publications:**


**Presentations:**


Hildenbrand, W., “Mental Health Practice and OTA Options,” Guest lecturer at Penn Valley Community College, 6 November 2002.
Hildenbrand, W., “Psychosocial and Behavioral Disorders in Children,” Guest lecturer at Rockhurst University, 14 October 2002.


Hildenbrand, W., “Psychosocial and Behavioral Disorders in Children,” Guest lecturer to Occupation Therapy students at Rockhurst University, 3 November 2003; 18 October 2004.

Hildenbrand, W., Occupational Therapy Legislative Issues; Area Rehabilitation Management Group, 11 November 2003.


Grant Activity:
Effects of Inclusive Class Membership on Peers Without Disabilities: Study 1: Analysis of Inclusive School Contexts and Practices
Research Site Coordinator
OERI grant/subcontract – (complete)

Continuing through 6/04 (Research Site Coordinator)
OERI grant/subcontract

Effects of Inclusive Class Membership on Peers Without Disabilities: Learning Opportunities and Outcomes Studies
(Research Site Coordinator)
OERI grant/subcontract

Community Health Project
Beginning 4/03 through 06/08 (Co-PI and Faculty Advisor)
Grant housed in Department of Internal Medicine
Kansas Health Foundation

Deena Khosh, Ph.D., Research Assistant Professor

Publications:


Presentation:
Grant Activity:
Naturopathic Approaches to Diabetes in Native Approaches at Haskell Indian University
2003-2004 (Co-I)
Funding source-private

Antioxidant effects on Treatment of Ovarian Cancer
2002 to current (Co-I)
Cancer Research Treatment Foundation

Tact Trial – Trial to assess chelation therapy
2003 to current (Co-I)
NIH

Glutathione in Treatment of ALS
2003-2004 (Co-I)
Funding source-private

Joan McDowd, Ph.D., Associate Professor

Publications:


Presentations:


**Grant Activity:**
Tracking older adults’ eye movements during reading  
10/02 – 9/06 (Co-I)  
NIH/National Institute on Aging

**Ellen Mellard, M.S., O.T.R., Clinical Instructor**

**Presentations:**
Mellard, Ellen, “Sensory Processing,” Kansas Division of Early Childhood in Wichita, KS in March.

Mellard, Ellen, Provided a case study presentation via ITV (5 sites) for OT’s and other team members in tiny-k programs across the state

Mellard, Ellen, Provided a one day workshop on teaming to early childhood team members from across the state as part of the KITS Summer Institute in Wichita, KS

**Grant Activity:**
Infant Toddler Technical Assistance Project  
July 1-June 30 2002 (Coordinated activities)  
Kansas Dept. of Health and Environment, $56,000

Occupational Therapy Infant Toddler Technical Assistance Project  
(Project Coordinator)  
Kansas Department of Health and Environment, $45,000

**Kathy Parker, M.S., O.T.R., Clinical Instructor**

**Publications:**

**Presentations:**
Parker, Kathy, “Accommodating Adults with Disabilities in Adult Education Programs,” Adult Education Summer Institute, Manhattan, KS, 16 July 2002.

Parker, Kathy, “Presentation of “cost-effective advocacy methods and access to generic community services” National Advisory Board of the Research and Training Center on Full Participation in Independent Living, 26 October 2002.


Occupational Therapy on the Transition Team, 7/24/03, new transition staff in Kansas.

**Jeff Radel, Ph.D., Associate Professor**

**Publications:**


Presentations:


Radel, Jeff, “Dietary Access to Fatty Acids during Early Development Influences Mature Brain Function in Rats,” Maternal and Infant LCPUFA Workshop, held in conjunction with the annual American Oil Chemist’s Society meeting, 3-4 May 2003.

Radel, Jeff, “Effects of Developmental DHA Deficiency and Remediation upon Evoked Brain Activity at Maturity in Rats,” Radel, J.D., B. Levant, K. McCarter and S.E. Carlson. Program


Radel, Jeff, “Neuroscience Principles and Neurorehabilitation,” Continuing education workshops in Cincinnati, Cleveland, and Columbus, OH, Little Rock, AK, Minneapolis, MN, Omaha, NE, and Phoenix, AZ.

Radel, Jeff, “Making Effective Presentations in Scientific Settings,” invited lecture delivered by interactive television to 75 medical students at the Sophie Davis Medical School, City University of New York.


Grant Activity:
Tracking Older Adult’s Eye Movements while reading
5 years (Co-I)
National Institute Aging 10/02-09/06 ($425,000)

Influence of Altered DHA Level on Mature Brain Function
3/03 – 3/04 (PI)
KUMC Research Institute. Lied Basic Science grant, $35,000

Factors influencing severity of proliferative retinopathy in animal models
(PI)
Kansas Lion’s Sight Research Foundation grant 04/04 – 03/05 ($21,799)

Melisa Rempfer, Ph.D., Assistant Professor

Publications:


**Presentations:**


**Grant Activity:**

Dynamic assessment of cognition in schizophrenia.

2003-2005 (Co-I)

National Institute of Mental Health (R03 MH068601), $147,000 total costs
Lorie Richards, Ph.D., Clinical Assistant Professor

Publications:


Presentations:


Grant Activity:
Perceived needs of caregivers of older adults: Cultural influences
June Belt & Lorie Richards
Kansas Sunflower Foundation

Kansas Claude C. Pepper Older Americans Independence Center
1/97 – 5/03 (Co-investigator on two demonstration projects)

Effects of fatigue and load carriage on the soldier’s performance of time critical tasks
7/02 – 5/03 (Co-I)
Department of Defense

Mary Jane Youngstrom, M.S., O.T.R., F.A.O.T.A., Clinical Instructor

Publications:


Presentations:


Youngstrom, Mary Jane, “The Occupational Therapy Practice Framework: Framing and naming who we are and what we do,” Keynote presentation at Ohio Fall OT Conference, Akron, OH, 26 September 2003.


DEPARTMENT OF PHYSICAL THERAPY AND REHABILITATIVE SCIENCES
3056 Robinson Building
588-1587

Lara Boyd, PT, Ph.D., Assistant Professor

Publications:


Presentations:


Boyd, L., “Compensatory Brain Activation after Stroke,” University of Utah, Salt Lake City, UT, 2004


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**Denise Gobert, Ph.D.**

**Publications:**


**Presentations:**


Gobert, D., “Vestibular Rehabilitation Techniques used for Evaluation & Treatment by the Rehabilitation Specialist,” Kansas City VA Medical Center, October 2003.


Grant Activity:
Response of Chronic Stroke Survivors to Aerobic & Balance Training
2003 – 2005 (PI)
American Heart Association, $121,000

Investigating Visual-Vestibular Function in Patients Post an Acoustic Neuroma Resection
2002-04 (PI)
School of Allied Health, KUMC, $10,000

Vestibulo-Ocular Function in Person with Central Scotomas
2002-04 (PI)
Kansas Lions Sight Foundation, $10,000

Stroke Wellness & Fitness Program
2002-2004 (PI)
American Stroke Foundation, $67,000

Equipment Sponsorship in support of program
2003 – 2004
Theraband, Inc. $1,960

Patricia Kluding, PT, Ph.D., Assistant Professor

Publications:


**Presentations:**


Kluding P. “Sit-to-Stand Ability Following Ankle Joint Mobilizations in Patients with Hemiplegia” Platform Presentation, KPTA Spring Conference, 4 March 2004.

**Grant Activity:**

- Functional Changes Following Ankle Joint Mobilizations in Subjects with Hemiplegia 2004-2005 (PI)
- KUMC SAH Research Committee, $10000.

**Wen Liu, Ph.D., Assistant Professor**

**Publications:**


**Presentations:**


Grant Activity:

- Quantified torsional strength training for management of idiopathic scoliosis
  09/02-06/04 (PI)
  Scoliosis Research Foundation, direct cost $84,095

- Sensory-enhanced motor training for paretic arm/hand
  01/03-12/04 (PI)
  National Institute of Health (NIH), NINDS (R21 NS043331-01 A1), direct cost $237,500

- Electro-acupuncture and strengthening exercise for hemiplegic elbow and wrist joints
  04/03-06/04 (PI)
  Clinical Pilot Award, Research Institute of University of Kansas Medical Center, direct cost $25,000

- Development of a robot-aided motor training with enhanced sensory inputs for stroke rehabilitation
  07/03-07/06 (PI)
  National Science Foundation (NSF), Division of Bioengineering & Environ Systems (BES-0302466), direct cost $326,598
Janice Loudon, Ph.D., Associate Professor

Publications:


Presentations:


Loudon, J., “The Young Athlete’s Knee” Children’s Mercy Hospital, Kansas City, MO, Fall 2003.

Grant Activity:
- Vibration, Proprioception, and Low Back Stability
  NIH, HHS-NIOSH, $70,355

- Lumbar Spine Proprioception and Low Back Stability
  2003-2006
  Whitaker Foundation, $239,700

- Comparison of two stretching techniques for treatment of plantar fasciitis
  Funded by JAS agency, $1,250

Patricia Pohl, Ph.D., Associate Professor

Publications:


**Presentations:**

Pohl, P., Research poster at Combined Section Meeting (CSM) of APTA. February 2004.


Pohl, P., “Procedural learning using the hand ipsilateral to stroke-related brain damage.”


**Irina V. Smirnova, M.S., Ph.D., Assistant Professor**

**Publications:**


Presentations:


Burns, D.M., Stehno-Bittel, L., Smirnova, I.V. & Kawase, T. “CGRP neuropeptide regulates the function of immature osteoblastic human MG63 cells through complex intracellular signaling initiated by a type-I CGRP receptor,” KUMC Faculty Research Day, 6 November 2003.


Grant Activity:
Can a drug replace exercise to improve the diabetic heart?
01/01/04-12/31/07 (PI)
Scientist Development Grant, American Heart Association, National, $236,364 direct costs, $260,000 total costs

SABIT training grant
09/01/04-08/31/05 (PI)
US Department of Commerce, $13,700 direct costs

Can drugs replace exercise?
Pilot grant
03/01/03-08/31/04 (PI)
Lied Endowed Basic Science Research Fund, $35,000 direct costs

2004 Shared Research Equipment Award to purchase small animal calorimeter Eco-Oxymax
12/01/03-06/30/04 (PI)
KUMC Research Institute, $15,000 direct costs
2004 Shared Research Equipment Award to purchase equipment for Magnetic Resonance Imaging of research animals
12/01/03-06/30/04 (Co-I)
KUMC Research Institute, $25,000 direct costs

Mechanisms of fibrosis in diabetic heart and influence of exercise Pilot grant
02/01/02-07/31/03 (PI)
Lied Endowed Basic Science Research Fund, $35,000 direct costs

Evaluation of the effects of long-acting anesthetics on wound healing
12/19/01-12/18/02 (Co-I)
Research grant
Pharmaceutical Company, $29,366 direct costs, $44,049 total costs

Proposal to train intern from the former Soviet Union
Training grant
05/01/01-04/30/02 (Co-I)
US Department of Commerce, SABIT, $9,545 direct costs

Lisa Stehno-Bittel, Ph.D., Associate Professor and Chairperson

Publications:


Searls, Y., Loganathan, R., Smirnova, I.V. & Stehno-Bittel, L. (2004). Intracellular calcium regulating proteins in vascular smooth muscle cells are altered by hyperglycemia. (S)

Presentations:


Grant Activity:

Impact of exercise on Parkinson’s Disease Therapy
2003 – 2008
NIH, R01, $1,472,000 total direct cost

Calcium Regulates Nuclear Pore Structure/Function
1999 – 2005 (PI)
NIH, R01, $1,365,295 total direct cost

Mechanism and Therapy of SHIV Encephalitis in Macaques
2003-2007, $1,597,000 total direct cost

Islet transplantation for type 1 diabetes
2003 – 2005 (Co-PI)
Hall Foundation, $497,000 total direct cost

Biomedical Engineering – Research Experience for Undergraduates
2002 – 2005 (Co-I)
NSF Training Grant, $231,755 total direct costs

Arterial connective tissue and diabetes
2004 – 2007 (Mentor)
NIH, $78,000 total direct cost

Electrophysiology of Hearing Loss
2001-2004 (PI)
Hall Foundation, $100,000 total direct cost

Real-time palpation imaging for improved detection and discrimination of breast abnormalities
2000 – 2003 (Co-I)
Department of Defense, $440,718 total direct cost
Marcie Swift, M.S., P.T., FAAOMPT, Clinical Instructor

Presentations:


Grant Activity:

Lumbar spine proprioception and low back stability
09/01/2003-08/31/2005 (Co-PI)
Whitaker Foundation, $72,836
Carol G. Elliott, CRNA, MPA, Assistant Professor and Chairman, Nurse Anesthesia Education

Publications:

Presentations:
Elliot, C., “Psychometric Testing of the NDNQI Adapted Index of Work Satisfaction Scale,” Poster Presentation, Midwest Nursing Research Society, Annual Research Conference, Grand Rapids, MI.


Elliot, C., “A Program Director’s Worst Nightmare,” American Association of Nurse Anesthetists, Annual Meeting, Seattle, WA.

Caryl Goodyear-Bruch, CCRN, MSN, Assistant Clinical Professor, Nurse Anesthesia Education

Publications:


Presentations:

