Summary Research Statistics
(Jan 1, 2008 to Dec 31, 2008 for the entire duration of the grant)

Funding:

Total PI Grant Funding Held During 2008 = $8,855,589

Total Collaborative Grant Funding Held During 2008 = $14,306,197

Total Grant Funding = $22,280,299 (includes collaborative and PI)

Number of Grants (PI) = 42

Number of Grants (PI + Collaborative) = 77

Number of Grants Under Review at the end of 2008 = 21

Publications:

Peer Reviewed Published in 2008 = 53

“In Press” = 35

Graduate Student Enrollment:

(PT Supervisors)

M.Sc Students = 7

Ph.D Students = 13

Post-Doctoral Fellows = 5

Investigator Awards:

Dr. Janice Eng, Senior Scholar Michael Smith Foundation for Health Research, CIHR Career Scientist

Dr. Teresa Liu Ambrose, Scholar, Michael Smith Foundation for Health Research

Dr. Lara Boyd, Canada Research Chair, Scholar, Michael Smith Foundation for Health Research

Dr. Linda Li CIHR New Investigator

Endowed Chair:

Dr. Linda Li, Harold Robinson-Arthritis Society Chair in Arthritis Diseases
CURRENT PHYSICAL THERAPY FACULTY RESEARCH

Arthritis Health Services Research and Knowledge Translation
Faculty: Dr. Linda Li, lli@arthritiscare.ca
Dr. Li’s research program is located at the Arthritis Research Centre of Canada (ARC). Affiliated with UBC and VCHRI, ARC conducts consumer driven clinical research and trials related to arthritis diagnosis, prognosis, prevention, care outcomes and quality of life issues. Dr. Li is also an affiliated New Investigator at the CIHR-funded Knowledge Translation ICEBeRG (Improved Clinical Effectiveness through Behavioural Research Group), led by Dr. Jeremy Grimshaw. Dr. Li’s research focuses on two areas: development of cost-effective health service delivery models for arthritis care, and the development and evaluation of knowledge translation strategies. The main goal of her work is to improve the care and quality of life of people living with arthritis.

Brain Behavior Laboratory
Faculty: Dr. Lara Boyd, lara.boyd@ubc.ca
The Brain Behavior Laboratory, led by Dr. Lara Boyd is located in Department of Physical Therapy, on the third floor of UBC Hospital. The Brain Behavior Laboratory examines the relationships between brain function and behavior after central nervous system damage from stroke. The Lab integrates two fields of study: the neurobiology of motor learning and the neural science of stroke recovery, in order to understand how best to stimulate neural plasticity to facilitate motor learning and recovery of function after stroke or other forms of acquired brain injury. Ultimately, the goal of this work is to understand how the stroke-damaged brain learns in order to inform rehabilitation interventions.

Older Adult Fall Prevention and Rehabilitation Program
Faculty: Dr. Teresa Liu-Ambrose, teresa.ambrose@ubc.ca
Dr. Liu-Ambrose is a member of the UBC Brain Research Centre and a principal investigator of the CFI-funded Centre for Hip Health, located on the 3rd floor of the Willow Chest Centre at VCHRI. The Centre brings together researchers from a wide range of disciplines to investigate and treat persons with hip fractures and osteoarthritis, and create new surgical solutions. Dr. Liu-Ambrose’s research program focuses on reducing the incidence of falls and fall-related fractures in older adults, using a transdisciplinary approach, and collaborates with experts in psychology, neuro-imaging, geriatrics, kinesiology and health care and epidemiology.

Educational Research
Faculty: Lesley Bainbridge, lesleyb@interchange.ubc.ca
Lesley Bainbridge is Director of Interprofessional Education in the Faculty of Medicine and Associate Principal of the College of Health Disciplines. Her office is located on the 4th floor of the Woodward Instructional Resources Centre (IRC) at UBC. Her research program is aimed primarily at understanding interprofessional education (IPE) and collaborative practice in health. Specific research initiatives include the testing of an interprofessional education model that enables integration of IPE into any curriculum using pain management as the pilot, examining the role of patient or community teachers in an IPE context, exploring the role of narrative to break down interprofessional barriers and examining the links between interprofessional collaboration and health human resource issues such as retention and recruitment.
CURRENT PHYSICAL THERAPY FACULTY RESEARCH

Health, Lifestyle and Cultural Diversity
Faculty: Dr. Elizabeth Dean, elizabeth.dean@ubc.ca
Dr. Dean has a primary interest in a paradigm of physical therapy practice that is consistent with global epidemiological indicators in the 21st century including the promotion of health, and the effectiveness of non invasive interventions (e.g., health education and exercise) vis a vis the prevention of lifestyle conditions, in some cases their cure as well as their management. Her research focuses on health and the global crisis of lifestyle conditions (heart disease, smoking-related conditions, cancer, hypertension and stroke, obesity, diabetes, an osteoporosis), their epidemiology and means of maximizing health outcomes secondary to health education and exercise in culturally diverse populations. She conducts research internationally including the Middle East and Asia as well as multicultural Canada. Currently she is focusing on knowledge translation of existing and new knowledge that promotes health and wellbeing, and the integration of this knowledge by physical therapists globally in their practices to address the health care needs of their countries in the 21st century at both the health policy and individual levels.

Exercise and Chronic Disease
Faculty: Dr. Kristin Campbell, kristin.campbell@ubc.ca
Dr. Campbell's research interests are focused on the role of physical activity in the prevention and rehabilitation of chronic disease, particularly cancer. She has investigated the role of physical activity in cancer prevention by examining the effect of exercise on proposed biomarkers of breast and colon cancer risk, such as sex hormones, inflammatory markers and tissue protein expression. In terms of rehabilitation from cancer treatment and cancer survivors, her research has focused on examining the benefits of physical activity on physical function, quality of life, fatigue and lymphedema, and is interested in starting to examine the emerging evidence for the role of physical activity in lowering risk of cancer recurrence. Her research spans a range from small scale intervention studies to multi-center randomized controlled trials and large cohort studies.

Rehabilitation Aimed at Muscle Performance & Muscle Biophysics Laboratory
Faculty: Dr. Darlene Reid, darlene.reid@ubc.ca
Dr. Donna MacIntyre, donna.macintyre@ubc.ca
The Muscle Biophysics Laboratory located on the 6th floor of the Research Pavilion at VCHRI, examines muscle performance using a variety of techniques including in vitro skinned fibre preparation and isolated vessel preparation to analyze immunohistochemical features of skeletal muscle. The Rehabilitation Aimed at Muscle Performance (RAMP) research team is exploring the dose-response of rehabilitative exercise protocols in the elderly with chronic disease(s) across the spectrum from molecular to clinical studies. The team is a core group of clinical and basic scientists with established collaborative links to the Orthopedics, Geriatrics, Human Kinetics, Sports Medicine and Respiratory Medicine at Vancouver Coastal Health and UBC.
CURRENT PHYSICAL THERAPY FACULTY RESEARCH

Neurological Rehabilitation
Faculty: Dr. Janice Eng, janice.eng@vch.ca
Dr. Eng’s program is located in the Rehabilitation Research Laboratory (GF Strong Rehab Centre, Vancouver Coastal Health). This Laboratory serves as a multi-user, interdisciplinary facility dedicated to excellence in rehabilitation research. Dr. Eng’s clinical trials have measured the effects of rehabilitation treatments on mobility, arm and hand function, cardiovascular fitness, balance, falls, bone density and quality of life in people with stroke and spinal cord injury. She works closely with clinicians, Canada Stroke Network, International Collaboration on Repair Discoveries (spinal cord research centre) and the Brain Research Centre to develop collaborative research projects which span mechanistic research, clinical trials to best practice implementation.

UPCOMING PHYSICAL THERAPY FACULTY RESEARCH

Neural Control of Force Production and Movement
Faculty: Dr. Jayne Garland will be starting in the Department July 2009
Dr. Garland will maintain a very active research laboratory on top of her duties a department chair. Her research has two main foci: neural control of force production and movement, particularly under conditions of muscle fatigue; and recovery of motor control following stroke, with emphasis on postural control. She employs sophisticated single motor unit analysis to investigate fundamental motor control principles as well as force platform technology to measure postural sway.

Biomechanics of Pathological Joints
Faculty: Dr. Michael Hunt will be starting in the Department September 2009
Dr. Hunt’s research focus is in the area of clinical biomechanics with a particular emphasis on knee injuries. His previous work has examined the effectiveness of surgical and exercise interventions on knee biomechanics and quality of life in patients with knee osteoarthritis. He typically uses various testing methods for his research, including motion analysis and strength assessment, he plans evaluate and implement the use of visual feedback mechanisms to improve gait retraining strategies for patients with varying pathologies. His clinical and teaching interests lie in the areas of clinical and orthopaedic biomechanics as well as musculoskeletal injuries.