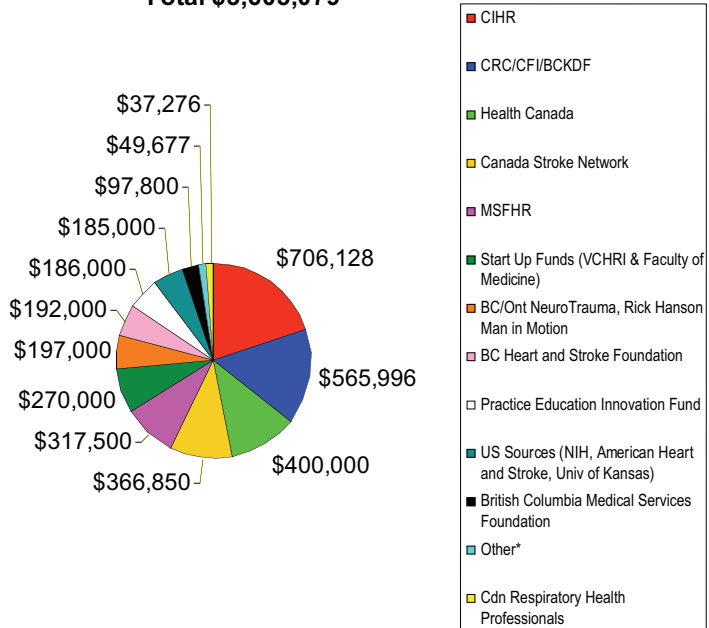


Physical Therapy UBC

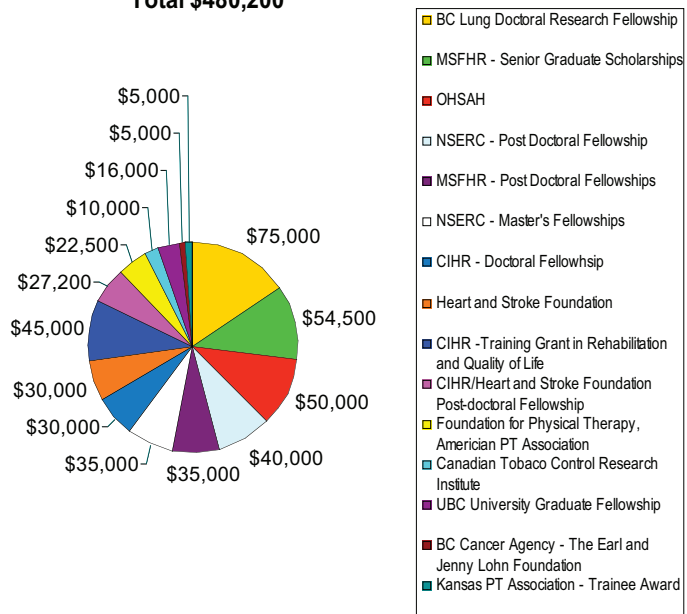
RESEARCH SUMMARY HIGHLIGHTS

Sources of PI Grant Funding Held in 2007
Total \$3,605,079



*A combination of grants ~ \$10,000 or less from the following agencies: BC Lung Association; Canadian Breast Cancer Research Alliance; Teaching & Learning Enhancement Fund; Hong Kong Polytechnical University; Arthritis Health Professional Association; Health Research Office (HeRRO).

Sources of Graduate Student Funding 2007
Total \$480,200



SUMMARY RESEARCH STATISTICS

(JAN 1, 2007 – JAN 1, 2008)

Funding:

- Total PI Grant Funding Held During 2007 = \$3,605,079
- Total Collaborative Grant Funding Held During 2007 = \$6,352,563
- Total Grant Funding = \$14,362,455 (includes collaborative and PI for the entire duration of the grant)
- Number of Grants Funded (PI) = 49
- Number of Grants Funded (PI + Collaborative) = 77
- Number of Grants Currently Under Review = 31

Publications:

- Peer Reviewed Published in 2006 = 40
- "In Press" = 7

Graduate Student Enrollment (PT Supervisor)

- M.Sc Students = 7
- Ph.D Students = 13
- Post-doctoral Fellows = 1

Career 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 in Neurobiology of Motor Learning

Endowed Chair:

- Dr. Linda Li, Harold Robinson – Arthritis Society Chair in Arthritic Diseases

M.Sc and Ph.D Supervisors

Rehabilitation Research Graduate Program • www.rehab.ubc.ca

The Department of Physical Therapy at UBC has a strong and vibrant research environment. Several unique programs and research laboratories are currently led by our faculty members. Our research programs are well integrated with several of the world class research facilities established here in BC including: the Vancouver Coastal Health Research Institute; the Arthritis Research Centre (ARC); the Brain Research Centre; the Centre for Hip Health and MSK Research; and the International Collaboration on Repair Discoveries (ICORD).

CURRENT PT FACULTY RESEARCH

Arthritis Health Services Research and Knowledge Translation

Faculty: Dr. Linda Li, lli@arthritisresearch.ca

Dr. Li's research program is located at the Arthritis Research Centre (ARC) of Canada. 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 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

Dr. Janice Eng, janice.eng@vch.ca

The Brain Behavior Laboratory, led by Dr. Lara Boyd is located in the 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

Cultural Diversity and Health

Faculty: Dr. Elizabeth Dean, elizabeth.dean@ubc.ca

Dr. Dean's research focuses on the global crisis of lifestyle conditions (heart disease, smoking-related conditions, cancer, hypertension and stroke, obesity, diabetes, and osteoporosis) – their epidemiology and cross cultural means of maximizing outcomes of health education and interventions. She conducts research in the Middle East and Asia as well as multicultural Canada. Currently, she is focusing on effective knowledge translation of existing and new knowledge by physical therapists to meet the health care needs of people globally in the 21st century.

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.

Pediatric Neurology

Faculty: Dr. Susan R. Harris, susan.harris@ubc.ca

Dr. Harris' research is in the field of developmental disabilities, particularly around the early identification of cerebral palsy and evaluation of the effectiveness of therapeutic interventions for high-risk infants and children with motor handicaps. This work takes place primarily in community settings (i.e., in schools, child development centres and in the homes of children and their families). Dr. Harris is also involved in research that explores the use and effectiveness of exercise in rehabilitation of women living with breast cancer and in communication between cancer patients and their health care providers, in collaboration with researchers from nursing and oncology.

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 Orthopedics, Geriatrics, Human Kinetics, Sports Medicine and Respiratory Medicine at Vancouver Coastal Health and UBC.

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.