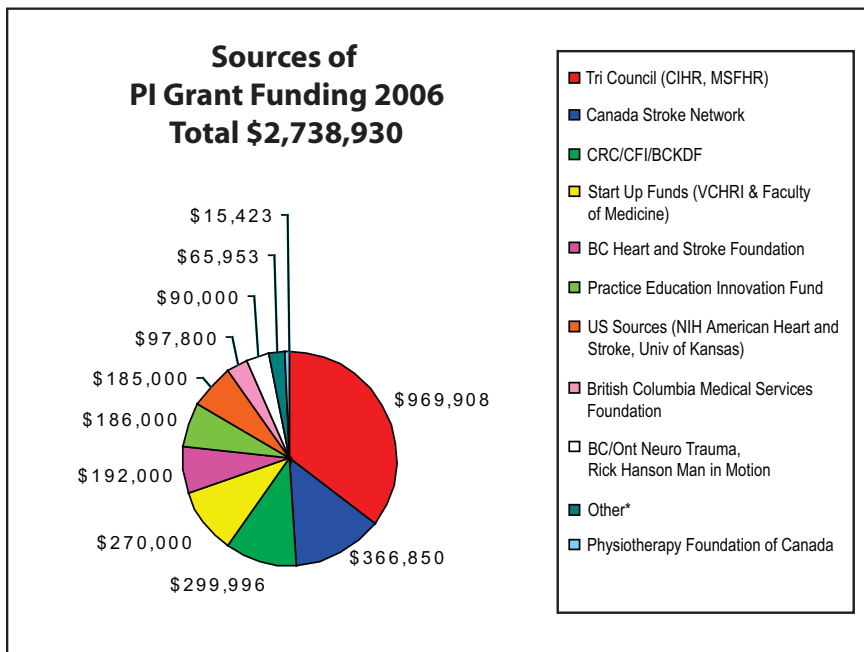


Physical Therapy UBC

RESEARCH SUMMARY HIGHLIGHTS



*A combination of grants ~ \$10,000 from the following agencies: BC Lung Association; Canadian Respiratory Health Professional Association; Canadian Breast Cancer Research Alliance; Disability Health Research Network; Arthritis Health Professional Association; Teaching & Learning Enhancement Fund; Hong Kong Polytechnical University

SUMMARY RESEARCH STATISTICS

(JAN 1, 2006 – JAN 31, 2007)

Funding:

- Total PI Grant Funding in 2006 = \$ 2,738,940
- Total Collaborative Grant Funding in 2006 = \$7,336, 458
- Total Grant Funding (PI + Collaborative over the tenure of the grant) = \$14,004,668
- Number of Grants Funded (PI) = 38
- Number of Grants Funded (PI + Collaborative) = 64
- Number of Grants Under Review = 18
- Number of Grants In Progress = 9

Publications:

- Peer Reviewed Published in 2006 = 40
- "In Press" = 25

Graduate Student Enrollment (PT Supervisor)

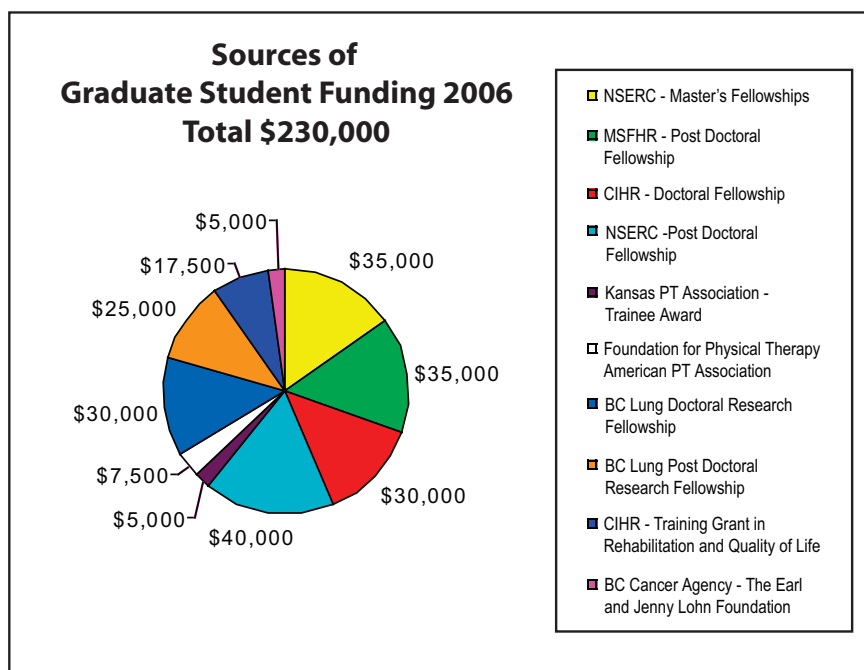
- M.Sc Students = 15
- Ph.D Students = 8
- Post-doctoral Fellows = 2

Career Investigator Awards:

- Dr. Janice Eng, Michael Smith Foundation Scholar, CIHR Career Scientist
- Dr. Teresa Liu Ambrose, Michael Smith Foundation Scholar
- 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 Division of Physical Therapy at UBC has a strong and vibrant research environment. Our research programs are well integrated with several of the worldclass research facilities established here in BC including: the Vancouver Coastal Health Research Institute (VCHRI), the Arthritis Research Centre (ARC); the Brain Research Centre; the Centre for Hip Health & 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 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*

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

The Brain Behavior Laboratory, led by Dr. Lara Boyd, is located in the School of Rehabilitation Sciences on the 3rd 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 the 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 & 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 the 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 Orthopedic Trauma Team, Geriatric Medicine, Sports Medicine and Respiratory Medicine at Vancouver General Hospital and UBC.

Rehabilitation Research Lab at G.F. Strong

Faculty: *Dr. Janice Eng, Dr. Donna MacIntyre, Dr. Lara Boyd,*

Dr. Bill Miller, Dr. Tal Jarus, Dr. Armin Curt

The Rehabilitation Research Laboratory, led by Dr. Janice Eng, serves as a multi-user, interdisciplinary core facility dedicated to excellence in rehabilitation research. It is located at GF Strong Rehab Centre and is part of the Vancouver Coastal Health Authority. Dr. Eng studies the effect of neurological impairments and their rehabilitation treatments on human mobility, postural and locomotor control. Clinicians, faculty and graduate students access the Rehabilitation Research Lab for data collection and collaborative projects. Faculty members work closely with clinicians from Vancouver Coastal Health and the community, to develop collaborative research projects that bridge clinical practice and theoretical developments in rehabilitation.