Canadian Arthritis Network
International Partnership Initiative

International Research & Training Program
LABORATORY/CLINIC PROFILE

Contact information of the principal investigator

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Please indicate if you are member or affiliate of one or more of the following International Partnership Initiative organizations:

☐ AO Foundation – Biotechnology Advisory Board, Switzerland
☐ Arthritis Foundation, USA
☐ Arthritis Research Campaign, UK
☒ Canadian Arthritis Network, Canada
☐ Japan Society for the Promotion of Science, Japan
☐ Nuffield Foundation Oliver Bird Rheumatism Program, UK

International Research & Training Program Opportunity

Please indicate which of the following international opportunities would be available at your laboratory/clinic.

☒ Training Elective Rotation
☒ Research Mini-sabbatical
☒ Industry Training Rotation

The International Research & Training Program will be available for trainee elective rotations and investigator mini-sabbaticals that commence on or before March 31, 2009. If you have any preferences regarding the dates when you can host an international trainee or investigator, please indicate this below.

Visit Length (please indicate start and end dates if known):	To be discussed

Please provide ten key words and a brief description of the research currently being conducted in your laboratory/clinic, including descriptions of any specialized equipment, methods or technologies employed at your facility.

10 key words

1. Clinical epidemiology
2. Health services/Models of care
3. Biostatistics
4. Knowledge translation
5. Cost studies
6. Quality of life
7. Pharmacology
8. Rheumatology
9. Orthopaedics
10. Rehabilitation sciences

Brief description (up to ½ page)

This centre focuses on clinical epidemiological and health services research, including health economic studies of arthritis, especially rheumatoid arthritis, seronegative arthritis and osteoarthritis. Examples of individual faculty interests include the psychosocial impact of rheumatoid arthritis (e.g. employment and work disability issues, parenting, and social support), risk factor analysis, and development of new measurement tools. There are close links to biomechanical engineering through the centre's participation in the Centre for Hip Health. The diverse scientific backgrounds of the faculty explain the highly collaborative research conducted at the centre. We are committed to "practical research for everyday living". To that end, the centre has appointed a Consumer Advisory Board, which collaborates actively on many studies, offering our scientists valuable insight into consumer needs and perspectives. For additional information on the Centre's faculty and activities, please see www.arthritisresearch.ca.

Key publications (maximum 5 publications)

1. Mathur S, MacIntyre DL, Forster BB, Reid WD. Influence of exercise-induced injury on knee extension torque in the presence of longstanding quadriceps atrophy: Case report. Physiother Can 2006;57(4):305-313.
2. MacIntyre DL, Eng JJ, Allen TJ. Recovery of lower limb function following six weeks of non-weight bearing. Acta Astronautica 2005;56:792-800.

3. Mathur S, Eng JJ, MacIntyre DL. Reliability of surface EMG during sustained contractions of the quadriceps. J Electromyogr Kinesiol 2005;15:102-110.
4. Allen TJ, Dumont TL, MacIntyre DL. Exercise-induced muscle damage & adaptation – Mechanisms, Adaptation and Treatment. Physiother Can 2004;56(2):67-79.
5. MacIntyreDL, Sorichter S, Berg A, Mair J, McKenzie DC. Markers of inflammation and myofibrillar proteins following eccentric exercise. Eur J Appl Physiol 2001;84:180-186.