Brock

Faculty of Applied Health Sciences
Research & Graduate Studies

Brock University
Niagara Region
500 Glenridge Ave.
St. Catharines, ON
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May 2011

A Catalogue of complete MSc Thesis Topics

NAME	SUPERVISOR	THESIS TITLE
Nadia Akseer	Jason Liu	Examining the Potential of Childhood Stature in Assessing Adolescent Overweight and Obesity
Ana Maria Antolic	B. Roy	The Effect of Extracellular Osmolality on Cell Volume and Resting Skeletal Muscle Metabolism
Sally Baerg	Brent Faught	Physical Activity of Children with Developmental Coordination Disorder in the Presence of Attention Deficit Hyperactivity Disorder: Does Gender Matter?
Alayna Banach	Debbie O'Leary Brent Faught	The Association between Body Composition and Arterial Stiffness in Peri-Pubescent Children
Brandon Batey	Deborah O'Leary / Michael J. Plyley	Health-related Quality of Life among Patients attending Cardiovascular Rehabilitation
Kent Bigrigg	Sandra Peters	Carbohydrate refeeding rapidly reverses the adaptive upregulation of human skeletal muscle pyruvate dehydrogenase kinase following a high fat diet.
Ryan Boyd	Hui Di Wang	Expression and Function of Endothelin and its Receptors in Vascular Adventitial Fibroblasts
Nicolette Bradley	Sandra Peters	The Acute Effect of Differential Fatty Acids on PDHa Activity in Human Skeletal Muscle at the Onset of Exercise
Sarah Braid	Bareket Falk	Bone Properties and Skeletal Maturity in Adolescent Males, as Assessed by Quantitative Ultrasound
Danna Breen	L. Tsiani	Biological Effects of Resveratrol on Skeletal Muscle Cells
Darren Brenner	Martin Tammemagi	Long Term Survival of Axillary Node Negative Breast Cancer Patients: The Role of Molecular, Clinical and Socioeconomic Factors in Breast Cancer and Non-Breast Cancer Specific Survival
Kristina Calder	David Gabriel	Training Distribution and the Acquisition of Maximal Isometric Elbow Flexion Strength
Michael Carter	Jae Patterson	Effects of age on learning a spatial motor task in younger and older adults individualizing their knowledge of results (KR) Schedule
Naomi Cermak	Brian Roy	The Influence of Skeletal Muscle Cell Volume on Carbohydrate Metabolism in Contracting Skeletal Muscle
Alexander Chapman	Hui Di Wang	Mechanism of Endothelin-1 Induced Reactive Oxygen Species Production in Vascular Adventitial Fibroblasts

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Daniele Chirico	Deb O'Leary	Ventricular Structure and Function in Children with Developmental Coordination Disorder
Anita Christie	David Gabriel	Reliability of a New Measure of Motoneuron Excitability
Thomas Cieslak	Nota Klentrou	Relationship Between Physical Activity and Resting Secretory Immunity in Children
Rotem Cohen	Bareket Falk	Neuromuscular Adaptations in Endurance-Trained Boys and Men
Lauren Corbett	Nota Klentrou	Stress and Immunity in Overweight and Obese versus Normal Weight Early and Late Pubertal Females.
Lisa Cotie	David Ditor	The Validation of Heart Rate Variability in Individuals with Spinal Cord Injury
Nicole Coverdale	Deb O'Leary	Baroreflex Sensitivity and Developmental Coordination Disorder
Melora Cuncliffe	Nota Klentrou	Menstrual Status and Thermoregulatory Responses During Exercise in the Cold in Active Female Adolescents
Wayne DeRuiter	Brent Faught	Evaluation of a Stage II Screening Protocol for Prostate Cancer
Natalie Dies	Stephen Cheung	The Effects of the Menstrual Cycle and Hormonal Contraceptives on Central Thermoeffector Threshold Temperatures and the Width of the Interthreshold Zone
Gioia DiGiovanni	Nota Klentrou	Effects of Dietary Restraint and Oral Contraceptives on Bone Strength and Bone Turnover in Young Women
Li Li Ding	H.D. Wang	The Roles of ERK1/2 and P13K in Abnormal Vascular Functions in Motors in Angiotensin II - Infused Rats
Angela Duarte	Ana Sanchez	Preliminary Epidemiological Study of Latent Tuberculosis in Mexican Agricultural Workers in the Niagara Region, Canada
Kristy Duncan	John Hay	Prevalence of Overweight and Obesity in Children from Urban and Rural Niagara
Emily Dunford	Sandra Peters	Pyruvate Dehydrogenase Activity in Response to Skeletal Muscle Contraction at Two Stimulation Frequencies in Pyruvate Dehydrogenase Kinase 2 Knockout Mice
Sandy Dupuis	Kelli-an Lawrance	The Impact of Tobacco Control Policies on University Students' Smoking in Ontario
Christopher Farlinger	Brian Roy	The Influence of Skeletal Muscle Cell Volume on the Regulation of Carbohydrate Uptake and Muscle Metabolism
Carla Feltrin	A. Sanchez	Enhancing Pneumonia Surveillance in Acute Care Facilities in Post-SARS Era: A Canadian Hospital Surveillance Study for 2003-2004 Influenza Season
Laura Fitzgibbon	Nota Klentrou / Deb O'Leary	Autonomic Regulation and Blood Pressure in Children
Andreas Flouris	Brent Faught	An International Investigation on the Validity of the CSAPPA Scale in Screening for Development

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		Coordination Disorder
Kelly Foster	John Hay	What Children Value: A Scale to Guide Health Promotions Programs
Mehrdad Ghassemi	C. Duval	The Impact of Drug-induced Dyskinesias on Rapid Alternating Movements in Patients with Parkinson's Disease
William Gittings	Rene Vandenboom	The Influence of Myosin Regulatory Light chain Phosphorylation on the Contractile Performance of Fatigued Mammalian Skeletal Muscle
Ruma Goswami	Debbie O'Leary	Does Altering Brachial Artery Tone with Lower-Body Negative Pressure and Flow-Mediated Dilation Affect Arterial Stiffness?
Samantha Hajna	Paul LeBlanc[0.5] [7] Jason Liu[0.5]	Role of Family Eating Practices on Daily Nutrient Intake, Dietary Patterns and Measures of Body Composition in Peri-Adolescents
Alana Harris	Maureen Connolly	Comparison of Strength Gains Over 13 and 26 Weeks of Resistance Training in Children
Rosemarie Harrison	Brian Roy	The Effect of Elevated Muscle Fluid Volume on Indices of Muscle Damage Following an Acute Bout of Eccentric Exercise
Daniel Harriss	Kelly Lockwood	The Effect of an Eight Session Skate Treadmill and Agility Training Program on the Degree of Separation in Ice Hockey Players
Geoffrey Hartley	Stephen Cheung	The Effect of Altered Heat Stress on Voluntary Pacing Strategies during Prolonged Cycling
Rob Hawes	Terry Wade	Migrations and Gradations: Reappraising the Health Profile of Immigrants to Canada
Brianna Holmes	Nota Klentrou	Relative Importance of Body Composition, Osteoporosis-Related Behaviours and Socioeconomic Status on Bone SOS in Adolescent Females
Jonathan Howard	Rene Vandenboom	Decreased Motor Unit Firing Rate in the Potentiated Tibialis Anterior in Humans
Jennifer Huffman	Allan Adkin	The Effect of Postural Threat on Cognitive Strategies used to Maintain Upright Stance
Divya Joshi	Jason Liu	Comparison of Non-HDL Cholesterol and Waist Circumference vs. Triglyceride Levels and Waist Circumference in Predicting Coronary Heart Disease Risk
Mamta Kadyan	Michael Plyley	The Capillary Supply of Human Skeletal Muscle in Health & Disease
Shane Kilburn	Stephen Cheung	The Reliability of an Isometric Test Based on Constant Perception of Effort
Briar Komenda	Kelly Lockwood	The Effect of Stickhandling and Puck Control (SPC) Training Intervention on SPC Skills and Wrist Shot Performance Variables in Female College Ice Hockey Players
Ben Leber	David Ditor	The Effects of an Acute Bout of Whole-Body Vibration on Pulse on Pulse Wave Velocity in Individuals with SCI

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Sarah Lemiuex	C. Duval	The Influence of Drug-induced Dyskinesia on Manuel Tracking in Parkinson's Disease
Sean Lenhardt	David Gabriel	The Surface Electromyography-Force Relationship During Isometric Dorsiflexion in Males and Females
Steven Lester	David Gabriel	Effects of Isometric Elbow Flexion on Electromyographic Spike Analysis
Kristina Livingstone	Nota Klentrou / Deb O'Leary	The Cardiovascular Hemodynamic Responses to Various Levels of Orthostatic Stress in Children
Alison Longo	Gail Frost	Active Isolated Stretching: An Investigation of the Mechanical Mechanisms
Lorenzo Love	Sandra Peters	Human Skeletal Muscle Pyruvate Dehydrogenase Phosphatase Activity and Expression: The Effect of Aerobic Capacity
Izabella Ludwa	Nota Klentrou	Bone SOS, Biochemical Markers of Bone Turnover and IGF-1 in Competitive Synchronized Swimmers
Laura MacPherson	Sandra Peters	Adaptations of Skeletal Muscle Pyruvate Dehydrogenase Kinase in Response to Food-restriction in Mitochondrial Subpopulations
Jennifer McInnis	John Hay	The Influence of Physical Activity Behaviour on the Relationship between Motor Proficiency and Body Composition in Children
Kyle McIntosh	David Gabriel	Reliability of Muscle Fiber Conduction Velocity in the Tibialis Anterior
Ronald Mergl	Ana Sanchez	Transmission of West Nile Virus in the Niagara Region Among a Population at Risk for Exposure
Timna Merion	Ana Sanchez	Vitamin D Status and Latent Tuberculosis Infection: A Preliminary Study in a Group of Healthy Mexican Agricultural Workers
Cameron Mitchell	Bareket Falk	Muscle Strength and Activation Characteristics of Power-Trained and Non-Athlete Boys and Men
Matthew Mulligan	Brian Roy	Glucose Dynamics in Rat Skeletal Muscle: Recovery from Osmotic Stress
Haiyan Pang	Ana Sanchez	Taenia solium Transmission in a Rural Community in Honduras: An Examination of Risk Factors and Knowledge
Erika Paton (Martens)	Allan Adkin	Attention Focus and Balance Control in Young and Older Adults.
Jose Peralta Hvertas	N. Klentrou	Determinants of Left Ventricular Mass as Measured by Doppler Echiocardiography in Pre-Adolescents
Nicholas Petrella	Brent Faught	Validation of an Ice-Skating Protocol to Predict Aerobic Power of Hockey Players
Aaron Phillips	Deb O'Leary	The Association between Blood Pressure and Vascular Characteristics in Children

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Goran Polesksic	Rene Vandenboom	The Influence of Recreational Ball Hockey Play on Cardiovascular Risk Factors in Sedentary Males
Jennifer Ptasinki	David Ditor	The Effects of Extremity Functional Electrically Stimulated (FES) Exercise Training on Upper Limb Function in Individuals with Tetraplegia
Matthew Ratsep	Huidi Wang	The Structural and Functional Changes of Blood Vessels during Aging
Elizabeth Sanli	Jae Patterson	An Examination of the Effects on Learning Seen in Children Afforded the Opportunity to Control the Order of Repetitions for Three Novel Spatiotemporal Sequences
Toran Sanli	Deb O'Leary	Attenuation of Skeletal Muscle FFA-Induced Insulin Resistance by the Polyphenol Resveratrol. Elucidation of the mechanisms involved.
Kimberley Sheehan	Michael Plyley	The Role of between Intrapartum Intravenous Therapy and Method of Delivery on Newborn Weight Loss - Challenging the 7% Rule
Adi Silman	Nota Klentrou / Brent Faught	The Role of Physical Activity and Perceived Adequacy on Cardiorespiratory Fitness in Children with Developmental Coordination Disorder
Jill Slack	Nota Klentrou	The Effect of a Weighted-vest Strength and Balance Training Program on Obstructed Walking in Postmenopausal Women
Ian Smith	Rene Vandenboom	Force Potentiation in the MDX Mouse
Julie Spurrell	Jamie Mandigo	A Comprehensive School Health Program, the Social Determinants of Health, and the Health Status of Children
Elizabeth Staples	Sandra Peters	The Effects of R(+)-Lipoic Acid Supplementation on Regulation of Human Skeletal Muscle Pyruvate Dehydrogenase
Leslie Stefanyk	Paul LeBlanc	Skeletal Muscle Fibre-Type Comparison of Whole Tissue and Subcellular Membrane Phospholipids and Fatty Acid
Cedomir Tosevski	Martin Tammemagi	The Relationship between Body Mass Index and Breast Cancer Recurrence/Progression and Breast Cancer-Specific Death
Joseph Tota	Martin Tammemagi	Decision Analysis of the Effectiveness of Lung Cancer Screening Using Autofluorscence Bronchoscopy and Computed Tomography
Heather Travis	Kelli-an Lawrance	Evaluating Three Self-help Smoking Cessation Interventions for Post-Secondary Students" A Randomized Controlled Trial on Six Ontario Campuses
Jennifer Wales	Gail Frost	3D Movement and Muscle Activity Patterns in a Violin Bowing Task
Andrew Winchester	K. Lockwood	Anaerobic Performance in Ice Hockey: The Effects of Skate Blade ROH
Carma-Lynn Wylie	Deb O'Leary / Terry Wade	Exploring the Relationship Between Ethnicity and hypertension in Canada

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Matthew Yao	Bareket Falk	Bone Speed of Sound in Overweight and Normal-Weight Girls and Adolescents
Katarzyna Zygmunt	Litsa Tsiani	Effects of Naringenin on Glucose Uptake in L6 Skeletal Muscle Cells