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## **Dr. Dwayne Jackson**

Correspondence language: English

Sex: Male

Date of Birth: 9/05

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

## **Contact Information**

The primary information is denoted by (\*)

### **Address**

#### Courier (\*)

The Vital Science Research Institute  
351 Pass of Melfort PI  
Ucluelet British Columbia V0R 3A0  
Canada

#### Primary Affiliation (\*)

The Vital Science Research Institute  
351 Pass of Melfort PI  
Ucluelet British Columbia V0R 3A0  
Canada

### **Telephone**

Work (\*)                      1-226-688-7249

### **Email**

Work (\*)                      dwayne.jackson@schulich.uwo.ca  
Work                              dwayne@yourvitalscience.com

### **Website**

Corporate                      www.jacksonlab.ca  
Corporate                      www.yourvitalscience.com  
Corporate                      www.microvessels.com

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## Dr. Dwayne Jackson

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### Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	No	No	Yes	No

### Degrees

2006/8 - 2007/9	Post-doctorate, Postdoctoral Fellow: Medical Biophysics, Microcirculation, University of Western Ontario Degree Status: Completed Supervisors: Dr. Christopher G. Ellis, 2006/7 -
2005/7 - 2006/7	Post-doctorate, Postdoctoral Fellow: Department of Cellular and Molecular Physiology, Microcirculation, Yale University Degree Status: Completed Supervisors: Dr. Steven S. Segal, 2005/6 -
2001/9 - 2005/6	Doctorate, Ph.D. Kinesiology Biosciences, Neurovascular Physiology, University of Western Ontario Degree Status: Completed Thesis Title: Gender and neuropeptide Y control of hindlimb vasculature Supervisors: Dr. J. Kevin Shoemaker, 2001/9 -
1998/9 - 2000/7	Master's Thesis, M.Sc. Human Kinetics - Masters, Cardiovascular and Thermoregulatory Physiology, University of Ottawa Degree Status: Completed Thesis Title: Baroreceptor influence on post-exercise warm thermal response thresholds Supervisors: Dr. Glen P. Kenny, 1998/9 -
1993/9 - 1997/5	Bachelor's Honours, B.Sc., Cardiovascular Physiology, University of Ottawa Degree Status: Completed Supervisors: Dr. James Thoden, 1993/9 -

### Recognitions

2018/1 - 2019/1	USC Teaching Honour Roll Award of Excellence (Canadian dollar) University of Western Ontario Distinction
2017/1 - 2018/1	USC Teaching Honour Roll Award of Excellence (Canadian dollar) Distinction

2016/1 - 2017/1	USC Teaching Honour Roll Award of Excellence (Canadian dollar) University of Western Ontario Distinction
2015/1 - 2016/1	USC Teaching Honour Roll Award of Excellence (Canadian dollar) University of Western Ontario Distinction
2013/5	Schulich Award of Excellence in Undergraduate Teaching University of Western Ontario Prize / Award Award for top undergraduate professor in the Schulich School of Medicine & Dentistry
2013/1 - 2014/1	USC Teaching Honour Roll Award of Excellence University of Western Ontario Distinction Teaching in Medical Biophysics
2010/1 - 2011/1	USC Teaching Honour Roll Award of Excellence - 0 University of Western Ontario Distinction UWO Student Council distinction given to professors who attain highest standing on teaching evaluations (above 6.2/7 on all metrics)
2010/1	Western Science Student Council Teaching Award Nominee - 0 University of Western Ontario Distinction Award given to the top undergraduate science Professor
2010/1	Marilyn Robinson Award for Teaching Excellence Nominee - 0 University of Western Ontario Distinction Highest award given to the top professor at The University of Western Ontario
2009/2	National Cancer Institute of Canada (NCIC) Young Investigator Travel Award National Cancer Institute of Canada (NCIC) Prize / Award Travel award for promising new investigators
2009/1 - 2010/1	USC Teaching Honour Roll Award of Excellence - 0 University of Western Ontario Distinction UWO Student Council distinction given to professors who attain highest standing on teaching evaluations (above 6.2/7 on all metrics)
2008/1	Schulich School of Medicine & Dentistry Caring Role Model - 0 University of Western Ontario Distinction Awarded to the top Professor acting as a role model
2007/1 - 2014/1	USC Teaching Honour Roll Award of Excellence University of Western Ontario Distinction UWO Student Council distinction given to professors who attain highest standing on teaching evaluations (above 6.2/7 on all metrics)

- 2007/1 - 2014/1 USC Teaching Honour Roll Award of Excellence  
University of Western Ontario  
Distinction  
UWO Student Council distinction given to professors who attain highest standing on teaching evaluations (above 6.2/7 on all metrics)
- 2005/9 NSERC Industrial Postdoctoral Fellowship (Declined)  
Natural Sciences and Engineering Research Council of Canada (NSERC)  
Prize / Award  
Postdoctoral Fellowship
- 2005/9 HSFC Postdoctoral Research Fellowship - 80,000 (Canadian dollar)  
Heart and Stroke Foundation of Canada  
Prize / Award  
Postdoctoral Fellowship
- 2005/4 IUPS Research Travel Award Winner - 1,500  
International Union of Physiological Sciences  
Prize / Award  
Travel award
- 2004/1 OEP Graduate Research Award Winner  
Ontario Exercise Physiology  
Prize / Award  
Awarded to top graduate research presentation in symposium
- 2003/9 - 2005/6 CIHR/HSFC Doctoral Research Award - 90,000  
Canadian Institutes of Health Research  
Prize / Award  
Doctoral Scholarship
- 2001/9 - 2005/6 Graduate Tuition Scholarship (Full Support)  
University of Western Ontario  
Prize / Award  
Tuition Scholarship
- 2001/9 - 2003/8 NSERC PGSB Doctoral Research Scholarship - 42,000  
Natural Sciences and Engineering Research Council of Canada (NSERC)  
Prize / Award  
Doctoral Scholarship
- 2000/10 CSEP Graduate Research Competition Finalist  
Canadian Society for Exercise Physiology  
Prize / Award  
Awarded for top graduate research presentation
- 2000/10 University of Ottawa Masters Thesis Prize Nominee - 0  
University of Ottawa  
Distinction  
Cardiovascular and Thermoregulatory Physiology
- 1997/5 Graduated Magna Cum Laude - 0  
University of Ottawa  
Distinction  
Cardiovascular Physiology
- 1995/5 - 1997/5 Dean's Honour List - 0  
University of Ottawa  
Distinction  
Cardiovascular Physiology

## User Profile

Researcher Status: Researcher

Research Career Start Date: 2007/10/01

Engaged in Clinical Research?: No

Research Interests: My research involves understanding the involvement of neurogenic microvascular dysfunction and blood flow dysregulation.

Fields of Application: Biomedical Aspects of Human Health, Pathogenesis and Treatment of Diseases

Disciplines Trained In: Biology and Related Sciences

Areas of Research: Cardiovascular System, Cardiovascular Diseases, Angiogenesis, Muscle, Breast Cancer, Stress and Cancer

Research Specialization Keywords: Angiogenesis, Blood Flow, Breast Cancer Tumor Imaging, Cell Migration, Cell Trafficking, Exercise Physiology, Intravital Microscopy, Microcirculation, Neuropeptide Y, Pre-diabetes, Skeletal Muscle, stress, Stress and Breast Cancer, Stress and immunity, Sympathetic Nervous System

Research Disciplines: Biology and Related Sciences, Physiology, Neurosciences, Oncology, Physiology

## Employment

2022/2	HD Muscle: Chief of Innovation, R&D, and Education Part-time
2022/1	Pre-Script: Director of Sports Nutrition Education Part-time Educational programming, online health and fitness education (university level)
2021/11	Vibe Mushrooms: Chief Scientific Officer
2018/9	Vital Science: Health Specialist Part-time Consultant for clinical cases (nephrology, cardiac, metabolic dysregulation, hormonal dysregulation)
2018/3 - 2022/2	ATP LAB: Chief Scientific Officer Nutraceutical, Athletic Therapeutic Pharma Laboratory (ATP Lab) Full-time Research and development of nutraceuticals
2007/10 - 2021/9	Associate Professor Medical Biophysics, Schulich School of Medicine & Dentistry, University of Western Ontario Full-time, Associate Professor Tenure Status: Tenure
2017/1 - 2018/2	Kaged Muscle: Scientific Director Exercise Supplements, Kaged Muscle Full-time
2014/7 - 2017/6	Chair of Undergraduate Studies Medical Biophysics, Schulich School of Medicine & Dentistry, University of Western Ontario Full-time, Associate Professor Tenure Status: Tenure
2006/6 - 2016/2	Prosource: Scientific Consultant Exercise Supplements, Prosource Full-time

2001/9 - 2004/9	Teaching Assistant Kinesiology, Health Sciences, University of Western Ontario Part-time Tenure Status: Non Tenure Track
2000/7 - 2001/8	Research Assistant John B. Pierce Laboratory, Yale University
1999/5 - 2000/6	Laboratory Supervisor Human Kinetics, University of Ottawa Part-time Tenure Status: Non Tenure Track
1999/5 - 2000/5	Project Manager (Contract # W7711-8-7509A) University of Ottawa, Laboratory of Human Performance and Environmental Medicine, Def & Civil Inst of Envir Med
1998/9 - 2000/5	Teaching Assistant (Physiology and Biomechanics) Human Kinetics, University of Ottawa Part-time Tenure Status: Non Tenure Track
1999/9 - 2000/1	Instructor (2nd year Applied Cardiovascular Physiology) Human Kinetics, University of Ottawa Part-time, Lecturer Tenure Status: Non Tenure Track

## Affiliations

The primary affiliation is denoted by (\*)

(\*) 2007/10 Associate Professor, Medical Biophysics, University of Western Ontario

## Leaves of Absence and Impact on Research

2020/1 - 2021/9 Medical, University of Western Ontario  
I suffered kidney failure in September 2019 and was placed on Dialysis from Jan 2020-October 2020. In October 2020, I received a living donor kidney transplant and recovered completely by April 2021. I was put on limited duties for summer of 2021 and resumed my regular duties in September 2021. Despite this set-back, I managed to secure and maintain federal (NSERC and CIHR) funding.

## Research Funding History

### Awarded [n=7]

2019/7 - 2024/8 Nutraceuticals for health and longevity, Grant, Operating  
Principal Investigator Clinical Research Project?: Yes

#### Funding Sources:

2019/7 - 2024/6 ATP LAB  
DONATION  
Total Funding - 350,000 (Canadian dollar) (Canadian dollar)  
Funding Renewable?: Yes  
Funding Competitive?: No

2019/5 - 2024/4 Piezo1 proteins: Integration of mechanotransduction in microvascular blood flow  
Principal Applicant regulation, Grant, Operating

Clinical Research Project?: No

**Funding Sources:**

2019/5 - 2024/4      Natural Sciences and Engineering Research Council of Canada (NSERC)  
Discovery Grant  
Total Funding - 140,000 (Canadian dollar) (Canadian dollar)  
Funding Renewable?: Yes  
Funding Competitive?: Yes

2019/3 - 2024/2  
Co-investigator

Vascular normalization improves immunotherapy in advanced stage ovarian cancer, Grant, Operating  
Clinical Research Project?: No

**Funding Sources:**

2019/3 - 2024/2      Canadian Institutes of Health Research (CIHR)  
Project Grant  
Total Funding - 631,126 (Canadian dollar)  
Funding Competitive?: Yes

2017/7 - 2022/6  
Co-investigator

Rescue of microvasculature enhances repair in muscle degenerative disorders, Grant, Operating  
Clinical Research Project?: No

**Funding Sources:**

2017/7 - 2022/6      Canadian Institutes of Health Research (CIHR)  
Project Grant  
Total Funding - 604,350 (Canadian dollar)  
Portion of Funding Received - 0 (Canadian dollar)  
Funding Competitive?: Yes

2016/9 - 2021/8  
Co-investigator

Developing In Vivo Imaging Technologies for Quantification of Tumour Associated Macrophages in Breast Cancer, Grant

**Funding Sources:**

2016/9 - 2021/8      Canadian Institutes of Health Research (CIHR)  
Project Grant  
Total Funding - 512,215 (Canadian dollar)  
Portion of Funding Received - 57,000  
Funding Competitive?: Yes

2018/7 - 2021/6  
Co-applicant

Sex-based protection from systemic vasculopathy with chronic stress and depressive symptoms., Grant, Operating  
Clinical Research Project?: No

**Funding Sources:**

2018/7 - 2021/6      Canadian Institutes of Health Research (CIHR)  
Project Scheme  
Total Funding - 459,000 (Canadian dollar)  
Portion of Funding Received - 153,000  
Funding Competitive?: Yes

2014/4 - 2019/3  
Principal Applicant

A novel integrative approach to understanding skeletal muscle hemodynamics: The interplay between static network geometry and acute arteriolar control., Grant, Operating  
Clinical Research Project?: No

**Funding Sources:**

2014/5 - 2019/4 Natural Sciences and Engineering Research Council of Canada (NSERC)  
Discovery  
Total Funding - 165,000 (Canadian dollar)  
Portion of Funding Received - 132,000  
Funding Competitive?: Yes

**Completed [n=12]**

2015/9 - 2017/8  
Co-applicant

The Use of Novel In Vivo Imaging Techniques to Study the Impact of a Primary Tumour on Metastasis and Dormancy, Grant, Operating  
Clinical Research Project?: No

**Funding by Year:**

2015/9 - 2017/8 Total Funding - 120,000 (Canadian dollar)  
Portion of Funding Received - 60,000 (Canadian dollar)  
Time Commitment: 2

**Funding Sources:**

2015/9 - 2017/8 Canadian Cancer Society  
Operating Grant  
Total Funding - 160,000 (Canadian dollar)  
Portion of Funding Received - 80,000  
Funding Competitive?: Yes

2016/4 - 2017/3  
Co-applicant

NSERC RTI: MicroPIV System for Biomedical Microfluidics, Grant, Equipment  
Clinical Research Project?: No

**Funding by Year:**

2016/4 - 2017/3 Total Funding - 149,796 (Canadian dollar)

**Funding Sources:**

2016/4 - 2017/3 Natural Sciences and Engineering Research Council of Canada (NSERC)  
Research Tools and Instruments  
Total Funding - 150,000 (Canadian dollar)  
Portion of Funding Received - 0  
Funding Competitive?: Yes

Principal Applicant : Tamie Poepping

2010/5 - 2015/4  
Co-investigator

A Systems Approach to Sepsis: Pathological vs. Adaptive Microvascular Response, Grant

**Funding by Year:**

2013/5 - 2014/4 Total Funding - 642,828  
Portion of Funding Received - 0  
Time Commitment: 0

2012/5 - 2013/4 Total Funding - 642,828  
Portion of Funding Received - 0  
Time Commitment: 0

2011/5 - 2012/4 Total Funding - 642,828  
Portion of Funding Received - 0  
Time Commitment: 0



2010/5 - 2011/4 Total Funding - 642,828  
 Portion of Funding Received - 0  
 Time Commitment: 0

**Funding Sources:**

2010/5 - 2015/4 Canadian Institutes of Health Research (CIHR)  
 Operating Grant  
 Total Funding - 642,828 (Canadian dollar)  
 Portion of Funding Received - 514,262  
 Funding Competitive?: Yes

Principal Investigator : Ellis, Christopher

2009/5 - 2014/4 A novel integrative approach to the comprehensive study of skeletal muscle blood flow,  
 Principal Investigator Grant

**Funding by Year:**

2013/5 - 2014/4 Total Funding - 120,000  
 Portion of Funding Received - 25,000  
 Time Commitment: 80

2012/5 - 2013/4 Total Funding - 120,000  
 Portion of Funding Received - 25,000  
 Time Commitment: 80

2011/5 - 2012/4 Total Funding - 120,000  
 Portion of Funding Received - 25,000  
 Time Commitment: 80

2010/5 - 2011/4 Total Funding - 120,000  
 Portion of Funding Received - 25,000  
 Time Commitment: 80

2009/5 - 2010/4 Total Funding - 120,000  
 Portion of Funding Received - 20,000  
 Time Commitment: 80

**Funding Sources:**

2009/5 - 2014/4 Natural Sciences and Engineering Research Council of Canada  
 (NSERC)  
 Discovery Grant  
 Total Funding - 120,000 (Canadian dollar)  
 Portion of Funding Received - 120,000  
 Funding Competitive?: Yes

2007/10 - 2013/10 Start-up Funds, Contract  
 Principal Investigator

**Funding by Year:**

2007/10 - 2011/10 Total Funding - 50,000  
 Portion of Funding Received - 50,000  
 Time Commitment: 0

**Funding Sources:**

2007/10 - 2015/10 University of Western Ontario  
 Total Funding - 50,000 (Canadian dollar)  
 Portion of Funding Received - 50,000  
 Funding Competitive?: No

Principal Investigator : Dwayne N. Jackson

2012/4 - 2013/3  
Principal Investigator The role of NPY Y5R in breast cancer tumor progression: A preclinical pilot study, Contract

**Funding by Year:**

2012/4 - 2013/3 Total Funding - 16,000  
Portion of Funding Received - 16,000  
Time Commitment: 5

**Funding Sources:**

2012/4 - 2012/7 Ontario Institute for Cancer Research (OICR)  
Triphase Accelerator Collaboration  
Total Funding - 16,000 (Canadian dollar)  
Portion of Funding Received - 16,000  
Funding Competitive?: No

Principal Investigator : Dwayne N. Jackson

2012/5 - 2012/11  
Principal Investigator The role of NPY Y5R in breast cancer tumor progression, Grant

**Funding by Year:**

2012/5 - 2012/11 Total Funding - 30,000  
Portion of Funding Received - 30,000  
Time Commitment: 15

**Funding Sources:**

2012/5 - 2012/11 Mathematics of Information Technology and Complex Systems (MITACS)  
Accelerate  
Total Funding - 30,000 (Canadian dollar)  
Portion of Funding Received - 30,000  
Funding Competitive?: Yes

Principal Investigator : Dwayne N. Jackson

2008/3 - 2012/3  
Principal Investigator The impact of sympathetic nerves and associated receptor activation on the progression of breast cancer: a link between nerves, vessels, and cell proliferation?, Grant

**Funding by Year:**

2008/3 - 2008/3 Total Funding - 100,000  
Portion of Funding Received - 100,000  
Time Commitment: 0

**Funding Sources:**

2008/3 - 2012/3 University of Western Ontario  
Academic Development Fund  
Total Funding - 100,000 (Canadian dollar)  
Portion of Funding Received - 100,000  
Funding Competitive?: Yes

Principal Investigator : Dwayne N. Jackson

2006/7 - 2010/6  
Co-investigator Physical activity, estrogen and peptidase control of neurovascular function in skeletal muscle, Grant

**Funding by Year:**

2010/7 - 2011/6      Total Funding - 335,164  
 Portion of Funding Received - 0  
 Time Commitment: 0

2009/7 - 2010/6      Total Funding - 335,164  
 Portion of Funding Received - 0  
 Time Commitment: 0

**Funding Sources:**

2006/4 - 2010/3      Canadian Institutes of Health Research (CIHR)  
 Operating Grant  
 Total Funding - 335,164 (Canadian dollar)  
 Portion of Funding Received - 335,164  
 Funding Competitive?: Yes

Principal Investigator : Shoemaker, Kevin

2005/7 - 2010/6  
 Co-investigator

Steps in Metastasis: Identifying Therapeutic Targets, Grant

**Funding by Year:**

2009/7 - 2010/6      Total Funding - 654,778  
 Portion of Funding Received - 15,000  
 Time Commitment: 20

**Funding Sources:**

2005/5 - 2010/4      Canadian Institutes of Health Research (CIHR)  
 Operating Grant  
 Total Funding - 674,125 (Canadian dollar)  
 Portion of Funding Received - 674,125  
 Funding Competitive?: Yes

Principal Investigator : Chambers, Ann

2009/2 - 2009/2  
 Principal Applicant

Completing updates to the systems biology component in the medical biophysics undergraduate laboratories, Grant, Equipment

**Funding Sources:**

2009/2 - 2009/2      University of Western Ontario  
 Science Student Council Grant  
 Total Funding - 20,000 (Canadian dollar)  
 Funding Competitive?: Yes

2008/2 - 2008/2  
 Principal Applicant

Updating the systems biology component in the medical biophysics undergraduate laboratories, Grant, Equipment

**Funding Sources:**

2008/2 - 2008/2      University of Western Ontario  
 USC Development Fund  
 Total Funding - 16,000 (Canadian dollar)  
 Funding Competitive?: Yes

## Student/Postdoctoral Supervision

### Bachelor's Equivalent [n=2]

- 2018/10 - 2019/4      Dayton Miranda (In Progress) , The University of Western Ontario  
Principal Supervisor      Student Degree Start Date: 2016/9  
Thesis/Project Title: Modelling Piezo1 channel control of microvessels  
Present Position: Student
- 2018/1 - 2019/7      Seoyoon Kim (In Progress) , PEL CO-OP PROGRAM (A.B. Lucas SS)  
Principal Supervisor      Student Degree Start Date: 2015/9  
Thesis/Project Title: Viability of fluorescently labelled red blood cells in cold storage  
Present Position: Student

### Bachelor's Honours [n=32]

- 2018/10 - 2019/4      Shayla Scott (In Progress) , The University of Western Ontario  
Principal Supervisor      Student Degree Start Date: 2015/9  
Student Degree Expected Date: 2015/9  
Thesis/Project Title: 3rd Year research project  
Present Position: Student
- 2018/10 - 2019/4      Taylor Marcus (In Progress) , The University of Western Ontario  
Principal Supervisor      Student Degree Start Date: 2015/9  
Thesis/Project Title: 3rd year research project  
Present Position: Student
- 2017/12 - 2018/4      Simran Sethi (Completed) , The University of Western Ontario  
Co-Supervisor      Student Degree Start Date: 2013/9  
Thesis/Project Title: The Effect of PE and NPY on Diameter in Venular Networks  
Present Position: Grad Student
- 2017/12 - 2018/4      Xin Yue Wang (Completed) , The University of Western Ontario  
Co-Supervisor      Student Degree Start Date: 2013/9  
Thesis/Project Title: Estimating Hematocrit in Arteriolar Networks using Fluorescently Labeled RBCs  
Present Position: Unknown
- 2017/9 - 2018/9      Hannah Bazinet (In Progress) , The University of Western Ontario  
Principal Supervisor      Student Degree Start Date: 2014/9  
Thesis/Project Title: The effect of aging and exercise on platelet adhesion.  
Present Position: Student
- 2016/9 - 2019/9      Peter Lee (In Progress) , The University of Western Ontario  
Principal Supervisor      Student Degree Start Date: 2015/9  
Thesis/Project Title: Modelling blood flow in the mouse gluteus maximus  
Present Position: Student
- 2016/9 - 2017/4      Liam Montgomery (In Progress) , The University of Western Ontario  
Principal Supervisor      Student Degree Start Date: 2015/9  
Thesis/Project Title: Fluorescing Red Blood Cells  
Present Position: Student
- 2016/7 - 2016/9      Lei Yang (Completed) , Northwest A&F University  
Principal Supervisor      Student Degree Start Date: 2013/9  
Thesis/Project Title: MITACS GLOBALINK FELLOW  
Present Position: Graduate student

- 2015/12 - 2016/4  
Co-Supervisor Keegan Tesselaar (Completed) , The University of Western Ontario  
Student Degree Start Date: 2013/9  
Thesis/Project Title: Modelling Endogenous Dipeptidyl-Peptidase IV Regulation of Skeletal Muscle Arteriolar Blood Flow in Rats  
Present Position: Unknown
- 2015/5 - 2017/4  
Principal Supervisor Julia Hryniewicz (In Progress) , The University of Western Ontario  
Student Degree Start Date: 2013/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Y1R and A1R expression in skeletal muscle  
Present Position: Undergraduate Student
- 2014/5 - 2014/8  
Principal Supervisor Jenna Kara (Completed) , The University of Western Ontario  
Student Degree Start Date: 2011/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Neuropeptide Y Y5R in Breast Cancer  
Present Position: Graduate student at U of T
- 2014/5 - 2014/8  
Principal Supervisor Mohammed Al-Tarhuni (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Comprehensive Topological, Geometric, And Hemodynamic Analysis Of The Rat Gluteus Maximus Arteriolar Networks  
Present Position: Medical School Student
- 2013/12 - 2014/4  
Co-Supervisor Ka-Kit (David) Yeung (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: Modeling Wall Shear Rate in Branching Arteriolar Networks  
Present Position: Grad Student
- 2013/9 - 2014/4  
Principal Supervisor Jeremy Ho (In Progress) , The University of Western Ontario  
Student Degree Start Date: 2013/9  
Thesis/Project Title: Scholars Elective Program Research  
Present Position: Dental School Student
- 2013/9 - 2014/4  
Principal Supervisor Nicole Omoruwa (Completed) , The University of Western Ontario  
Student Degree Start Date: 2012/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Work Study Research  
Present Position: MBA Student Ivey School of Business
- 2013/9 - 2014/4  
Principal Supervisor David Yeung (Completed) , The University of Western Ontario  
Student Degree Start Date: 2011/9  
Thesis/Project Title: A novel approach to imaging microvessels  
Present Position: Medical School
- 2013/9 - 2014/4  
Principal Supervisor Jenna Kara (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: The role of neuropeptide Y in breast cancer cell migration  
Present Position: PhD Student at U of T
- 2013/4 - 2014/4  
Principal Supervisor Elton Law (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: Undergraduate Honors Thesis: The role of NPY Y5R in breast cancer metastasis  
Present Position: Medical School

2012/4 - 2012/8  
Principal Supervisor Ryann Kwan (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: NSERC USRA PROJECT  
Project Description: Scholars Elective Project 1  
Present Position: Medical School

2012/1 - 2012/4  
Principal Supervisor Ryann Kwan (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: Scholars Elective Research Project (Year 2): Neuropeptide Y and breast cancer  
Project Description: Scholars Elective Project 2  
Present Position: Medical School

2011/9 - 2012/4  
Principal Supervisor Samantha Coleman (Completed) , The University of Western Ontario  
Student Degree Start Date: 2008/9  
Thesis/Project Title: Undergraduate Honours Thesis Research Project: The role of sympathetic nerves in breast cancer tumor angiogenesis  
Present Position: PhD McMaster

2011/1 - 2011/4  
Academic Advisor Ryann Kwan (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: Scholars Elective Research Project (Year 1): Neuropeptide Y in breast cancer  
Project Description: NSERC USRA Summer research project  
Present Position: Medical School

2011/1 - 2011/4  
Principal Supervisor Joanne Wong (Completed) , The University of Western Ontario  
Student Degree Start Date: 2008/9  
Thesis/Project Title: Undergraduate 3rd year research project. The effect of FITC labelling on RBC deformation  
Present Position: Unknown

2010/5 - 2010/9  
Principal Supervisor Kelley Bronson (Completed) , The University of Western Ontario  
Student Degree Start Date: 2008/9  
Thesis/Project Title: Undergraduate Summer Research

2009/9 - 2010/5  
Principal Supervisor Neha Sharma (Completed) , The University of Western Ontario  
Student Degree Start Date: 2007/9  
Thesis/Project Title: Undergraduate Honours Thesis Research Project (Engineering). Development of an electrical circuit to mimic skeletal muscle microcirculation

2008/9 - 2009/4  
Principal Supervisor Baraa Al-Khazraji (Completed) , The University of Western Ontario  
Student Degree Start Date: 2005/9  
Thesis/Project Title: Undergraduate Honours Thesis Research Project: A histological method for quantifying sympathetic neurons in sciatic nerves

2008/4 - 2008/9  
Principal Supervisor Baraa Al-Khazraji (Completed) , The University of Western Ontario  
Student Degree Start Date: 2005/9  
Thesis/Project Title: Undergraduate Summer Research

2008/1 - 2008/4  
Principal Supervisor Mishuka Adhikary (Completed) , The University of Western Ontario  
Student Degree Start Date: 2005/9  
Thesis/Project Title: Undergraduate 3rd Year Research Project: Quantifying vascularity in breast cancer tumors from live video microscopy  
Project Description: 3rd Year Research Project  
Present Position: Medical School

- 2008/1 - 2008/4  
Principal Supervisor Nicole Novielli (Completed) , The University of Western Ontario  
Student Degree Start Date: 2004/9  
Thesis/Project Title: Undergraduate Research Project: Quantifying neuropeptide Y expression in tumor histological sections  
Project Description: Research Project  
Present Position: Postdoctoral Fellow
- 2007/12 - 2008/4  
Principal Supervisor Karan Gupta (Completed) , The University of Western Ontario  
Student Degree Start Date: 2005/9  
Thesis/Project Title: Scholars Elective Undergraduate Research Project: Characterizing estrogen receptor expression in 4T1 breast cancer cells  
Project Description: Scholars Elective Research Project (4th year)  
Present Position: Medical School
- 2007/9 - 2008/4  
Principal Supervisor Corey Smith (Completed) , The University of Western Ontario  
Student Degree Start Date: 2004/9  
Thesis/Project Title: Undergraduate Honours Thesis Research Project: The role of neuropeptide Y in breast cancer tumor progression  
Project Description: Summer Research Project  
Present Position: Postdoctoral Fellow
- 2007/4 - 2007/9  
Principal Supervisor Corey Smith (Completed) , The University of Western Ontario  
Student Degree Start Date: 2004/9  
Thesis/Project Title: Undergraduate Summer Research  
Project Description: 4th Year Thesis Research Project
- Master's Thesis [n=15]**
- 2017/9 - 2019/8  
Principal Supervisor Juan Garcia (In Progress) , Western University  
Student Degree Start Date: 2017/9  
Student Canadian Residency Status: Study Permit  
Thesis/Project Title: Microvascular research  
Present Position: MSc Student
- 2017/9 - 2019/8  
Co-Supervisor Amanda Rampersaud (In Progress) , The University of Western Ontario  
Student Degree Start Date: 2017/9  
Thesis/Project Title: Characterizing Uterine and Placental Placental Blood flow using IVVM  
Present Position: Student
- 2016/9 - 2018/10  
Co-Supervisor Zahra Farid (Completed) , The University of Western Ontario  
Student Degree Start Date: 2016/9  
Thesis/Project Title: An Integrated Approach to Analyzing ArteriolarNetwork Hemodynamics.  
Present Position: Workforce
- 2015/11 - 2018/8  
Academic Advisor Patrick Rudak (In Progress) , The University of Western Ontario  
Student Degree Start Date: 2015/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Stress and innate immunity  
Present Position: PhD Student
- 2014/9 - 2016/8  
Principal Supervisor Mohammed Al-Tarhuni (Completed) , The University of Western Ontario  
Student Degree Start Date: 2014/9  
Thesis/Project Title: The interplay between static microvascular network geometry and intrinsic arteriolar control  
Present Position: Graduate Student

- 2014/9 - 2016/8  
Co-Supervisor  
Jenna Kara (Completed) , The University of Western Ontario  
Student Degree Start Date: 2014/9  
Thesis/Project Title: The role of neuropeptide Y in breast cancer progression  
Present Position: Graduate Student
- 2012/9 - 2015/2  
Co-Supervisor  
Amani Saleem (Completed) , The University of Western Ontario  
Student Degree Start Date: 2012/9  
Thesis/Project Title: Estimating Hemodynamics in Skeletal Muscle Arteriolar Networks  
Reconstructed From In Vivo Data  
Present Position: PhD program Western
- 2012/1 - 2014/5  
Academic Advisor  
Stanley Lee (Withdrawn) , The University of Western Ontario  
Student Degree Start Date: 2011/9  
Thesis/Project Title: Sympathetic regulation of innate immunity  
Present Position: Withdrawn from program
- 2012/1 - 2013/9  
Academic Advisor  
James Corkall (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Student Degree Received Date: 2013/6  
Thesis/Project Title: The effect of adenylyl cyclase S674 on cardiac and vasomotor control  
in humans  
Present Position: Unknown
- 2011/9 - 2014/6  
Co-Supervisor  
Hayward Nathaniel (Completed) , The University of Western Ontario  
Student Degree Start Date: 2011/9  
Student Degree Received Date: 2014/6  
Thesis/Project Title: Development of a clinically relevant animal model of sepsis  
Project Description: Sepsis and microvascular dysfunction  
Present Position: Medical School Applicant
- 2011/9 - 2013/7  
Academic Advisor  
Danielle Brewer (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: Assessing Multi-Unit Muscle Sympathetic Nerve Activity Across  
Groups: A Multivariate Approach to a Multivariate Concept  
Present Position: PhD Student
- 2011/9 - 2012/8  
Academic Advisor  
Navid Baktash (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: The Differential Expression of EGFL7 Transcripts during  
Angiogenesis in Human Fibrosarcoma  
Present Position: Unknown
- 2010/1 - 2013/1  
Academic Advisor  
Mustafa Ridha (Completed) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: Investigating Adenosine's Role in Controlling the Cerebral Metabolic  
Rate of Oxygen following Hypoxia-Ischemia  
Present Position: Unknown
- 2009/9 - 2011/5  
Principal Supervisor  
Zeni Geoffrey (Withdrawn) , The University of Western Ontario  
Student Degree Start Date: 2009/9  
Thesis/Project Title: The role of the sympathetic nervous system in breast cancer  
metastasis  
Project Description: The sympathetic nervous system and progression of breast cancer  
Present Position: Medical School



- 2009/1 - 2010/3  
Academic Advisor  
Laura Fung (Completed) , The University of Western Ontario  
Student Degree Start Date: 2008/9  
Thesis/Project Title: Epidermal growth factor like-7 (EGFL7) inhibits tumor progression by modulating angiogenesis  
Present Position: Canadian Melanoma Research Network, Project Manager
- Doctorate [n=11]**
- 2016/9 - 2018/11  
Co-Supervisor  
Kent Lemaster (In Progress) , Western University  
Student Degree Start Date: 2016/9  
Student Canadian Residency Status: Study Permit  
Thesis/Project Title: Microvascular control in skeletal muscle  
Present Position: Student
- 2015/9 - 2017/8  
Principal Supervisor  
Evan Pollock-Tahiri (In Progress) , The University of Western Ontario  
Student Degree Start Date: 2015/9  
Student Degree Expected Date: 2019/8  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Microvascular Modulation and Hemodynamics in Duchenne Muscular Dystrophy  
Present Position: Graduate Student
- 2015/6 - 2019/8  
Academic Advisor  
Iain Lamb (In Progress) , University of Guelph  
Student Degree Start Date: 2014/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Microvascular control of skeletal muscle. Role of ligand redundancy.  
Present Position: PhD Student
- 2015/1 - 2019/8  
Academic Advisor  
Ashley Makela (In Progress) , The University of Western Ontario  
Student Degree Start Date: 2014/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Imaging tumor-associated macrophages in breast cancer using MRI  
Present Position: PhD Student
- 2011/1 - 2016/1  
Academic Advisor  
John-Michael Arpino (In Progress) , The University of Western Ontario  
Student Degree Start Date: 2011/9  
Thesis/Project Title: Stabilizing angiogenesis in ischemic muscle  
Present Position: Graduate Student
- 2011/1 - 2014/5  
Academic Advisor  
Michael O'Neil (In Progress) , The University of Western Ontario  
Student Degree Start Date: 2010/9  
Thesis/Project Title: Microvascular responsiveness to pulsatile and non-pulsatile cardiopulmonary bypass  
Present Position: PhD Student
- 2010/1 - 2014/9  
Academic Advisor  
Leonard Guizzetti (Completed) , The University of Western Ontario  
Student Degree Start Date: 2009/9  
Thesis/Project Title: Importance of proglucagon secretion
- 2009/9 - 2015/4  
Principal Supervisor  
Al-Khazraji Baraa (Completed) , The University of Western Ontario  
Student Degree Start Date: 2009/9  
Student Degree Received Date: 2015/6  
Thesis/Project Title: Sympathetic Vascular Regulation in Skeletal Muscle  
Project Description: Sympathetic nerves and their impact on microvascular red blood cell distribution  
Present Position: Graduate Student

- 2008/9 - 2011/8  
Academic Advisor Louis Mattar (Completed) , The University of Western Ontario  
Student Degree Start Date: 2006/9  
Thesis/Project Title: On the early onset of vascular stiffening and sexual dimorphism of sympathetic control in the spontaneously hypertensive rat  
Present Position: Professor
- 2008/5 - 2013/11  
Principal Supervisor Novielli Nicole (Completed) , The University of Western Ontario  
Student Degree Start Date: 2008/5  
Student Degree Received Date: 2013/12  
Thesis/Project Title: Skeletal muscle microvascular dysregulation in pre-diabetes  
Project Description: Investigating the sympathetic nervous system in pre-diabetes  
Present Position: Postdoctoral Fellow at Guelph University
- 2008/1 - 2012/12  
Principal Supervisor Medeiros Phillip (Completed) , The University of Western Ontario  
Student Degree Start Date: 2008/1  
Thesis/Project Title: The impact of the sympathetic neuropeptide Y system on the progression of breast cancer  
Project Description: The sympathetic nervous system and progression of breast cancer  
Present Position: Postdoctoral Fellow at PMH

**Post-doctorate [n=1]**

- 2017/9 - 2018/8  
Principal Supervisor Maria Machado (In Progress) , Western University  
Student Degree Start Date: 2017/9  
Student Canadian Residency Status: Student Work Permit  
Thesis/Project Title: Imaging tumor associated macrophages in vivo  
Present Position: Postdoctoral Fellow

**Diploma [n=1]**

- 2011/2 - 2011/6  
Principal Supervisor Nicole Omoruwa (Completed) , CHCSS  
Student Degree Start Date: 2008/9  
Thesis/Project Title: CIHR PEL Program, High School Co-Op research project  
Project Description: High School PEL CIHR CO-OP student

**Editorial Activities**

- 2011/1 - 2020/2 Ad hoc Reviewer, Diabetes, Journal
- 2010/1 - 2020/1 Ad hoc Reviewer, Microcirculation, Journal
- 2010/1 - 2020/1 Ad hoc Reviewer, Journal of Physiology, Journal
- 2008/1 - 2020/1 Ad hoc Reviewer, American Journal of Physiology, Journal
- 2008/1 - 2020/1 Ad hoc Reviewer, Journal of Applied Physiology, Nutrition, and Metabolism, Journal
- 2011/1 - 2018/12 Review Editor, Frontiers in Exercise Physiology, Journal
- 2012/1 - 2017/12 Review Editor, Microcirculation, Journal

**International Collaboration Activities**

- 2013/2 - 2015/3 Co-Investigator, Denmark  
Collected animal data for project entitled, "Effect of extraluminal ATP application on vascular tone and blood flow in skeletal muscle: implications for exercise hyperemia".  
Collaboration with Dr. Ylva Hellsten at University of Copenhagen.

## Committee Memberships

2015/1 - 2017/1	Chair, Programming Committee, Microcirculatory Society (MCS)
2009/1 - 2016/12	Committee Member, Schulich School of Medicine & Dentistry Medical Admissions Committee, University of Western Ontario
2007/12 - 2015/11	Chair, Undergraduate Curriculum Continuity Committee, University of Western Ontario
2013/4 - 2015/4	Committee Member, Councilor, Microcirculatory Society (MCS)
2011/6 - 2013/8	Committee Member, Schulich School of Medicine & Dentistry Summer Research Training Program (SRTP), University of Western Ontario
2012/1 - 2012/12	Chair, Nominations Committee, Microcirculatory Society (MCS)
2009/1 - 2011/12	Committee Member, Nominations Committee, Microcirculatory Society (MCS)
2008/9 - 2011/8	Committee Member, Western Engineering Faculty Council, University of Western Ontario

## Other Memberships

2005/6 - 2017/7	Regular Member, American College of Sports Medicine (ACSM)
1999/7 - 2017/7	Regular Member, American Physiological Society (APS)
2009/4 - 2017/4	Regular Member, American Society for Investigative Pathology (ASIP)
2005/6 - 2017/4	Regular Member, The Microcirculatory Society (MCS)

## Presentations

- (2019). The gut-brain axis: You are what you eat!. ATP Laboratory Education Series 2019, Hamilton, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
- (2018). Nutraceutical formulation strategies for hormonal balance, microbiome support, and hydration. Mr. Olympia Fitness and Performance Expo, Popeyes Canada Owners Meeting, Las Vegas, United States  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
- Daniel Goldman, Dwayne N. Jackson, Zahra Farid, Sameh Khan, Baran Serajelahi. (2018). A dynamic model of blood flow, oxygen transport and flow regulation in skeletal muscle. 11th World Congress of Microcirculation, Vancouver, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes
- (2018). Advanced nutraceutical protocols to increase health and performance. Popeyes Edmonton Science Education Series, Edmonton, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
- (2018). Advanced nutraceutical protocols to increase health and performance. Popeyes Saskatoon Science Education Series, Saskatoon, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No

6. (2018). Nutraceutical approaches to increase mental health, physical performance, and longevity. Toronto Pro Super Show, Popeyes Supplements Canada Managers Meeting, Toronto, Canada  
Main Audience: General Public  
Invited?: Yes, Keynote?: Yes, Competitive?: No
7. (2018). The importance of gut health in absorption of micronutrients. Lifetime Athletics Education Series, Vaughn, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
8. (2018). Advanced nutraceutical protocols to increase health and performance. Popeyes Winnipeg Science Education Series, Winnipeg, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
9. (2018). The importance of gut health in the absorption of micro- and macro-nutrients. Lifetime Athletics Education Series, Ajax, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
10. (2018). Advanced nutraceutical protocols to increase health and performance. Popeyes Calgary Science Education Series, Calgary, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
11. (2018). Nutraceutical approaches to mental and physical wellbeing. Popeyes Quebec Managers Meeting, Saint-Paulin, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
12. (2018). Micro- and macro-nutrient absorption. Lifetime Athletics Education Series, Mississauga, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
13. (2017). How does flow know where to go? A network approach to studying microvascular blood flow in skeletal muscle. Colorado State University: HES Seminar Lecture, Fort Collins, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: Yes, Competitive?: Yes
14. (2017). A Network Approach to Studying Skeletal Muscle Blood Flow Control: The whole is greater than the sum of its parts. Experimental Biology 2017 Session Title: Investigating Microvascular Physiology and Pathophysiology using Novel Techniques, Chicago, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes
15. (2016). Signal Integration and Microcirculatory Blood Flow Control: Making Parts Whole Using a Network Approach. Experimental Biology, San Diego, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes  
Description / Contribution Value: Chair and session planner
16. (2014). ATP and Blood Flow Control in Skeletal Muscle: Dichotomous Modulation at Rest and During Exercise in Rats. ACSM Annual Meeting: Exercise is Medicine, Orlando, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes
17. (2013). Sympathetic Cotransmission: Cooperation and Coordination of Blood Flow Distribution in Skeletal Muscle. ACSM Annual Meeting: Exercise is Medicine, Indianapolis, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes

18. (2013). Pre-diabetes and microvascular dysfunction in contracting skeletal muscle. The Canadian Student Health Research Forum 2012, Winnipeg, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes  
Funding Sources: Start-up Funds - NA
19. (2012). Pre-diabetes and microvascular dysfunction in contracting skeletal muscle. CIHR IMHA Young Investigators Forum, King City, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes
20. (2012). Elucidating causes and consequences of microvascular dysfunction in prediabetes. Yale University, John B. Pierce Laboratory Seminar Series, New Haven, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: No
21. (2012). Neuropeptide Y stimulates VEGF expression, secretion, and angiogenesis in murine and human breast cancer. ASIP Annual Meeting, Experimental Biology, San Diego, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes
22. (2011). Neuropeptide Y Y5-receptor activation stimulates proliferation in the 4T1 breast cancer cell line. ASIP Annual Meeting, Experimental Biology, Washington, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes
23. (2011). Novel video method for acquiring and modeling in vivo hemodynamic data from arteriolar networks of rat gluteus maximus skeletal muscle. The Canadian Student Health Research Forum, Winnipeg, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: No
24. (2011). Elucidating causes and consequences of microvascular dysfunction in prediabetes. St. Joe's Hospital, London, Ontario, Endocrinology Rounds, London, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No, Competitive?: No
25. (2010). The proliferative effects of sympathetic nerves and neuropeptide Y in a 4T1 cell breast cancer model. ASIP Annual Meeting, Experimental Biology, Anaheim, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes
26. (2009). Exploring novel in vivo models of vascular control in health and disease. CIHR Strategic Training Program in Vascular Research, Seminar Series. Robarts Research Institute, London, Ontario, Canada, London, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No, Competitive?: No
27. (2008). Ovariectomy modifies sympathetic neuropeptide Y control of hindlimb vasculature in female Sprague-Dawley rats. Themed Meeting of The Physiology Society: Determining control of the cardiovascular system in health and disease: from brain to blood vessel, Leeds, United Kingdom  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: Yes
28. (2008). Exploring novel in vivo models of vascular control in health and disease. CIHR Strategic Training Program in Vascular Research, Seminar Series. Robarts Research Institute, London, Ontario, Canada, London, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: No

29. (2008). Differential effects of ovarian hormones on neuropeptide Y mediated vascular regulation in health and disease. Lawson Health Research Institute Seminar Series. St. Joe's Hospital, London, Ontario, Canada., London, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: No
30. (2007). Elucidating novel mechanisms governing blood flow: One man's journey. Guelph University, Guelph, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No, Competitive?: No
31. (2006). Development of a mouse model for investigating the impact of aging on arteriolar control: Understanding Mechanisms. Western University, School of Kinesiology Lecture Series, London, Canada  
Main Audience: Researcher  
Invited?: Yes
32. (2003). In vivo investigations of gender and sympathetically mediated vascular remodeling. CIHR Institute of Gender and Health Award Symposia, Edmonton, Canada  
Main Audience: Researcher  
Invited?: Yes

## Broadcast Interviews

- |                            |  |
|----------------------------|--|
| 2012/03/08 -<br>2013/03/08 | Stress and Breast Cancer, Parenting Your Parent, Rogers Television                     |
| 2011/09/21 -<br>2011/09/21 | Stress-induced breast cancer, Featured News Interview, CIXX 106.9 FM                   |
| 2011/09/20 -<br>2011/09/20 | Stress, Neuropeptide Y, and Breast Cancer, CTV2 News, CTV                              |
| 2011/09/19 -<br>2011/09/19 | Link Between Stress and Breast Cancer, Ontario Morning with Wei Chen, CBC Radio One    |
| 2011/09/19 -<br>2011/09/19 | UWO researchers link breast cancer to stress., The Warm-up with Al Coombs, CJBK 1290FM |

## Text Interviews

- |            |  |
|------------|--|
| 2011/09/23 | UWO researchers find link between stress and cancer, Western Gazette   |
| 2011/09/21 | Breast cancer: Stress receptor found to stimulate growth and migration of cancer cells, Cell Press News                      |
| 2011/09/21 | Breast Cancer: Stress Receptor Found to Stimulate Growth and Migration of Cancer Cells, Reuters International: Science Daily |
| 2011/09/20 | Cancer feeds on stress, local researchers find, London Free Press- FRONT PAGE STORY  |
| 2011/09/19 | Researchers eye stress, breast cancer links, Western News  |

## Publications

### Journal Articles

1. Patrick Rudak, Joshua Choi, Katie Parkins, Kelly L. Summers, Dwayne N. Jackson, Paula J. Foster, Anton Skaro, Ken Leslie, Vivian McAlister, Vijay Kuchroo, Wataru Inoue, Olivier Lantz, Mansour Haeryfar. (2021). Chronic stress physically spares but functionally impairs innate-like invariant T cells. *Cell Reports*.  
Co-Author  
Revision Requested, Cell Press, United States  
Refereed?: Yes
2. Rudak PT, Gangireddy R, Choi J, Burhan AM, Summers KL, Jackson DN, Inoue W, Mansour Haeryfar SM. (2019). Stress-elicited glucocorticoid receptor signaling upregulates TIGIT in innate-like invariant T lymphocytes. *Brain Behav Immun*.  
<http://dx.doi.org/10.1016/j.bbi.2019.05.027>  
Co-Author  
Published,  
Refereed?: Yes  
Number of Contributors: 8
3. Goldman D, Farid Z, Jackson DN. (2019). A streak length-based method for quantifying red blood cell flow in skeletal muscle arteriolar networks. *Microcirculation*. Epub Ahead of Print: Epub Ahead of Print.  
Co-Author,  
Refereed?: Yes  
Number of Contributors: 3
4. Stephanie Frisbee, Sarah Singh, Dwayne Jackson, Kent Lemaster, Samantha Milde, J. Kevin Shoemaker, and Jefferson Frisbee. (2018). Beneficial Pleiotropic Anti-Depressive Effects of Cardiovascular Disease Risk Factor Interventions in the Metabolic Syndrome. *Journal of the American Heart Association*. 7(7): NA.  
Published,  
Refereed?: Yes
5. Killey C, Cleary S, Orr J, Frisbee JC, Jackson D, Twynstra J. (2018). The contribution of muscarinic-receptor-mediated responses to epineurial vascular diameter at the sciatic nerve. *Can J Physiol Pharmacol*. 2018. 96(8): 855-858.  
Co-Author  
Published,  
Refereed?: Yes  
Number of Contributors: 6
6. Novielli-Kuntz NM, Lemaster KA, Frisbee JC, Jackson DN. (2018). Neuropeptide Y1 and alpha-1 adrenergic receptor-mediated decreases in functional vasodilation in gluteus maximus microvascular networks of prediabetic mice. *Physiological Reports*. 6(13): e13755.  
Last Author  
Published, Wiley, United States  
Refereed?: Yes, Open Access?: Yes  
Number of Contributors: 4  
Contribution Percentage: 71-80  
Description of Contribution Role: Lead Investigator  
Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) - R4218A03
7. Brooks SD, Hileman SM, Chantler PD, Milde SA, Lemaster KA, Frisbee SJ, Shoemaker JK, Jackson DN, Frisbee JC. (2018). Protection from vascular dysfunction in female rats with chronic stress and depressive symptoms. *Am J Physiol Heart Circ Physiol*. 314(5): H1070-1084.  
Co-Author  
Published, APS, United States  
Refereed?: Yes, Open Access?: No

8. Brooks SD, Hileman SM, Chantler PD, Milde SA, Lemaster KA, Frisbee SJ, Shoemaker JK, Jackson DN, Frisbee JC. (2018). Protection from chronic stress- and depressive symptom-induced vascular endothelial dysfunction in female rats is abolished by preexisting metabolic disease. *Am J Physiol Heart Circ Physiol*.314(5): H1085-1097.  
Published, APS,  
Refereed?: Yes, Open Access?: No
9. Neidert LE, Al-Tarhuni M, Goldman D, Kluess HA, Jackson DN. (2018). Endogenous dipeptidyl peptidase IV modulates skeletal muscle arteriolar diameter in rats. *Physiological Reports*. 6(2): e13564.  
<http://dx.doi.org/10.14814/phy2.13564>.  
Last Author  
Published,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 5  
Contribution Percentage: 91-100  
Funding Sources:
10. Lemaster, Kent Jackson, Dwayne Goldman, Daniel Frisbee, Jefferson C. (2017). Insidious incrementalism: The silent failure of the microcirculation with increasing peripheral vascular disease risk. *Microcirculation*. 24(2): e12332.  
Co-Author  
Published, Wiley,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 4
11. Farid Z, Saleem AH, Al-Khazraji BK, Jackson DN, Goldman D. (2017). Estimating blood flow in skeletal muscle arteriolar trees reconstructed from in vivo data using the Fry approach. *Microcirculation*. 24(5): e12378.  
Co-Author  
Published, Wiley,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 41-50  
Description / Contribution Value: Author
12. Lemaster KA, Farid Z, Brock RW, Shrader CD, Goldman D, Jackson DN, Frisbee JC. (2017). Altered post-capillary and collecting venular reactivity in skeletal muscle with metabolic syndrome. *Journal of Physiology*. 15(5): 5159-5174.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 41-50  
Description / Contribution Value: Author
13. Lemaster K, Jackson D, Welsh DG, Brooks SD, Chantler PD, Frisbee JC. (2016). Altered distribution of adrenergic constrictor responses contributes to skeletal muscle perfusion abnormalities in metabolic syndrome. *Microcirculation*. 24(2): e12349.  
<http://dx.doi.org/10.1111/micc.12349>  
Co-Author  
Accepted,  
Refereed?: Yes, Open Access?: No
14. Al-Khazraji BK, Jackson DN, Goldman D. (2016). A Microvascular Wall Shear Rate Function Derived From In Vivo Hemodynamic and Geometric Parameters in Continuously Branching Arterioles. *Microcirculation*. 23(4): 311-319.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No



15. Al Tarhuni M, Goldman D, Jackson DN. (2016). Comprehensive In Situ Analysis of Arteriolar Network Geometry and Topology in Rat Gluteus Maximus Muscle. *Microcirculation*. 23(6): 456-467.  
Last Author  
Published,  
Refereed?: Yes, Open Access?: No
16. Karla C Williams, Eugene Wong, Hon S Leong, Dwayne N Jackson, Alison L Allan, and Ann F Chambers. (2016). Cancer dissemination from a physical sciences perspective. *Convergent Science Physical Oncology*. 2(2): 1-14.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No
17. Al-Khazraji BK, Saleem A, Goldman D, Jackson DN. (2015). From one generation to the next: A comprehensive account of sympathetic receptor control in branching arteriolar trees. *Journal of Physiology (London)*. 14(593): 3093-3108.  
Last Author  
Published,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 4
18. Shoemaker K, Al-Khazraji BK, Badrov AM, Jackson DN. (2015). Neural control of vascular function in skeletal muscle. *Comprehensive Physiology*. 1(6): 303-329.  
Last Author  
Published,  
Refereed?: Yes  
Number of Contributors: 4
19. Yeung TP, Kurdi M, Wang Y, Al-Khazraji B, Morrison L, Hoffman L, Jackson D, Crukley C, Lee TY, Bauman G, Yartsev S. (2014). CT perfusion imaging as an early biomarker of differential response to stereotactic radiosurgery in C6 rat gliomas. *PLoS One*. 9(10): 1-11.  
Co-Author  
Published,  
Refereed?: Yes
20. Novielli NM, Jackson DN. (2014). Contraction-evoked vasodilation and functional hyperemia are compromised in branching skeletal muscle arterioles of young pre-diabetic mice. *Acta physiologica (Oxford, England)*. 211(2): 237-284.  
Last Author  
Published,  
Refereed?: Yes
21. Olver TD, McDonald MW, Grisé KN, Dey A, Allen MD, Medeiros PJ, Lacefield JC, Jackson DN, Rice CL, Melling CW, Noble EG, Shoemaker JK. (2014). Exercise Training Enhances Insulin-Stimulated Nerve Arterial Vasodilation in Rats with Insulin-Treated Experimental Diabetes. *American journal of physiology. Regulatory, integrative and comparative physiology*. 306(12): R941-50.  
Co-Author  
Published,  
Refereed?: Yes
22. Medeiros PJ, Jackson DN. (2013). Neuropeptide Y Y5-receptor activation on breast cancer cells acts as a paracrine system that stimulates VEGF expression and secretion to promote angiogenesis. *Peptides*. 48: 106-113.  
Last Author  
Published,  
Refereed?: Yes

23. Nyberg M , Al-Khazraji BK , Mortensen SP , Jackson DN , Ellis CG , Hellsten Y. (2013). Effect of extraluminal ATP application on vascular tone and blood flow in skeletal muscle: implications for exercise hyperemia. *American journal of physiology. Regulatory, integrative and comparative physiology.* 305(3): R281-90.  
Co-Author  
Published,  
Refereed?: Yes  
Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) - R4218A03
24. Novielli NM , Al-Khazraji BK , Medeiros PJ , Goldman D , Jackson DN. (2012). Pre-diabetes augments neuropeptide Y1- and  $\gamma$ 1-receptor control of basal hindlimb vascular tone in young ZDF rats. *PloS one.* 7(10): 1-9.  
Last Author  
Published,  
Refereed?: Yes
25. Al-Khazraji BK , Novielli NM , Goldman D , Medeiros PJ , Jackson DN. (2012). A simple "streak length method" for quantifying and characterizing red blood cell velocity profiles and blood flow in rat skeletal muscle arterioles. *Microcirculation (New York, N.Y. : 1994).* 19(4): 327-335.  
Last Author  
Published,  
Refereed?: Yes  
Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) - R4218A03
26. Medeiros PJ , Al-Khazraji BK , Novielli NM , Postovit LM , Chambers AF , Jackson DN. (2012). Neuropeptide Y stimulates proliferation and migration in the 4T1 breast cancer cell line. *International journal of cancer. Journal international du cancer.* 131(2): 276-286.  
Last Author  
Published,  
Refereed?: Yes
27. Twynstra J , Medeiros PJ , Lacefield JC , Jackson DN , Shoemaker JK. (2012). Y1R control of sciatic nerve blood flow in the Wistar Kyoto rat. *Microvascular research.* 84(2): 133-139.  
Co-Author  
Published,  
Refereed?: Yes
28. Al-Khazraji BK , Medeiros PJ , Novielli NM , Jackson DN. (2011). An automated cell-counting algorithm for fluorescently-stained cells in migration assays. *Biological procedures online.* 13(1): 1-6.  
Last Author  
Published,  
Refereed?: Yes
29. Jackson DN , Ellis CG , Shoemaker JK. (2010). Estrogen modulates the contribution of neuropeptide Y to baseline hindlimb blood flow control in female Sprague-Dawley rats. *American journal of physiology. Regulatory, integrative and comparative physiology.* 298(5): R1351-7.  
First Listed Editor  
Published,  
Refereed?: Yes
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Contribution Percentage: 81-90

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Contribution Percentage: 91-100
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Conference Date: 2018/4  
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2. Zahra Farid, Kent Lemaster, Mohammed Al Tarhuni, Jefferson C. Frisbee, Dwayne N. Jackson, and Daniel Goldman. (2017). Comprehensive Geometric and Hemodynamic Analysis of Complete Microvascular Networks in Rat Gluteus Maximus Muscle: An Integrated Model Derived from Experimental Data. FASEB Journal. Experimental Biology 2017, United States,  
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20. Al-Khazraji B.K., Novielli N.M., Goldman D., Jackson D.N. (2011). Novel video method for acquiring and modeling in vivo hemodynamic data from arteriolar networks of rat gluteus maximus skeletal muscle. *FASEB J. FASEB Experimental Biology, Washington, United States* (25:815.11),  
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21. Novielli, N.M., Al-Khazraji, B.K., Ellis, C.G., Jackson, D.N. (2010). Sympathetic modulation of baseline hindlimb blood flow and vascular conductance in a model of prediabetes using young Zucker Diabetic Fatty rats. *FASEB J. FASEB Experimental Biology, Anaheim, United States*,  
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26. Mattar L., Jackson D.N., Shoemaker J.K. (2008). Neuropeptide Y and age-related development of hypertension in the rat. FASEB J. FASEB Experimental Biology, San Diego, United States,  
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## Intellectual Property

### Patents

1. Clear-Iit. Canada. TRO226. 2018/08/21.  
Patent Status: Pending  
Year Issued: 2018  
Inventors: Tristan Squire-Smith and Dwayne N. Jackson  
Device for removing water from ears after swimming/bathing.