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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

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Primary Affiliation (*)

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Dr. Dwayne Jackson

Language Skills

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

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
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- 2011/1 - 2012/1 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 and Breast Cancer, Sympathetic Nervous System

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

Employment

2007/10	Associate Professor Medical Biophysics, Schulich School of Medicine & Dentistry, University of Western Ontario Full-time, Associate Professor Tenure Status: Tenure
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
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

Research Funding History

Awarded [n=8]

2016/9 - 2021/8
Co-investigator Developing In Vivo Imaging Technologies for Quantification of Tumour Associated Macrophages in Breast Cancer

Funding Sources:

2016/9 - 2021/8 Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 512,215 (Canadian dollar)
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 - 66,000
Funding Competitive?: Yes

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

2008/2 - 2008/2 Updating the systems biology component in the medical biophysics undergraduate
 Principal Applicant 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

Completed [n=6]

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

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 The impact of sympathetic nerves and associated receptor activation on the progression
 Principal Investigator 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

Student/Postdoctoral Supervision**Bachelor's Honours [n=22]**

2015/5 - 2017/4 Julia Hrynkiwicz (In Progress) , The University of Western Ontario
 Principal Supervisor 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 Jenna Kara (Completed) , The University of Western Ontario
 Principal Supervisor Student Degree Start Date: 2011/9
 Student Canadian Residency Status: Canadian Citizen

2014/5 - 2014/8 Mohammed Al-Tarhuni (Completed) , The University of Western Ontario
 Principal Supervisor Student Degree Start Date: 2010/9
 Student Canadian Residency Status: Canadian Citizen

2013/9 - 2014/4 Jeremy Ho (In Progress) , The University of Western Ontario
 Principal Supervisor Student Degree Start Date: 2013/9
 Thesis/Project Title: Scholars Elective Program Research

2013/9 - 2014/4 Nicole Omoruwa (Completed) , The University of Western Ontario
 Principal Supervisor Student Degree Start Date: 2012/9
 Student Canadian Residency Status: Canadian Citizen
 Thesis/Project Title: Work Study Research

2013/9 - 2014/4 David Yeung (Completed) , The University of Western Ontario
 Principal Supervisor Student Degree Start Date: 2011/9
 Thesis/Project Title: A novel approach to imaging microvessels
 Present Position: Medical School

2013/9 - 2014/4 Jenna Kara (Completed) , The University of Western Ontario
 Principal Supervisor Student Degree Start Date: 2010/9
 Thesis/Project Title: The role of neuropeptide Y in breast cancer cell migration

2013/4 - 2014/4 Elton Law (Completed) , The University of Western Ontario
 Principal Supervisor 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 Ryann Kwan (Completed) , The University of Western Ontario
 Principal Supervisor 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
- 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=13]

- Principal Supervisor Zahra Farid (In Progress) , The University of Western Ontario
Student Degree Start Date: 2016/9
- 2015/11 - 2017/8
Academic Advisor Patrick Rudak (In Progress) , The University of Western Ontario
Student Degree Start Date: 2015/9
Student Canadian Residency Status: Canadian Citizen
- 2014/9 - 2016/8
Principal Supervisor Mohammed Al-Tarhuni (In Progress) , 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 (In Progress) , 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
- 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

- 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
- 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
- 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=10]**
- 2015/9 - 2019/8
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
- 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
- 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
- 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

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 Co-InvestigatorDenmark
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)
2007/12 - 2015/11 Chair, Undergraduate Curriculum Continuity Committee, University of Western Ontario
2013/4 - 2015/4 Committee Member, Councilor, Microcirculatory Society (MCS)
2009/1 - 2013/12 Committee Member, Schulich School of Medicine & Dentistry Medical Admissions Committee, University of Western Ontario
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

- (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
- (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
- (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

4. (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
5. (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
6. (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
7. (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
8. (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
9. (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
10. (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
11. (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
12. (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
13. (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
14. (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

15. (2007). Elucidating novel mechanisms governing blood flow: One man's journey. Guelph University, Guelph, Canada
Main Audience: Researcher
Invited?: Yes, Keynote?: No, Competitive?: No
16. (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
17. (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 -
2013/03/08 | Stress and Breast Cancer, Parenting Your Parent, Rogers Television |
| 2011/09/21 -
2011/09/21 | Stress-induced breast cancer, Featured News Interview, CIXX 106.9 FM |
| 2011/09/20 -
2011/09/20 | Stress, Neuropeptide Y, and Breast Cancer, CTV2 News, CTV |
| 2011/09/19 -
2011/09/19 | Link Between Stress and Breast Cancer, Ontario Morning with Wei Chen, CBC Radio One |
| 2011/09/19 -
2011/09/19 | UWO researchers link breast cancer to stress., The Warm-up with Al Coombs, CJBK 1290FM |

Text Interviews

- | | |
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| 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. 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)
Co-Author
Published, Wiley,
Refereed?: Yes, Open Access?: No
Number of Contributors: 4
2. 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*. Epub ahead of print
<http://dx.doi.org/10.1111/micc.12349>
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Refereed?: Yes, Open Access?: No
3. 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.
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4. Kent Lemaster, Dwayne N. Jackson, Daniel Goldman, Jefferson C. Frisbee. (2016). Insidious incrementalism: The silent failure of the microcirculation with increasing peripheral vascular disease risk. *Microcirculation*. epub ahead of print
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5. 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.
Published,
Refereed?: Yes, Open Access?: No
6. 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.
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7. 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.
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8. Shoemaker K, Al-Khazraji BK, Badrov AM, Jackson DN. (2015). Neural control of vascular function in skeletal muscle. *Comprehensive Physiology*. 1(6): 303-329.
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9. 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.
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10. 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.
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11. Olver TD , McDonald MW , Gris e 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.
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12. 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.
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13. 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.
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Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) - R4218A03
14. Novielli NM , Al-Khazraji BK , Medeiros PJ , Goldman D , Jackson DN. (2012). Pre-diabetes augments neuropeptide Y1- and α 1-receptor control of basal hindlimb vascular tone in young ZDF rats.*PLoS one*. 7(10): 1-9.
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15. 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.
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16. 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.
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20. Jackson DN , Moore AW , Segal SS. (2010). Blunting of rapid onset vasodilatation and blood flow restriction in arterioles of exercising skeletal muscle with ageing in male mice. *The Journal of physiology*. 588(Pt 12): 2269-82.
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22. Jackson DN , Milne KJ , Noble EG , Shoemaker JK. (2005). Gender-modulated endogenous baseline neuropeptide Y Y1-receptor activation in the hindlimb of Sprague-Dawley rats. *The Journal of physiology*. 562(Pt 1): 285-294.
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23. Jackson DN , Milne KJ , Noble EG , Shoemaker JK. (2005). Neuropeptide Y bioavailability is suppressed in the hindlimb of female Sprague-Dawley rats. *The Journal of physiology*. 568(Pt 2): 573-81.
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24. Jackson DN , Noble EG , Shoemaker JK. (2004). Y1- and alpha1-receptor control of basal hindlimb vascular tone. *American journal of physiology. Regulatory, integrative and comparative physiology*. 287(1): 228-233.
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25. Lee K , Jackson DN , Cordero DL , Nishiyasu T , Peters JK , Mack GW. (2003). Change in spontaneous baroreflex control of pulse interval during heat stress in humans. *Journal of applied physiology (Bethesda, Md. : 1985)*. 95(5): 1789-1798.
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26. Jackson DN , Kenny GP. (2003). Upright LBPP application attenuates elevated postexercise resting thresholds for cutaneous vasodilation and sweating. *Journal of applied physiology (Bethesda, Md. : 1985)*. 95(1): 121-128.
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27. Kenny G.P., White M.D., Hamman F., Jackson D.N., Reardon F.D.(2000). Progressive maximal exercise and postexercise thermal response. *Adv in Exerc and Sports Physiol*. 6(3): 75-80.
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1. Kenny G.P. and Jackson D.N.(2002). The interrelation of thermoregulatory and baroreceptor reflexes in the control of postexercise warm thermoregulatory responses. *Environmental Ergonomics X*.
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Encyclopedia Entries

1. Dwayne N. Jackson, Nicole M. Novielli, Jasna Twynstra. (2016). Neurological Regulation of the Circulation. *Encyclopedia of Cardiovascular Research and Medicine*. 1(1)
Accepted, Wiley,
Contribution Percentage: 81-90

Conference Publications

1. Daniel Goldman, Baraa K. Al-Khazraji, and Dwayne N. Jackson. (2016). An Experimentally-Derived Wall Shear Rate Equation for Use in Microvascular Preparations. *Experimental Biology*, ,
Abstract
Last Author
Published, Invited?: No
2. Mohammed Al Tarhuni, Daniel Goldman, and Dwayne N Jackson. (2016). Geometric and Topological Analysis of Arteriolar Networks in the Rat Gluteus Maximus Muscle: One Network to Rule Them All?. *FASEB Experimental Biology*, ,
Abstract
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3. Mohammed Al Tarhuni, Dwayne N Jackson, and Daniel Goldman. (2016). Comprehensive Hemodynamic Analysis of Arteriolar Networks in the Rat Gluteus Maximus Muscle. *Experimental Biology*, ,
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4. Daniel Goldman, Amani H. Saleem, Baraa K. Al-Khazraji, and Dwayne N. Jackson. (2016). Estimating Blood Flow in Skeletal Muscle Arteriolar Trees Reconstructed from In Vivo Data. *Experimental Biology*, ,
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5. Leslie E Neidert, Mohammed Al-Tarhuni, Daniel Goldman, Heidi A Kluess, and Dwayne N Jackson. (2016). Endogenous dipeptidyl-peptidase IV modulates skeletal muscle arteriolar diameter in rats. *Experimental Biology*, ,
Abstract
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6. Novielli, N.M., Medeiros P.J., Jackson, D.N.(2014). Pre-diabetes promotes sympathetically-mediated arteriolar dysregulation in response to skeletal muscle contraction. *Faseb Journal*. *Experimental Biology*, San Diego, United States (676.20),
Conference Date: 2014/4
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Co-Author
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Refereed?: Yes, Invited?: No
7. Al-khazraji B.K., Saleem A., Goldman D., Jackson D.N.(2014). Hemodynamic consequences of spatially-dependent sympathetic regulation in skeletal muscle arteriolar trees.*Faseb Journal*. *Experimental Biology*, San Diego, United States (678.14),
Conference Date: 2014/4
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8. Yeung TPC, Al-Khazraji B, Morrison L, Hoffman L, Jackson D, Lee TY, Yartsev S, Bauman G.(2013). Distinguishing responders from non-responders to Bevacizumab using CT perfusion. Neuro-oncology. 4th Quadrennial Meeting of the World Federation of Neuro-Oncology, San Francisco, United States (15, supplement 3:OM),
Conference Date: 2013/11
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Co-Author
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Refereed?: Yes, Invited?: No
9. Yeung TPC, Al-Khazraji B, Morrison L, Hoffman L, Jackson D, Lee TY, Bauman G, and Yartsev S. (2013). Monitoring vascular response to stereotactic radiosurgery in a brain tumor model using CT perfusion. Radiotherapy and Oncology. 2013 CARO/COMP Joint Scientific Meeting: Innovations in Imaging, Montreal, Canada,
Conference Date: 2013/9
Abstract
Co-Author
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Refereed?: Yes, Invited?: No
10. Yeung TPC, Al-Khazraji B, Morrison L, Hoffman L, Jackson D, Lee TY, Yartsev S, and Bauman G. (2013). Assessing the acute anti-angiogenic effect of Bevacizumab on glioma with CT perfusion. The 11th Imaging Network Ontario Symposium, Toronto, Canada,
Conference Date: 2013/2
Abstract
Co-Author
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Refereed?: Yes, Invited?: No
11. Yeung TPC, Al-Khazraji B, Morrison L, Hoffman L, Jackson D, Lee TY, Bauman G, Yartsev S.(2013). Monitoring the vascular response of brain tumor to stereotactic radiosurgery with CT perfusion. The 11th Imaging Network Ontario Symposium, Toronto, ,
Conference Date: 2013/2
Abstract
Co-Author
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Refereed?: Yes, Invited?: No
12. Al-Khazraji B.K. and Jackson D.N.(2012). Heterogeneous arteriolar constriction and blood flow responses to sympathetic co-transmitters in skeletal muscle microvascular networks. British Microcirculation Society and The Microcirculatory Society Joint Meeting, Oxford University, UK., United Kingdom,
Conference Date: 2012/7
Abstract
Last Author
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Refereed?: Yes, Invited?: No
13. Medeiros P.J. and Jackson D.N.(2012). Neuropeptide Y stimulates VEGF expression, secretion, and angiogenesis in murine and human breast cancer. FASEB J. FASEB Experimental Biology, San Diego, (26:142.5),
Conference Date: 2012/4
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14. Novielli, N.M., Al-Khazraji, B.K., Jackson, D.N.(2011). Impaired microvascular control in contracting skeletal muscle in a murine model of prediabetes. FASEB J. FASEB Experimental Biology, Washington, (25:814.22),
Conference Date: 2011/4
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15. Medeiros P.J. and Jackson D.N.(2011). Neuropeptide Y Y5-receptor activation stimulates proliferation in the 4T1 breast cancer cell line. FASEB J. FASEB Experimental Biology, Washington, (25:122.4),
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16. Zeni G.M., Medeiros P.J., and Jackson D.N.(2011). Neuropeptide Y promotes chemotaxis in the 4T1 and MDA-MB 231 breast cancer cell lines. FASEB J. FASEB Experimental Biology, Washington, (25:792.16),
Conference Date: 2011/4
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17. 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),
Conference Date: 2011/4
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18. 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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19. Medeiros P.J. and Jackson D.N.(2010). The proliferative effects of sympathetic nerves and neuropeptide Y in a 4T1 cell breast cancer model. FASEB J. FASEB Experimental Biology, Anaheim, United States (24:421.12),
Conference Date: 2010/4
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Refereed?: Yes, Invited?: No

20. Mattar L., Jackson D.N., Ellis C.G., Noble E., Shoemaker J.K.(2009). Beta-arrestin and vasomotor control in the spontaneously hypertensive rat. FASEB J. FASEB Experimental Biology, New Orleans, United States,
Conference Date: 2009/4
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21. Medeiros P.J., Novielli N., Jackson D.N.(2009). Characterizing the sympathetic neuropeptide Y system the in 4T1 murine mammary carcinoma model.FASEB J. FASEB Experimental Biology, New Orleans, United States,
Conference Date: 2009/4
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22. Jackson D.N., Smith C.S., Lizardo M.M., Chambers A.F.(2008). Characterizing the sympathetic neuropeptide Y system in breast cancer. Canadian Breast Cancer Research Alliance 'Reasons for Hope', Vancouver, Canada,
Conference Date: 2008/4
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23. 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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24. Jackson D.N., Noble E.G., Shoemaker J.K.(2008). Ovariectomy modifies sympathetic neuropeptide Y control of hindlimb vasculature in female Sprague-Dawley rats. J Physiol (London). Themed Meeting of The Physiology Society: Determining control of the cardiovascular system in health and disease: from brain to blood vessel, Leeds, United Kingdom,
Conference Date: 2008/3
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25. Jackson D.N., Smith C.S., Ellis C.G., Shoemaker J.K.(2007). Estrogen modulated neuropeptide Y Y1-receptor control of baseline vascular conductance in the hindlimb of female Sprague-Dawley rats.Microcirculation. 8th World Congress for Microcirculation, Milwaukee, United States,
Conference Date: 2007/8
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26. Jackson D.N. and Segal S.S.(2006). Sex and aging interact to modulate the rapid onset of arteriolar dilation in mouse skeletal muscle. FASEB Experimental Biology, ,
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27. Jackson D.N. and Segal S.S.(2006). Impaired arteriolar blood flow with aging in skeletal muscle of male C57Bl/6 mice. ACSM: Integrative Physiology of Exercise, ,
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28. Jackson D.N., Milne K.J., Noble E., Shoemaker J.K.(2005). Neuropeptide Y Y2-receptor activation affects baseline endogenous Y1 receptor control of vascular conductance in female Sprague-Dawley rat. FASEB Experimental Biology, ,
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29. Jackson D.N., Milne K.J., Noble E., Shoemaker J.K.(2004). Gender modulates endogenous baseline NPY Y1-receptor activation in skeletal muscle vasculature. FASEB Experimental Biology, ,
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30. Jackson D.N., Noble E., Shoemaker J.K.(2003). NPY Y1-receptor activation affects baseline hindlimb vascular conductance in Sprague-Dawley rats in vivo. FASEB Experimental Biology, ,
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31. Jackson D.N., Lee K., Mack G.W.(2001). The influence of elevated core temperature on baroreflex control of heart rate in humans. FASEB Experimental Biology, ,
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