


Signature

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EDUCATION

PhD, Developmental Neuroscience 1994
The Australian National University, Canberra, Australia

MS, Plastic Surgery 1988
The Plastic Surgery Hospital, Peking Union Medical College
Chinese Academy of Medical Sciences, Beijing, China

MD, Beijing University School of Medicine, Beijing, China 1983

POSTGRADUATE TRAINING

Post-doctoral/Research Fellow, Cell Biology, Neuroscience 1994 - 1998
Vanderbilt University Medical School, Nashville, Tennessee

Biomedical Researcher/Scientist, Research School of Biological Sciences 1991 - 1994
The Australian National University, Canberra, Australia

Biochemical Researcher	1990
Bond University, Gold Coast, Australia	
Resident, Plastic Surgery	1985 - 1988
The Plastic Surgery Hospital, Peking Union Medical College	
Chinese Academy of Medical Sciences, Beijing, China	
Resident, General Surgery and Orthopedics	1983 - 1985
Ji-Shui-Tan Hospital, Beijing, China	

FACULTY APPOINTMENTS

Professor (Tenured), Neurosurgery	2015 -
Wayne State University School of Medicine, Detroit, Michigan	
Visiting Professor	2011 - Present
Weifang Medical University, Shandong, China	
Associate Professor (Research Educator Track), Neurosurgery	2008-2015
Wayne State University School of Medicine, Detroit, Michigan	
Associate Professor, Neurosurgery	2005 - 2008
University of Texas, Health Science Center, San Antonio, Texas	
Visiting Professor, Neuroscience, Neurosurgery, Neurology	2005 - Present
Capital University of Medical Sciences, Beijing, China	

Assistant Professor (Research Educator Track), Neurosurgery 2003 - 2005

Wayne State University School of Medicine, Detroit, Michigan

Assistant Professor (Non-Tenure Research Track), Neurosurgery 1998 - 2003

Wayne State University School of Medicine, Detroit, Michigan

HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS

Attending Plastic Surgeon 1988 - 1989

The Plastic Surgery Hospital, Peking Union Medical College

Chinese Academy of Medical Sciences, Beijing, China

MAJOR PROFESSIONAL SOCIETIES

International Society for Cerebral Blood Flow and Metabolism 2008 - Present

National Neurotrauma Society 2008 - Present

Plastic Surgery Research Council 2005 - Present

American Heart Association Stroke Council 2002 - Present

Society for Neuroscience 1994 - Present

Australian Neuroscience Society 1990 - 1994

Society for Plastic Surgery, Chinese Medical Association (CMA) 1987 - 1990

HONORS AND AWARDS

Honor Award of Neurosurgery 2008

This award recognizes the Productive and Prolife Four Years

Of Dedication and Excellence in Research, Education and Scholarship

University of Texas Health Science Center, San Antonio, Texas

National Achievement Award of Science and Technology China	1992
ANU Scholarship Australian National University, Canberra, Australia	1991 - 1994
Chinese Academy of Medical Sciences Scholarship The Plastic Surgery Hospital, Peking Union Medical College Chinese Academy of Medical Sciences, Beijing, China	1985 - 1988

SERVICE

Wayne State University

Department of Neurosurgery

Vice Chair for Research, Department of Neurosurgery Wayne State University School of Medicine, Detroit, Michigan	2012 – Present
Director of Cerebrovascular Research, Department of Neurosurgery	2008 - Present
<i>Committee Membership</i>	
Promotion and Tenure Advisory Committee	2008 - 2014
Faculty and Merit Review Advisory Committee	2008 - 2014
Resident Selection Committee	2008 – Present

School of Medicine

<i>Graduate Student Research Day Judge</i> <i>present</i>	2015-
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Committee Membership – School of Medicine/University

School of Medicine Library Committee 2012 – Present

Medical Student Admission Committee 2016-Present

University

Research Grant Committee 2014 - Present

Other Institutions

Admissions Committee 2005 - 2008

the University of Texas Health Science Center at San Antonio, Texas

Director of Basic Research of Neurosurgery and Plastic Surgery 2005 - 2008

The University of Texas Health Science Center, San Antonio, Texas

Scholarly Service

Grant Review Activity

The United Arab Emirates University Center-Based Research Grant Committee 2014 - Present

Hong Kong Research Grant Council 2014 – Present

Swiss National Science Foundation 2016-present

American Heart Association

National 2008 - 2014

Western Region 2007, 2008

Chinese Science and Nature Foundation, *National* 2008 – 2013

National Institute For Academic Anaesthesia 2011

Manitoba Health Research Council, Canada 2007

Health Research Board, Ireland 2006

Biotechnology and Biological Science Research Council, United Kingdom 2005

VA RRC Committee Reviewer 2017-

Review for Career Development and Promotion

Macau University of Science and Technology

2015

Capital Medical University, Beijing, China

2010-2015

Service for Peer-Reviewed Journals*Editorship**Environmental Disease*

2015 - Present

Editor-in-Chief

Brain Circulation: A Journal of Cerebrovascular Reperfusion and Neurorehabilitation

2014 - Present

Associated Editor-in-Chief

Neurological Research

Editor-in-Chief in Special Issue for Stroke Research

2006, 2008-
2017

Associate Editor

2016-Present

Editorial Board Membership

Neurological Research; OA Alcohol (an Open Access Publishing London journal); World Journal of Clinical Case Conference (WJCCC); Journal of Neurology and Neurosurgery; Journal of Neurological Disorders & Epilepsy, Annals of Neuroscience and Psychology; International Journal of Neurology and Neurotherapy, Brain Circulation, Chinese Medicine, Environmental Disease, Journal of Neurology and Therapy, Journal of Experimental Stroke & Translational Medicine, World Journal of Clinical Cases, Austin Neurology, Clinical Neurological Surgery, Journal of Neurology and Neurological Disorders (JNND), The Journal of Cellular Biology and Molecular Sciences (OMMEGA), Clinics in Surgery, Current Opinions in Neurological Science, Stroke and Vascular Neurology, Journal of Heart and Stroke, Heart and Mind, Journal of Neurology and Psychiatric Disorders (JNPD), Annals of Neurological Surgery, Frontiers in Neurology, Journal of Novel Physiotherapy and Rehabilitation, Journal of Surgery and Acute Care, The Neurosurgery Journal, Global Scientific Research Journal of Neurology, Madridge Journal of Neuroscience (MJNS), Open Access Journal of Cardiology, International Journal of JENPUB Neurological Disorders & Stroke, Annals of Atherosclerosis Research, International Journal of Brain Disorders & Therapy, Pulsus Journal of Surgical Research, Clinics in Stroke, Annals of Cardiology and Vascular Medicine, Journal of Immunopathology, Journal of Neurology Forecast, Journal of Physical and Rehabilitation Medicine Forecast, Journal of Molecular and Cellular Biology Forecast, American Research Journals (ARJ), Journal of Anesthesia & Surgery, Journal of Clinical Neurology, Neurosurgery

and Spine, World journal of vascular surgery, The Neurosurgery Journal, Journal of Surgery Forecast, The Neurologist: Clinical & Therapeutics Journal, Global Scientific Research Journals, Drug Delivery Letters, Journal of Neuroscience and Neurosurgery, Archives of Vascular Medicine, Journal of Neuroscience and Neurosurgery, International Journal of Life Sciences Research & Development (IJLSRD), Austin Physical Medicine, Madridge Journal of Surgery (MJS)(total 57)

Review of Manuscripts (total 50)

Journal of American Heart Association

2016 – Present

Manuscript Reviewer

Brain and Behavior

2016 – Present

Manuscript Reviewer

Journal of Chinese Medicine

2015 – Present

Manuscript Reviewer

EBioMedicine

2015 – Present

Manuscript Reviewer

European Journal of Clinical Investigation

2015 – Present

Manuscript Reviewer

Metabolic Brain Disease

2015 – Present

Manuscript Reviewer

Aging and Disease

2014 - Present

Manuscript Reviewer

Nature Protocol 2014 - Present

Manuscript Reviewer

Synapse 2014 - Present

Manuscript Reviewer

BioMed Research International 2013 - Present

Manuscript Reviewer

Journal of Exercise and Fitness 2013 - Present

Manuscript Reviewer

Molecular and Cellular Neuroscience 2013 - Present

Manuscript Reviewer

PlosOne 2013 - Present

Manuscript Reviewer

Gene 2012 - Present

Manuscript Reviewer

Journal of Neurochemistry 2011 - Present

Manuscript Reviewer

NeuroImage 2011 - Present

Manuscript Reviewer

Stroke 2011 - Present

Manuscript Reviewer

Journal of Neurochemistry 2010 - Present

Manuscript Reviewer

Journal of Neuroscience Methods 2010 - Present

Manuscript Reviewer

Journal of Neuroscience Research 2010 - Present

Manuscript Reviewer

Translational Stroke Research 2010 - Present

Manuscript Reviewer

Behavior Brain Research 2009 - Present

Manuscript Reviewer

Cytokine 2009 - Present

Manuscript Reviewer

Journal of Blood Flow and Metabolism 2009 - Present

Manuscript Reviewer

Journal of Neuroinflammation 2009 - Present

Manuscript Reviewer

Journal of Neurotrauma

2009 - Present

Manuscript Reviewer

Neurobiology of Disease

2009 - Present

Manuscript Reviewer

Acta Neuropathologica

2008 - Present

Manuscript Reviewer

JAP

2008 - Present

Manuscript Reviewer

Journal of Neuroscience

2008 - Present

Manuscript Reviewer

Neuroscience Letters

2008 - Present

Manuscript Reviewer

Neurochemical Research

2008 - Present

Manuscript Reviewer

Obesity

2008 - Present

Manuscript Reviewer

<i>Future Neurology</i>	2007 - Present
Manuscript Reviewer	
<i>Methods and Findings in Experimental and Clinical Pharmacology</i>	2007 - Present
Manuscript Reviewer	
<i>Nutrition</i>	2007 - Present
Manuscript Reviewer	
<i>Psychoneuroendocrinology</i>	2007 - Present
Manuscript Reviewer	
<i>Molecular Brain Research</i>	2006 - Present
<i>American Journal of Physiology: Heat and Circulation Physiology</i>	2005 - Present
Manuscript Reviewer	
<i>BMC Physiology; Journal of Applied Physiology</i>	2005 - Present
Manuscript Reviewer	
<i>European Journal of Neuroscience</i>	2005 - Present
Manuscript Reviewer	
<i>Experimental Gerontology</i>	2005 - Present
Manuscript Reviewer	
<i>Frontier in Neurosurgery Research</i>	2005 - Present

Manuscript Reviewer

Neuroscience

2005 - Present

Manuscript Reviewer

Brain Research

2004 - Present

Manuscript Reviewer

Neurological Research

2000 - Present

Manuscript Reviewer

International Society/Conference Review Service

International Symposium on Cerebral Blood Flow, Metabolisms, and Function

2005 - Present
held biennially

International Conference on Quantification of Brain Function with PET

Other Professional Related Service

Consultation with patients and families concerning learning and memory impairment in hydrocephalus

1998 - 2003

TEACHING

Years at Wayne State University: 2003 – 2005, 2008 - Present

Years at Other Institutions:

- *Capital University of Medical Sciences: 2005 – 2015*
- *University of Texas: 2005 – 2008*
- *Weifang Medical University: 2011 - 2015*

Teaching at Wayne State University

Neuroscience Seminars in Biomedical Engineering	2011 - Present
Traumatic Brain Injury Workshop	2010 - 2015

Students/Residents/Nurses Mentored (*signifies publication with the mentee)*At Wayne State University (1998-2005)*

- Julie Pilitsis, MD, candidate for PhD, Brain Ischemia
- Vickie Gordon*, NP, MSN, candidate for PhD
- Bin Yao*, MD, research assistant, hydrocephalus and traumatic brain injury research
- Hong Xu, MS, research assistant, hydrocephalus and traumatic brain injury research
- Yandong Zhou*, BS, stroke therapy study, candidate for Master Degree – biological research
- Jie Li*, MD, stroke therapy study
- Salman Azam*, MS, medical student, inhibitory of protein synthesis in ischemia and reperfusion injury
- Xiaodong Luan*, MS, research assistant, stroke reduction, minimization and recovery
- Jun Zhong*, MD, neurosurgery fellow, stroke therapy using omentum
- Justin C. Clark*, research assistant (WSU)/MD candidate (University of Michigan), platelet adhesion in stroke after exercise; neuroprotection
- Matt Lungren, MD candidate (University of Michigan), platelet adhesion in stroke after exercise
- Natalie N. Rizk, PhD candidate, ischemia in diabetic rats.
- John Steele, MD, candidate for PhD, Brain Trauma

At University of Texas Health Science Center at San Antonio (2005-2008)

- Jamie Berger*, BS, MD candidate, Peripheral Thermal Injury on Brain
- Michael Mrizek*, MS, MD candidate, Neuroprotection of exercise
- Kathryn Swann*, BS, MD candidate, Peripheral Thermal Injury on Brain (Scholarship)

- Raul Reyes Jr.*, BS, MD candidate, Peripheral Thermal Injury on Brain (Scholarship: Research Award)
- Katherine Hayes*, BS, MD candidate, Neuroprotection of exercise (Scholarship)
- Brian Cox*, BS, MS, MD candidate, Neuroprotection of exercise (Scholarship; Research Award)
- Seema Mahale*, BS, MD candidate, Neuroprotection of exercise (Scholarship)
- Siddharth Shetgeri*, BS, MS, MD candidate (Northwestern University), Peripheral Thermal Injury on BBB
- Tarak Patel*, MD, Plastic Surgery Resident, tPA on BBB function
- Megan Wald*, BS, MD candidate, Peripheral Thermal Injury on BBB dysfunction (Scholarship; Research Award)
- Victoria Lin*, BS, MD candidate, Neuroprotection of exercise
- Ryan Rogers*, BS, MD candidate, Are Ketogenic Diets Neuroprotective? (Scholarship; Research Award)
- Brandon Liebelt*, BS, MD candidate, Neuroprotection of exercise (Scholarship; Research Award)
- Alecia Curry*, BS, MD candidate, Neuroprotection of exercise (Scholarship)
- Paul O'Leary, BS, MD candidate, Neuroprotection of exercise (Scholarship; Research Award)
- Chuck Plumlee*, BS, MD candidate, TRL-4 Expression during Physical Exercise and Neuroprotective Effect in Stroke (Scholarship)
- Miao Guo*, MS, research fellow, Exercise-induced Neuroprotection in Stroke
- Aaron M. Carranza, BS (Creighton University); Exercise-induced Neuroprotection in Stroke
- Michael Quiroz, Undergraduate Student BS candidate (University of Chicago), Peripheral Thermal Injury on BBB Dysfunction via MMP Expression
- Brad Daniels*, High School Student, Neuroscience Research Program, Exercise Preconditioning Preserves Adequate Blood Flow During Reperfusion in Ischemic Stroke

At Wayne State University (2008-present, total of 72)

Medical Students (total of 51)

- Nathan T. Zwagerman*, BS, Medical Student (Wayne State University, Class 2010), Exercise Reduces Brain Injury by Improving CBF during Reperfusion after Stroke.

- Frank X. Cao*, BS, Medical Student (Wayne State University, Class 2011), Local Hypothermia in Acute Stroke Treatment
- Ahmer Ali*, BS, Medical Student (Wayne State University, Class 2011), Exercise Preconditioning Reduces Neuronal Apoptosis in Stroke by Up-regulating HSP-70 (HSP-72) and ERK 1/2; Traumatic brain injury and brain edema
- Geol Gunjan*, BS, Medical Student (Wayne State University, Class 2011), Pre-ischemic Exercise Preserves Cerebral Blood Flow (CBF) During Reperfusion in Stroke
- Mohammed Shenaq*, BS, Medical Student (Wayne State University, Class 2012), Traumatic Brain Injury and Neuronal Damage
- Harish Kinni*, BS, Medical Student (Wayne State University, Class 2012), The difference of Cerebral Glycolysis Metabolism between Forced and Voluntary Physical Exercise and Neuroprotection in Stroke; Effect of Cerebral Extracellular Glycerol Content in Stroke
- Peter Papapetrou*, BS, Medical Student (Wayne State University, Class 2012), Effect of TNF- α , HSP-70 and ERK 1/2 on Reducing Apoptosis in Stroke Following Exercise
- Khawar Chandhry*, BS, Medical Student (Wayne State University, Class 2012), Physical Exercise Reduces Matrix Metalloproteinase-9 (MMP-9) Activity and Neuronal Apoptosis via Extracellular Signal-Regulated Kinase 1 and 2 (ERK1/2) Activation in Stroke
- Rachel Beredo, BS, Medical Student (Wayne State University, Class 2012), Increased Cerebral Glycolysis Metabolism during Physical Exercise and Neuroprotection in Stroke
- Kevin Yuan*, BA, Medical Student (Wayne State University, Class 2013), Alcohol-Induced Neuroprotection under Hypoxia/Reoxygenation to Neuronal Damage and Synapse Loss
- Tony Wang*, BA, Medical Student (Wayne State University, Class 2013) Post-TBI Administration of Ethanol in Ameliorating Blood Brain Barrier Integrity and Functional Outcome (Medical Student Summer Research Fellowship, MSSRF, Medical Student Research Symposium 2nd Place Award, 2011)
- Ryan Kochanski*, BA, Medical Student (Wayne State University, Class 2013) Post-stroke Administration of Ethanol in Ameliorating Brain Injury in Ischemic Stroke by Reducing Brain Metabolism (Medical Student Summer Research Fellowship, MSSRF, Medical Student Research Symposium 1st Place Award, and The Lois & Herschel Sandberg Award for Biomedical Research, 2011)
- David Y. T. Chou*, BA, MS, Medical Student (Wayne State University, Class 2013) Differential Gene Expression Analysis in Ethanol-Medicated Rats Following Traumatic Brain Injury (TBI) (Medical Student Summer Research Fellowship, MSSRF)

- Vance Fredrickson*, Medical Student (Wayne State University, Class 2013) Hypothermia in stroke therapy
- Jung-Min Kim*, BA, Medical Student (Wayne State University, Class 2013) Ethanol and Oxygen Therapy in Stroke
- Paul Fu*, BA, Medical Student (Wayne State University, Class 2014) Ethanol in Ameliorating Brain injury After Stroke (Medical Student Summer Research Fellowship, MSSRF, Medical Student Research Symposium 2nd Place Award, 2012; Best Presentation Award in Society for Neuroscience Michigan Chapter Conference, 2013)
- Karam P. Asmaro*, MS, BA, Medical Student (Wayne State University, Class 2014) Ethanol in Stroke Therapy (Medical Student Summer Research Fellowship, MSSRF, Medical Student Research Symposium 3rd Place Award, 2012)
- Fatema Esmail*, BA, Medical Student (Wayne State University, Class 2014) Preischemic exercise reduces brain damage by ameliorating metabolic disorder in ischemia/reperfusion injury
- Shannon Moore-Langston*, BA, Medical Student (Wayne State University, Class 2014) Exercise in Ameliorating Brain injury After Stroke
- Tia Chakraborty*, BA, Medical Student (Wayne State University, Class 2014) Ethanol in Ameliorating Brain injury After Stroke
- David Altshuler*, BA, Medical Student (Wayne State University, Class 2014) Brain injury After Stroke
- Christopher Sy*, BA, MS, Medical Student (Wayne State University, Class 2015) Ethanol in Stroke Therapy (Medical Student Summer Research Fellowship, MSSRF, Medical Student Research Symposium First Place Award-poster, 2013)
- Sweena Parmar*, BS, Medical Student (Wayne State University/Columbia University Medical School, Class 2015). Ethanol in Stroke Therapy (Medical Student Summer Research Fellowship, MSSRF, Medical Student Research Symposium First Place Award-oral, 2013)
- Timothy Kwiecien*, BA, Medical Student (Wayne State University, Class 2015) Stroke Models and Neurportection
- Jian (Jane) Zhang BA, Medical Student (Wayne State University, Class 2015) Neurportection in Stroke
- Omar Elmadoun*, BA, Medical Student (Wayne State University, Class 2016) Ethanol and Oxygen Therapy in Ischemic Stroke (Medical Student Summer Research Fellowship, MSSRF)
- Adam Hafeez*, BA, Medical Student (Wayne State University, Class 2016) Ethanol and Oxygen Therapy in Hemorrhagic Stroke (Medical Student Summer Research Fellowship, MSSRF)

- Yaser Carcora*, BS, Medical Student (Wayne State University, Class 2016) Post-ischemia Exercise Enhances Rehabilitation After Stroke
- Rami Al-Aref*, BS, Medical Student (Wayne State University, Class 2016) Astrocyte-conditioned medium attenuates glutamate-induced apoptotic cell death in primary cultured spinal cord neurons of rats
- William A. Li*, BE, MS , Medical Student (Wayne State University, Class 2017) Ethanol in Ameliorating Brain injury After Stroke by Reducing Hyperglycemia (Medical Student Summer Research Fellowship, MSSRF)
- David Brogan*, BA, Medical Student (Wayne State University, Class 2017) Post-ischemia Exercise Enhances Rehabilitation After Stroke
- Ethan Zhao*, MS, Medical Student (Wayne State University, Class 2017) Ethanol and Oxygen Therapy in Hemorrhagic Stroke (Medical Student Summer Research Fellowship, MSSRF)
- Fauzia Akbary*, BS, Medical Student (Wayne State University, Class 2017) Ethanol and Oxygen Therapy in Hemorrhagic Stroke
- James Yip, BS, Medical Student (Wayne State University, Class 2017) Stroke Therapy Research
- Brain Forreider*, BS, Medical Student (Wayne State University, Class 2018) Ethanol and Oxygen Therapy in Hemorrhagic Stroke
- James Stevenson, BS, Medical Student (Wayne State University, Class 2018) Ethanol and Oxygen Therapy in Hemorrhagic Stroke (Medical Student Summer Research Fellowship, MSSRF)
- Hajra Khan, BS, Medical Student (Wayne State University, Class 2018) Ethanol and Oxygen Therapy in Hemorrhagic Stroke (Medical Student Summer Research Fellowship, MSSRF)
- Kaiyin Liu, MS, Medical Student (Wayne State University, Class 2018) Post-ischemia Exercise Enhances Rehabilitation After Stroke (Medical Student Summer Research Fellowship, MSSRF)
- Alexa Thibodeau, BS, Medical Student (Wayne State University, Class 2018) Controlled Brain Hyperglycolysis and the Associated NOX Complex Formation by Ethanol: An Alternative Approach in Reducing Hyperglycemia-enhanced Injury after Stroke (Medical Student Summer Research Fellowship, MSSRF)
- Brian Chun, BS, Medical Student (Wayne State University, Class 2018) Phenobarbital versus Valproate for Generalized Convulsive Status Epilepticus
- Mitchell Huber*, BS, Medical Student (Wayne State University, Class 2019) Stroke Therapy Research (Medical Student Summer Research Fellowship, MSSRF)
- Ankush Chandra*, BS, Medical Student (Wayne State University, Class 2019) Stroke Therapy Research

- John Tommy Pandy*, BS, Medical Student (Wayne State University, Class 2019) Stroke Therapy Research
- Mordechai G Sadowsky*, BS, Medical Student (Wayne State University, Class 2019) Stroke Therapy Research (Medical Student Summer Research Fellowship, MSSRF)
- Joshua Wright*, BS, Medical Student (Wayne State University, Class 2019) Stroke Therapy Research
- Radhika Rastogi*, BS, Medical Student (Wayne State University, Class 2019) Stroke Therapy Research
- Amer Mansoor, BS, Medical Student (Wayne State University, Class 2020) Stroke Therapy Research
- Christopher R Stone*, BS, Medical Student (Wayne State University, Class 2020) Stroke Therapy Research
- Sanjana Kulkarni, BS, Medical Student (Wayne State University, Class 2020) Stroke Therapy Research
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Masters Students

- Hassan Kassem*, BA, MS candidate (Wayne State University)/Medical Student, AQP in TBI and Stroke, 2010
- William A. Li*, BE, Master Student (Wayne State University)/Medical Student, HIF- α in Stroke, 2012

Neurosurgery/Neurology Fellows

- Tetsuhiro Higashida*, MD, PhD, Neurosurgery Fellow (Wayne State University), Role of HIF-1 in Stroke and Traumatic Brain Injury (TBI), 2010-2012
- Sanjay Konakondla*, MD, Medical Student, Neurosurgery Fellow (Wayne State University), Stroke and Traumatic Brain Injury (TBI), 2010-2013
- R. Tran*, MD, Neurosurgery Fellow (Wayne State University), Stroke Therapy, 2011

- Mohammed Hussain*, MD, Neurology, Resident (Wayne State University), Stroke Therapy, 2012-present
- Chaitanya Sikharam*, Neurosurgery Fellow (Wayne State University), Stroke Therapy, 2012-2013
- Jiamei Sheng*, MD, Post-doctorial Fellow (Wayne State University), Stroke Therapy, 2016-2017

Undergraduate Students

- Kevin Li*, BS student (University of Michigan)/Medical Student, Alcohol-Induced Neuroprotection under Hypoxia/Reoxygenation to Brain Edema: A Brain Slice Culture Study, 2010-2011
- Radhika Rastogi*, Undergraduate (Wayne State University)/Medical Student, Neuroscience Research and MRI in Stroke Diagnosis. 2012-2015
- Sunpreet Singh*, Undergraduate (Wayne State University). Neuroscience Research. 2012-present

Faculty

- Yangjie Liu*, MD, Neurosurgery Visiting Scholar (Wayne State University), Stroke Therapy, Associate Professor, 2015-present
- Ran Meng*, MD, Neurology Visiting Scholar (Harvard Medical School), Stroke Therapy, Associate Professor, now Professor, 2010-2013,
- Xiaokun Geng*, MD, Neurosurgery Visiting Scholar (Wayne State University), Stroke Therapy, Assistant Professor, now Associate Professor, 2010-present,
- Lipeng Cai*, MD, Neurosurgery Visiting Scholar (Wayne State University), Stroke Therapy, Assistant Professor, 2012-present,
- Ruiqiang Xin*, MD, Neurosurgery Visiting Scholar (Wayne State University), Stroke Therapy, Assistant Professor, 2013-present,
- Shiqi Zheng, MD, Neurosurgery Visiting Scholar (Wayne State University), Stroke Therapy, Associate Professor, 2015

Essays/Theses/Dissertations Directed

Sunpreet Singh*, Undergraduate, Biology,

2016

APQs in Stroke for Bachelor Degree in Science

R. Rastogi, MedStart Student, Biomedical Engineering

2015

MRI in Stroke Diagnosis for Bachelor Degree in Science

Chengpen Zhou, BS, Biomedical Engineering

2015

For Master Degree in Science

Yan Li, BS, Biomedical Engineering

2014

Investigation of the Relationship between Axonal Injury, Biomarker Expression, and Mechanical Response in a Rodent Head Impact Acceleration Model

For PhD

WA Li, BS, Biomedical Engineering

2013

Hyperglycemia and Ischemic Stroke

For Master Degree in Science

Hassan Kassem, BA, Wayne State University School of Medicine

2010

Modulation of Aquaporins and the Resulting Effects on Traumatic Brain Injury and Stroke

For Master Degree in Science

Deepti Kamasamudram Guruprakash, Biomedical Engineering

2010

Effects of strain and strain rate on axonal injury in a spinal nerve root model

For Master Degree in Science

Julie Pilitsis, MD, Physiology

2006

Brain Ischemia, For PhD

Visiting Professor and Lecturer Teaching (Since 2008)

Design of Scientific Project 2014, 2015

Capital Medical University LuHe Hospital Research Symposium

SCI Article: Writing and Publishing 2014

Capital Medical University Xuanwu Hospital Research Symposium

Writing and Publishing SCI Article 2014

Beijing University Aerospace Central Hospital

SCI Article: Writing and Publishing 2013

Capital Medical University LuHe Hospital Research Symposium

Experimental Design and SCI Article Publication 2013

Capital Medical University Beijing LuHe Hospital Research Symposium

SCI Article: Writing and Publishing 2012, 2013

Capital Medical University Tiantan Hospital Research Symposium

Writing, Submitting, and Publishing English Manuscripts 2011-2016

Beijing University Aerospace Central Hospital

A Guide of Writing, Submitting, and Publishing English Manuscripts 2010

Sanxi Academy of Medicine, Taiyuan, Sanxi, China

Medical Career Development: Academic Publication

2008

Tiantan International Stroke Conference

GRANTS, CONTRACTS, AND OTHER FUNDING

Active National/International Grants and Contracts

Role: Principal Investigator, Percent Effort: 59%

VA RRD Grant; NIH RO1 Equivalent

Title: "Reducing Brain Hyperglycolysis: A Novel Strategy for Hyperglycemia after Stroke"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: United States Department of Veterans Affairs

3/2016-2/2020

Total Direct Costs: \$1,100,000

Role: Principal Investigator, Percent Effort: 20%

American Heart Associate Grant in Aid

Title: "Oxygen and Ethanol As Synergetic Combination Therapy For Acute Ischemic Stroke"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: American Heart Association

7/2014-6/2016

Total Direct Costs: \$143,000

Active Other Grants and Contracts

Role: Principal Investigator

LuHe Neuroscience Fund

Title: "Neuroprotection Research in Stroke"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy and to investigate the underlying mechanisms.

Source: Beijing LuHe Hospital

12/2013-12/2017

Total Direct Costs: \$100,000

Pending National/International Grants and Contracts

Role: Principal Investigator, Percent Effort: 62.5%

VA RRD Grant; NIH RO1 Equivalent

Title: "Brain Gluconeogenesis in Ischemia: A Potential Target of Drug-induced Hypothermia"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: United States Department of Veterans Affairs

12/2017-11/2021

Total Direct Costs: \$1,100,000 (in preparation)

Role: Principal Investigator, Percent Effort: 62.5%

VA RRD Grant; NIH RO1 Equivalent

Title: "Time-dependent metabolic mechanisms of exercise for a novel stroke rehab strategy"

The major goal of this study is to develop a rehabilitation strategy after acute ischemic stroke.

Source: United States Department of Veterans Affairs

Total Direct Costs: \$1,100,000 (under revision)

Role: Principal Investigator, Percent Effort: 20%

NIH R21

Title: "Hibernation-like effect of ETOH in Attenuating Cerebral Hyperglycolysis in Stroke"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: NIH/NINDS

Total Direct Costs: \$275,000 (under revision)

T35 NIH Training Grant Application in preparation

2016-2010

Role: Co-Investigator; Mark Haacke, PI

Previously Funded Grants and Contracts

Role: Principal Investigator, Percent Effort: 20%

American Heart Associate Grant in Aid

Title: "Selective Intraarterial Infusion and Regional Brain Hypothermia in Stroke Therapy"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: American Heart Association

7/2010-6/2013 (with one year extension because of my ill with heart attack)

Total Direct Costs: \$143,000

Role: Co-Investigator, Percent Effort: 10%

Noreen F. Rossi (Principal Investigator)

VA RRD VA Merit Review Award Grant; NIH RO1 Equivalent

Title: "Angiogenesis Leading to Improved Neuropathologic and Cognitive Outcome"

The major goal of this study is to develop a neuroprotective and rehabilitation strategy after acute traumatic brain injury.

Source: United States Department of Veterans Affairs

6/2008-11/2011

Role: Principal Investigator

Texas Higher Education Coordinating Board Advanced Research Program

Title: "Combined Intra-arterial Revascularization and Local Brain Cooling in Acute Stroke Treatment"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: Texas State USA

6/2008-5/2010

Total Direct Costs: \$150,000 (only awarded proposal from 42 applications)

Role: Principal Investigator

UTHSCSA URC Grants Program

Title: "Computational Study of Signal Networks in Exercise-reduced Apoptosis after Stroke"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: University of Texas Health Science Center at San Antonio

6/2007-5/2008

Total Direct Costs: \$15,000

Role: Co-Investigator, Percent Effort: 10%

Principal Investigator: T. Petrov

NIH/NINDS (NS39860)

Title: "Control of Microvascular Tone in Traumatic Brain Injury"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: NIH/NINDS

2004 - 2009

Total Direct Costs: \$1,862,836

Role: Principal Investigator, Percent Effort: 20%

American Heart Associate Grant in Aid

Title: "Exercise preconditioning induces endogenous neuroprotection in ischemic stroke by reducing reperfusion injury"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke.

Source: American Heart Association Midwest Affiliate

7/2004-6/2007

Total Direct Costs: \$132,000

Role: Principal Investigator, Percent Effort: 20%

American Heart Associate Grant in Aid

Title: "Pre-reperfusion Infusion into Ischemic Area: A Potential Therapy in Stroke"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: American Heart Association Midwest Affiliate

7/2002-6/2004

Total Direct Costs: \$110,000

Role: Principal Investigator

Wayne State University Matching Research Fund

Title: "Functional outcome modulated by motor skill training"

The major goal of this study is to develop a rehabilitation strategy after acute ischemic stroke therapy.

Source: Wayne State University

2002-2003

Total Direct Costs: \$64,000

Role: Principal Investigator

Wayne State University Matching Research Fund

Title: "Therapeutic Potential of Local Infusion in Ischemia-Reperfusion Injury and the Underlying Pathological Mechanism"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: Wayne State University

2001-2002

Total Direct Costs: \$40,000

Role: Co-Investigator, Percent Effort: 10%

Principal Investigator: Warren Lockette

NIH (09-59-00(M02) ER)

Title: "Adrenergic Receptors and Hypertension in Blacks"

The major goal of this study is to develop a neuroprotective strategy in acute ischemic stroke therapy.

Source: NIH/NINDS

2000 - 2004

Total Direct Costs: \$1,567,307

Role: Principal Investigator

Wayne State University School of Medicine Research Stimulation Fund Title: "Pathophysiology of Visual Impairment in Infantile Hydrocephalus"

The major goal of this study is to mechanisms underlying impaired vision in hydrocephalus.

Source: Wayne State University

1999-2000

Total Direct Costs: \$\$35,000

Role: Principal Investigator

Wayne State University Interdisciplinary Research Seed Fund

Title: "Learning and Memory Formation of Motor Skills in Clinical Hydrocephalus"

The major goal of this study is to mechanisms underlying impaired motor function in hydrocephalus.

Source: Wayne State University

1999-2000

Total Direct Costs: \$\$10,000

Previously Submitted, Not Funded Grants and Contracts (last 2 years)

A New Approach to Attenuating Brain Metabolic Dysfunction Improves Stroke Outcome, Department of Veterans Affairs RR&D Merit Award, Principal Investigator (62.5%), \$1,100,000	2014 - 2018
Neuroprotection & Mechanism of Ethanol Therapy: New Prospects for an Ancient Drug, NIH/NIAAA R01; Principal Investigator (50%), \$1,250,000; Percentile: 37%	2013 - 2018

PATENTS

- Combination therapy using ethanol and an alcohol dehydrogenase inhibitor for the treatment of ischemia/reperfusion injury (pending application: 12-1020)

PUBLICATIONS

Peer-Reviewed Publications

Reports of Original Work (* mentee, #corresponding author)

1. Zhou D, Meng R, Li SJ, Ya JY, Ding JY, Shang SL, Ding Y, Ji X. Advances in chronic cerebral circulation insufficiency. CNS Neurosci Ther. 2018 Jan; 24(1):5-17. Review. PMID: 29143463.
2. Hu Y, Meng R, Zhang X, Guo L, Li S, Wu Y, Duan J, **Ding Y**, Ji X. Serum neuron specific enolase may be a marker to predict the severity and outcome of cerebral venous thrombosis. J Neurol. 2018 Jan; 265(1):46-51. PMID: 29128928

3. Zhou D, Meng R, Zhang X, Guo L, Li S, Wu W, Duan J, Song H, **Ding Y**, Ji X. Intracranial hypertension induced by internal jugular vein stenosis can be resolved by stenting. *Eur J Neurol*. 2018 Feb;25(2):365-e13. PMID: 29114973.
4. Guan L, Geng X, Shen J, Yip J, Li F, Du H, Ji Z, **Ding Y**. PM2.5 inhalation induces intracranial atherosclerosis which may be ameliorated by omega 3 fatty acids. *Oncotarget*. 2017 Dec 16;9(3):3765-3778. PMID: 29423081
5. Wu D, Shi J, Elmadhoun O, Duan Y, An H, Zhang J, He X, Meng R, Liu X, Ji X, **Ding Y**. Dihydrocapsaicin (DHC) enhances the hypothermia-induced neuroprotection following ischemic stroke via PI3K/Akt regulation in rat. *Brain Res*. 2017 Sep 15;1671:18-25.
6. Geng X, Li F, Yip J, Peng C, Elmadhoun O, Shen J, Ji X*, **Ding Y***, Neuroprotection by Chlorpromazine and Promethazine in Severe Transient and Permanent Ischemic Stroke, *Mol Neurobiol*, (2016). IF 5.4
7. Zhao W, Meng R, Ma C, Hou B, Jiao L, Zhu F, Wu W, Shi J, Duan Y, Zhang R, Zhang J, Sun Y, Zhang H, Ling F, Wang Y, Feng W, **Ding Y**, Ovbiagele B, Ji X. Safety and Efficacy of Remote Ischemic Preconditioning in Patients with Severe Carotid Artery Stenosis Prior to Carotid Artery Stenting: A Proof-of-Concept, Randomized Controlled Trial. *Circulation*. 2017 Feb 7. [Epub ahead of print] PMID: 28174194. IF 17.0
8. Chen J, **Ding Y**, Ji X. Response to Letter Regarding Article, "Endovascular Hypothermia in Acute Ischemic Stroke: A Pilot Study of Selective Intra-Arterial Cold Saline Infusion". *Stroke*. 2016 Nov; 47(11):e253. No abstract available. PMID: 27686103. IF 5.8
9. Shen J, Hafeez A, Stevenson J, Yang J, Yin C, Li F, Wang S, Du H, Ji X, Rafols JA, Geng X and **Ding Y**[#]. Omega-3 fatty acid supplement prevents development of intracranial atherosclerosis. *Neuroscience* 2016; 334: 226-235. IF 3.4
10. Hou C, Duan J, Luo Y, Meng R, Li S, Yao C, **Ding Y**, Zhang H, Wang Y, Zhao G, Zhang J, Ji X. Remote limb ischemic conditioning treatment for intracranial atherosclerotic stenosis patients. *Int J Stroke*. 2016 Oct;11(7):831-8. doi: 10.1177/1747493016654489. PMID: 27312678. IF 3.8
11. Wu D, Chen J, Wang B, Zhang M, Shi J, Ma Y, Zhu Z, Yan F, He X, Li S, Dornbos Iii D, **Ding Y**, Ji X. Endovascular ischemic stroke models of adult rhesus monkeys: a comparison of two endovascular methods. *Sci Rep*. 2016 Aug 18; 6:31608. doi: 10.1038/srep31608. IF 5.3
12. Li F, Shi W, Zhao EY, Geng X, Li X, Peng C, Shen J, Wang S and Ding Y[#]. Enhanced apoptosis from early physical exercise rehabilitation following ischemic stroke. *J Neurosci Res*. 2017 Apr;95(4):1017-1024. doi: 10.1002/jnr.23890. Epub 2016 Aug 30. IF 2.8
13. Chen J, Liu L, Zhang H, Geng X, Jiao L, Li G, Coutinho JM, Ding Y, Liebeskind DS, Ji X. Endovascular Hypothermia in Acute Ischemic Stroke: Pilot Study of Selective Intra-Arterial Cold Saline Infusion. *Stroke*. 2016 Jul; 47(7):1933-5. doi: 10.1161/STROKEAHA.116.012727. PMID: 27197848. IF 5.8

14. Huang GX, Ji X, Ding Y, Huang HY. Association between serum cystatin C levels and the severity or potential risk factors of acute ischemic stroke. *Neurol Res.* 2016 Jun;38(6):518-23. doi: 10.1080/01616412.2016.1187825. PMID: 27320246. IF 1.49
15. Ren C, Sy C, Gao J, **Ding Y**, Ji X. Animal Stroke Model: Ischemia-Reperfusion and Intracerebral Hemorrhage. *Methods Mol Biol.* 2016;1462:373-90. doi: 10.1007/978-1-4939-3816-2_21.
16. Wang B, Wu D, Dornbos III D, **Ding Y**, Ji X. Local Cerebral Hypothermia Induced by Selective Infusion of Cold Lactated Ringer's: A Feasibility Study in Rhesus Monkeys. *Neurological Research*, 2016, 38(5) (*my role: study conceptualization, design, data analysis and manuscript writing*). IF 1.49
17. Shen J*, Stevenson J*, Geng X, Yang J, Yin C, Li F*, Wang S, Du H, Ji X, **Ding Y**#. A New Clinically Relevant Model for Intracranial Atherosclerosis in Rats. *Neurological Research*, 2016, 38(5). IF 1.49
18. Cai L*, Stevenson J*, Geng X, Peng C, Ji X, Xin R, Rastogi R*, Sy C*, Rafols JA, **Ding Y**. Combining Normobaric Oxygen with Ethanol or Hypothermia Prevents Brain Damage from Thromboembolic Stroke via PKC-Akt-NOX Modulation. *Mol Neurobiol.* 2016 Jan 28. [Epub ahead of print] PMID: 26820681 Impact Factor: 5.4
19. Cai L*, Stevenson J*, Peng C, Xin R*, Rastogi R*, Liu K*, Geng X, Gao Z, Ji X, Rafols JA, Ji Z, **Ding Y**. Adjuvant therapies using normobaric oxygen with hypothermia or ethanol for reducing hyperglycolysis in thromboembolic cerebral ischemia. *Neuroscience.* 2016 Mar 24; 318:45-57. Impact Factor: 3.4
20. Cai L*, Thibodeau A*, Peng C, Ji X, Rastogi R*, Xin R*, Singh S*, Geng X, Rafols JA, **Ding Y**. Combination Therapy of Normobaric Oxygen with Hypothermia or Ethanol Modulates Pyruvate Dehydrogenase Complex in Thromboembolic Cerebral Ischemia. *Journal of Neuroscience Research.* 2016 Aug;94(8):749-58. doi: 10.1002/jnr.23740. PMID: 27027410. Impact Factor: 2.83
21. Ren C, Kobeissy F, Alawieh A, Li N, Li N, Zibara K, Zoltewicz S, Guingab-Cagmat J, Larner SF, Ding Y, Hayes RL, Ji X, Mondello S. Assessment of Serum UCH-L1 and GFAP in Acute Stroke Patients. *Sci Rep.* 2016 Apr 14;6:24588. doi: 10.1038/srep24588. PMID: 27074724. IF 5.3
22. Zhang Y*, Ying G, Ren C, Liu Z, **Ding Y**, Ji X. Local intra-arterial administration of human platelet rich plasma reduces infarction volume after focal ischemic stroke. *Brain Research* 1594: 267-273, 2015, Impact Factor: 2.83 (*my role: study conceptualization, design, data analysis and manuscript writing*)
23. Chen J, Fredrickson V*, **Ding Y**, Jiang L, Luo Y, Ji X. The effect of a microcatheter-based selective intra-arterial hypothermia on hemodynamic changes following transient cerebral ischemia. *Neurological Research* 37(3): 263-268, 2015, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)

24. Jia BX, Yang Q, SY CA*, Wan M, Wang H, Huo LY, Zhao E, **Ding Y**, Ji XM, Guo XH. Muscle edema of the lower limb determined by MRI in Asian hypokalaemic periodic paralysis patients. *Neurological Research* 37(3): 246-252, 2015, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)
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- minor stroke. PLOS ONE 16;10(3): e0120105, 2015, Impact Factor: 3.53 (*my role: study conceptualization, design, and manuscript writing*)
34. Meng R, **Ding Y**, Asmaro K*, Brogan D*, Meng L, Shi J, Duan Y, Sun Z, Wang B, Ling F, Jia J, Ji X. Ischemic Preconditioning is Safe and Effective for Octo- and Nonagenarians with Intracranial Arterial Stenosis in Stroke Prevention and Treatment. *NeuroTherapeutics* ([Epub ahead of print]PMID: 25956401), 2015, Impact Factor: 3.88 (*my role: study conceptualization, design, data analysis and manuscript writing*)
 35. Geng X*/Elmadhoun O*, Peng C*, Ji X, Hafeez A*, Liu Z, Du H, Rafols JA, **Ding Y**. Ethanol and NBO: a novel approach in modulating pyruvate dehydrogenase complex after severe transient and permanent ischemia. *Stroke* 46(2): 492-499, 2015, Cited by 2, Impact Factor: 6.02
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 37. Li S, Ma C*, Shao G, Esmail F*, Hua Y, Jia L, Qin J, Ren C, Luo Y, **Ding Y**, Borlongan CV, Ji X. Safety and feasibility of remote limb ischemic preconditioning in patients with unilateral middle cerebral artery stenosis and healthy volunteers. *Cell Transplant* PMID: 25198862 [Epub ahead of print], 2014, Impact Factor: 3.57 (*my role: study conceptualization, design, data analysis and manuscript writing*)
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 39. Ren C, Guingab-Cagmat J, Kobeissy F, Zoltewicz S, Mondello S, Gao M, Hafeez A*, Li N, Geng X*, Cao J, Larner SF, Anagli J, Hayes RL, Ji X, **Ding Y**. A neuroproteomic analysis of rat brain post intracerebral hemorrhagic stroke. *Brain Research Bulletin* 26 (102C): 46-56, 2014, Impact Factor: 2.97
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Case Reports (* mentee, #corresponding author)

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Review Articles (invited)(*mentee, #corresponding author)

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12. Zhao E*. Y, Fendi A*, Cai L*, **Ding Y**. The role of AKT (protein kinase B) and protein kinase C in cerebral ischemia-reperfusion Injury. *Neurological Research*, 2016, Apr;38(4):301-8. Impact Factor: 1.45

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14. Liu K, Khan H, Geng X, Zhang J, **Ding Y**. Pharmacological hypothermia: a potential for future stroke therapy? *Neurol Res.* 2016 Jun;38(6):478-90. Review. PMID: 27320243
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Editorials and Commentaries (*mentee, #corresponding author)

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6. Sy CA*, Liu L, **Ding Y #**. Ongoing progress and new developments in the clinical approach to Stroke and Cerebrovascular Disease. *Neurological Research* 36(5): 389-390, 2014, Cited by 2, Impact Factor: 1.45
7. Fu P*, **Ding Y #**. Forward Thinking in Stroke Management. *Neurological Research* 35(5): 441-442, 2013, Cited by 2, Impact Factor: 1.45
8. Wang T*, **Ding Y #**. Furthering our understanding of stroke and other neurologic pathologies. *Neurological Research* 34(4):323-324, 2012, Cited by 1, Impact Factor: 1.45
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10. **Ding Y#**, Goel G*. Diagnosis and Treatment in Stroke. *Neurological Research* 32(4): 324-326, 2010, Cited by 2, Impact Factor: 1.45
11. **Ding Y#**, Zwagerman NT*. Research progress in stroke therapy. *Neurological Research* 31 (4): 329-330, 2009, Impact Factor: 1.45
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Book Authorship, Editorship, and Chapters (* mentee, #corresponding author)

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2. Akbary F*, Grzegorzczak K*, **Ding Y**. Effects of Physical Exercise Following Ischemic Stroke: Is Timing an Important Factor? In *Exercise Training: Types and Methods, Role in Disease Prevention and Health Benefits*, Editors: Lucy Dukes, Nova Science Publishers, Inc, 2015

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4. Ren C, Sy CA*, **Ding Y**, Ji X. Animal Stroke Model: Ischemia/Reperfusion and Intracerebral Hemorrhage. In: Ronald Hayes, Firas Kobeissy, Stefania Mondello Editors, Injury Models of Central Nervous system: From Brain & Spinal Cord; in series 'Methods in Molecular Biology', Springer, USA (Humana Press, Inc), 2014
5. Dornbos III D*, **Ding Y**. Mechanisms of Neuroprotection Underlying Physical Exercise in Ischemia/Reperfusion Injury. In: Agrawal, Brain Injury. InTech, 2012
6. Kochanski R*, Dornbos III D*, **Ding Y**. Neuroprotection and Physical Preconditioning: Exercise, Hypothermia and Hyperthermia. In: Jeffrey M. Gidday, Miguel Perez-Pinzon, John H. Zhang, Innate Neuroprotection for Stroke. Springer, 2012
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Published and Nationally/Internationally Presented Abstracts (for last 15 years)(*mentee)

1. Rastogi R*, Geng X, **Ding Y**. A Novel Potential Therapy in Severe Stroke: Chlorpromazine/Promethazine Combination in Transient and Permanent Ischemia. International Stroke Conference 2017, Houston Texas.
2. Zhang J*, Liu K*, Duan Y, Wu D, Geng X, Ji X, **Ding Y**. Enhanced Neuroprotection by Synergistically Induced Hypothermia with Pharmacological and Physical Approach in Experimental Stroke. International Stroke Conference 2017, Houston Texas.
3. Huber M*, Shen J*, Geng X, **Ding Y**. Exercise too soon after stroke exacerbates hyperglycolysis-mediated brain damage. International Stroke Conference 2017, Houston Texas.
4. An H*, Wright JC*, Duan Y, Wu D, Ji X, **Ding Y**. Phenothiazines Enhance Mild Hypothermia-induced Neuroprotection via PI3K/Akt Regulation in Experimental Ischemia/Reperfusion Injury. International Stroke Conference 2017, Houston Texas.
5. Tong Y*, Ding JY*, Sadowsky MG*, Du H, Geng X, **Ding Y**. Early but not too early, high intensity physical exercise rehabilitation may be beneficial: A Pilot Clinical Study. International Stroke Conference 2017, Houston Texas.
6. Liu K*, Cai L*, Peng C, Geng X, Ji X, Guthikonda M, **Ding Y**. Low Concentration Normobaric Oxygen Enhanced Therapeutic Effect of Mild Hypothermia or Ethanol through a Reduction in Apoptosis. International Stroke Conference 2016, LA California.

7. Liu K*, Zhang J*, Duan Y, Ji X, Guthikonda M, **Ding Y**. Beneficial Effect of Faster Cooling Elicited by Combination of TRPV1 Agonist (Dihydrocapsaicin) and Mild Physical Hypothermia in Ischemia/Reperfusion Injury. International Stroke Conference 2016, LA California.
8. Thibodeau A*, Cai L*, Peng C, Geng X, Diaz V, Ji X, **Ding Y**. Combination Therapy of Normobaric Oxygen with Hypothermia or Ethanol Modulates Pyruvate Dehydrogenase Complex in Thromboembolic Cerebral Ischemia. International Stroke Conference 2016, LA California.
9. Khan H*, Geng X, Rafols JA, **Ding Y**. Effects of Physical Exercise Following Ischemic Stroke: Too Early is Not a Good Thing. International Stroke Conference 2016, LA California.
10. Stevenson J*, Shen J*, Geng X, Li F, Wang S, Narayanan S, **Ding Y**. Omega-3 Fatty Acid Supplement Prevents Progression of Intracranial Atherosclerosis. International Stroke Conference 2016, LA California.
11. Ji X, Zhao W, **Ding Y**. Remote Ischemic Preconditioning Reduces New Vascular Brain Injury Early after Carotid Artery Stenting: A Randomized Controlled Trial. International Stroke Conference 2016, LA California.
12. Chen J, Zhang H, Jiao L, Liu L, Geng X, Ding Y, Ji X. A Pilot Study of Selective Brain Cooling by Intr-arterial Infusion of Cold Saline in Acute Ischemic Stroke. International Stroke Conference 2016, LA California.
13. Li W*, Peng C, Guthikonda G, **Ding Y**. Acute Ethanol Administration Decreased Metallopeptidase and Aquaporin Expressions: A Potential Treatment for Ischemic Stroke? International Stroke Conference, Nashville, TN, 2015. Stroke 46 (Suppl 1), ATP245-ATP245
14. Brogan D*, Geng X*, Peng P, Rastogi R*, Cai L*, Singh S*, Guthikonda M, **Ding Y**. Reduced Cerebral Monocarboxylate Transporters and Lactate Levels by Ethanol and Normobaric Oxygen Therapy in Severe Transient and Permanent Ischemic Stroke. International Stroke Conference 2015. Nashville, USA, Feb 10-13, 2015. STROKE 46 (Suppl 1)
15. Akbary F*, Peng C, Asmaro K*, Kochanski R*, Guthikonda M, **Ding Y**. Controlled Brain Glucose Uptake and Metabolism by Ethanol: An Alternative Approach in Improving Stroke Outcome. International Stroke Conference 2015. Nashville, USA, Feb 10-13, 2015. Stroke 46 (Suppl 1), ATP96-ATP96
16. Elmadhoun O*, Peng C, Geng X*, Guthikonda M, **Ding Y**. Post-stroke Administration of Ethanol and Normobaric Oxygen Preserves Oxidative Metabolism By Modulating Pyruvate Dehydrogenase Complex in Transient and Permanent Ischemic Stroke. International Stroke Conference, 2014. Stroke 45 (Suppl 1), ATP213-ATP213
17. Hafeez A*, Peng C, Geng X*, Guthikonda M, **Ding Y**. PKC- δ and Akt Signaling in Reduced Apoptosis by Ethanol after Transient Ischemic Stroke. American Academy of Neurology 66th Annual Meeting, Philadelphia, PA, USA, 2014. Neurology 82 (10 Supplement), P1. 100-P1. 100

18. Elmadhoun O*, Peng C, Geng X*, Guthikonda M, **Ding Y.** Post-stroke Administration of Ethanol and Normobaric Oxygen Preserves Oxidative Metabolism By Modulating Pyruvate Dehydrogenase Complex in Transient and Permanent Ischemic Stroke. American Academy of Neurology 66th Annual Meeting, Philadelphia, PA, USA, 2014. Neurology 82 (10 Supplement), P1. 099-P1. 099
19. Sy CA*, Geng X*, Fu P*, Peng C, Fredrickson V*, Ji X, Guthikonda M, **Ding Y.** A Powerful Combination Therapy for Stroke: Post-Ischemia Ethanol Administration and Normobaric Oxygenation on Ischemic Rats. International Stroke Conference, 2013. STROKE 44 (2)
20. Fu P*, Peng C, Geng X*, Asmaro K*, Guthikonda M, **Ding Y.** Acute Administration of Ethanol Reduced Brain Apoptosis by Regulating Expression of Apoptotic Proteins in Ischemic Stroke. International Stroke Conference, 2013. STROKE 44 (2)
21. Parmar S*, Geng X*, Peng C, Guthikonda M, **Ding Y.** Enhanced Neuroprotection of Normobaric Oxygenation with Ethanol Conferred by Apoptosis Reduction in Ischemic Stroke. International Stroke Conference, 2013. STROKE 44 (2)
22. Meng R, Konakondla S*, Meng L, Xi C, Liu Y, Li G, Li S, Jia J, Ling F, Hussain M, **Ding Y,** Ji X. Arm Ischemic Preconditioning Prevents Stroke Recurrence in Octogenarians with Intracranial Arterial Stenosis. International Stroke Conference, 2013. STROKE 44 (2)
23. Asmaro K*, Peng C, Kochanski R*, Higashida T*, Lee I, Hüttemann M, Guthikonda M, **Ding Y.** Post-ischemia Ethanol (PIE) Therapy is Highly Neuroprotective in Acute Stroke by Reducing Oxidative Injury through Improved Metabolic Function. The 27th International Symposium on Cerebral Blood Flow, Metabolism and Function and the 11th International Conference on Quantification of Brain Function with PET, 2013. Proceeding book.
24. Geng X*, Ji X, Wang F*, Wang Y*, Asmaro K*, **Ding Y.** Neuroprotective Effect of Acute Ethanol Administration in Rat with Transient Cerebral Ischemia. International Stroke Conference, 2012. STROKE 43 (2)
25. Ren C, Gao M*, Li N, Cao J, Ji X, **Ding Y.** Remote Ischemic Conditioning Reduces Brain Edema in Experimental Ischemia/Reperfusion Injury. International Stroke Conference, 2012. STROKE 43 (2)
26. Asmaro K*, Kochanski R*, Peng C, Higashida T*, Lee I, Hüttemann M, Guthikonda M, **Ding Y.** Ethanol Administration after Stroke Regulates Mitochondrial Oxidative Phosphorylation by Targeting Cytochrome c Oxidase Activity and Pyruvate Dehydrogenase Expression. 62th Congress of Neurological Surgery, 2012, Neurosurgery 69 (2).
27. Kochanski R*, Peng C, Higashida T*, Sikharam C*, Guthikonda M, **Ding Y.** Neuroprotection Conferred by Ethanol Therapy in Experimental Stroke: An Inhibitory Effect on Hyperglycolysis and NADPH Oxidase Activation. 62th Congress of Neurological Surgery, 2012. Neurosurgery 69 (2).

28. Higashida T*, Peng C, Guthikonda M, **Ding Y**. Hypoxia Inducible Factor-1 α (HIF-1 α) Contributes To Brain Edema After Stroke By Regulating Aquaporins (AQPs) And Glycerol Distribution In Brain. International Stroke Conference, 2011. STROKE 42 (2)
29. Higashida T*, **Ding Y**, Kreipke CW, Rafols RA, Peng C, Schafer S, Schafer P, Ding JY*, Li X, Kinni H*, Guthikonda, M, Rossi NF, The Role of Hypoxia-Inducible Factor-1 α , Aquaporin-4 and Matrix Metalloproteinase-9 in Blood Brain Barrier Disruption and Brain Edema after Traumatic Brain Injury Congress of Neurological Surgery, 2010. Neurosurgery 67 (2), 548
30. Sprague S, Daniels B*, Davis D, Jimenez DF, **Ding Y**. Pre-ischemic Exercise Preserves Cerebral Blood Flow (CBF) During Reperfusion in Stroke. 58th Annual Meeting for Congress of Neurological Surgery, 2008. Neurosurgery 65 (2).
31. Jimenez DF, Rogers R*, Liebelt B*, Curry A*, **Ding Y**. Matrix Metalloproteinase-9 (MMP-9) Activity Mediates Neuronal Apoptosis via Extracellular Signal-Regulated Kinase 1 and 2 (ERK1/2) Activation in Stroke. 58th Annual Meeting for Congress of Neurological Surgery, 2008. Neurosurgery 65 (2).
32. Plumlee C*, Jimenez DF, Rogers R*, Liebelt B*, Curry A*, **Ding Y**. TLR-4 Expression during Physical Exercise and Neuroprotective Effect in Stroke. 58th Annual Meeting for Congress of Neurological Surgery, 2008. Neurosurgery 65 (2).
33. Curry A*, Liebelt B*, Rogers R*, Davis WW, Sprague S, Jimenez DF, **Ding Y**. Pre-ischemic Upregulation of NF- α induced by Physical Exercise Reduces Brain Inflammation via ERK1/2 Signaling in Stroke. International Stroke Conference, 2008. STROKE 39 (2)
34. Liebelt B*, Curry A*, Rogers R*, Davis WW, Sprague S, Jimenez DF, **Ding Y**. Interplay of TNF- α , HSP-70 and ERK 1/2 Provides Neuroprotection from Stroke Following Exercise. International Stroke Conference, 2008. STROKE 39 (2), 667-667
35. Rogers R*, Liebelt B*, Curry A*, Davis WW, Sprague S, Jimenez DF, **Ding Y**. Physical Exercise Reduces Matrix Metalloproteinase-9 (MMP-9) Activity and Neuronal Apoptosis via Extracellular Signal-Regulated Kinase 1 and 2 (ERK1/2) Activation in Stroke. International Stroke Conference, 2008. STROKE 39 (2), 663-663
36. Plumlee C*, Wu Y, Davis WW, Guo M*, Sprague S, Jimenez DF, **Ding Y**. TLR-4 Expression during Physical Exercise and Neuroprotective Effect in Stroke. International Stroke Conference, 2008. STROKE 39 (2), 660-660
37. Guo M*, Wu Y, Sprague S, Ji X, Jimenez DF, **Ding Y**. Cerebral Glycolysis Metabolism during Physical Exercise and Neuroprotection in Stroke. International Stroke Conference, 2008. STROKE 39 (2)
38. Guo M*, Ji X, Li YH, Lu GW, Yu S, **Ding Y**. Increased neural tolerance in adult mouse after repeated exposures to hypoxic condition and associated glucose metabolism. International Stroke Conference, 2007. STROKE 38 (2)

39. Mahale S*, Cox B*, Hayes K*, Carranza A*, Davis WW, Jimenez DF, **Ding Y**. Exercise Preconditioning Ameliorates Blood Brain Barrier Dysfunction in Stroke by Enhancing Basal Lamina. International Stroke Conference, 2007. STROKE 38 (2), 562-562
40. Cox B*, Davis MD, Jimenez DF, **Ding Y**. Activation of Extracellular Signal-Regulated Kinase 1 and 2 (ERK1/2) in Exercise-Preconditioning, Improves Reperfusion after Stroke in rodent model. International Stroke Conference 2007. Stroke 38 (2), 561-561
41. Cox B*, Mahale S*, Hayes K*, Carranza A*, Wu Y, Sprague S, Jimenez DF, **Ding Y**. The Role of Matrix Metalloproteinase-9 (MMP-9) in Exercise-Preconditioning-Induced Neuroprotection in Stroke. International Stroke Conference, 2007. Stroke 38 (2), 553-553
42. Hayes K*, Carranza A*, Sprague S, Jimenez DF, **Ding Y**. Forced Exercise Procedure Effectively Induces Neuroprotection. International Stroke Conference, 2007. STROKE 38 (2)
43. Jimenez DF, **Ding Y**. The Beneficial Role of Extracellular Signal Regulated Kinases 1 and 2 (ERK1/2) in Exercise-induced Neuroprotection after Stroke. 57th Annual Meeting Congress of Neurological Surgery, 2007. Neurosurgery 64 (2).
44. Jimenez DF, Swann K*, **Ding Y**. Peripheral Thermal Injury Causes Blood Brain Barrier (BBB) Dysfunction in a Rat Model. 57th Annual Meeting Congress of Neurological Surgery, 2007. Neurosurgery 64 (2).
45. Sprague S, Davis MD, **Ding Y**. Exercise Preconditioning Preserves an Adequate Cerebral Blood Flow During Reperfusion in Ischemic Stroke: a Micro-PET And mRNA Expression Study. 31st International Stroke Conference, 2006. STROKE 37 (2), 684-684
46. Ding YH*, Davis WW, **Ding Y**. Upregulation of Tumor Necrosis Factor- α and Integrins after Exercise Pre-conditioning Enhances Cerebrovascular Integrity in Ischemic Rats. 31th International Stroke Conference, 2006. STROKE 37 (2), 628-629
47. **Ding Y**, Mrizek M*, Wu Y. Exercise Preconditioning Ameliorates Brain Inflammatory Injury Via TNF Signaling Pathway. 31st International Stroke Conference, 2006. STROKE 37 (2)
48. **Ding Y**, Jimenez DF. Reduced Brain Edema and Matrix Metalloproteinase (MMP) Expression By Pre-reperfusion Infusion into Ischemic Territory in Rat. 56th Annual Meeting for Congress of Neurological Surgery, 2006. Neurosurgery 63 (2).
49. **Ding Y**, Wu Y, Jimenez DF, Barone CM. Disruption of Basal Lamina in Blood Brain Barrier after Peripheral Thermal Injury Is Associated with Expression of Matrix Metalloproteinase (MMP) in Rat. 56th Annual Meeting for Congress of Neurological Surgery, 2006. Neurosurgery 63 (2).
50. Savage G, Jimenez DF, Barone CM, **Ding Y**. Cerebral Inflammatory Response to Peripheral Thermal Injury. 56th Annual Meeting for Congress of Neurological Surgery, 2006. Neurosurgery 63 (2).

51. **Ding Y**, Ding YH*, Li J*, McAllister II JP, Fessler, R.D, Guthikonda M, Rafols JA. Pre-reperfusion flushing of saline into ischemic territory improves neurovascular integrity by reducing matrix metalloproteinase (MMP) upregulation in stroke. 30th International Stroke Conference, 2005. *STROKE* 37 (2)
52. **Ding Y**, Ding YH*, Li J*, Rafols JA. Exercise induces integrin overexpression and improves neurovascular integrity in ischemic stroke. 30th International Stroke Conference, 2005. *Stroke* 36 (2), 470-470
53. **Ding Y**, Li J*, Luan XD*, Rofals JA, Diaz FG. Pre-ischemic Exercise Ameliorates Inflammatory Injury in Stroked Rats During Reperfusion. *Stroke*. 35:238. 29th International Stroke Conference, San Diego, 2004. *STROKE* 35 (1), 238-238
54. **Ding Y**, Li J*, Young C, Luan XD*, Diaz FG, Phillis JW. Neuroprotective Effect of Exercise-induced Angiogenic factors on Ischemia/Reperfusion Injury in Stroke. *Stroke*. 35: 273. 29th International Stroke Conference, San Diego, 2004. *Stroke* 35 (1), 273-273
55. **Ding Y**, Li J*, Clark JC*, Rofals JA, Diaz FG. Pre-ischemic Training Reduces Brain Damage in Experimental Stroke that Correlates with Regional Angiogenesis and Cellular Expression of Neurotrophin. *Stroke*. 34 (1): 240-241 2003
56. Lai Q and **Ding Y**. Complex Movement Enhances Transfer of Motor Learning. *Journal of Sport & Exercise Psychology*, 25, 2003, S85-S86
57. **Ding Y**, Azam S*, DeGracia DJ, Li J*. Focal Brain Ischemia And Reperfusion Associated With Modifications In Eukaryotic Initiation Factor 2 α . *Stroke* 33 (1): 400-401, 2002
58. **Ding Y**, Zhou YD*, Li J*, Azam S, Lai Q, Gordon V, Rofals JA, Diaz FG. Functional Recovery Enhanced by Motor Skill Training Is Related to Synaptogenesis in the Thalamus of Rats with Transient Middle Cerebral Artery Occlusion. *Stroke*. 33 (1): 355, 2002
59. Lai Q, **Ding Y**, Erbaugh SJ. Motor timing performance and learning: A developmental effect. *Research Quarterly for Exercise and Sport*, 71, S31, 2000
60. Lai Q, **Ding Y**, Erbaugh SJ, Canady AI. Motor learning impairment of shunted hydrocephalic children. *Journal of Sport and Exercise Psychology*, 22, S71, 2000
61. **Ding Y**, Yao B*, Lai Q, McAllister JP II, Diaz FG. Impaired motor learning following traumatic brain injury in the rat. *Restorative Neurology and Neuroscience*. 16 (3.4): 220-221, 2000
62. **Ding Y**, McAllister JP II, Canady AI, Zhang MZ. Neuronal damage and tolerance in hydrocephalus. *Neuroscience Abstracts* 25: 637.16, 1999
63. Lai Q, **Ding Y**, McAllister JP II, Koo BKK, Canady AI, Ham SD, Sood SS. Memory impairment of motor skill learning in hydrocephalus. *Neuroscience Abstracts* 25: 756.5, 1999

64. **Ding Y**, McAllister JP II, Canady AI. Axonal damage and neuron tolerance in hydrocephalus. *Journal of Neurotrauma*, 16: 128, 1999
65. Lai Q, **Ding Y**, McAllister JP II, Canady AI. Motor skill learning and memory impairment in hydrocephalus. *Journal of Neurotrauma*, 16: F5, 1999

Un-Published and Nationally/Internationally Presented Abstracts (for last 15 years)(*mentee)

Podium

1. Caron Jean-Louis, Guo M, Jimenez DF, **Ding Y**. Increased Cerebral Glycolysis Metabolism underlying Exercise-induced Neuroprotection after Stroke. European Neuroscience Conference, 2008
2. Jimenez DF, Liebelt B*, **Ding Y**. Interplay of TNF- α HSP-70 and ERK 1/2 Provides Neuroprotection in Stroke. SUN Meeting, San Francisco, 2008
3. Shetgeri SU*, Jimenez DF, Wu Y, **Ding Y**. Causal Role of Tumor Necrosis Factor (TNF)- α in Brain Damage Caused by Peripheral Thermal Injury in Rats. 75th AANS Annual Meeting, 2007
4. **Ding Y**, Li J*, McAllister II JP, Fessler R, Diaz FG. Regional Brain Cooling Induced by Local Saline Infusion into Ischemic Territory Produces A Long-term Neuroprotection in Ischemic Rats Using a Behavioral Assessment. 72nd AANA Annual Meeting, Orlando, 2004
5. **Ding Y**, Li J*, Phillis JW, McAllister II JP, Guthikonda M, Diaz FG. Local Brain Hypothermia Induced by Pre-reperfusion Infusion of Cold Saline into the Middle Cerebral Artery Supplied Territory in the Treatment of Experimental Stroke. 6th International Conference on Stroke, 2003
6. **Ding Y**, Yao B*, Yang DZ*. Therapeutic Potential of Local Infusions Prior to Reperfusion of Ischemia-Reperfusion Injury in Stroke. The Fifth Annual Joint Meeting of the American Association of Neurological Surgeons/Congress of Neurological Surgeons and the American Society of Interventional and Therapeutic Neuroradiology, 2001

Poster

7. Meng R, Jia J, Li G*, Liu Y, Ling F, Shi J, Duan Y, Wang X, **Ding Y**, Lo E.H., Ji X. Feasibility Safety and Efficacy of Remote Ischemic Preconditioning for Symptomatic Intracranial Arterial Stenosis in Octogenarians. The 27th International Symposium on Cerebral Blood Flow, Metabolism and Function and the 11th International Conference on Quantification of Brain Function with PET, 2013. Proceeding book.
8. Li G*, Meng R, Ren C, Jia J, Wang X, Shi J, Duan Y, **Ding Y**, Ji X. Repetitive Hypoxic Preconditioning Ameliorates Cognitive Impairment and White Matter Lesions. The 27th International Symposium on Cerebral Blood Flow, Metabolism and Function and the 11th International Conference on Quantification of Brain Function with PET, 2013. Proceeding book.

9. Fu P*, Peng C, Geng X*, Asmaro K*, Guthikonda M, **Ding Y**. Acute Administration of Ethanol Reduced Brain Apoptosis by Regulating Expression of Apoptotic Proteins in Ischemic Stroke. Michigan Chapter of the Society of Neuroscience 44th Annual Conference, 2013
10. Wang T*, Peng C, Ding JY*, Zhou D, Kreipke CW, Guthikonda M, Rafols JA, **Ding Y**. Acute ethanol treatment reduces brain edema and aquaporin expression after traumatic brain injury. The 30th Annual National Neurotrauma Symposium, 2012
11. Zoltewicz S, Ren C, Guingab J, Yang B, Kobeissy F, Anagli J, Mo-Seaney J, Scharf D, Mondello S, **Ding Y**, Ji X, Hayes R, Streeter J. Using Biomarkers to Distinguishing Between Ischemic and Hemorrhagic Stroke in Rats. The 30th Annual National Neurotrauma Symposium, 2012
12. Shen Y, Zheng W, Cheng YC, **Ding Y**, Higashida T*, Raynaud JS, Haacke EM. USPIO high resolution neurovascular imaging of rat middle cerebral artery occlusion stroke model. International Society for Magnetic Resonance in Medicine, 2011
13. **Ding Y**, Kochanski R*, Higashida T*, Peng C, Guthikonda M. Acute Ethanol Administration Reduces Metabolic Disorder and Apoptosis in Ischemic Stroke. The 25th International Symposium on Cerebral Blood Flow, Metabolism and Function and the 10th International Conference on Quantification of Brain Function with PET, 2011. Proceeding book.
14. Shenaq M*, Kassem H*, Peng C, Schafer S, Fronczak M, **Ding Y**. Inhibition of AQP4 and -9 with Neutralizing Antibodies Reduces Brain Edema, Secondary Neuronal Damage and Functional Deficits after Traumatic Brain Injury. The 28th Annual National Neurotrauma Symposium, 2010
15. Higashida T*, Ali A*, Zwagerman NT*, Schafer S, Peng C, Fronczak M, **Ding Y**. Aquaporin-Mediated Upregulation of Glycerol after Traumatic Brain Injury Contributes to Acute Brain Edema Formation. The 28th Annual National Neurotrauma Symposium, 2010
16. Kreipke CW, Schafer P, Schafer S, **Ding Y**, Rafols JA Synapse loss and replacement in a rodent model of traumatic brain injury. Society for Neuroscience, 2009. Abstract Program.
17. Rafols JA, **Ding Y**, Speirs S, Schafer P, Schafer S, Kreipke CW. Hypoxia-Inducible Factor-1 α Signaling in Aquaporin-Associated Brain Edema after Traumatic Brain Injury. Society for Neuroscience, 2008. Abstract Program.
18. **Ding Y**, Kreipke CW, Schafer P, Schafer S, Speirs S, Rafols JA. Matrix Metalloproteinases and Hypoxia Inducible Factor-1 α in Synaptic Plasticity after Traumatic Brain Injury. Society for Neuroscience, 2008. Abstract Program.
19. **Ding Y**, Li J*, Young C, McAllister II JP, Fessler R, Diaz FG. Reduced Inflammatory Mediator Expression By Pre-reperfusion Infusion into Ischemic Territory: A Real-Time Polymerase-Chain-Reaction Analysis. 72nd AANA Annual Meeting, Orlando, 2004
20. Yazar F, Mavity-Hudson J, **Ding Y**, Oztas E, Casagrande VA. Layer III β (IVA) of primary visual cortex (V1) and its relationship to the koniocellular (K) pathway in macaque monkeys. 34th Society for Neuroscience, 2004. Abstract Program.

21. **Ding Y**, Li J*, Phillis JW, McAllister II JP, Guthikonda, M., Diaz, FG. Neuroprotection by Local Saline Infusion and Induced Regional Brain Cooling in Ischemic Territory of Rats with Transient Middle Cerebral Artery. 56th Annual Meeting of the Neurosurgical Society of America, Jointly Sponsored by the American Association of Neurological Surgeons, 2003
22. **Ding Y**, Wu Y, Davis WW, Sprague SM, Berger J*, Mrizek M*, Jimenez DF, Barone CM: Peripheral Thermal Injury on Early Inflammatory Response in Rat Brain. 51st Annual Meeting of Plastic Surgery Research Council, 2006
23. **Ding Y**, Berger J*, Sprague SM, Wu Y, Davis WW, Jimenez DF, Barone CM. Peripheral Thermal Injury Causes Early Blood Brain Barrier Dysfunction Associated with Expression of Matrix Metalloproteinase (MMP) in Rat. 51st Annual Meeting of Plastic Surgery Research Council, 2006
24. Davis MD, **Ding Y**, Lewis DA, Sprague SM. Treadmill exercise partially protects against the stroke-induced deficit in cerebral blood flow following induction of stroke in rats: a PET study. Society for Neuroscience Annual Meeting, 2006. Abstract Program.
25. Reyes R, Jr. *, Jimenez DF, Sprague S, Wu Y, Barone CM, **Ding Y**. Role of Matrix Metalloproteinase-9 (MMP-9) in Blood Brain Barrier (BBB) Dysfunction and Extracellular Matrix (ECM) Degradation in Thermally Injured Rats. 75th AANS Annual Meeting, 2007
26. Swann K*, Jimenez DF, Wu Y., Davis WW, Barone CM, **Ding Y-C**: Peripheral Thermal Injury Causes Blood Brain Barrier Dysfunction and Matrix Metalloproteinase (MMP) Expression in Rat. 75th AANS Annual Meeting, 2007
27. **Ding Y**, Azam S*, DeGracia DJ, Li J*. Focal Brain Ischemia And Reperfusion Associated With Modifications In Eukaryotic Initiation Factor 2 α . 32th Society for Neuroscience, 2002. Abstract Program.

International and National Presentations (Invited)

1. Preconditioning and Cardio-/Cerebro vascular diseases. Cardiology in Women October 22, 2016
2. Key elements of writing paper for clinical and basic researches. Beijing Neurology Association Annual Meeting. October 21, 2016
3. Neuroprotective Mechanism of Conditioning Against Intracranial Stenosis and Ischemic Stroke. PRECONDITIONING IN BIOLOGY AND MEDICINE: Mechanisms and Translational Research. April 2016
4. Key elements of writing paper for clinical and basic researches. Tiantan International Stroke Conference 2016. Beijing, China, June 24-26, 2016
5. Neuroprotective Mechanism of Preconditioning Against Ischemic Injury. The 13th International Symposium on Neural Transplantation and Repair (INTR13), 2015

6. Hibernation-like Neuroprotection in Acute Ischemic Stroke. Tiantan International Stroke Conference 2015. Beijing, China, June 27-29, 2015
7. From Hypoxia to Ischemia: Pre-, Per and Post Ischemic conditioning in Neuroprotection- Translational Study From Animal to Human 2nd Symposium for Aging and Clinical Translation of Hypoxic/Ischemic Conditioning. June 9, 2015
8. Attenuating Brain Metabolic Dysfunction Improves Stroke Outcome: A New Approach to Regulating Cell Biology with Ethanol. BIT 4th Annual World Congress of Molecular Cell Biology. Dalian, China, April 24-27, 2014
9. Experimental Design and SCI Publication. Capital Medical University Beijing LuHe Hospital Research Symposium, Beijing, China, April 23, 2014
10. Attenuating Brain Metabolic Dysfunction Improves Stroke Outcome: Is Ethanol A Solution? Tiantan International Stroke Conference 2014. Beijing, China, June 27-29, 2014
11. Neuroprotective Mechanism of Preconditioning Against Intracranial Stenosis and Ischemic Injury. 7th Intracranial Atherosclerosis. Chengdu, China, September 19-21, 2014
12. Attenuating Brain Metabolic Dysfunction Improves Stroke Outcome: Is Ethanol A Solution? 2014 International Conference on Aging and Disease, Beijing, China, November 1-2, 2014
13. Neuroprotection of Ischemic Conditioning against Ischemic Injury. Beijing XuanWu-LuHe Key Research Collaboration Symposium. Beijing, China, December 15-16, 2014
14. Neuroprotection & Mechanism of Ethanol Therapy in Acute Stroke: New Prospects for an Ancient Drug. Tiantan International Stroke Conference, 2013
15. Brain Metabolic Dysfunction and Stroke Outcome. International Conference of Emerging Industry, 2013
16. Can Hypothermia Prolong the Time Window in Stroke Treatment? Tiantan International Stroke Conference, 2012
17. Hypothermia and Other Treatments Prolong The Time Window in Stroke. 10th International Conference on Cerebrovascular Surgery, 2012
18. Alcohol in Stroke Therapy. Tiantan International Stroke Conference, 2011
19. Biomarker in Traumatic Brain Injury (TBI). Weifang Medical University, 2011
20. Inhibition of AQP4 and -9 with Neutralizing Antibodies Reduces Brain Edema, Secondary Neuronal Damage and Functional Deficits after Traumatic Brain Injury. The 28th Annual National Neurotrauma Symposium, 2010

21. The Role of Hypoxia-Inducible Factor-1 α , Aquaporin-4 and Matrix Metalloproteinase-9 in Blood Brain Barrier Disruption and Brain Edema after Traumatic. Congress of Neurological Surgery, 2010
22. Cerebral Glycerol Accumulation Regulated by Aquaporins (AQPs) and Hypoxia-inducible-factor-1 α (HIF-1 α) Contribute to Brain Edema Formation after Stroke. Tiantan International Stroke Conference, 2010
23. Experimental Design and Academic Publication. Capital Medical University, Beijing, China. October 28, 2009
24. Exercise and Stroke A Translational Approach for Neuroprotection. Tiantan International Stroke Conference 2009, June 11-13, 2008, Beijing, China
25. Medical Career Development: Academic Publication. Tiantan International Stroke Conference 2008, June 13-15, 2008, Beijing, China
26. Physical Exercise and Neuroprotection in Stroke. Tiantan International Stroke Conference, 2007
27. Upregulation of Tumor Necrosis Factor- α and Integrins after Exercise Pre-conditioning Enhances Cerebrovascular Integrity in Ischemic Rats. 31th International Stroke Conference, February 7, 2006
28. Peripheral Thermal Injury on Early Inflammatory Response in Rat Brain. 51st Annual Meeting of Plastic Surgery Research Council, May 17, 2006
29. Ischemic Area Infusion: a Potential Therapy in Stroke. Tiantan International Stroke Conference 2006, June 17, 2006
30. Pre-ischemic Exercise Ameliorates Inflammatory Injury in Stroked Rats During Reperfusion. 29th International Stroke Conference, February 5, 2004
31. Pre-ischemic Training Reduces Brain Damage in Experimental Stroke that Correlates with Regional Angiogenesis and Cellular Expression of Neurotrophin. 28th International Stroke Conference, February 13-15, 2003
32. Local Brain Hypothermia Induced by Pre-reperfusion Infusion of Cold Saline into the Middle Cerebral Artery Supplied Territory in the Treatment of Experimental Stroke. 6th International Conference on Stroke, March 11-14, 2003
33. Stroke Reduction, Minimization and Recovery. 6th Annual Urban Hypertension Update: Urban Health in Challenging Times/The Science of Stroke. May 3, 2003
34. Functional Recovery Enhanced by Motor Skill Training Is Related to Synaptogenesis in the Thalamus of Rats with Transient Middle Cerebral Artery Occlusion. 27th International Stroke Conference, February 7-9, 2002

35. Impaired motor learning in children with hydrocephalus. 28th AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting, December 1-4, 1999

Grand Rounds and WSU Seminar Presentations (for last 5 years)

1. Upper limb ischemic preconditioning prevents recurrent stroke in intracranial arterial stenosis. Neurosurgery Ground Round, Wayne State University School of Medicine, Detroit, MI, September 2, 2015
2. A New Approach to Attenuating Brain Metabolic Dysfunction Improves Stroke Outcome. Anatomy and Cell Biology Seminar Series, Wayne State University School of Medicine, Detroit, MI January 28, 2014
3. Attenuating Brain Metabolic Dysfunction Improves Stroke Outcome: Is Ethanol a Solution? Neurosurgery Ground Round, Wayne State University School of Medicine, Detroit, MI, April 16, 2014
4. Regulating Cell Metabolism with Ethanol: A Potential Approach to Improving Stroke Outcome? Center for Molecular Medicine and Genetics Seminar Series. Wayne State University School of Medicine, Detroit, MI, September 4, 2014
5. Neuroprotection & Mechanism of Ethanol Therapy: New Prospects for an Ancient Drug. WSU Program for TBI Research Summer School/ TBI Workshop, 2013
6. Alcohol Therapy in Brain Injury (Stroke/TBI). Department of Biomedical Engineering and Bioengineering Center, Wayne State University, 2012
7. Brain Edema Formation and Blood Brain Barrier (BBB) Disruption in Traumatic Brain Injury (TBI). Department of Biomedical Engineering and Bioengineering Center, Wayne State University, 2011
8. Brain Edema is reduced by Acute Alcohol Administration after Traumatic Brain Injury (TBI) and Stroke. TBI Workshop. Wayne State University, 2011
9. Aquaporin Upregulation and Brain Edema Formation after Traumatic Brain Injury. Nephrology Ground Round, DMC, 2010
10. Brain Edema in Traumatic Brain Injury (TBI). TBI Workshop. Wayne State University, 2010
11. Aquaporins and Brain Edema in Traumatic Brain Injury (TBI). Anatomy and Cell Biology Seminar Series, Wayne State University School of Medicine, Detroit, MI 2010
12. Stroke Research in Neurosurgery. Neurosurgery Ground Round, Wayne State University School of Medicine, Detroit, MI, 2010