



Signature

YUCHUAN DING, MD, PhD
(Research Educator Track)

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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

Visiting Professor 2011 - Present
Weifang Medical University, Shandong, China

Associate Professor (Research Educator Track), Neurosurgery 2008 - Present
Wayne State University School of Medicine, Detroit, Michigan

FACULTY APPOINTMENTS (Continued)

Associate Professor, Neurosurgery University of Texas, Health Science Center, San Antonio, Texas	2005 - 2008
Visiting Professor, Neuroscience, Neurosurgery, Neurology Capital University of Medical Sciences, Beijing, China	2005 - Present
Assistant Professor (Research Educator Track), Neurosurgery Wayne State University School of Medicine, Detroit, Michigan	2003 - 2005
Assistant Professor (Non-Tenure Research Track), Neurosurgery Wayne State University School of Medicine, Detroit, Michigan	1998 - 2003

HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS

Attending Plastic Surgeon The Plastic Surgery Hospital, Peking Union Medical College Chinese Academy of Medical Sciences, Beijing, China	1988 - 1989
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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 <i>This award recognizes the Productive and Prolife Four Years Of Dedication and Excellence in Research, Education and Scholarship</i> University of Texas Health Science Center, San Antonio, Texas	2008
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 Director of Cerebrovascular Research, Department of Neurosurgery	2008 - Present
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SERVICE (Continued)

Wayne State University (Continued)

Committee Membership

Promotion and Tenure Advisory Committee	2008 - 2014
Faculty and Merit Review Advisory Committee	2008 - 2014
Resident Selection Committee	2008 – Present

School of Medicine

Graduate Student Research Day Judge	2015
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<i>Committee Membership – School of Medicine/University</i> School of Medicine Library Committee	2012 - Present
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University

Research Grant Committee	2014 - Present
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Other Institutions

Admissions Committee the University of Texas Health Science Center at San Antonio, Texas	2005 - 2008
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Director of Basic Research of Neurosurgery and Plastic Surgery The University of Texas Health Science Center, San Antonio, Texas	2005 - 2008
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Scholarly Service

Grant Review Activity

The United Arab Emirates University Center-Based Research Grant Committee	2014 - Present
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Hong Kong Research Grant Council	2014 - Present
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American Heart Association <i>National</i>	2008 - 2014
<i>Western Region</i>	2007, 2008

Chinese Science and Nature Foundation, <i>National</i>	2008 - 2013
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Manitoba Health Research Council, Canada	2007
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Health Research Board, Ireland	2006
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Biotechnology and Biological Science Research Council, United Kingdom	2005
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Review for Career Development and Promotion

Macau University of Science and Technology	2015
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Capital Medical University, Beijing, China	2010-2015
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Service for Peer-Reviewed Journals

Editorship

Environmental Disease

Editor-in-Chief

2015 - Present

Brain Circulation: A Journal of Cerebrovascular Reperfusion and Neurorehabilitation

Associated Editor-in-Chief

2014 - Present

Neurological Research

Editor-in-Chief in Special Issue for Stroke Research

2006, 2008-
2015

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

Review of Manuscripts

Journal of Chinese Medicine

Manuscript Reviewer

2015 – Present

EBioMedicine

Manuscript Reviewer

2015 – Present

European Journal of Clinical Investigation

Manuscript Reviewer

2015 – Present

Metabolic Brain Disease

Manuscript Reviewer

2015 – Present

Aging and Disease

Manuscript Reviewer

2014 - Present

Nature Protocol

Manuscript Reviewer

2014 - Present

Synapse

Manuscript Reviewer

2014 - Present

BioMed Research International

Manuscript Reviewer

2013 - Present

Journal of Exercise and Fitness

Manuscript Reviewer

2013 - Present

Molecular and Cellular Neuroscience

Manuscript Reviewer

2013 - Present

PlosOne

Manuscript Reviewer

2013 - Present

SERVICE (Continued)

Wayne State University (Continued)

Review of Manuscripts (Continued)

Gene Manuscript Reviewer	2012 - Present
<i>Journal of Neurochemistry</i> Manuscript Reviewer	2011 - Present
<i>NeuroImage</i> Manuscript Reviewer	2011 - Present
<i>Stroke</i> Manuscript Reviewer	2011 - Present
<i>Journal of Neurochemistry</i> Manuscript Reviewer	2010 - Present
<i>Journal of Neuroscience Methods</i> Manuscript Reviewer	2010 - Present
<i>Journal of Neuroscience Research</i> Manuscript Reviewer	2010 - Present
<i>Translational Stroke Research</i> Manuscript Reviewer	2010 - Present
<i>Behavior Brain Research</i> Manuscript Reviewer	2009 - Present
<i>Cytokine</i> Manuscript Reviewer	2009 - Present
<i>Journal of Blood Flow and Metabolism</i> Manuscript Reviewer	2009 - Present
<i>Journal of Neuroinflammation</i> Manuscript Reviewer	2009 - Present
<i>Journal of Neurotrauma</i> Manuscript Reviewer	2009 - Present
<i>Neurobiology of Disease</i> Manuscript Reviewer	2009 - Present
<i>Acta Neuropathologica</i> Manuscript Reviewer	2008 - Present

SERVICE (Continued)

Wayne State University (Continued)

Review of Manuscripts (Continued)

<i>JAP</i> Manuscript Reviewer	2008 - Present
<i>Journal of Neuroscience</i> Manuscript Reviewer	2008 - Present
<i>Neuroscience Letters</i> Manuscript Reviewer	2008 - Present
<i>Neurochemical Research</i> Manuscript Reviewer	2008 - Present
<i>Obesity</i> Manuscript Reviewer	2008 - Present
<i>Future Neurology</i> Manuscript Reviewer	2007 - Present
<i>Methods and Findings in Experimental and Clinical Pharmacology</i> Manuscript Reviewer	2007 - Present
<i>Nutrition</i> Manuscript Reviewer	2007 - Present
<i>Psychoneuroendocrinology</i> Manuscript Reviewer	2007 - Present
<i>Molecular Brain Research</i>	2006 - Present
<i>American Journal of Physiology: Heat and Circulation Physiology</i> Manuscript Reviewer	2005 - Present
<i>BMC Physiology; Journal of Applied Physiology</i> Manuscript Reviewer	2005 - Present
<i>European Journal of Neuroscience</i> Manuscript Reviewer	2005 - Present
<i>Experimental Gerontology</i> Manuscript Reviewer	2005 - Present
<i>Frontier in Neurosurgery Research</i> Manuscript Reviewer	2005 - Present
<i>Neuroscience</i> Manuscript Reviewer	2005 - Present

SERVICE (Continued)

Wayne State University (Continued)

Review of Manuscripts (Continued)

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
International Conference on Quantification of Brain Function with PET held biennially

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 – Present*
- *University of Texas: 2005 – 2008*
- *Weifang Medical University: 2011 - Present*

Teaching at Wayne State University

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

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

TEACHING (Continued)

Students/Residents/Nurses Mentored (continued) (*signifies publication with the mentee)

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 52)

Medical Students (total of 39)

- 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

TEACHING (Continued)

*Students/Residents/Nurses Mentored (*signifies publication with the mentee) (Continued)*

- 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 Neuroprotection
- Jian (Jane) Zhang BA, Medical Student (Wayne State University, Class 2015) Neuroprotection in Stroke

TEACHING (Continued)

*Students/Residents/Nurses Mentored (*signifies publication with the mentee) (Continued)*

- 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
- 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.

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

TEACHING (Continued)

Students/Residents/Nurses Mentored (*signifies publication with the mentee) (Continued)

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

- 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

R. Rastogi, MedStart Student, Biomedical Engineering <i>MRI in Stroke Diagnosis for Bachelor Degree in Science</i>	2015
Chengpen Zhou, BS, Biomedical Engineering For Master Degree in Science	2015
Yan Li, BS, Biomedical Engineering <i>Investigation of the Relationship between Axonal Injury, Biomarker Expression, and Mechanical Response in a Rodent Head Impact Acceleration Model</i> For PhD	2014
WA Li, BS, Biomedical Engineering <i>Hyperglycemia and Ischemic Stroke</i> For Master Degree in Science	2013
Hassan Kassem, BA, Wayne State University School of Medicine <i>Modulation of Aquaporins and the Resulting Effects on Traumatic Brain Injury and Stroke</i> For Master Degree in Science	2010
Deepthi Kamasamudram Guruprakash, Biomedical Engineering <i>Effects of strain and strain rate on axonal injury in a spinal nerve root model</i> For Master Degree in Science	2010
Julie Pilitsis, MD, Physiology <i>Brain Ischemia, For PhD</i>	2006

TEACHING (Continued)

Visiting Professor and Lecturer Teaching (Since 2008)

Design of Scientific Project Capital Medical University LuHe Hospital Research Symposium	2014, 2015
SCI Article: Writing and Publishing Capital Medical University Xuanwu Hospital Research Symposium	2014
Writing and Publishing SCI Article Beijing University Aerospace Central Hospital	2014
SCI Article: Writing and Publishing Capital Medical University LuHe Hospital Research Symposium	2013
Experimental Design and SCI Article Publication Capital Medical University Beijing LuHe Hospital Research Symposium	2013
SCI Article: Writing and Publishing Capital Medical University Tiantan Hospital Research Symposium	2012, 2013
Writing, Submitting, and Publishing English Manuscripts Beijing University Aerospace Central Hospital	2011
A Guide of Writing, Submitting, and Publishing English Manuscripts Sanxi Academy of Medicine, Taiyuan, Sanxi, China	2010
Medical Career Development: Academic Publication Tiantan International Stroke Conference	2008

GRANTS, CONTRACTS, AND OTHER FUNDING

Active National/International Grants and Contracts

Role: Principal Investigator, Percent Effort: 62.5%

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

12/2015-11/2019

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

GRANTS, CONTRACTS, AND OTHER FUNDING (Continued)

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

12/2013-11/2015

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: "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

10/2015-9/2017

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

T35 NIH Training Grant Application in preparation

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

GRANTS, CONTRACTS, AND OTHER FUNDING (Continued)

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. 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*)
2. 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*)
3. 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*)
4. Geng X*/Sy CA*, Kwiecien TD*, Ji X, Peng C, Rastogi R*, Cai L, Du H, Brogan D*, Singh S*, Rafols JA, **Ding Y**. Reduced cerebral monocarboxylate transporters and lactate levels by ethanol and normobaric oxygen therapy in severe transient and permanent ischemic stroke. *Brain Research* 1603: 65-75, 2015, Impact Factor: 2.83
5. Geng X*/Hussain M*, Du H, Zhao L, Chen J, Su W, Ma L, Gao Z, **Ding Y**#, Ji X. Comparison of Self to Balloon Expandable Stents for Symptomatic Vertebral Artery Origin Stenosis - a prospective, randomized trial. *Journal of Endovascular Therapy*: PMID: 25862360, 2015, Impact Factor: 3.59
6. Lu X, Hussain M*, Ni L, Huang Q, Zhou F, Gu Z, Chen J, **Ding Y**, Xu F. A Comparison Of Different Transarterial Embolization Techniques For Direct Carotid Cavernous Fistulas: A Single Center Experience In 32 patients. *Journal of Vascular and Interventional Neurology* 7 (5), 35, 2015 (*my role: study conceptualization, design, data analysis and manuscript writing*)
7. Kong Q*, Haffeez A*, Wang Y, Ren C, Geng X*, Xiao Y*, Liu S*, Mao R, Zhou J, **Ding Y**, Ji X. Acute recanalization of carotid stenosis is not proper: An experimental ischemic stroke study. *Neurological Research* 37(5): 397-402, 2015, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

8. Cai L*/Geng X*, Hussain M*, Liu Z, Gao Z, Du H, Ji X, **Ding Y**. Weight loss: an indication of brain damage after stroke. *Neurological Research* 37(5): 441-445, 2015, Impact Factor: 1.45
9. Liu S*/Geng X*, Forreider B*, Xiao Y*, Kong QT*, **Ding Y**, Ji X. Enhanced beneficial effects of mild hypothermia by phenothiazine drugs in stroke therapy. *Neurological Research* 37(5): 454-458, 2015, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)
10. Tong YN, Forreider B*, Geng X*, Zhang WD, Du HS, Zhang T, **Ding Y**. The effectiveness of music-supported therapy (MST) in improving post-stroke patients' upper-limb motor function: a randomized controlled pilot study. *Neurological Research* 37(5): 434-439, 2015, Impact Factor: 1.45
11. 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* (accepted), 2015, Impact Factor: 1.45
12. Xiao Y*, Hafeez A*, Zhang Y, Kong Q*, Liu S*, Duan Y, Luo Y, **Ding Y**, Shi H, Ji X. Neuroprotection by peripheral nerve electrical stimulation and remote postconditioning against acute experimental ischemic stroke. *Neurological Research* 37(5): 447-451, 2015, Impact Factor: 1.45 (*my role: study conceptualization, design, and manuscript writing*)
13. Zhang C, Zhao X, Wang W, Liu L, **Ding Y**, Akbary F*, Pu Y, Zou X, Pan Y, Du W, Li Z, Jing J, Wong KS, Wang Y, Wang YL. Prediction factors of recurrent ischemic events in one year after minor stroke. *PLOS ONE* 16;10(3): e0120105, 2015, Impact Factor: 3.53 (*my role: study conceptualization, design, and manuscript writing*)
14. 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*)
15. 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
16. 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*)
17. Sun YX, Wang Y, Ji X, Wu X, Zhao Y, **Ding Y**, Hussain M*, Jia J. A randomized trial of Chinese Diaoshi Jifa on treatment of dizziness in Meniere's disease. *Evidence-Based Complementary and Alternative Medicine* Volume 2014 (2014), Article ID 521475, 2014, Impact Factor: 2.18 (*study conceptualization, design, design, data analysis and manuscript writing*)

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

18. 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
19. Zhang X, Xu X, Kwiecien T*, Li N, Zhang Y, Ji X, Ren C, **Ding Y**. Protective effects of remote ischemic conditioning against ischemia/reperfusion-induced retinal injury in rats. *Visual Neuroscience* 31(3): 245-252, 2014, Impact Factor: 1.68
20. Hafeez A*, Elmadhoun O*, Peng C, Ding JY*, Geng X*, Guthikonda M, **Ding Y**. Reduced apoptosis by ethanol and its association with PKC- δ and AKT signaling in ischemic stroke. *Aging and Diseases* 5(6): 366-372, 2014
21. Jiang XF*, Zhang T, Sy CA*, Nie B, Hu X, **Ding Y**. Dynamic metabolic changes after permanent cerebral ischemia in rats with/without post-stroke exercise: a positron emission tomography (PET) study. *Neurological Research* 36(5): 475-82, 2014, Cited by 4, Impact Factor: 1.45
22. Meng R, Wang X, Hussain M*, Dornbos D 3rd*, Meng L, Liu Y, Wu Y, Ning M, Buonanno FS, Lo EH, **Ding Y**, Ji X. Evaluation of plasma d-dimer plus fibrinogen in predicting acute CVST. *International Journal of Stroke* 9(2): 166-173, 2014, Cited by 6, Impact Factor: 4.03 (*my role: study conceptualization, design, data analysis and manuscript writing*)
23. Li G*, Zeng X, Ji T, Fredrickson V*, Wang T, Hussain M*, Luo Y, Ren C, Chen J, Sikhram C*, **Ding Y**, Ji X. A new thrombosis model of the superior sagittal sinus involving cortical veins. *World Neurosurgery* 82(1-2): 169-174, 2014, Cited by 1, Impact Factor: 2.42 (*my role: study conceptualization, design, data analysis and manuscript writing*)
24. Shen Y, Zheng W, Cheng NY, **Ding Y**, Higashida T*, Li J, Ye Y, Raynaud JS, Haacke EM. USPIO high resolution neurovascular imaging in a rat stroke model of transient middle cerebral artery occlusion. *Chinese Journal of Magnetic Resonance* 31(1): 1-7, 2014 (*my role: study conceptualization, design, and data analysis*)
25. Ren C, Zoltewicz S, Guiningab J, Anagli J, Gao M, Hafeez A*, Li N, Cao J, Geng X*, Kobeissy F, Larner SF, Hayes RL, Ji X, **Ding Y**. Different expression of ubiquitin C-terminal hydrolase-L1 and α -spectrin in ischemic and hemorrhagic stroke: potential biomarkers in diagnosis. *Brain Research* 1540: 84-91, 2013, Cited by 3, Impact Factor: 2.83
26. Geng X*/Parmar S*, Li X, Peng C*, Ji X, Chakraborty T*, Li WA*, Du H, Tan X, Ling F, Guthikonda M, Rafols JA, **Ding Y**. Reduced apoptosis by combining normobaric oxygenation with ethanol in transient ischemic stroke. *Brain Research* 1531: 17-24, 2013, Cited by 8, Impact Factor: 2.83
27. Peng C/Li WA*, Fu P*, Chakraborty T*, Hussain M*, Guthikonda M, Rafols JA, **Ding Y**. At low doses ethanol maintains blood brain barrier (BBB) integrity after hypoxia and reoxygenation: a brain slice study. *Neurological Research* 35(8): 790-797, 2013, Cited by 4, Impact Factor: 1.45

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

28. Geng X*/Fu P*, Ji X, Peng C, Fredrickson V*, Sy CA*, Meng R, Ling F, Du H, Tax X, Hüttemann M, Guthikonda M, **Ding Y**. Synergetic neuroprotection of normobaric oxygenation and ethanol in ischemic stroke through improved oxidative mechanism. *Stroke* 44(5): 1418-1425, 2013, Cited by 7, Impact Factor: 6.02
29. Kochanski R*, Peng C, Higashida T*, Geng X*, Hüttemann M, Guthikonda M, **Ding Y**. Neuroprotection conferred by post-ischemia ethanol therapy in experimental stroke: an inhibitory effect on hyperglycolysis and NADPH oxidase activation. *Journal of Neurochemistry* 126(1): 113-121, 2013, Cited by 9, Impact Factor: 4.24
30. Fu P*, Peng C, Ding JY*, Asmaro K*, Sullivan JM, Guthikonda M, **Ding Y**. Acute administration of ethanol reduces apoptosis following ischemic stroke in rats. *Neuroscience Research* 76(1-2): 93-97, 2013, Cited by 4, Impact Factor: 2.73
31. Dornbos D 3rd*, Zwagerman N*, Guo M*, Ding JY*, Peng C, Esmail F*, Sikharam C*, Geng X*, Guthikonda M, **Ding Y**. Pre-ischemic exercise reduces brain damage by ameliorating metabolic disorder in ischemia/reperfusion injury. *Journal of Neuroscience Research* 91(6): 818-827, 2013, Cited by 7, Impact Factor: 2.73
32. Li G*, Zeng X, Hussain M*, Luo Y, Ren C, Chen J, Li T, Liu Y, Yuan K, Sikhram C*, **Ding Y**, Ji X. Safety and Validity of Mechanical Thrombectomy and Thrombolysis on Severe Cerebral Venous Sinus Thrombosis. *Neurosurgery* 72(5): 730-738, 2013, Cited by 5, Impact Factor: 3.031 (*my role: study conceptualization, design, data analysis and manuscript writing*)
33. Wang T*, Chou D YT*, Ding JY*, Fredrickson V*, Peng C, Schafer S, Guthikonda M, Kreipke CW, Rafols JA, **Ding Y**. Reduction of brain edema and expression of aquaporins with acute ethanol treatment after traumatic brain injury: Laboratory investigation. *Journal of Neurosurgery* 118(2): 390-396, 2013, Cited by 11, Impact Factor: 3.15
34. Chen J*, Fredrickson V*, **Ding Y**, Cheng H*, Wang N, Ling F, Ji X. Enhanced neuroprotection by local intra-arterial infusion of human albumin solution and local hypothermia. *Stroke* 44(1): 260-262, 2013, Cited by 7, Impact Factor: 6.02 (*my role: study conceptualization, design, data analysis and manuscript writing*)
35. Meng R, Dornbos D 3rd*, Meng L, Wu Y, Liu Y, Li G, Li S, Sun F, Wang X, **Ding Y**, Ji X. Clinical differences between acute CVST and non-thrombotic CVSS. *Clinical Neurology and Neurosurgery* 114(9): 1257-1262, 2012, Cited by 5, Impact Factor: 1.25 (*my role: study conceptualization, design and manuscript writing*)
36. Han C, Wang Y, Jia J, Ji X, Fredrickson V*, **Ding Y**, Sun W, Xu J, Sun YX. Bickerstaff's brainstem encephalitis, Miller Fisher syndrome and Gullain-Barré syndrome overlap in an asthma patient with negative anti-ganglioside antibodies. *BMC Research Notes* 5: 295, 2012, Cited by 2 (*my role: study conceptualization, design and manuscript writing*)
37. Meng R, Asmaro K*, Meng L, Liu Y, Ma C, Xi C, Li G, Ren C, Luo Y, Ling F, Jia J, Hua Y, Wang X, **Ding Y**, Lo EH, Ji X. Upper limb ischemic preconditioning prevents recurrent stroke in intracranial arterial stenosis. *Neurology* 79(18): 1853-1861, 2012, Cited by 50, Impact Factor: 8.3 (*my role: study conceptualization, design, data analysis and manuscript writing*)

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

38. Shenaq M*, Kassem H*, Peng C*, Schafer S, Ding JY, Fredrickson V*, Guthikonda M, Kreipke CW, Rafols J, **Ding Y**. Neuronal damage and functional deficits are ameliorated by inhibition of aquaporin and HIF1 α after traumatic brain injury. *Journal of Neurological Sciences* 323(1-2): 134-140, 2012, Cited by 22, Impact Factor: 2.26
39. Wang F*/Wang Y*, Geng X*, Asmaro K*, Peng C, Sullivan JM, Ding JY*, Ji X, **Ding Y**. Neuroprotective effect of acute ethanol administration in a rat with transient cerebral ischemia. *Stroke* 43(1): 205-210, 2012, Cited by 30, Impact Factor: 6.02
40. Meng R, Konakondla S*, Wang X, Lo EH, **Ding Y**, Ji X. Plasma biomarker may help to distinguish acute CVST from non-thrombotic CVSS in emergency. *International Journal of Stroke* 7(2); 183-184, 2012, Cited by 2, Impact Factor: 4.03 (*my role: study conceptualization, design and manuscript writing*)
41. Zeng X, Asmaro K*, Ren C, Gao M*, Peng C*, Ding JY*, Fredrickson V*, Ji X, **Ding Y**. Acute ethanol treatment reduces blood-brain barrier dysfunction following ischemia/reperfusion injury. *Brain Research* 1437: 127-133, 2012, Cited by 17, Impact Factor: 2.83
42. Geng X*, Ren C, Wang T*, Fu P*, Luo Y, Liu X, Yan F, Ling F, Jia J, Du H, Ji X, **Ding Y**. Effect of remote ischemic postconditioning on an intracerebral hemorrhage stroke model in rats. *Neurological Research* 34(2): 143-148, 2012, Cited by 19, Impact Factor: 1.45
43. Ge P*, Zhao J, Li S, **Ding Y**, Yang F, Luo Y. Inhalation of hydrogen gas attenuates cognitive impairment in transient cerebral ischemia via inhibition of oxidative stress. *Neurological Research* 34(2): 187-194, 2012, Cited by 14, Impact Factor: 1.45 (*my role: study conceptualization, design and manuscript writing*)
44. Meng R, Yan W, Wang X, Dornbos D 3rd*, Liu Y, Ning M, Ferdinando SB, **Ding Y**, Ji X. CVST, distinguished from nonthrombotic CVSS before treatment – a MUST. *International Journal of Stroke* 7(3); 274, 2012, Cited by 1, Impact Factor: 4.03 (*my role: study conceptualization, design and manuscript writing*)
45. Ali A*, Konakondla S*, Zwagerman NT*, Peng C, Schafer S, Ding JY, Dornbos D 3rd*, Sikharam C*, Geng X*, Guthikonda M, Kreipike CW, Rafols JA, **Ding Y**. Glycerol accumulation in edema formation following diffuse traumatic brain injury. *Neurological Research* 34(5): 462-468, 2012, Cited by 1, Impact Factor: 1.45
46. Yuan Y*, Peng C, Li K*, Hussain M*, Sikharam C*, Guthikonda M, **Ding Y**. Ethanol reduces expression of apoptotic proteins after hypoxia/reoxygenation in a brain slice model. *Neurological Research* 34(4): 373-378, 2012, Cited by 9, Impact Factor: 1.45
47. Kinni H*, Guo M*, Ding JY*, Konakondla S*, Dornbos D 3rd*, Tran R*, Guthikonda M, **Ding Y**. Cerebral metabolism after forced or voluntary physical exercise. *Brain Research* 1388, 48-55, 2011, Cited by 30, Impact Factor: 2.83

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

48. Ren C, Gao M*, Dornbos D 3rd*, **Ding Y**, Zeng X, Luo Y, Ji X. Remote ischemic post-conditioning reduced brain damage in experimental ischemia/reperfusion injury. *Neurological Research* 33(5): 514-519, 2011, Cited by 18, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)
49. Dang S, Liu X, Fu P*, Gong W, Yan F, Han P, **Ding Y**, Ji X, Luo Y. Neuroprotection by local intra-arterial infusion of erythropoietin after focal cerebral ischemia in rats. *Neurological Research* 33(5): 520-528, 2011, Cited by 11, Impact Factor: 1.45 (*my role: study conceptualization, design and manuscript writing*)
50. Dore-Duffy P, Wang S, Mehedi A, Katyshev V, Cleary K, Tapper A, Reynolds C, **Ding Y**, Zhan P, Rafols J, Kreipke CW. Pericyte-mediated vasoconstriction underlies TBI-induced hypoperfusion. *Neurological Research* 33(2): 176-186, 2011, Cited by 24, Impact Factor: 1.45 (*my role: study conceptualization and design*)
51. Meng R, Li ZY, Ji X, **Ding Y**, Meng S, Wang X. Antithrombin III associated with fibrinogen predicts the risk of cerebral ischemic stroke. *Clinical Neurology and Neurosurgery* 113(5): 380-386, 2011, Cited by 22, Impact Factor: 1.25 (*my role: study conceptualization, design and manuscript writing*)
52. Higashida T*, Kreipke CW, Rafols JA, Peng C, Schafer S, Schafer P, Ding JY*, Dornbos D 3rd*, Li X, Guthikonda M, Rossi NF, **Ding Y**. 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. *Journal of Neurosurgery* 114 (1): 92-102, 2011, Cited by 120, Impact Factor: 3.15
53. Higashida T*, Peng C, Li J, Dornbos D 3rd*, Teng K, Li X, Kinni H*, Guthikonda M, **Ding Y**. Hypoxia-Inducible Factor-1 α Contributes to Brain Edema after Stroke by Regulating Aquaporins and Glycerol Distribution in Brain. *Current Neurovascular Research* 8(1): 44-51, 2011, Cited by 34, Impact Factor: 2.74
54. Ge P, Ji X, **Ding Y**, Wang X, Fu S, Meng F, Jin X, Ling F, Luo Y. Celastrol causes apoptosis and cell cycle arrest in rat glioma cells. *Neurological Research* 32(1): 94-100, 2010, Cited by 23, Impact Factor: 1.45 (*my role: study conceptualization and design*)
55. Zwagerman N*, Plumlee C*, Guthikonda M, **Ding Y**. Toll-like receptor-4 and cytokine cascade in stroke after exercise. *Neurological Research* 32(2): 123-126, 2010, Cited by 23, Impact Factor: 1.45
56. Chaudhry K*, Rogers R*, Guo M*, Lai Q, Goel G*, Liebelt B*, Ji X, Curry A*, Carranza A*, Jimenez DF, **Ding Y**. Matrix metalloproteinase-9 (MMP-9) expression and extracellular signal-related kinase 1 and 2 (ERK1/2) activation in exercise-reduced neuronal apoptosis after stroke. *Neuroscience Letters* 474(2): 109-114, 2010, Cited by 25, Impact Factor: 2.06
57. Wang F*, Luo Y, Ling F, Wu H, Chen J*, Yan F, He Z, Goel G*, Ji X, **Ding Y**. Comparison of neuroprotective effects in ischemic rats with different hypothermia procedures. *Neurological Research* 32(4): 378-383, 2010, Cited by 10, Impact Factor: 1.45

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

58. Zwagerman N*, Sprague S, David MD, Daniels B*, Goel G*, **Ding Y**. Pre-ischemic exercise preserves cerebral blood flow during reperfusion in stroke. *Neurological Research* 32(5): 523-529, 2010, Cited by 20, Impact Factor: 1.45
59. Curry A*, Guo M*, Patel R*, Liebelt B*, Sprague S, Lai Q, Zwagerman N*, Cao FX*, Jimenez D, **Ding Y**. Exercise pre-conditioning reduces brain inflammation in stroke via tumor necrosis factor-alpha, extracellular signal-regulated kinase 1/2 and matrix metalloproteinase-9 activity. *Neurological Research* 32(7): 756-762, 2010, Cited by 18, Impact Factor: 1.45
60. Liebelt B*, Papapetrou P*, Ali A*, Guo M*, Ji X, Peng C*, Rogers R*, Curry A*, Jimenez FD, **Ding Y**. Exercise Preconditioning Reduces Neuronal Apoptosis in Stroke by Up-regulating HSP-70 (HSP-72) and ERK 1/2. *Neuroscience* 166(4):1091-1100, 2010, Cited by 60, Impact Factor: 3.327
61. Gan X*, Luo Y, Ling F, Ji X, Chen J*, **Ding Y**. Outcome in acute stroke with different intra-arterial infusion rate of urokinase on thrombolysis. *Interventional Neuroradiology*, 16(3):290-296, 2010, Cited by 5, Impact Factor: 0.77
62. Goel G*, Guo M*, Ding JY*, Dornbos D 3rd*, Ali A*, Shenaq M*, Guthikonda M, **Ding Y**. Combined effect of tumor necrosis factor (TNF)-alpha and heat shock protein (HSP)-70 in reducing apoptotic injury in hypoxia: a cell culture study. *Neuroscience Letters* 483(3): 162-166, 2010, Cited by 21, Impact Factor: 2.06
63. Liu L, Yenari MA, **Ding Y**. Clinical application of therapeutic hypothermia in stroke. *Neurological Research*. 31(4): 331-335, 2009. Cited by 28, Impact Factor: 1.45
64. Cheng H*, Ji X, **Ding Y**, Luo Y, Wang G, Sun X, Chen J*, Ling F. Focal perfusion of circulating cooled blood reduced the infarction volume and improves neurological outcome in middle cerebral artery occlusion. *Neurological Research* 31(4): 340-345, 2009, Cited by 10, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)
65. Chen J*, Ji X, **Ding Y**, Luo Y, Cheng H, Ling F. Role of residual flow on the neuroprotective efficacy of human albumin in the rat with transient cerebral ischemia. *Neurological Research* 31(4): 396-401, 2009, Cited by 4, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)
66. Reyes R*, Guo M*, Swann K*, Shetgeri S*, Sprague S, Jimenez DF, Barone CM, **Ding Y**. Role of tumor necrosis factor- α and matrix metalloproteinase-9 in blood-brain barrier disruption after peripheral thermal injury in rats. *Journal of Neurosurgery* 110, 1218-1226, 2009, Cited by 23, Impact Factor: 3.15
67. Meng R*, Ji X, Li B, Zhou J, Li W, **Ding Y**. Dynamic levels of plasma F (1+2) and D-dimer in patients with acute cerebral infarction during intravenous urokinase thrombolysis. *Neurological Research* 31(4): 367-370, 2009, Cited by 20, Impact Factor: 1.45
68. Zhao WH*, Ji XM, Ling F, **Ding Y**, Jiang LL. Local Mild Hypothermia Induced by Intra-Arterial Cold Saline Infusion Can Prolong the Therapeutic Time Window of Reperfusion in Temporary Local Brain Ischemia in Rats. *Neurological Research* 31(1): 43-51, 2009, Cited by 20, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

69. Zhang X, Ji X, Luo Y, Guo L, Wu H, Miao Z, Shu F, Jiao L, **Ding Y**, Ling F. Intra-arterial thrombolysis for acute central retinal artery occlusion. *Neurological Research* 31(4): 385-389, 2009, Cited by 8, Impact Factor: 1.45 (*my role: study conceptualization, design, data analysis and manuscript writing*)
70. Chen J*, Ji X, **Ding Y**, Luo Y, Cheng H*, Ling F. A novel approach to reduce hemorrhagic transformation after interventional management of acute stroke: catheter-based selective hypothermia. *Medical Hypotheses* 72(1): 62-63, 2009, Cited by 10, Impact Factor: 1.15 (*my role: study conceptualization, design, data analysis and manuscript writing*)
71. Hayes K*, Sprague S, Guo M*, Davis W, Friedman A*, Kumar A*, Jimenez DF, **Ding Y**. Forced, not voluntary, exercise effectively induces neuroprotection in stroke. *Acta Neuropathologica* 115(3): 289-296, 2008, Cited by 67, Impact Factor: 9.78
72. Guo M*, Lin V*, Davis W, Huang T*, Carranza A*, Sprague S, Reyes R*, Jimenez DF, **Ding Y**. Pre-ischemic induction of TNF-alpha by physical exercise reduces blood-brain barrier dysfunction in stroke. *Journal of Cerebral Blood Flow and Metabolism* 28(8): 1422-1430, 2008, Cited by 48, Impact Factor: 5.34
73. Patel TH*, Sprague S, Lai Q, Jimenez DF, Barone CM, **Ding Y**. Blood-brain barrier (BBB) dysfunction associated with increased expression of tissue and urokinase plasminogen activators following peripheral thermal injury. *Neuroscience Letters* 444(3): 22-226, 2008, Cited by 11, Impact Factor: 2.06
74. Swann K*, Berger J*, Sprague S, Wu Y, Davis W, Jimenez DF, Barone CM, **Ding Y**. Peripheral Thermal Injury Causes Blood Brain Barrier Dysfunction Associated with Expression of Matrix Metalloproteinase (MMP) in Rat. *Brain Research* 1129:26-33, 2007, Cited by 33, Impact Factor: 2.83
75. Berger J*, Sprague SM, Wu Y, Davis WW, Jimenez DF, Barone CM, **Ding Y**. Peripheral thermal injury causes early blood-brain barrier dysfunction and matrix metalloproteinase expression in rat. *Neurological Research* 29(6): 610-614, 2007, Cited by 15, Impact Factor: 1.45
76. Davis WW, Mahale S*, Carranza A*, Cox B*, Hayes K*, Jimenez FD, **Ding Y**. Exercise pre-conditioning ameliorates blood-brain barrier dysfunction in stroke by enhancing basal lamina. *Neurological Research* 29 (4): 382-387, 2007, Cited by 17, Impact Factor: 1.45
77. Casagrande VA, Yazart F, Jones KD, **Ding Y**. The Morphology of the Koniocellular Axon Pathway in the Macaque Monkey. *Cerebral Cortex*. 17(10):2334-45, 2007, Cited by 31, Impact Factor: 8.31
78. Guo M*, Cox B*, Mahale S*, Davis WW, Carranza A*, Hayes K*, Sprague S, Jimenez DF, **Ding Y**. Pre-ischemic Exercise Reduces Matrix Metalloproteinase (MMP)-9 Expression and Ameliorates Blood Brain Barrier Dysfunction in Stroke. *Neuroscience*. 151(2):340-51, 2007, Cited by 79, Impact Factor: 3.327

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

79. Ding YH*, **Ding Y#**, Li J*, Bessert DA, Rafols JA. Exercise pre-conditioning strengthens brain microvascular integrity in a rat stroke model. *Neurological Research* 28 (2):184-9, 2006, Cited by 58, Impact Factor: 1.45
80. Wei G, Ji X, Bai H, **Ding Y**: Stroke Research in China. *Neurological Research* 28 (1):11-5, 2006, Cited by 19, Impact Factor: 1.45
81. Ding YH*, Li J*, Rafols JA, Clark JC*, Guthinkonda M, **Ding Y**. Cerebral Angiogenesis and Expression of Angiogenic Factors in Aging Rats after Exercise. *Current Neurovascular Research* 3 (1):15-23, 2006, Cited by 104, Impact Factor: 2.74
82. Ding YH*, Li J*, Rafols JA, Clark JC*, **Ding Y**. Exercise preconditioning upregulates cerebral integrins and enhances cerebrovascular integrity in ischemic rats. *Acta Neuropathologica* 112 (1):74-84, 2006, Cited by 31, Impact Factor: 9.78
83. Reyes Jr. R*, Wu YM, Lai Q, Mrizek M*, Berger J*, Jimenez DF, Barone CM, **Ding Y**. Early Inflammatory Response in Rat Brain after Peripheral Thermal Injury. *Neuroscience Letters* 407(1):11-5, 2006, Cited by 32, Impact Factor: 2.06
84. Ding YH*, Mrizek M*, Lai Q, Wu Y, Li J, Davis WW, **Ding Y**. Exercise Preconditioning Reduces Brain Damage and Inhibits TNF- α Receptor Expression after Hypoxia/Reoxygenation: An In Vivo and In Vitro Study. *Current Neurovascular Research* 3 (4):263-71, 2006, Cited by 39, Impact Factor: 2.74
85. Ding YH*, Young C, Luan XD*, Li J*, Rafols JA, Phillis JW, Clark JC*, **Ding Y**. Exercise preconditioning ameliorates inflammatory injury in ischemic rats during reperfusion. *Acta Neuropathologica*. 109:237-246, 2005, Cited by 106, Impact Factor: 9.78
86. Li J*, Ding YH*, Rafols JA, Lai Q, McAllister JP II, **Ding Y**. Increased Astrocyte Proliferation in Rats After Running Exercise. *Neuroscience Letters* 386 (3):160-164, 2005, Cited by 78, Impact Factor: 2.06
87. **Ding Y#**, Li J*, Luan XD*, Lai Q, Rafols JA, Diaz FG. Motor Balance and Coordination Training Enhances Functional Outcome in Rat with Transient Middle Cerebral Artery Occlusion. *Neuroscience*. 123: 667-674, 2004, Cited by 75, Impact Factor: 3.327
88. **Ding Y#**, Li J*, Luan XD*, Rafols JA, Phillis JW, Diaz FG. Exercise Pre-conditioning Reduces Brain Damage in Ischemic Rats That May be Associated with Regional Angiogenesis and Cellular Overexpression of Neurotrophin. *Neuroscience* 124: 583-591, 2004, Cited by 187, Impact Factor: 3.327
89. **Ding Y#**, Li J*, Luan XD*, Lai Q., McAllister JP, Phillis JW, Guthinkonda M, Diaz FG. Local Saline Infusion into Ischemic Territory Induces Regional Brain Cooling and Neuroprotection in Rats with Transient Middle Cerebral Artery Occlusion. *Neurosurgery* 54 (4):956-965, 2004, Cited by 63, Impact Factor: 3.03

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

90. Luan XD*, Li J*, McAllister JP II, Clark JC*, Diaz FG, Fessler RD., **Ding Y.** Regional brain cooling induced by vascular saline infusion into ischemic territory reduces brain inflammation in stroke. *Acta Neuropathologica*. 107:227-234, 2004, Cited by 37, Impact Factor: 9.78
91. Dujovny M., Ding YH*, **Ding Y.**, Agner C, Perez-Arjona E: Current concepts on the expression of neurotrophins in the greater omentum. *Neurological Research* 26 (4):226-229, 2004, Cited by 11, Impact Factor: 1.45 (*my role: study conception, design, and data analysis*)
92. Ding YH*; Li J*, Rafols JA, **Ding Y.** Reduced Brain Edema and Matrix Metalloproteinase (MMP) Expression by Pre-reperfusion Infusion into Ischemic Territory in Rat. *Neuroscience Letters*. 372: 35-39, 2004, Cited by 36, Impact Factor: 2.06
93. Li J*, Luan XD*, Clark JC*, Rafols JA, **Ding Y.** Neuroprotection against transient cerebral ischemia by exercise pre-conditioning in rats. *Neurological Research* 26 (6):404-408, 2004, Cited by 41, Impact Factor: 1.45
94. Li J*, Luan XD*, Clark JC*, Rafols JA, McAllister JP II, Diaz FG. **Ding Y.** Long-term neuroprotection induced by regional brain cooling with saline infusion into ischemic territory in rats: a behavioral analysis. *Neurological Research* 26:677-683, 2004, Cited by 15, Impact Factor: 1.45
95. Ding YH*, Li J*, Rafols JA, Clark JC*; McAllister II JP, Diaz F. G, Guthikonda M, **Ding Y.** Exercise-Induced Overexpression of Angiogenic Factors and Reduction of Ischemia/Reperfusion Injury in Stroke. *Current Neurovascular Research* 1 (5): 411-420, 2004, Cited by 102, Impact Factor: 2.74
96. Eskandari R*, McAllister JP II, Miller JM, **Ding Y.**, Ham SD, Shearer DM, Way JS. Effects of hydrocephalus and ventriculoperitoneal shunting on afferent and efferent connections of the feline sensorimotor cortex. *Journal of Neurosurgery-Pediatrics* 2 101:196-210, 2004, Cited by 27, Impact Factor: 3.03 (*my role: study conceptualization and design*)
97. **Ding Y#**, Li J*, Clark JC*, Diaz FG, Rafols JA. Synaptic Plasticity in Thalamic Nuclei Enhanced by Motor Skill Training in Rat with Transient Middle Cerebral Artery Occlusion. *Neurological Research*. 23:(2) 189-194, 2003, Cited by 61, Impact Factor: 1.45
98. **Ding Y#**, Young C*, Li C*, Luan XD*, McAllister JP II, Clark JC*, Diaz FG. Reduced Inflammatory Mediator expression by Pre-reperfusion Infusion into Ischemic Territory: A real-time Polymerase Chain Reaction Analysis. *Neuroscience Letters* 353: 173-176, 2003, Cited by 37, Impact Factor: 2.06
99. Shostak Y, **Ding Y.**, and Casagrande VA. Neurochemical Comparison of Synaptic Arrangement of Parvocellular (P), Magnocellular (M), and Koniocellular (K) geniculate Pathways in Owl Monkey (*Aotus trivirgatus*) visual cortex (V1). *Journal of Comparative Neurology*. 456:12-28, 2003, Cited by 17, Impact Factor: 3.51 (*my role: study conception, design, data collection/analysis and manuscript writing*)

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

100. **Ding Y#**, Yao B*, Yang DZ*, Park H, McAllister JP II, Diaz, FG. Pre-reperfusion Flushing of Ischemic Territory: A Therapeutic Study on Ischemia-reperfusion Injury in Stroked Rats Using Histological and Behavioral Assessments. *Journal of Neurosurgery*. 96:310-319, 2002, Cited by 41, Impact Factor: 3.15
101. **Ding Y#**, Zhou YD*, Lai Q, Li J*, Diaz FG. Impaired Motor Activity and Motor Learning Function in Rat with Middle Cerebral Artery Occlusion. *Behavioural Brain Research*. 132:29-36, 2002, Cited by 43, Impact Factor: 3.39
102. Shostak Y, **Ding Y**, Mavity-Hudson J, and Casagrande VA. Cortical synaptic arrangement of the third visual pathway in three primate species: *Macaca mulatta*, *Saimiri sciureus* and *Aotus trivirgatus*. *Journal of Neuroscience*. 22:2885-2893, 2002, Cited by 15, Impact Factor: 6.75 (*my role: study conception, design, data collection/analysis and manuscript writing*)
103. **Ding Y#**, Li J*, Phillis JW, Rafols JA, Diaz FG. Prereperfusion Saline Infusion Into Ischemic Territory Reduces Inflammatory Injury After Transient Middle Cerebral Artery Occlusion in Rats. *Stroke*. 33: (10) 2492-2498, 2002, Cited by 67, Impact Factor: 6.02
104. **Ding Y#**, Li J*, Lai Q, Azam S*, Rafols JA, Diaz FG. Functional Improvement After Motor Training Is Correlated with Synaptic Plasticity in Rat Thalamus. *Neurological Research*. 24: (12) 829-836, 2002, Cited by 37, Impact Factor: 1.45
105. **Ding Y#**, Yao B*, Lai Q, McAllister JP. Impaired motor learning and diffuse axonal damage in motor and visual systems of the rat following traumatic brain injury. *Neurological Research*: 23:193-202, 2001, Cited by 54, Impact Factor: 1.45
106. **Ding Y#**, Lai Q, McAllister JP II, Canady AI. Impaired motor learning in children with hydrocephalus. *Pediatric Neurosurgery*. 34:182-189, 2001, Cited by 10, Impact Factor: 0.50
107. **Ding Y#**, McAllister JP II, Yao B*, Yan N, Canady AI. Neuron tolerance during hydrocephalus. *Neuroscience*. 106:659-667, 2001, Cited by 25, Impact Factor: 3.327
108. **Ding Y#**, McAllister JP II, Yao B*, Yan N, Canady AI. Axonal Damage Associated with Enlargement of Ventricles during Hydrocephalus: a Silver Impregnation Study. *Neurological Research*. 23: 581-587, 2001, Cited by 39, Impact Factor: 1.45
109. **Ding Y#**, Zhou YD*, Lai Q, Li J*, Diaz FG. Long Term Neuroprotective Effect of Inhibiting Poly (ADP-Ribose) Polymerase in Rats with Middle Cerebral Artery Occlusion Using a Behavioral Assessment. *Brain Research*. 915: 210-217, 2001, Cited by 70, Impact Factor: 2.83
110. Allison JD, Melzer P, **Ding Y#**, Bonds AB, Casagrande VA. Differential contributions of magnocellular and parvocellular pathways to the contrast response of neurons in bush baby primary visual cortex (V1). *Visual Neuroscience*. 17: 71-76, 2000, Cited by 36, Impact Factor: 1.68 (*my role: data collection and analysis*)

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

111. **Ding Y**, Casagrande VA. Synaptic and neurochemical characterization of parallel pathways within the cytochrome oxidase (CO) blobs of primate visual cortex. *Journal of Comparative Neurology*. 391: 429-443, 1998, Cited by 41, Impact Factor: 3.51
112. **Ding Y**, Marotte LR. Retinotopic order in the optic nerve and superior colliculus during development of the retinocollicular projection in the wallaby (*Macropus eugenii*). *Anatomy and Embryology*, 196:141-151, 1997, Cited by 23, Impact Factor: 1.39
113. **Ding Y**, Casagrande VA. Distribution and morphology of LGN K pathway axons within the layers and CO-blobs of owl monkey V1. *Visual Neuroscience*, 14: 691-704, 1997, Cited by 64, Impact Factor: 1.68
114. **Ding Y***, Marotte L.R. Initial stages of development of the retinocollicular projection in the wallaby (*Macropus eugenii*): Distribution of ganglion cells in the retina and their axons in the superior colliculus. *Anatomy and Embryology*, 194:301-317, 1996, Cited by 10, Impact Factor: 1.39
115. Mark RF, Freeman TCB, **Ding Y***, Marotte LR. Two stages in the development of a mammalian retinocollicular projection. *Neuroreport*. 5:117-120, 1993, Cited by 24, Impact Factor: 1.64 (*my role: study conceptualization, design, data collection/analysis and manuscript writing*)
116. **Ding Y#**, Sun G, Lu Y, Li S. The vascular microanatomy of skin territory of posterior forearm and its clinical application. *Annals of Plastic Surgery* 22(2):126-134, 1989, cited by 23, Impact Factor: 1.46
117. Sun G, Zhong A, **Ding Y**. Application of lateral groin flap for reconstruction and repairing operation in the perineal region. *Chinese Journal of Surgery*, 27(4):255-259, 1989, cited by 2, Impact Factor: 5.3 (*my role: study conceptualization, design, data analysis and manuscript writing*)
118. **Ding Y#**, Sun G, Lu Y. The vascular microanatomy and clinical application of the skin territory of posterior forearm. *Chinese Journal of Plastic Surgery and Burns*, 5(3):36-40, 1989
119. **Ding Y#**, Sun, G. The progress of fasciocutaneous flap research. *Chinese Journal of Plastic Surgery and Burns*, 5(4):294-297, 1989
120. Sun G, Do P, **Ding Y**. Reductive mammoplasty by upper flap with nipple and areola transposition. *Chinese Journal of Plastic Surgery and Burns*, 4(4):243-248, 1988

Case Reports (* mentee, #corresponding author)

1. Meng R, Ji X, Dornbos D 3rd*, Feeney K, **Ding Y**, Wang X. A case of Susac's syndrome in a Chinese male. *Journal of Neurological Sciences* 31(1-2): 181-182, 2012, Cited by 4, Impact Factor: 2.26 (*my role: study conceptualization, design, and manuscript writing*)

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

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

1. Carcora Y*, Hussain M*, Geng X*, **Ding Y.** A review on current clinical studies leading to improved outcomes in patients treated with newer-generation thrombectomy devices. *Brain Circulation* (accepted), 2015, Impact Factor: 10.301
2. Rastogi R*, **Ding Y#**, Xia S, Wang M, Yu L, Choi HS, Fan ZY, Li M, Haacke M. MRI technology and recent advances in MRI for stroke diagnosis. *Brain Circulation* (accepted), 2015
3. Forreider B*/Pozivilko D*, Kawaji Q*, Geng X*, **Ding Y.** Hibernation-like neuroprotection from attenuating brain metabolic dysfunction in stroke. *Progress in Neurobiology* (accepted), 2015, Impact Factor: 10.301
4. Li S/Hafeez A*, **Ding Y**, Geng X*, Zhao H, Ji X. Preconditioning in Neuroprotection: From Hypoxia to Ischemia. *Progress in Neurobiology* (accepted), 2015, Impact Factor: 10.301 (*my role: study conceptualization, design and manuscript writing*)
5. Parmar S*, Moore-Langston S*, Fredrickson V*, Kim JM*, Rastogi R*, Elmadoun O*, **Ding Y.** Neuroprotective mechanisms of oxygen and ethanol: a potential combination therapy in stroke. *Current Medicinal Chemistry* 22(10):1194-1204, 2015, Impact Factor: 4.07
6. Kwiecien TD*, Sy CA*, **Ding Y.** Rodent models of ischemic stroke lack translational relevance...are non-human primate models the answer? *Neurological Research* 36(5): 417-422, 2014, Cited by 1, Impact Factor: 1.45
7. Li WA*, Moore-Langston S*, Chakraborty T*, Rafols JA, Conti AC, **Ding Y.** Hyperglycemia in stroke and possible treatments. *Neurological Research* 35(5): 479-491, 2013, Cited by 3, Impact Factor: 1.45
8. Asmaro K*, Fu P*, **Ding Y.** Neuroprotection & mechanism of ethanol in stroke and traumatic brain injury therapy: new prospects for an ancient drug. *Current Drug Targets* 14(1): 74-80, 2013, Cited by 5, Impact Factor: 3.60
9. Dornbos D 3rd*, **Ding Y.** Mechanisms of Neuronal Damage and Neuroprotection Underlying Ischemia/Reperfusion Injury after Physical Exercise. *Current Drug Targets* 13:247-262, 2012, Cited by 8, Impact Factor: 3.60

Editorials and Commentaries (*mentee, #corresponding author)

1. Hussain M*, Liu L, **Ding Y.** A dynamic stroke treatment paradigm. *Neurological Research* 37(5): 377-379, 2015
2. 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
3. Fu P*, **Ding Y.** Forward Thinking in Stroke Management. *Neurological Research* 35(5): 441-442, 2013, Cited by 2, Impact Factor: 1.45

PUBLICATIONS (Continued)

Peer-Reviewed Publications (Continued)

Editorials and Commentaries (*mentee, #corresponding author)

4. 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
5. Dornbos D III*, **Ding Y**. Principles of stroke management and prevention. *Neurological Research* 33(4): 325- 326, 2011
6. **Ding Y**#, Goel G*. Diagnosis and Treatment in Stroke. *Neurological Research* 32(4): 324-326, 2010, Cited by 2, Impact Factor: 1.45
7. **Ding Y**#, Zwagerman NT*. Research progress in stroke therapy. *Neurological Research* 31 (4): 329-330, 2009, Impact Factor: 1.45
8. Liu L, Wang Y*, **Ding Y**. Progress of stroke prevention, treatment and education in China: a report from the Tiantan International Stroke Conference 2008. *Neurological Research* 30(4): 329-331, 2008, Cited by 1, Impact Factor: 1.45
9. **Ding Y**#, Clark JC*. Cerebrovascular injury in stroke. *Neurological Research* 28 (1): 3-10, 2006, Cited by 14, Impact Factor: 1.45

Book Authorship, Editorship, and Chapters (* mentee, #corresponding author)

1. Akbary F*, Grzegorzcyk 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
2. Hüttemann M, Doan JW, Goustin AS, Sinkler C, Mahapatra G, Shay J, Liu J, Elbaz H, Grossman LI, **Ding Y**, Zielske SP, Malek MH, Sanderson TH, Lee I. Regulation Of Cytochrome C In Respiration, Apoptosis, Neurodegeneration And Cancer – The Good, The Bad And The Ugly. Nova Science Publishers, 2014
3. 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
4. Dornbos III D*, **Ding Y**. Mechanisms of Neuroprotection Underlying Physical Exercise in Ischemia/Reperfusion Injury. In: Agrawal, *Brain Injury*. InTech, 2012
5. 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
6. **Ding Y**#, Clark JC*. Research Progress of Hypothermia: Selective Intra-arterial Infusion and Regional Brain Cooling in Acute Stroke Therapy. In Kunlin Jin and GY Yang, *Experimental Stroke*. Bentham Science Publisher, 2008

PUBLICATIONS (Continued)

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

1. Li W*, Peng C, Guthikonda G, **Ding Y.** Acute Ethanol Administration Decreased Metalloproteinase and Aquaporin Expressions: A Potential Treatment for Ischemic Stroke? International Stroke Conference, Nashville, TN, 2015. Stroke 46 (Suppl 1), ATP245-ATP245
2. 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)
3. 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
4. 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
5. 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
6. 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
7. 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)
8. 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)
9. 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)
10. 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)

PUBLICATIONS (Continued)

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

11. 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.
12. 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)
13. 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)
14. 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).
15. 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).
16. 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)
17. 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
18. 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).
19. 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).
20. 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).

PUBLICATIONS (Continued)

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

21. Curry A*, Leibelt 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)
22. Leibelt 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
23. Rogers R*, Leibelt 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
24. 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
25. 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)
26. 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)
27. 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
28. 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
29. 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
30. Hayes K*, Carranza A*, Sprague S, Jimenez DF, **Ding Y.** Forced Exercise Procedure Effectively Induces Neuroprotection. International Stroke Conference, 2007. STROKE 38 (2)
31. 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).
32. 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)

PUBLICATIONS (Continued)

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

33. 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
34. 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
35. **Ding Y**, Mrizek M*, Wu Y. Exercise Preconditioning Ameliorates Brain Inflammatory Injury Via TNF Signaling Pathway. 31st International Stroke Conference, 2006. *STROKE* 37 (2)
36. **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).
37. **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).
38. 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).
39. **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)
40. **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
41. **Ding Y**, Li J*, Luan XD*, Rafols 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
42. **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
43. **Ding Y**, Li J*, Clark JC*, Rafols 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
44. Lai Q and **Ding Y**. Complex Movement Enhances Transfer of Motor Learning. *Journal of Sport & Exercise Psychology*, 25, 2003, S85-S86

PUBLICATIONS (Continued)

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

45. **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
46. **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
47. Lai Q, **Ding Y**, Erbaugh SJ. Motor timing performance and learning: A developmental effect. Research Quarterly for Exercise and Sport, 71, S31, 2000
48. Lai Q, **Ding Y**, Erbaugh SJ, Canady AI. Motor learning impairment of shunted hydrocephalic children. Journal of Sport and Exercise Psychology, 22, S71, 2000
49. **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
50. **Ding Y**, McAllister JP II, Canady AI, Zhang MZ. Neuronal damage and tolerance in hydrocephalus. Neuroscience Abstracts 25: 637.16, 1999
51. 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
52. **Ding Y**, McAllister JP II, Canady AI. Axonal damage and neuron tolerance in hydrocephalus. Journal of Neurotrauma, 16: 128, 1999
53. Lai Q, **Ding Y**, McAllister JP II, Canady AI. Motor skill learning and memory impairment in hydrocephalus. Journal of Neurotrauma, 16: F5, 1999

Unpublished and Nationally/Internationally Presented Abstracts (for last 15 years)(*mentee)

Podium

1. Caron JL, 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

PUBLICATIONS (Continued)

Unpublished and Nationally/Internationally Presented Abstracts (for last 15 years)(*mentee)

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.

PUBLICATIONS (Continued)

Unpublished and Nationally/Internationally Presented Abstracts (for last 15 years)(*mentee)

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.

PRESENTATIONS

International and National Presentations (Invited)

1. 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
2. Experimental Design and SCI Publication. Capital Medical University Beijing LuHe Hospital Research Symposium, Beijing, China, April 23, 2014
3. Attenuating Brain Metabolic Dysfunction Improves Stroke Outcome: Is Ethanol A Solution? Tiantan International Stroke Conference 2014. Beijing, China, June 27-29, 2014
4. Neuroprotective Mechanism of Preconditioning Against Intracranial Stenosis and Ischemic Injury. 7th Intracranial Atherosclerosis. Chengdu, China, September 19-21, 2014
5. Attenuating Brain Metabolic Dysfunction Improves Stroke Outcome: Is Ethanol A Solution? 2014 International Conference on Aging and Disease, Beijing, China, November 1-2, 2014
6. Neuroprotection of Ischemic Conditioning against Ischemic Injury. Beijing XuanWu-LuHe Key Research Collaboration Symposium. Beijing, China, December 15-16, 2014
7. Neuroprotection & Mechanism of Ethanol Therapy in Acute Stroke: New Prospects for an Ancient Drug. Tiantan International Stroke Conference, 2013
8. Brain Metabolic Dysfunction and Stroke Outcome. International Conference of Emerging Industry, 2013
9. Can Hypothermia Prolong the Time Window in Stroke Treatment? Tiantan International Stroke Conference, 2012
10. Hypothermia and Other Treatments Prolong The Time Window in Stroke. 10th International Conference on Cerebrovascular Surgery, 2012
11. Alcohol in Stroke Therapy. Tiantan International Stroke Conference, 2011
12. Biomarker in Traumatic Brain Injury (TBI). Weifang Medical University, 2011
13. 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
14. 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
15. 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
16. Experimental Design and Academic Publication. Capital Medical University, Beijing, China. October 28, 2009

PRESENTATIONS (Continued)

International and National Presentations (Invited)

17. Exercise and Stroke A Translational Approach for Neuroprotection. Tiantan International Stroke Conference 2009, June 11-13, 2008, Beijing, China
18. Medical Career Development: Academic Publication. Tiantan International Stroke Conference 2008, June 13-15, 2008, Beijing, China
19. Physical Exercise and Neuroprotection in Stroke. Tiantan International Stroke Conference, 2007
20. 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
21. Peripheral Thermal Injury on Early Inflammatory Response in Rat Brain. 51st Annual Meeting of Plastic Surgery Research Council, May 17, 2006
22. Ischemic Area Infusion: a Potential Therapy in Stroke. Tiantan International Stroke Conference 2006, June 17, 2006
23. Pre-ischemic Exercise Ameliorates Inflammatory Injury in Stroked Rats During Reperfusion. 29th International Stroke Conference, February 5, 2004
24. 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
25. 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
26. Stroke Reduction, Minimization and Recovery. 6th Annual Urban Hypertension Update: Urban Health in Challenging Times/The Science of Stroke. May 3, 2003
27. Functional Recovery Enhanced by Motor Skill Training Is Related to Synaptogenesis in the Thalamus of Rats with Transient Meddle Cerebral Artery Occlusion. 27th International Stroke Conference, February 7-9, 2002
28. Impaired motor learning in children with hydrocephalus. 28th AANS/CNS Section on Pediatric Neurological Surgery Annual Meeting, December 1-4, 1999

PRESENTATIONS (Continued)

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

1. 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
2. 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
3. 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
4. Neuroprotection & Mechanism of Ethanol Therapy: New Prospects for an Ancient Drug. WSU Program for TBI Research Summer School/ TBI Workshop, 2013
5. Alcohol Therapy in Brain Injury (Stroke/TBI). Department of Biomedical Engineering and Bioengineering Center, Wayne State University, 2012
6. 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
7. Brain Edema is reduced by Acute Alcohol Administration after Traumatic Brain Injury (TBI) and Stroke. TBI Workshop. Wayne State University, 2011
8. Aquaporin Upregulation and Brain Edema Formation after Traumatic Brain Injury. Nephrology Ground Round, DMC, 2010
9. Brain Edema in Traumatic Brain Injury (TBI). TBI Workshop. Wayne State University, 2010
10. Aquaporins and Brain Edema in Traumatic Brain Injury (TBI). Anatomy and Cell Biology Seminar Series, Wayne State University School of Medicine, Detroit, MI 2010
11. Stroke Research in Neurosurgery. Neurosurgery Ground Round, Wayne State University School of Medicine, Detroit, MI, 2010