***CURRICULUM VITAE***

***Justin F. Fraser, MD, FAANS, FAHA***

**CONTENT ORGANIZATION**

**I. GENERAL INFORMATION**

Office Address, Email, Telephone, Fax

Professional Licensure, Board Certification, Research Certification

**II. EDUCATION**

Undergraduate, Professional/Graduate, Continuing

**III. PROFESSIONAL EXPERIENCES**

**IV. ACADEMIC APPOINTMENTS**

Faculty, Visiting Professorships

**V. HOSPITAL or CLINICAL APPOINTMENTS**

**VI. CONSULTING ACTIVITIES**

Local, State/Regional, National/International

**VII. TEACHING ACTIVITIES**

University Faculty, Professional Faculty

**VIII. ADVISING ACTIVITIES**

Student Advising, Directed Student Learning, Thesis & Dissertation, Referee for Academic Appointment, Promotion or Tenure

**IX. ADMINISTRATIVE ACTIVITIES & UNIVERSITY SERVICE**

University, College, Medical Center, Department

**X. SPECIAL ASSIGNMENTS**

**XI. HONORS & AWARDS**

**XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT**

Memberships, Positions Held, Advisory Groups, Review Panels, Editorial Boards,

Journal Peer-Reviewing, Media Contributions, Professional Development

**XIII. SPEAKING ENGAGEMENTS**

Local, State/Regional, National/International

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS**

Publications, Abstract Presentations, Sponsored Research Projects, Grant & Contract Activities, Non-Sponsored Research Projects, Other Creative Activities

**XV.** **OTHER ACTIVITIES**

Date Prepared: April 16, 2017

#### *CURRICULUM VITAE*

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| Justin F. Fraser, MD, FAANS, FAHA  Assistant Professor, Special Title Series  Department of Neurological Surgery  University of Kentucky College of Medicine  UK HealthCare | JF%20Fraser%20Professional%20Photo |

**I. GENERAL INFORMATION**

**Office Address** 800 Rose St, Room MS108A

Lexington, KY 40536

**Email** jfr235@uky.edu

**Telephone** 859-323-0616

**Fax** 859-323-1330

**Professional Licensure**

**Kentucky State Medical Board**

03/2011- Present License #44126

**New York State Medical Board**

6/2006 – 02/2012 License #240596

**Drug Enforcement Agency Controlled Substance Registration**

04/2011- Present DEA Registration #FF2513922

**Board Certification**

**American Board of Neurological Surgery**

06/2015 - Present Diplomate, Neurological Surgery

02/2016 – Present **Society of Neurological Surgeons**

Certificate of Advanced Subspecialty Training,

NeuroEndovascular Surgery

**Research Certification**

**University of Kentucky Collaborative Institutional Training Initiative**

05/2012 - Present Completion Certificate; Actively Certified in the following:

Responsible Conduct of Research

Good Clinical Practice Course for Clinical Trials Involving Drugs

Good Clinical Practice Course for Clinical Trials Involving Devices

Human Research

Humanitarian Use Devices

**National Stroke Association**

09/2015 – Present NIH Stroke Scale Certification

**II. EDUCATION**

**Undergraduate**

**Princeton University**

Princeton, NJ

08/1995 – 06/1999 BA, Woodrow Wilson School of Public and International Affairs

**Professional/Graduate**

**Weill Cornell Medical College**

New York, NY

08-1999 – 06/2004 MD, Medicine

**Post-Graduate**

**New York Hospital, Weill Cornell Medical College**

New York, NY

07/2004 - 06/2005 Surgery Internship

**New York Hospital, Weill Cornell Medical College**

New York, NY

07/2005 - 06/2011 Neurological Surgery Residency

**New York Hospital, Weill Cornell Medical College**

New York, NY

07/2007 - 06/2009 Interventional Neuroradiology Fellowship (in-folded)

**III. PROFESSIONAL EXPERIENCES**

**University of Kentucky, Chandler Hospital**

Lexington, KY

07/2011 - PresentAssistant Professor, Neurological Surgery, full-time

**Veterans Administration Hospital**

Lexington, KY

07/2011 - PresentConsultant, Neurological Surgery, part-time

**Hazard ARH Medical Center**

Hazard, KY

07/2015 - PresentConsultant for Outreach Clinic, Cerebrovascular Neurosurgery, part-time

**IV. ACADEMIC APPOINTMENTS**

**Faculty**

**University of Kentucky, College of Medicine**

Lexington, KY

07/2011 – 06/2015 Assistant Professor of Neurological Surgery, Special Title Series, non-tenure-track, academic, full-time

07/2011 – Present Assistant Professor of Neurology, joint appointment

07/2011 – Present Assistant Professor of Radiology, joint appointment

07/2013 – Present Assistant Professor of Anatomy and Neurobiology, joint appointment

07/2015 – Present Assistant Professor of Neurological Surgery, Special Title Series, tenure-track, academic, full-time

**V. HOSPITAL or CLINICAL APPOINTMENTS**

**University of Kentucky, Chandler Hospital**

Lexington, KY

07/2011 - PresentAssistant Professor, Neurological Surgery, full-time

**Veterans Administration Hospital**

Lexington, KY

07/2011 - PresentConsultant, Neurological Surgery, part-time

**Hazard ARH Medical Center**

Hazard, KY

07/2015 - PresentConsultant for Outreach Clinic, Cerebrovascular Neurosurgery, part-time

**VI. CONSULTING ACTIVITIES**

***National/International***

**Fawkes Biotechnology, LLC**

Lexington, KY

10/2014 - Present Clinical Director. I am tasked with organizing and directing clinical translation of the scientific intellectual property into a clinical application. This includes design of clinical trials, discussions with medical device industrial partners, and applications for funding opportunities to develop the technology.

**Stream Biomedical, Inc.**

Lewes, DE

12/2015 - Present Consultant. I provide information and expertise regarding translation of new therapies for stroke care.

**VII. TEACHING ACTIVITIES**

**University Faculty**

**University of Kentucky**

Lexington, KY

2011 – Present Grand Rounds, University of Kentucky, College of Medicine

Department of Neurological Surgery. Give Grand Rounds lecture annually in the Department of Neurological Surgery to faculty and staff with CME accreditation.

2011 - Present Lecturer to Resident Housestaff, Department of Neurological Surgery.

Provide lectures/conference for NeuroEndovascular Surgery once monthly to residents and medical students.

2013 MD821 Introduction to Clinical Medicine

Lecturer to Medical Students in Pituitary Disease and Management

2013 – Present MD817-001 Neurosciences

Lecturer to Medical Students in Stroke and Cerebrovascular Disease.

2017 - Present HHS 102 Shadowing

Preceptor for medical school course in shadowing clinical experience

**Professional Course/Program Faculty**

**Gill Heart Institute, University of Kentucky**

05/2013 “New Frontiers in Percutaneous Cardiovascular Therapies”; Course Faculty and Lecturer (Title: Treatment of Carotid Disease:  
Progressing Paradigm) (Lexington, KY)

**Kentucky Neuroscience Institute, University of Kentucky**

06/2015 Clinical & Translational Research Symposium; Course Faculty and Lecturer (Lexington, KY)

**Society for NeuroInterventional Surgery**

02/2016 SNIS Fellows Course Faculty; Lecturer (Los Angeles, CA)

07/2016 SNIS Annual Meeting; Meeting Faculty and Session Moderator

**VII. TEACHING ACTIVITIES *– continued***

**American Heart Association/American Stroke Association**

02/2015 International Stroke Conference; Meeting Faculty and Moderator (Nashville, TN)

02/2016 International Stroke Conference; Meeting Faculty and Moderator

(Los Angeles, CA)

**Kentucky Neuroscience Institute, University of Kentucky**

06/2016 Practical Update for Neurology and Neurosurgery;Course Faculty and Lecturer (Lexington, KY)

**VIII. ADVISING ACTIVITIES**

**Student Advising**

**University of Kentucky, College of Medicine**

Lexington, KY

04/2012 Mentor, Daniel VanDerPloeg, Shadowing Experience in Neurosurgery

04/2012 Mentor, Salman Jealani, Career Advising and Shadowing Experience in Neurosurgery

06/2012 Mentor, Hunter Barker, Career Advising

10/2012 – 11/2012 Teaching Supervisor, Karl Echiverri, "Longitudinal Clinical Experience," Department of Behavioral Science”

11/2012 Mentor, Chad Willis, Shadowing Experience in Neurosurgery

11/2012 Mentor, Dexter Reneer, Shadowing Experience in Neurosurgery

02/2016 - Present Mentor, Devynn Ferguson, STEAM Academy, Shadowing Experience in Neurosurgery

02/2016 Mentor, Justin Woods, 1 credit hour, Career Advising

02/2016 Mentor, Phyllis Holloway, 1 credit hour, Career Advising

2016 – Present Mentor, Amy Sheldrake, Provided career advice and counseling for Neurosurgery

**VIII. ADVISING ACTIVITIES *– continued***

2016 – Present Mentor, Stephanie Coffman, Provided career advice and counseling for Neurosurgery

**Directed Student Learning**

**University of Kentucky**

Lexington, KY

2011 – 2015 Directed Individual/Independent Study, Jason Hall, Medical Student, College of Medicine "Review trials and data of neuroprotective agents for acute ischemic stroke."

2011 - 2015 Teaching Supervisor, Stephen Grupke MD, Resident, Neurosurgery, "Review trials and data of neuroprotective agents for acute ischemic stroke."

2011 - 2015 Teaching Supervisor, Stephen Grupke MD, Resident, Neurosurgery, "Natural history of traumatic CCF and spontaneous resolution,"

2011 - 2012 Directed Individual/Independent Study, Ashley Madon, Medical Student, College of Medicine, "Current course and treatment of central retinal vein occlusion and opportunity for improvement."

2011 – 2012 Directed Individual/Independent Study, Jessica Siu, Medical Student, College of Medicine, "Current course and treatment of central retinal vein occlusion and opportunity for improvement."

2011 – 2012 Directed Individual/Independent Study, Juli Kretzer, Medical Student, College of Medicine, "Course and treatment of spinal hemangioma."

2011 – 2012 Directed Individual/Independent Study, Kevin White, Medical Student, College of Medicine, "Review of treatment of patients with multiple intracranial aneurysms - higher risk of rupture?."

2011 – 2013 Directed Individual/Independent Study, Ashley Loan, Medical Student, College of Medicine, "Natural history of traumatic CCF and spontaneous resolution."

2011 – 2013 Directed Individual/Independent Study, Kyle Blackburn, Medical Student, College of Medicine, "Natural history of traumatic CCF and spontaneous resolution."

**VIII. ADVISING ACTIVITIES *– continued***

**Directed Student Learning - continued**

2011 – Present Directed Individual/Independent Study, Katya Alimova, Medical Student, College of Medicine, "Morphology of cerebral vasculature and aneurysms in cases of cross-Anterior Communicating Artery T-stenting."

2011 – Present Directed Individual/Independent Study, Ighodaro Eseosa, Medical Student, College of Medicine, "Morphology of cerebral vasculature and aneurysms in cases of cross-Anterior Communicating Artery T-stenting."

11/2012 – 06/2015 Mentor, Richard Taing, Medical Student, College of Medicine, "Review of treatment of patients with multiple intracranial aneurysms - higher risk or rupture?”, Professional Student Mentored Research Fellowship (PSMRF) Award

07/2015 – Present Teaching Supervisor, Nessa Timoney, Resident, Neurosurgery, "TXA for subdural hematoma."

10/2015 – Present Mentor, Matthew McCann, "Evaluating Early Use of Percutaneous Endoscopic Gastrostomy and Tracheotomy in Critically Ill Patients with Hemorrhagic Strokes.", Professional Student Mentored Research Fellowship (PSMRF) Award

2015 – 2016 Directed Individual/Independent Study, Christopher Howell, Medical Student, College of Medicine, "Review Venous Sinus Stent for Idiopathic Intracranial Hypertension."

2015 – Present Directed Individual/Independent Study, Amy Sheldrake, Medical Student, College of Medicine, "Effect of Anticoagulation on Acute Ischemic Stroke Treatment."

2015 – Present Directed Individual/Independent Study, Catherine Wang, Medical Student, College of Medicine, "Retrospective overview of UK Moya Moya patients."

2015 – Present Directed Individual/Independent Study, Erol Huseyin, Medical Student, College of Medicine, "Feasibility and Innovation in Evaluation of Intracranial Thrombi Removed During Thrombectomy."

2015 Directed Individual/Independent Study, Faiyad Mannan, Medical Student, College of Medicine, "Utilization of tPA with new and old guidelines for stroke."

**VIII. ADVISING ACTIVITIES *– continued***

**Directed Student Learning - continued**

2014 – Present Directed Individual/Independent Study, Jason Chisholm, Medical Student, College of Medicine, "Retrospective case series of decompressive hemicraniectomy."

2015 – Present Directed Individual/Independent Study, Sibi Rajendran, Medical Student, College of Medicine, "Changes in local versus systemic pH during acute large vessel ischemic stroke."

2017 – Present Directed Individual/Independent Study, Billy Corbett, Medical Student, University of Louisville, “Evaluation of Spontaneous Intracerebral Hemorrhage (ICH) Treatment at UK since 2011."

2017 – Present Directed Individual/Independent Study, Stephanie Coffman, Medical Student, College of Medicine, “Tandem Occlusion in Stroke.”

2017 – Present Directed Individual/Independent Study, Nicholas Per, Medical Student, College of Medicine, “Distribution of Thrombectomy Patients Correlated to Available Systems of Care.”

2017 – Present Directed Individual/Independent Study, Shweta Kamat, Medical Student, College of Medicine, “Stroke Treatment in Kentucky. Where is the delay?”

2017 – Present Directed Individual/Independent Study, Zachary Dickinson, Medical Student, College of Medicine, “Tracheostomy and PEG Placement in Stroke Patients in Kentucky.”

**Thesis & Dissertation**

**University of Kentucky, College of Medicine, Department of Anatomy & Neurobiology**

Lexington, KY

07/2013 – 07/2016 Adviser and Dissertation Committee Co-Chair for Michael Maniskas, PhD Candidate. Topic: Neuroprotection as an adjunct to thrombectomy in acute ischemic stroke.

**VIII. ADVISING ACTIVITIES *– continued***

**Thesis & Dissertation *- continued***

07/2014 – Present Adviser and Dissertation Committee Co-Chair for Katie Salmeron, PhD Candidate. Topic: Determining Perlecan LG3's potential and regulation after experiment acute ischemic stroke.

07/2015 – Present Adviser and Dissertation Committee Co-Chair for Danielle Edwards, PhD Candidate. Topic: Evaluating α5β1 Integrin activity as a potential therapeutic target in ischemic stroke.

**University of Kentucky, College of Nursing**

Lexington, KY

07/2015 – Present Adviser and Dissertation Committee Member for Sarah Martha, PhD Candidate. Topic: Intra-thrombus and intra-luminal adjacent milieu in large vessel occlusive strokes

**IX. ADMINISTRATIVE ACTIVITIES & UNIVERSITY SERVICE**

**Medical Center**

**University of Kentucky Medical Center**

Lexington, KY

***Administration & Clinical Operations***

07/2011 - Present Neurosurgery Medical Director, Neurosurgery Intensive Care Unit

07/2013 - Present Director, Cerebrovascular Surgery

2015 Neurosurgery Delegate, *ad hoc* committee for KNI and UK Healthcare Strategic Planning

07/2015 – Present Neurosurgery Delegate, UK Healthcare Mortality Review Committee

01/2017 – Present Co-Chair, Advancing Care Continuum Team

**IX. ADMINISTRATIVE ACTIVITIES & UNIVERSITY SERVICE**

**College**

**University of Kentucky College of Medicine**

Lexington, KY

***Administration & Clinical Operations***

2014 – 2015 Member, *ad hoc* Search Committee for Chair of Department of Neurology

2015 - Present Neurosurgery Delegate, InterDepartment Trauma Quality Assurance (IDTQA) Committee

**Department**

**University of Kentucky, College of Medicine**

Department of Neurological Surgery

Lexington, KY

***Administration & Clinical Operations***

08/2011 - Present Director, Neurosurgery Department Web Design

08/2013 - Present Neurosurgery Delegate, AEHR KNI Provider Committee

***Education & Research***

07/2013 - Present Member, Neurosurgery Clinical Competency Committee

04/2014 - Present Member, Neurosurgery Program Evaluation Committee

**XI. HONORS & AWARDS**

2014 Bluegrass Society for Neuroscience, First Place Poster Award

2015 Named University of Kentucky Nominee, Brain Research Foundation, Fay/Frank Seed Grant Program Application

2015 Named a Fellow, American Association of Neurological Surgeons

2016 Received Subspecialty Certification in NeuroEndovascular Surgery from the Society of Neurological Surgeons, Committee on Advanced Subspecialty Training

2016 Named International Stroke Conference Program Committee Abstract Reviewer (3-year term)

2016 – Present Named Chair, Standards and Guidelines Committee, Society for NeuroInterventional Surgery

2016 Named a Fellow, American Heart Association

2016 Named to the Board of the Society for NeuroInterventional Surgery Foundation

**XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT**

**Memberships**

2004 – Present Congress of Neurological Surgeons

2004 – Present American Association of Neurological Surgeons

2009 – Present Society for NeuroInterventional Surgery

2011 – Present Joint Cerebrovascular Section of AANS/CNS

2011 – Present Southern Neurosurgical Society

2011 – Present American Heart Association/American Stroke Association

2011 – 2016 North American Skull Base Society

2013 - Present American Medical Association

**XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT *– continued***

2014 – Present Neurosurgical Society of Kentucky

2014 – Present Kentucky Medical Association

2014 – Present Brain Injury Alliance of Kentucky

2015 – Present European Stroke Association

**Positions Held**

***Local***

**Brain Injury Alliance of Kentucky, Lexington Board**

2014 – Present Member, Board of Directors

**Kentucky Board of Emergency Medical Services**

2016 – Present *ad hoc* Advisor to Cardiac and Stroke Subcommittee

***National/International***

**Society for NeuroInterventional Surgery**

2011 – 2016 Member, Standards and Guidelines Committee

2013 – 2016 Member, Membership Committee

2016 Member, Annual Meeting Planning Committee

2016 - Present Chair, Standards and Guidelines Committee

**Society for NeuroInterventional Surgery Foundation**

2016 – Present Board Member

**AANS/CNS Cerebrovascular Section**

2011 – Present Member, Standards and Guidelines Committee

**Journal Peer-Reviewing**

2015 – Present Medicine

2015 – Present World Journal Pediatrics

**XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT *– continued***

**Journal Peer-Reviewing *– continued***

2015 – Present Medical Science Monitor

2015 – Present Journal of NeuroInterventional Surgery

2016 – Present World Neurosurgery

2016 – Present Journal of Neurosurgery

2016 – Present Journal of Cerebral Blood Flow and Metabolism

2016 – Present International Journal of Molecular Sciences

2016 – Present Cerebrovascular Research

**Media Contributions**

**University of Kentucky, UK Healthcare, Internet *Advances & Insights* series, (**[**https://www.youtube.com/user/UKHealthCare**](https://www.youtube.com/user/UKHealthCare)**)**

02/14/2014 “What is an aneurysm?”, YouTube Video, (<https://www.youtube.com/watch?v=T3aG5k41iIo)>

02/14/2014 “What are the symptoms of an aneurysm?”, YouTube Video, <http://youtu.be/aWixODCHSZY>

02/14/2014 “What are the risk factors for an aneurysm?”, YouTube Video,

<http://youtu.be/2hp9fe9oZYk>

02/14/2014 “How is an aneurysm diagnosed?”, YouTube Video,

<http://youtu.be/_yHMcUM2Y24>

02/14/2014 “What are the treatment options for an aneurysm?”, YouTube Video,

<http://youtu.be/c45FwZJCT3g>

02/14/2014 “What to expect at your clinic visit”, YouTube Video

<http://youtu.be/sQPwWujO9hI>

**XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT *– continued***

**Public Service – Outreach/Education to First Responders and Emergency Services**

**Rural Healthcare Training Symposium**

**Lincoln County – Stanford, KY**

02/2015 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**Frankfort Regional Medical Center**

04/2015 Nursing Leadership Tour

**Lexington/Fayette County EMS**

Lexington, KY

07/2015 Update on Ischemic and Hemorrhagic Stroke (Group 1)

10/2015 Update on Ischemic and Hemorrhagic Stroke (Group 2)

12/2015 Update on Ischemic and Hemorrhagic Stroke (Group 3)

**Georgetown/Scott County EMS**

Georgetown, KY

08/2015 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

08/2016 Lecture: “Stroke Case Review - Stories of Intervention and Lessons in a Changing Paradigm”

**Regional TeamHealth Emergency Medicine Physician Meeting**

Lexington, KY

09/2015 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**Regional EMS Directors’ Meeting**

Lexington, KY

10/2015 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**Clark/Winchester EMS, KY**

Winchester, KY

11/2015 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**Harrison Memorial Hospital**

Cynthiana, KY

12/2015 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT *– continued***

**Public Service – Outreach/Education to First Responders and Emergency Services – continued**

**Air Methods – London Base**

London, KY

12/2015 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**London EMS – Ambulance Inc of Laural County**

London, KY

03/2016 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**Air Evac Northern KY**

Lexington, KY

05/2016 University of Kentucky Hospital Tour and Discussion on Stroke and Cerebrovascular Disease

**Ephraim McDowell Regional Medical Center and Air Evac, Danville**

Danville, KY

05/2016 Lecture: “Stroke Case Review – Stories of Intervention”

**Air Methods All-Call Regional Meeting**

Lexington, KY

06/2016 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**Burlington EMS**

Burlington, KY

01/2017 Lecture: “Opening the floodgates - Update on ground-breaking changes in management of acute stroke”

**Professional Development**

*Local/Regional*

**Department of Neurological Surgery, University of Kentucky**

07/2011 – Present Monthly Grand Rounds, Lexington, KY, #CME: 1 per month

**Kentucky Neuroscience Institute, University of Kentucky**

11/2011 Kentucky Neuroscience Symposium, Lexington, KY

**XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT *– continued***

**Professional Development - continued**

10/2015 UK Kentucky Neuroscience Institute Expo, Lexington, KY, #CME: 0.75

2012 **University of Pittsburgh, Gamma Knife Radiosurgery Course**

Training course for stereotactic radiosurgery, Pittsburgh, PA, CME 49.5

**Spinal Cord and Brain Injury Research Center, University of Kentucky**

02/2012 Lecture Series: “Overcoming axon growth-inhibtion in the pericontusioned region after traumatic brain injury: Is it enough?”,

Lexington, KY

**Southern Neurosurgical Society**

03/2012 Annual Meeting, Amelia Island, FL

02/2013 Annual Meeting, Sarasota, FL

02/2014 Annual Meeting, San Juan, PR

**University of Kentucky, Trauma and Acute Care Surgery Service,**

**Grand Rounds**

10/2012 “New Joint Commission Core Measures: The prevalence of alcohol and drug use screening and intervention," (Lexington, KY)

**Gill Heart Institute, University of Kentucky**

05/2013 “New Frontiers in Percutaneous Cardiovascular Therapies”, Lexington, KY

**UK Stroke Network Symposium**

08/2014 2014 Annual Meeting, Lexington, KY

08/2015 2015 Annual Meeting, Lexington, KY

08/2016 2016 Annual Meeting, Lexington, KY

**Bluegrass Society for Radiology Technologists**

04/2014 Symposium Series, Lexington, KY

**Cardinal Hill Rehabilitation Hospital**

04/2014 "Brain Injury Alliance of Kentucky (BIAK) Seminar,", Lexington, KY

**Adult InterDepartment Trauma Quality Assurance, University of Kentucky**

**XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT *– continued***

**Professional Development - continued**

03/2016 - Present Monthly Meeting, Lexington, KY, #CME: 1 per meeting

*National*

**Society of NeuroInterventional Surgery**

07/2011 Annual Meeting, Colorado Springs, CO, #CME: 18

07/2012 Annual Meeting, San Diego, CA

07/2013 Annual Meeting, Miami, FL

07/2016 Annual Meeting, Boston, MA, #CME: 24.25

**Joint AANS/CNS Cerebrovascular Section**

01/2012 Annual meeting, New Orleans, LA, #CME: 7.75

02/2015 Annual Meeting, Nashville, TN, #CME: 11

02/2016 Annual Meeting, Los Angeles, CA

**American Academy of Neurological Surgery**

09/2014 Annual Meeting, Santa Rosa Beach, FL, #CME: 14.5

**Congress of Neurological Surgeons**

01/2015 “Acute Cervical Spine Guidelines” Seminar, #CME: 1

01/2015 “Guidelines Follow-up: Summary of Guidelines for the Management of Acute Ischemic Stroke and Intracerebral Hemorrhage” Seminar, #CME: 1

**American Association of Neurological Surgeons**

05/2015 Annual Meeting, Washington, DC, #CME: 16.25

05/2015 Goodman Oral Board Preparation Course, Houston, TX, #CME: 28

05/2016 Leadership Development Course, Chicago, IL, #CME: 4

*International*

**International Symposium on Neuroprotection and Neurorepair**

04/2014 8th Biennial Meeting, Magdeburg, Germany

04/2016 9th Biennial Meeting, Leipzig, Germany

**American Heart/Stroke Association**

02/2015International Stroke Conference, Nashville, TN #CME: 22.50

02/2016 International Stroke Conference, Los Angeles, CA, #CME: 22

**European Stroke Organization**

04/2015 Annual Meeting, Glasgow Scotland, UK, #CME: 10

**XIII. SPEAKING ENGAGEMENTS**

***Local***

**University of Kentucky, Chandler Hospital and College of Medicine**

Lexington, KY

09/2011 Critical Care Nursing Lecture Series: “Subarachnoid Hemorrhage and Treatment of Aneurysms”

11/2011 Department of Medicine, Division of Pulmonary Critical Care Conference: “Subarachnoid Hemorrhage and Intracranial Aneurysms:

Lessons in Neurocritical Care”

02/2012 – Present Department of Neurological Surgery Board Review Lecture Series:

Give two lectures annually as part of series – “Cerebrovascular Board Review”

04/2012 Department of Medicine, Division of Pulmonary Critical Care Conference: “Diabetes Inspidus in the Neurologic Patient: Lessons in Neurocritical Care”

08/2012 Department of Ophthalmology Grand Rounds: “Intra-Arterial Thrombolysis for Severe Recent Central Retinal Vein Occlusion”

05/2013 Gill Heart Institute Update on Percutaneous Therapy: “Treatment Update for Carotid Stenosis”

06**/**2013 ECES Lecture Series: “Non-traumatic Intracranial Hemorrhage”

10/2013 Family Medicine Review Update: “Subarachnoid Hemorrhage and Treatment of Aneurysms”

10/2013 Department of Medicine, Division of Endocrinology Lecture Series: “Pituitary Adenomas: Brief Review and Management Paradigm”

10/2013 Department of Anesthesiology, Neurocritical Care Service Lecture Series: “Subarachnoid Hemorrhage and Intracranial Aneurysms: Lessons in Neurocritical Care”

11/2013 Department of Anesthesiology, Neurocritical Care Service Lecture Series: “Acute Ischemic Stroke: Lessons in Neurocritical Care”

01/2014 Department of Neurology Grand Rounds: “Acute Intervention for Ischemic Stroke: Past, Present, and Future”

**XIII. SPEAKING ENGAGEMENTS *– continued***

***Local - continued***

02/2015 UK CATS Lecture Series: “Acute Intervention for Ischemic Stroke: Past, Present, and Future.”

03/2016 Center for Advanced Translational Stroke Science Lecture Series: “Point Break: Opportunities for current and future translational research in the current acute ischemic stroke pathway”

08/2016 UK American Medical Student Association Guest Lecturer: “Case Review in Neurosurgery”

11/2016 UK Neurosurgery Grand Rounds: “There and Back Again, A Vascular Neurosurgeon’s Tale”

11/2016 UK Emergency Department RN Update on Stroke: “A Bomb in the Brain – Update on intervention for hemorrhagic stroke.”

**Lexington Chapter of American Association of Professional Coders**

Lexington, KY

10/2012 AAPC Lexington Lecture Series: “Surgical Procedures for Aneurysms”

***State/Regional***

**Kentucky EMS Expo**

Lexington, KY

09/2011 Annual EMS Expo: “Subarachnoid Hemorrhage and Hemorrhagic Stroke”

09/2014 Annual EMS Expo: “Examining the Three T’s of Brain Trauma Treatment: Time, Team, and Technique”

09/2016 Annual EMS Expo: “Opening the floodgates – Update on Groundbreaking Changes in Management of Acute Stroke”

**UK Kentucky Neuroscience Institute Expo**

Lexington, KY

2014 “The Evacuator, The Plumber, and the Candlestick Maker”

**Kentucky Statewide Trauma & Emergency Medicine Symposium**

Lexington, KY

10/2016 “Opening the Floodgates: Update on Interventions for Acute Ischemic Stroke”

**XIII. SPEAKING ENGAGEMENTS *– continued***

***State/Regional - continued***

**Kentucky Rural Healthcare Training Weekend**

Stanford, KY

2/2017 “There and Back Again: A Vascular Neurosurgeon’s Tale”

***National/International***

**AANS/CNS Cerebrovascular Section/Society for NeuroInterventional Surgery Fellows Course**

Los Angeles, CA

02/2016 Annual Fellows Course: “Lessons in Plumbing – Techniques and Pitfalls in Thrombectomy.”

**Society for NeuroInterventional Surgery**

Boston, MA

07/2016 SNIS Annual Meeting: “Triple Crown? Rapid Access, Revascularization and Local Neuroprotection as a Therapeutic Strategy for Stroke.”

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS**

**A. PUBLICATIONS**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

1. **Fraser JF,** Diwan AD, Peterson M, O’Brien MF, Mintz DN, Khan SN, and Sandhu HS**:** Preoperative Magnetic Resonance Imaging Screening for a Surgical Decision Regarding the Approach for Anterior Cervical Spine Fusion at the Cervicothoracic Junction**.** Spine**.** 2002. 27(7):675-681**.**
2. **Fraser JF,** Huang RC, Girardi FP, and Cammisa FP**:** Pathogenesis, presentation, and treatment of lumbar spinal stenosis associated with coronal or sagittal spinal deformities**.** Neurosurgical Focus**.** 2003. 14(1): Article 6.
3. Fraser JF, Girardi FP, McMahon P, Padgett D, Cammisa Jr. FP. Understanding Lumbar Spinal Stenosis. Federal Practitioner. 2003. 20(4):83-89.
4. Hamani C, Saint-Cyr JA, Fraser J, Kaplitt M, Lozano AM: The subthalamic nucleus in the context of movement disorders. Brain. 2004. 127(1):4-20.

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

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**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

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**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

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**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

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**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

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4. Wang J, Fraser JF: An Intracranial Petri Dish? Formation of abscess in prior large stroke after decompressive hemicraniectomy. World Neurosurg. 2015 Nov. 84(5):1495.e5-9.
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**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

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**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

1. Pride GL, **Fraser JF**, Gupta R, Alberts MJ, Rutledge JN, Fowler R, Ansari SA, Abruzzo T, Albani B, Arthur A, Baxter B, Bulsara KR, Chen M, Delgado Almondoz JE, Gandhi CD, Heck D, Hetts SW, Hussain MS, Klucznik R, Lee SY, Mack MJ, Leslie-Mazwi T, McTaggart RA, Meyers PM, Prestigiacomo C, Patsalides A, Rasmussen P, Starke RM, Sunenshine P, Frei D, and Jayaraman MV on behalf of the Standards and Guidelines committee of the Society of NeuroInterventional Surgery (SNIS). “Pre-Hospital care delivery and triage of stroke with emergent large vessel occlusion (ELVO): Report of the Standards and Guidelines Committee of the Society of NeuroInterventional Surgery.” Journal of NeuroInterventional Surgery. 2016, Oct 5 [Epub ahead of print].
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4. **Fraser JF**, Maniskas ME, Trout A, Lukins, D, Parker L, Stafford WL, Alhajeri A, Roberts J, and Bix GJ. MD, D Lukins, MD, L Parker, PA-C, WL Stafford, MD, Michael E. Maniskas, PhD, Amanda Trout, PhD, Abdulnasser Alhajeri, MD, Jill Roberts, PhD, Gregory J. Bix, MD, PhD “Superselective Intra-arterial Verapamil as an adjunct to thrombectomy is safe and feasible in humans, and shows direct neuroprotective effects in in vitro and in vivo models.” ACCEPTED to JCBFM

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Peer-Reviewed Original Research in Professional, Scientific or Educational Journals**

Peer-Reviewed Original Research in PREPARATION

1. McTaggart RA, Jagadeesan BD, Abruzzo T, Albani B, Albuquerque FC, Alexander MJ, Ansari SA, Baxter B, Bulsara KR, Chen M, Delgado-Almandoz JA, **Fraser JF**, Heck DV, Hetts SW, Hussain MS, Jayaraman MV, Kelly M, Lee SK, Leslie-Mawzi T Meyers PM, Prestigiacomo C, Pride GL, Patsalides A, Starke RM, Tarr RW, Frei D, and Rasmussen P Standards and Guidelines Committee of the Society of NeuroInterventional Surgery (SNIS). “Treatment of Intracranial Aneurysms with Flow Diversion: report of the Standards and Guidelines Committee of the Society of Neurointerventional Surgery” In Preparation to Journal of NeuroInterventional Surgery.
2. Kim, KS, **Fraser JF**, Grupke, S, Cook AM. “Management of antiplatelet therapy in patients undergoing neuroendovascular procedures.” In Preparation for submission to Pharmacotherapy.
3. McCann M and **Fraser JF**. “Evaluating the role of early tracheostomy and PEG in hemorrhagic stroke patients.” In Preparation for submission to Neurocritical Care.
4. Alimova K, Ighodaro E, Alhajeri A, and **Fraser JF**. “A Literature review of Usage of T, X, and Y stents for the treatment of complex unruptured intracerebral wide-neck aneurysms.” In Preparation for submission to Journal of Neurosurgery.
5. **Fraser JF**, Timoney N, Kleinman M, Fraser CE. “Balloon Test Occlusion of an Ophthalmic Artery Aneurysm with Subsequent Treatment and Retinal Preservation with Pipeline Embolization: Case Report.” In Preparation for submission to Journal of Stroke.
6. Kitzman P, Elkins K, Wolfe M, **Fraser JF**, Dobbs M. “The Kentucky Appalachian Stroke Registry (KApSR)”. In Preparation to JNIS.
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**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**Non-Peer-Reviewed Articles, Editorials, Reviews in Professional, Scientific or Educational Journals**

**Books, Book Chapters, Monographs**

1. Fraser JF, Luther N, Kaplitt MG. “Neurosurgical Targeting, Delivery, and Infusion of Gene Therapy Agents in the Brain,” in MG Kaplitt and MJ During (eds.): *Gene Therapy of the Central Nervous System: From Bench to Bedside*. New York, NY: Academic Press, 2006.
2. Fraser JF, Boockvar J, Hartl R. “Traumatic Injury of the Spine,” in JA Norton, PS Barie, RR Bollinger et al. (eds): *Surgery. Basic Science and Clinical Evidence*. New York, NY: Springer, 2008
3. Fraser JF, Schwartz TH, Kaplitt, MG. “BrainLab Image Guided System,” in M Lozano, PL Gildenberg, RR Tasker (eds): *Textbook of Stereotactic and Functional Neurosurgery.* Berlin, Germany: Springer-Verlag, 2009.
4. Fraser JF, Anand VK, Schwartz TH. “Endoscopic Transsphenoidal Approach,” in R Jandial, P McCormick, and P Black (eds.): *Core Techniques in Operative Neurosurgery*. Philadelphia, PA: Elsevier, 2011.
5. Raper DM, Komotar RJ, Fraser JF, Schwartz TH. “Skull Base Chordomas: Endonasal Endoscopic Transclival Approach,” in HA Hayat (ed.): *Tumors of the Central Nervous System, Volume 8*. Netherlands: Springer, 2012.
6. Grupke S, Fraser JF. “Cerebral Arteriovenous Malformations,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2014*. Philadelphia, PA: Mosby, 2013.
7. Grupke S, Fraser JF. “Cerebral Arteriovenous Malformations,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2015*. Philadelphia, PA: Mosby, 2014
8. Mirza FA, Fraser JF. “Traumatic Brain Injury,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2016*. Philadelphia, PA: Mosby, 2015.
9. Mirza FA, Fraser JF. “Subdural Hematoma,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2016*. Philadelphia, PA: Mosby, 2015.
10. Mirza FA, Fraser JF. “Subarachnoid Hemorrhage,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2016*. Philadelphia, PA: Mosby, 2015.

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Books, Book Chapters, Monographs - continued**

1. Fraser JF, Hussain MS, Gobin YP. “Endovascular Chemotherapy for Tumors of the Head, Neck, and Central Nervous System,” in CJ Prestigiacomo (ed): *Endovascular Surgical Neuroradiology. Theory and Clinical Practice*. New York, NY: Thieme, 2015.
2. Grupke S, Fraser JF. “AV Malformations, Cerebral,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2017*. Philadelphia, PA: Mosby, 2016
3. Mirza FA, Fraser JF. “Subarachnoid Hemorrhage,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2017*. Philadelphia, PA: Mosby, 2016.
4. Mirza FA, Fraser JF. “Subdural Hematoma,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2017*. Philadelphia, PA: Mosby, 2016.
5. Mirza FA, Fraser JF. “Traumatic Brain Injury,” in F F Ferri (ed): *Ferri’s Clinical Advisor 2017*. Philadelphia, PA: Mosby, 2016.

Book Chapters in PREPARATION

1. Grupke S, Bix GJ, **Fraser JF**. “Testing and mechanisms of neuroprotective agents for cerebral ischemic injury in clinical trials 2010-2016.” In Preparation as an invited textbook chapter in *Acute Brain Impairment: Scientific Discoveries and Translational Research*.

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**A. PUBLICATIONS** **- continued**

**Letters, Book Reviews, Lay Press**

1. Fraser JF and Härtl R: “Letters to the Editor: Cervical Fusion.” J Neurosurg: Spine. 2008. 6:495-6.
2. Fraser JF and Härtl R: “Even in Trauma, Time is Brain.” Crit Care Med. 2008. 36(10):2951-2.
3. Fraser JF: “Standardisation of research strategies in acute ischaemic stroke.” Lancet Neurology. 2016. 15(8): 784-5.
4. Fraser JF: “In Reply to ‘Brain Infarct and Abscess – A Very Common Disease and a Rare Association’.” World Neurosurg. 2016, Sep; 93:477.
5. Pennypacker KR, Bix G, Fraser JF: “Correcting the Trajectory of Stroke Therapeutic Research.” Translational Stroke Research. 2017 Feb; 8(1):65-66.
6. Grupke, S, Pennypack K, Bix GJ, Fraser JF: “Neuroprotection as an Adjunct to Mechanical Thrombectomy.” Endovascular Today. 2017 Feb; 16(2):53-7.

**B. ABSTRACT PRESENTATIONS**

**Local/State/Regional Meetings**

1. February, 2013: Grupke S, Alhajeri A, **Fraser JF**: A Single Center Experience with the Scepter C Balloon Occlusion Device. Initial Pilot Study. Southern Neurosurgical Society Annual Meeting. Sarasota, FL. Podium.
2. February, 2014: Maniskas M, Roberts JM, Bix GJ, **Fraser JF**: Superselective Intra-arterial Administration of Verapamil is Profoundly Neuroprotective in Experimental Ischemic Stroke. Southern Neurosurgical Society Annual Meeting. San Juan, Puerto Rico. Podium.
3. September, 2016: Edwards D, Kittani B, Grohs G, Macrae M, **Fraser J**, McCabe C, Bix G: Neuroprotective Effects of Inhibition of α5β1 Integrin Following Experimental Stroke: A Dual Centre Pre-Clinical Study. University of Kentucky College of Medicine Clinical-Translational Research Symposium. Podium (Presented by Danielle Edwards).
4. September, 2016: Wang C, Grupke S, Lee J, **Fraser J**: Factors Associated with Moyamoya Syndrome in the Kentucky Regional Population. Podium (Presented by Catherine Wang).

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**B. ABSTRACT PRESENTATIONS - *continued***

**Local/State/Regional Meetings *- continued***

1. September, 2016: Salmeron K, Maniskas M, Trout A, **Fraser J**, Bix G: Intra-arterial IL-1α is well tolerated and neuroprotective after experimental ischemic stroke. University of Kentucky College of Medicine Clinical-Translational Research Symposium. Poster.
2. September, 2016: McCann M, **Fraser J**: Early Tracheostomy and Percutaneous Endoscopic Gastrostomy in Hemorrhagic Stroke Patients: Associated Factors and Effects on Hospitalization. University of Kentucky College of Medicine Clinical-Translational Research Symposium. Poster.
3. September, 2016: Maniskas M, Roberts J, Bix G, **Fraser J**: Intra-arterial pharmacotherapy administration following experimental stroke improves neuronal survival and functional outcome. University of Kentucky College of Medicine Clinical-Translational Research Symposium. Poster.
4. September, 2016: Burch D, Bernert S, **Fraser J**: Physician and Physical Therapist Communication is Associated With Earlier Mobility and Decreased Length of Stay in the Neuroscience Population. University of Kentucky College of Medicine Clinical-Translational Research Symposium. Poster.

**National/International Meetings**

1. February, 1998: Nadkarni V, Fraser J, Tice L, Barone C, Corddry D: Pentoxifylline effect on functional, biochemical and histological ratings after experimental spinal cord impact. Society for Critical Care Medicine Annual Meeting. Podium (Presented by Dr. Vinay Nadkarni)
2. November, 2001: Fraser JF, Diwan A, Peterson M, O’Brien MF, Mintz D, Khan SN, Sandhu H: Preoperative MRI Screening for Surgical Decision Regarding Approach for Anterior Cervical Spine Fusion. Cervical Spine Research Society Annual Meeting. Monterey, CA. Poster.
3. June 2003: Kuo YH, Fraser JF, Kaplitt MG: Isolation and Characterization of the Heparan Binding Domain of AAV. American Society of Gene Therapy Annual Meeting. Washington, DC. Poster.

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**B. ABSTRACT PRESENTATIONS - continued**

**National/International Meetings**

1. April, 2003: Betchen S, Musatov S, Fraser J, Kaplitt M: PTEN Inhibits Adrenomedullin Expression in Brain Tumor Cells. American Association of Neurological Surgeons Annual Meeting. San Diego, CA. Poster.
2. February, 2003: Khan SN, Fraser JF, Doty SB, Muldonado P, O’Shea O, Nejjar-Diouri J, Cammisa Jr. FP, Sandhu HS, Lane JM, and Diwan AD: Inhibition of Nitric Oxide Synthase Arrests Chondrocyte Maturation and Promotes Collagen Type X Synthesis: A Zonal Analysis In Rat Tibial Epiphyseal Plates. Orthopedic Research Society Annual Meeting. New Orleans, LA. Poster.

1. June, 2003: Stieg PE, Mitra N, Fraser JF: Clip vs. Coil for Ruptured Intracranial Aneurysms: Do we need another trial? Neurosurgical Society of America Annual Meeting. Sunriver Resort, OR. Podium (Presented by Dr. Philip E. Stieg).
2. October, 2004: Musatov S, Pena J, Golia M, **Fraser J**, Kaplitt MG: Protection of dopaminergic cells from apoptosis using an adeno-associated viral (AAV) vector expressing XIAP. Society for Neuroscience Annual Meeting. San Diego, CA. Poster Presentation (Presented by Sergei Musatov, PhD).
3. March, 2005: **Fraser JF**, Mitra N, Budway M: Degenerative Spondylolisthesis: A meta-analysis of published data. AANS/CNS Joint Section for Spine and Peripheral Nerves Annual Meeting. Phoenix, AZ. Podium.
4. October, 2005: Kuo YH, **Fraser JF**, Kaplitt MG: Creating Vector for Astrocytic Gene Therapy. Congress of Neurological Surgeons Annual Meeting. Boston, MA. Poster.
5. October, 2006: **Fraser JF**, Hartl R: Anterior Approaches to Cervical Spine Fusion: A Meta-Analysis of Fusion Rates. Congress of Neurological Surgeons Annual Meeting. Chicago, IL. Poster.
6. October, 2006: **Fraser JF**, Kaplitt MG, Placantonakis D, Heier L, Kaminsky S, Arkin L, Sondhi D, Hackett N, Kosofsky B, Crystal R, Souweidane MM: Surgical Targeting and Focal Implantation of Gene Therapy for Global Neurologic Disease - Operative Technique and Nuances. Congress of Neurological Surgeons Annual Meeting.

Chicago, IL. Podium.

1. October, 2008: **Fraser JF**, Allen BA, Anand VK, Schwartz TH: Three-Dimensional Neurostereoendoscopy. Subjective and Objective Comparison to 2D. Congress of Neurological Surgeons Annual Meeting. Orlando, FL. Poster.

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**B. ABSTRACT PRESENTATIONS - continued**

**National/International Meetings**

1. October, 2008: **Fraser JF**, Wu R, Härtl R: Minimally-Invasive Versus Open Transforaminal Lumbar Interbody Fusion: A Meta-Analysis. Congress of Neurological Surgeons Annual Meeting. Orlando, FL. Poster.
2. October, 2008: **Fraser JF**, Dunne I, Parikh K, Härtl R: Iso-C/3D Neuronavigation versus Conventional Fluoroscopy for Minimally Invasive Pedicle Screw Placement in Lumbar Fusion. Prospective Comparison of Screw Placement. Congress of Neurological Surgeons Annual Meeting. Orlando, FL. Podium.
3. October, 2008: **Fraser JF**, Zink W, Smith MJ, Allen B, Stieg PE, Riina H, Kaplitt MG: Changes in MR-Perfusion and Vessel Wall Thickness in a Rodent Model of Cerebral Vasospasm after Subarachnoid Hemorrhage. Congress of Neurological Surgeons Annual Meeting. Orlando, FL. Podium.
4. October, 2009: **Fraser JF**, Nyquist GG, Moore N, Anand, VK, Schwartz TH: Endoscopic Endonasal Transclival Approach to the Skull Base: Clinical Experience and Outcome. North American Skull Base Society Annual Meeting. New Orleans, LA. Podium.
5. February, 2010: **Fraser JF**, Pannullo SC, Riina HA, Smith MJ, Allen B, Stieg PE: Stereotactic Radiosurgery for Intracranial Arteriovenous Malformations: A Meta-Analysis of Current Therapeutic Applications. International Stroke Conference Annual Meeting. San Antonio, TX. Podium.
6. November, 2010: **Fraser JF**, Pannullo SC, Moliterno J, Cobb W, Stieg PE: Stereotactic Radiosurgery of Meningiomas: A Meta-Analysis of Utilization, Outcomes, and Complications. Society for Neuro-Oncology Annual Meeting. Montreal, Canada. Podium.
7. October, 2012: Cook A, Swope R, Glover K, **Fraser JF**: Impact of Fioricet Administration on the Incidence of Vasospasm in Subarachnoid Hemorrhage. Neurocritical Care Society Annual Meeting. Denver, CO. Poster (Presentation by Aaron Cook, PharmD).
8. July, 2013: Grupke S, Alhajeri A, **Fraser JF**: A Single Center Experience with the Scepter C Balloon Occlusion Device. Initial Pilot Study. Society for NeuroInterventional Surgery Annual Meeting. Miami, FL. Podium. (Presented by Stephen Grupke, MD).

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**B. ABSTRACT PRESENTATIONS - continued**

**National/International Meetings**

1. February, 2014: Maniskas M, Roberts JM, Bix GJ, **Fraser JF**: Superselective Intra-arterial Administration of Verapamil is Profoundly Neuroprotective in Experimental Ischemic Stroke. International Stroke Conference Annual Meeting. San Diego, CA. Poster Presentation (Presented by Michael Maniskas).
2. April, 2014: Maniskas M, Roberts JM, Bix GJ, **Fraser JF**: Superselective Intra-arterial Administration of Verapamil is Profoundly Neuroprotective in Experimental Ischemic Stroke. International Symposium on Neuroprotection and Neurorepair. Magdeburg, Germany. Poster Presentation.
3. September, 2014: May C, Arora S, Parli S, **Fraser J**, Thompson Bastin M, Cook A: Levetiracetam Pharmacokinetics in Subarachnoid Hemorrhage Patients with Augmented Renal Clearance: A Monte Carlo Simulation. Neurocritical Care Society Annual Meeting. Seattle, WA. Poster Presentation (Presented by Aaron Cook, PharmD).
4. September, 2014: **Fraser JF**, Maniska M, Roberts JM, Bix GJ: Selective Intra-arterial Verapamil as an Adjunct to Thrombectomy: Highly Neuroprotective in Animals and Feasible in Humans. American Academy of Neurological Surgery Annual Meeting. Santa Rosa Beach, FL. Podium.
5. November, 2014: Maniskas M, Aron I, **Fraser JF**, Bix GJ: Selective Intra-arterial administration of neuroprotective agents directly to the site of ischemic injury after experimental stroke improved neuron survival and functional outcome. Society for Neuroscience Annual Meeting. Poster (Presented by Michael Maniskas).
6. February, 2015: **Fraser JF**, Lukins D, Parker L, Maniskas ME, Alhajeri A, Bix GJ: SAVER I: Superselective Administration of Verapamil during Recanalization in acute ischemic stroke. A Phase I Feasibility Study. Preliminary Results. International Stroke Conference Annual Meeting. Nashville, TN. Oral Poster Presentation.
7. February, 2015: Maniskas ME, Roberts JM, Bix GJ, **Fraser JF**: Selective intra-arterial administration of Verapamil is neuroprotective in acute ischemic stroke. International Stroke Conference Annual Meeting. Nashville, TN. Podium (Presented by Michael Maniskas).
8. April, 2015: Grupke S, **Fraser JF**: Treatment of Spontaneous Intraventricular Hemorrhage with Endoscope-Assisted Aspiration and Intraventricular tPA, A Case Study. European Stroke Organization Conference Annual Meeting. Glasgow, Scotland, UK. Poster.

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**B. ABSTRACT PRESENTATIONS - continued**

**National/International Meetings**

1. April, 2015: **Fraser JF**, Wang J: An Intracranial Petri Dish? Formation of abscess in a prior large stroke after decompressive hemicraniectomy. European Stroke Organization Conference Annual Meeting. Glasgow, Scotland, UK. Poster.
2. April, 2015: Maniskas ME, Bix GJ, **Fraser JF**: Selective Intra-arterial Verapamil after Reperfusion in Experimental Stroke is Neuroprotective and Improves Motor Function.

European Stroke Organization Conference Annual Meeting. Glasgow, Scotland, UK. Poster.

31. April, 2015: **Fraser JF**, Timoney N, Kleinman M, Fraser CE: Balloon Test Occlusion of an Ophthalmic Artery Aneurysm with Subsequent Treatment and Retinal Preservation with Pipeline Embolization. European Stroke Organization Conference Annual Meeting. Glasgow, Scotland, UK. Poster.

32. May, 2015: Bradley-Whitman MA, Pettigrew LC, Lynn BC, **Fraser JF**, Lovell MA: A Rapid Blood Test for in Field Early Detection of Stroke. American Association of Neurological Surgeons Annual Meeting. Podium (Presented by Melissa Bradley-Whitman, PhD).

33. February, 2016: Dillen WL and **Fraser JF**: Endoscopic Stereotactic Evacuation of Intracerebral Hemorrhages after Intracranial Aneurysm Rupture: Technical Report. AANS/CNS Cerebrovascular Section Annual Meeting. Los Angeles, CA. Poster.

34. February, 2016: Wang CY and **Fraser JF**: Factors Associated with Moyamoya Syndrome in the Kentucky Regional Population. AANS/CNS Cerebrovascular Section Annual Meeting. Los Angeles, CA. Poster.

35. February, 2016: Maniskas ME, Roberts J, Bix, GJ, **Fraser JF**: From Bench to Bedside, the Re-evaluation of Verapamil as a Therapeutic Option for Acute Ischemic Stroke. AANS/CNS Cerebrovascular Section 2016 Annual Meeting. Los Angeles, CA. Podium (Presented by Michael Maniskas).

36. February, 2016: Burch D, Bernert S, **Fraser JF**: Increased Physician and Physical Therapist Communication is Associated With Earlier Mobility and Decreased Length of Stay in the Cerebrovascular and Trauma Neuroscience Population. International Stroke Conference Annual Meeting. Los Angeles, CA. Poster.

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**B. ABSTRACT PRESENTATIONS - continued**

**National/International Meetings**

37. February, 2016: Salmeron K, Maniskas M, **Fraser JF**, Bix G:Perlecan LG3 is Neuroprotective When Administered Intra-Arterially After Experimental Ischemic Stroke. International Stroke Conference Annual Meeting. Los Angeles, CA. Podium (Presented by Katie Salmeron).

38. April, 2016: Salmeron K, Maniskas ME, **Fraser JF**, Bix GJ: Perlecan LG3 is neuroprotective when administered intra-arterially after experimental ischemic stroke. International Symposium on Neuroprotection and Neurorepair Leipzig, Germany. Poster (Presented by Katie Salmeron).

39. April, 2016: Maniskas ME, Roberts J, **Fraser JF**, Bix GJ: Re-evaluation of nitroglycerin as a therapy following acute ischemic stroke. International Symposium on Neuroprotection and Neurorepair. Leipzig, Germany. Podium (Presented by Michael Maniskas).

40. April, 2016:  **Fraser JF** and Bix GJ: Points of Entry: Decoding the Current Clinical Paradigm in Acute Stroke Intervention for Scientific Innovation. International Symposium on Neuroprotection and Neurorepair. Leipzig, Germany. Poster.

41. April, 2016:  **Fraser JF**, Maniskas ME, Roberts J, Bix GJ: There and Back Again: From Bed to Bench to Bed with Verapamil for Neuroprotection in Ischemic Stroke. International Symposium on Neuroprotection and Neurorepair. Leipzig, Germany. Podium.

42. June, 2016: Maniskas ME, Robers JE, Bix GJ, **Fraser JF**: Intra-arterial Pharmacotherapy Administration Following Emergent Large Vessel Occlusion After Experimental Stroke Improves Neuronal Survival and Functional Outcome. National Neurotrauma Symposium. Lexington, KY. Poster (Presented by Michael Maniskas).

43. June, 2016: Bernert S, Chisholm J, Vsevolozhskaya OA, **Fraser JF**: Cranioplasty Complications and Rehabilitation. Will a Cranioplasty Disrupt Rehabilitation Stays? National Neurotrauma Symposium. Lexington, KY. Poster (Presented by Silke Bernert).

44. July, 2016: McCann M and **Fraser JF**: Factors Associated with Early Tracheostomy and Percutaneous Gastrostomy and Their Effects on Hospitalization in Hemorrhagic Stroke Patients. Society for NeuroInterventional Surgery Annual Meeting. Boston, MA. Poster.

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**B. ABSTRACT PRESENTATIONS - continued**

**National/International Meetings - continued**

45. February, 2017: Edwards D, Reber Kittani B, Grohs G, Macrae M, **Fraser JF**, McCabe C, Bix GJ: Neuroprotective Effects of Inhibition of a5b1 Integrin Following Experimental Stroke: A Dual Center Pre-Clinical Study. International Stroke Conference Annual Meeting. Houston, TX. Platform (Presented by Danielle Edwards).

46. February, 2017: Hanel RA, Lopes D, Nelson P, Puri A, Jabbour P, Siddiqui A, Colby G, Mokin M, Schirmer C, Taussky P, Hellinger F, Krings T, Given C, Toth G, **Fraser J**, Priest R, Kan P, Aagaard-Kienitz B, Diaz O, Fiorella D, Malek A, Frei D, Sauvageau E, Kallmes D: Prospective, Multi-Center Study of Flow Diversion for Small and Medium-Sized Aneurysms: Results of the Premier Trial. International Stroke Conference Annual Meeting. Houston, TX. Platform (Presented by Ricardo Hanel).

47. February, 2017: Salmeron KE, Maniskas ME, Trout A, Pinteaux E, **Fraser JF**, Bix GJ: Intra-arterial IL-1a is Well Tolerated and Neuroprotective After Experimental Ischemic Stroke. International Stroke Conference Annual Meeting. Houston, TX. Poster (Presented by Katie Salmeron).

48. February, 2017: Rose DR, Grupke SL, **Fraser JF**, Kitzman PH, Elkins KL, Wolfe MA, Norris SN, Dobbs MR: Outlier Analysis of NIHSS Change in a Regional Database of Acute Ischemic Stroke. International Stroke Conference Annual Meeting. Houston, TX. Poster (Presented by Danny Rose Jr).

49. February, 2017: Hall J, Alhajeri A, Timoney N, **Fraser JF**: Anchoring Technique for the Use of ‘Solumbra’ Technique in Venous Thrombectomy for Severe Cerebral Venous Sinus Thrombosis. Southern Neurosurgical Society Annual Meeting. Orlando, FL. Poster (Presented by Jason Hall).

50. April, 2017: **Fraser JF**, Lukins D, Parker L, Stafford WL, Alhajeri A, Bix GJ: Superselective Administration of VErapamil during Recanalization in acute ischemic stroke (SAVER-I): Study Results. International Symposium on Cerebral Blood Flow, Metabolism, and Function. Berlin, Germany. Poster (Presented by Justin Fraser).

51. April, 2017: **Fraser JF**, Dobbs MR, Kitzman P, Cook A, Parker L, Lukins D, Bix GJ: Magnesium And Verapamil After Recanalization in Ischemia of the Cerebrum (MAVARIC) in the Kentucky regional population: a clinical and translational study. Study Design. International Symposium on Cerebral Blood Flow, Metabolism, and Function. Berlin, Germany. Poster (Presented by Justin Fraser).

52. April, 2017: **Fraser JF**, Bradley-Whitman M, Bernard A, Timoney N, Eckerle B, Lee J, Humphries R, Bix GJ, Lovell MA: Stroke and Traumatic Acute Brain Injury Line Indicator System for Emergent Recognition (STABILISER-I) Phase I Feasibility Study: Preliminary Results of the TBI Cohort. International Symposium on Cerebral Blood Flow, Metabolism, and Function. Berlin, Germany. Poster (Presented by Justin Fraser).

53. April, 2017: Trott S, Vsevolozhskaya O, Alhajeri A, **Fraser JF**: Evaluation of mechanical thrombectomy trends at University of Kentucky. International Symposium on Cerebral Blood Flow, Metabolism, and Function. Berlin, Germany. Poster (Presented by Justin Fraser).

54. April, 2017: Salmeron K, Maniskas M, Trout A, Pinteaux E, **Fraser JF**, Bix GJ: Intra-arterial IL-1α is well tolerated and neuroprotective after experimental ischemic stroke. International Symposium on Cerebral Blood Flow, Metabolism, and Function. Berlin, Germany. Poster (Presented by Gregory Bix).

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES**

**Active**

**Project Title:** Neurological Emergency Treatment Trials (NETT) network – University of Kentucky Site Hub

**Project Number:** NIH 4U10NS058967-10

**Principal Investigator(s):** Roger Humphries, MD (Site PI)

**Role in Project:** Co-Investigator, Neurosurgery Representative

**Effort:** 1 %

**Institution/University:** University of Kentucky Hospital

**Source of Funding:** National Institutes of Health (Extramural)

**Duration of Project:** 05/30/2007 – 05/31/2017

**Total Award:** Budget Awarded Annually – 2016 Budget: $262,506

**Grant Number:** NIH 4U10NS058967-10

**Project Title:** Framing Eighteen coils in cerebral Aneurysms Trial (FEAT) – University of Kentucky Site

**Project Number:** IRB # 13-0533-F6A, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT01655784

**Principal Investigator(s):** Justin F. Fraser, MD – Site PI (Overall PI – J Mocco)

**Role in Project:** Site Principal Investigator for Multicenter Randomized Clinical Trial comparing coil types for treatment of aneurysms.

**Effort:** 2 %

**Institution/University:** Site – University of Kentucky Hospital (Multicenter)

**Source of Funding:** Stryker Neurovascular (Extramural)

**Duration of Project:** 08/2012 – 12/2023

**Total Award:** $80,500

**Grant Number:** Account # 3048110794

**Project Title:** Post Market Surveillance Study of the Wingspan Stent System (WEAVE)

**Project Number:** IRB # 14-0246-F3R, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02034058

**Principal Investigator(s):** Site PI: Abdulnasser Alhajeri, MD (Project PIs: Michael Alexander, MD and Wengui Yu, MD)

**Role in Project:** Site Co-Investigator; Recruit/enroll subjects in study evaluating stent for intracranial stenosis treatment.

**Effort:** 1 %

**Institution/University:** Site – University of Kentucky Hospital

**Source of Funding:** Stryker Neurovascular (Extramural)

**Duration of Project:** 06/2014 – 07/2019

**Total Award:** $134,696.75

**Grant Number:** Account # 3048111576

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES**

**- continued**

**Active - continued**

**Project Title:** Prospective Study on Embolization of Intracranial Aneurysms with Pipeline Embolization Device (PREMIER)

**Project Number:** IRB # 15-0400-F6A, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02186561

**Principal Investigator(s):** Justin F. Fraser, MD (Site PI)

**Role in Project:** Site PI; Oversee administration of multi-center trial at University of Kentucky to evaluate treatment of aneurysms with Pipeline Embolization Device, and recruit/enroll subjects

**Effort:** 5 %

**Institution/University:** Site – University of Kentucky Hospital

**Source of Funding:** Medtronic Neurovascular (Extramural)

**Duration of Project:** 07/2014 – 11/2019

**Total Award:** $208,456.50

**Grant Number:** Account # 3048112681

**Project Title:** Trevo Retriever Registry Post Market Surveillance

**Project Number:** IRB # 14-0448-P2H, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02040259

**Principal Investigator(s):** Site PI – Abdulnasser Alhajeri, MD (Project PIs: Erol Veznedaroglu, MD and Ronald Budzik, MD)

**Role in Project:** Co-Investigator; Recruit and enroll subjects undergoing thrombectomy into registry.

**Effort:** 1 %

**Institution/University:** Site – University of Kentucky Hospital

**Source of Funding:** Stryker Neurovascular (Extramural)

**Duration of Project:** 08/2014 – 12/2017

**Total Award:** $103,136.95

**Grant Number:** Account # 3048111991

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES**

**- continued**

**Active - continued**

**Project Title:** Systematic Evaluation of Patients Treated With Stroke Devices for Acute Ischemic Stroke (STRATIS) Registry

**Project Number:** IRB # 15-0173-P3H, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02239640

**Principal Investigator(s):** Site PI – Abdulnasser Alhajeri, MD (Project PI: Nils Mueller-Kronast, MD)

**Role in Project:** Site PI; Oversee UK site administration and recruit/enroll subjects

**Effort:** 1 %

**Institution/University:** Site – University of Kentucky Hospital

**Source of Funding:** Medtronic Neurovascular

**Duration of Project:** 08/2014 – 12/2018

**Total Award:** $47,639.23

**Grant Number:** Account # 3048112552

**Project Title:** Stroke and Traumatic Acute Brain Injury Line Indicator System for Emergent Recognition (STABILISER) Phase I Feasibility Study

**Project Number:** IRB # 15-0166-F6A, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02514902 **Principal Investigator(s):** Justin F. Fraser, MD

**Role in Project:** Principal Investigator; Oversee and lead project team to evaluate a point-of-care device to detect stroke and traumatic brain injury in subjects admitted to the emergency department.

**Effort:** 4 %

**Institution/University:** University of Kentucky Hospital

**Source of Funding:** University of Kentucky Center for Clinical and Translational Science High Impact Pilot Award (Intramural)

**Duration of Project:** 07/2015 – 10/2018

**Total Award:** $49,668

**Grant Number:** NIH UL1TR000117; Cost Center # 1012142130

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES**

**- continued**

**Active - continued**

**Project Title:** Traumatic Brain Injury and Effects of Acute Cyclosporine A

**Project Number:** IRB # 14-0469-F6A, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02496975

**Principal Investigator(s):** Edward Hall, PhD

**Role in Project:** Co-Investigator; Coordinate clinical recruitment and enrollment of study subjects

**Effort:** 1 %

**Institution/University:** University of Kentucky Hospital

**Source of Funding:** Kentucky Spinal Cord and Head Injury Research Trust (KSCHIRT) (Extramural)

**Duration of Project:** 07/2015 – 12/2018

**Total Award:** $300,000

**Grant Number:** N/A

**Project Title:** Safety and Effectiveness of the Treatment of Wide Neck, Saccular Intracranial Aneurysms with the Neuroform Atlas Stent System, “ATLAS”

**Project Number:** IRB# 15-0720-F6A, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02340585

**Principal Investigator(s):** Site PI – Abdulnasser Alhajeri, MD (Project PIs: Osama Zaidat, MD and Brian Jankowitz, MD)

**Role in Project:** Site Co-Investigator; Recruit and enroll subjects undergoing treatment of intracranial aneurysms for treatment with ATLAS stent combined with coil embolization.

**Effort:** 1 %

**Institution/University:** Site – University of Kentucky Hospital

**Source of Funding:** Stryker Neurovascular

**Duration of Project:** 10/2015 – 8/2018

**Total Award:** $40,229.00

**Grant Number:** Account # 3048112865

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES**

**- continued**

**Active - continued**

**Project Title:** Study of EG-1962 Compared to Standard of Care Oral Nimodipine in Adults With Aneurysmal Subarachnoid Hemorrhage (NEWTON2)

**Project Number:** IRB# 16-0372-F6A, [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02790632

**Principal Investigator(s):** Site PI – Kevin Hatton, MD

**Role in Project:** Site Co-Investigator; Recruit/enroll subjects in multi-center randomized controlled trial to evaluate novel therapeutic for preventing vasospasm in aneurysmal subarachnoid hemorrhage.

**Effort:** 5 %

**Institution/University:** Site – University of Kentucky Hospital

**Source of Funding:** Edge Therapeutics, Inc. (Extramural)

**Duration of Project:** 07/2016 – 08/2018

**Total Award:** $175,000

**Grant Number:** Account # 003000016619

**Project Title:** Low-dose Intra-arterial Bevacizumab for Edema and Radiation necrosis Therapeutic Intervention (LIBERTI)

**Project Number:** IRB# 16-0253-F6A , [www.clinicaltrials.gov](http://www.clinicaltrials.gov)

**Principal Investigator(s):** Site PI – Justin F. Fraser, MD (Project PI – Shervin Dashti, MD, PhD)

**Role in Project:** Site PI; Oversee UK trial administration, and recruit/enroll subjects in Phase I trial evaluating intra-arterial pharmacotherapy for radiation necrosis in the brain.

**Effort:** 5 %

**Institution/University:** Site – University of Kentucky Hospital and Norton Healthcare

**Source of Funding:** Norton Health Care and UK Healthcare (Joint Intra/Extramural)

**Duration of Project:** 04/2016 – 04/2018

**Total Award:** $159,000

**Grant Number:** N/A

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES**

**- continued**

**Active - continued**

**Project Title:** TL1 Training Program For Predoctoral Students In Clinical And Translational Science

**Project Number:** N/A

**Principal Investigator(s):** PI – Danielle Edwards

**Role in Project:** Mentor; This is a training grant for one of my graduate students.

**Effort:** 2%

**Institution/University:** University of Kentucky

**Source of Funding:** UK Center for Clinical and Translational Science

**Duration of Project:** 10/2016-10/2018

**Total Award:** $24,376

**Grant Number:** N/A

**Project Title:** Acid-Base and Cation Changes in the Intra-Luminal Microenvironment During Acute Ischemic Stroke in the Human Condition

**Project Number:** N/A

**Principal Investigator(s):** PIs – Justin F. Fraser, MD and Keith Pennypacker, PhD

**Role in Project:** Co-PI; Lead the clinical team

**Effort:** 2%

**Institution/University:** University of Kentucky

**Source of Funding:** UK Department of Neurology Faculty Pilot Award Program

**Duration of Project:** 01/2017-12/2017

**Total Award:** $20,000

**Grant Number:** N/A

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES**

**- continued**

**Active - *continued***

**Project Title:** Acid-Base and Cation Changes in the Intra-Luminal Microenvironment During Acute Ischemic Stroke in the Human Condition.

**Project Number:** Pending

**Principal Investigator(s):** Justin F. Fraser, MD, Keith Pennypacker, PhD

**Role in Project:** Co-Principal Investigator; Oversee and recruit subjects for project involving measuring pH, acid-base and electrolyte differences in proximal and distal blood relative to an acute thrombus during mechanical thrombectomy for stroke.

**Effort:** 5%

**Institution/University:** University of Kentucky Medical Center

**Source of Funding:** University of Kentucky Department of Neurology

**Duration of Project:** 04/2017 –4/2018

**Total Award:** $20,000

**Grant Number:** Pending

**Project Title:** Magnesium And Verapamil After Recanalization in Ischemia of the Cerebrum (MAVARIC) in the Kentucky regional population: a clinical and translational study

**Project Number:** Pending

**Principal Investigator(s):** Justin F. Fraser, MD

**Role in Project:** Principal Investigator; Oversee and recruit subjects for single-institution Phase I/II safety/feasibility trial evaluating combined neuroprotection therapy as an adjunct to thrombectomy in stroke.

**Effort:** 8.3 %

**Institution/University:** University of Kentucky Medical Center

**Source of Funding:** Pending: University of Kentucky MVP Grant Program

**Duration of Project:** 04/2017 –10/2018

**Total Award:** $97,261

**Grant Number:** Pending

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES**

**- continued**

**Pending**

**Project Title:** INVEST: A Phase II, Randomized, Controlled Trial of Minimally Invasive Endoscopic Surgical Treatment with Apollo versus Medical Management for Supratentorial Intracerebral Hemorrhage (ICH)

**Project Number:** Pending IRB Submission

**Principal Investigator(s):** Site PI - Justin F. Fraser, MD

**Role in Project:** Site Principal Investigator; Oversee UK site administration, and recruit/enroll subjects in randomized controlled trial to evaluate minimally invasive treatment of intracerebral hemorrhage with Apollo Device.

**Effort:** 3 %

**Institution/University:** University of Kentucky Medical Center

**Source of Funding:** Penumbra, Inc.

**Duration of Project:** Pending

**Total Award:**  Pending

**Grant Number:** Pending

**Inactive**

**Project Title:** Neuroprotective effects of intra-arterial verapamil when administered in acute ischemic stroke

**Project Number:** Not applicable

**Principal Investigator(s):** Justin F. Fraser, MD

**Role in Project:** Principal Investigator; One-time grant to purchase equipment for completion of a laboratory project on neuroprotective therapy for stroke.

**Effort:** N/A

**Institution/University:** University of Kentucky College of Medicine

**Source of Funding:** University of Kentucky Center for Clinical and Translational Science Small Grants Program (Intramural)

**Duration of Project:** N/A

**Total Award:** $5000.00

**Grant Number:** Account # 1215379190

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**D. NON-SPONSORED RESEARCH PROJECTS**

**Inactive**

**Project Title:** SAVER-I: Super-Selective Intra-Arterial Administration of Verapamil for Neuroprotection after Intra-Arterial Thrombolysis for Acute Ischemic Stroke

**Project Number:** IRB # 12-0975-F1V; [www.clinicaltrials.gov](http://www.clinicaltrials.gov) NCT02235558

**Principal Investigator(s):** Justin F. Fraser, MD

**Role in Project:** Principal Investigator; Oversee trial design and administration, and recruit/enroll subjects in the first Phase I trial to evaluation safety/feasibility of combining thrombectomy with intra-arterial administration of pharmacotherapy for large vessel ischemic stroke.

**Effort:** 2 %

**Institution/University:** University of Kentucky Medical Center

**Source of Funding:** None

**Duration of Project:** 02/2013-02/2017

**Total Award:** Not funded

**Grant Number:** KMSF Clinical Account 1013196240

**E.** **OTHER CREATIVE ACTIVITIES**

***Grant Applications Submitted (Not Funded)***

03/2014 McKnight Neuroscience Memory and Cognitive Disorder Award – Application Title: “Safety and therapeutic efficacy of intra-arterial verapamil in acute ischemic stroke.”

05/2014 University of Kentucky CCTS Pilot Award – Application Title: “Safety and therapeutic efficacy of intra-arterial verapamil in acute ischemic stroke.”

05/2014American Heart Association Grant-in-Aid Award – Application Title: “Selective intra-arterial administration of verapamil as a core neuroprotectant after reperfusion in acute ischemic stroke.”

06/2014 Society for NeuroInterventional Surgery Seed Grant - Application Title: “Safety and therapeutic efficacy of intra-arterial verapamil in acute ischemic stroke.”

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *– continued***

**E.** **OTHER CREATIVE ACTIVITIES**

***Grant Applications Submitted (Not Funded) - continued***

03/2015 Esther A. & Joseph Klingenstein Fund Award – Application Title: “Neuroprotective Pharmacotherapy as An Adjunct Treatment to Thrombectomy in Emergent Large Vessel Occlusion Stroke”

08/2015 University of Kentucky CTSA KL2 Career Development Program Application – Application Title: “Perlecan fragment LG3 as a therapeutic neuroprotective adjunct in ischemic stroke”

10/2015 Doris Duke Charitable Foundation Clinical Scientist Development Award – Application Title: “Safety and therapeutic efficacy of intra-arterial verapamil in acute ischemic stroke.”

01/2016 Brain Research Foundation Seed Grant – Application Title: “Translating perlecan LG3 into a therapeutic adjunct for acute ischemic stroke.”

04/2016 K08 - Perlecan fragment LG3 as a therapeutic neuroprotective adjunct in ischemic stroke

**XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS *- continued***

**E.** **OTHER CREATIVE ACTIVITIES**

***Clinical Management Protocols***

**University of Kentucky College of Medicine, Department of Neurological Surgery and Kentucky Neuroscience Institute**

07/2011 – Present Post-Transsphenoidal Surgery Diabetes Insipidus Protocol

07/2011 – Present Endoscopic Transsphenoidal Periop Protocol

07/2011 – Present Subarachnoid Hemorrhage Protocol

07/2012 – Present Standard Cerebrovascular/Skull Base Service Follow Up Protocol

02/2012 – Present University of Kentucky NeuroCritical Care Service Protocol for Neurophysiologic Monitoring (EEG) for Patients in Pharmacologic Coma

03/2012 – Present University of Kentucky Service Plan for Multisystem Trauma Patients with Neurological Injuries

04/2014 – Present Neurosciences Mobility Protocol

06/2015 – Present Normal Pressure Hydrocephalus (NPH) Clinic Protocol

**University of Kentucky College of Medicine, Departments of Neurological Surgery, Neurology, and Anesthesiology – NeuroCritical Care Service**

07/2014 – Present Neurological Injury Scoring Systems

07/2014 – Present LICOX Management Protocol

07/2014 – Present Ventriculostomy Management Protocol

09/2014 – Present Sodium Replacement Protocol

10/2014 – Present Hyponatremia Treatment Protocol

03/2015 – Present CSF Sampling of EVD and Lumbar Drain

02/2016 – Present Elevated ICP Management Protocol

02/2016 – Present Subarachnoid Hemorrhage Hypertension Treatment Protocol

02/2016 – Present Subarachnoid Hemorrhage Therapeutic Hypertension Protocol

**University of Kentucky College of Medicine, Departments of Neurological Surgery and Neurology Comprehensive Stroke Center**

09/2013 – Present Cerebrovascular Service Acceptance Protocol

09/2013 – Present Policy for Transfer of Stroke and Nontraumatic Intracranial Hemorrhage

09/2013 – Present Protocol for the Evaluation and Treatment of Intracranial Aneurysms and Subarachnoid Hemorrhage

09/2013 – Present Subarachnoid Hemorrhage Protocol

09/2013 – Present Protocol for Evaluation and Decision-Making Regarding Acute Stroke

09/2013 – Present Protocol for Acute Endovascular Ischemic Stroke Intervention

09/2013 – Present Protocol for Evaluation and Treatment of Extracranial Carotid/Vertebral Artery Stenosis

09/2013 – Present Diagnostic Cerebral Angiography Protocol

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