

Curriculum Vitae

06/2025

Aaron S. Dumont, M.D., M.B.A., F.A.C.H.E., F.A.C.S., F.A.H.A., F.A.A.N.S.

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Education:

1995-97	University of British Columbia (Physiology, Honors) [Academic Average: 95%, GPA 4.3 (A+=4.3)]
1997-00	MD University of Calgary [Academic Average: 92%]
2003-05, 07-09	University of Virginia, Molecular Medicine Graduate Program [Academic Average: GPA 4.0]
2014	Lean Healthcare Certificate Program, Belmont University, Graduate School of Business, Nashville, TN
2014 – 2015	Graduate Certificate in Health Care Management, University of Texas Dallas/ University of Texas Southwestern Medical Center, Health Care Management Program
2014 – 2016	MBA, University of Texas Dallas/ University of Texas Southwestern Medical Center, Health Care Management Program [Academic Average: GPA 4.0, Scholar of High Distinction]
2024	Certificate: CS1301xI: Computing in Python I: Fundamentals and Procedural Programming, Georgia Institute of Technology Certificate: CS1301xII: Computing in Python II: Control Structures, Georgia Institute of Technology Procedural Programming, Georgia Institute of Technology Certificate: CS1301xIII: Computing in Python III: Data Structures, Georgia Institute of Technology Procedural Programming, Georgia Institute of Technology Certificate: CS1301xIV: Computing in Python IV: Objects & Algorithms, Georgia Institute of Technology

2025-

MS, Tulane University, Computer Science

Postgraduate Training and Fellowship Appointments:

2000-01 Intern in Surgery, University of Virginia Health System, Charlottesville, VA

2001-05 Resident in Neurological Surgery, University of Virginia Health System, Charlottesville, VA

2005-06 Chief Resident in Neurological Surgery, University of Virginia Health System, Charlottesville, VA

2004-05, 06-07 Fellow in Cerebrovascular, Endovascular & Skull Base Surgery, University of Virginia Health System, Charlottesville, VA

Leadership Training:

2008 Leadership in Academic Medicine Program, University of Virginia, Charlottesville, VA

2014 Leadership Development Program for Chiefs of Clinical Services, Harvard School of Public Health, Boston, MA

2017 The Innovative Health Care Leader: From Design Thinking to Personal Leadership, Stanford Graduate School of Business and School of Medicine, Stanford, CA

2020 Business of Healthcare Certificate Program, Wharton School of Business and Penn Medicine, University of Pennsylvania

2021 AAMC Leadership Development Seminar for Associate Deans and Department Chairs in Medicine and Science

2022 Putting Equity, Diversity, and Inclusion into Action, Tulane University, New Orleans, LA

2024 Building Clinical Systems that Produce Excellent Outcomes, American College of Healthcare Executives

2024 Healthcare Leadership that Makes a Difference: Creating Your Legacy, American College of Healthcare Executives

2024 Transformational Leadership in the C-Suite: Strategies for Success, American College of Healthcare Executives

2025 Beyond Recovery: Thriving as a Health System into the 2030s and Beyond, American College of Healthcare Executives

Faculty Appointments:

2006-07 Instructor in Neurological Surgery, Department of Neurological Surgery, University of Virginia Health System

2007-10 Assistant Professor of Neurological Surgery & Radiology, Departments of Neurological Surgery & Radiology, University of Virginia Health System

2010- Adjunct Faculty, Department of Neurosurgery, University of Iowa College of Medicine

2010-12 Associate Professor of Neurological Surgery, Department of Neurological Surgery, Thomas Jefferson University

2012- 2013 Professor of Neurological Surgery, Department of Neurological Surgery, Thomas Jefferson University

2013- Charles B. Wilson Professor & Chairman, Department of Neurological Surgery, Tulane University
2013- Clinical Professor, Department of Pediatrics, Tulane University

Hospital and Administrative Appointments:

2007-10 Neurosurgical Director, Comprehensive Stroke Center, University of Virginia Health System
2007-10 Director, Cerebrovascular & Skull Base Service, Department of Neurological Surgery, University of Virginia Health System
2007-10 Associate Director, Neurosurgery Residency Training Program, University of Virginia Health System
2010- 13 Director, Division of Neurovascular & Endovascular Surgery, Department of Neurological Surgery, Thomas Jefferson University
2012-13 Vice Chair, Department of Neurological Surgery, Thomas Jefferson University
2012-13 Associate Director, Neurosurgery Residency Training Program, Thomas Jefferson University
2013- Chairman, Department of Neurological Surgery, Tulane University
2013- Medical Executive Committee, Tulane University Health System
2013- Tulane University Medical Group Board
2013- OR Committee, Tulane University Health System
2013-18 Director, Telemedicine Program, Tulane University Health System
2014- Medical Director, Neurosurgery, East Jefferson General Hospital
2015- Tulane University Medical Group, Strategic Planning Committee
2015- Capital Budget Committee, East Jefferson General Hospital
2016- Director, Tulane Center for Clinical Neurosciences
2019-23 Hospital Governing Board, Tulane University Health System
2019- Associate Dean and Vice President for Health System Clinical Affairs, Tulane University School of Medicine
2020- Governing Board, Tulane Living Well, LLC (clinically integrated network of Tulane University)
2020- Affiliation Partnership Council (formerly Deans' Council), Southeast Louisiana Veterans Health Care System
2020- Clinical Operations Committee, Tulane University Medical Group
2020- Clinical Executive Committee, Tulane University School of Medicine
2023- University Health System, Hospital Governing Board
2023- Co-Chair, LCMC System Neuroscience Service Line

Specialty Certification:

American Board of Neurological Surgery, 2010
Neurocritical Care, Recognition of Focused Practice, American Board of Neurological Surgery, 2022
American College of Health Care Executives, 2025

Licensure:

Virginia, Iowa, Pennsylvania, New Jersey, Louisiana, Mississippi

Awards, Honors and Membership in Honorary Societies:

- Highest Academic Achievement Awards, Grades 1-12, 1983 - 1995
- Ranked in top 5% in the Avagadro Chemistry Contest, 1994
- Perfect Score on the Chemical Institute of Canada Contest, 1995
- Second Place for Canadian Western Region Chemistry Olympiad Contest, 1995
- Fifth Place, Canadian National Olympiad Team at McGill University, 1995
- Ranked in top 5% in the Waterloo Chem 13 News contest, 1995
- Ranked 7 out of 800 students taking the SFU Prize Chemistry Contest, 1995
- Ranked in top 10% in Euclid and 98.8th percentile in Fermat Math Contests, 1995
- Premier's Excellence Gold Medal Award, 1995, for the outstanding overall student - Presented personally by Premier Mike Harcourt
- Advanced Placement Scholar Award for top scores of 5 on all exams
- BC Principals' and Vice-Principals' Association Scholarship, 1996, for outstanding academic achievement and leadership
- Masonic Lodge Scholarship, 1995, for outstanding academic achievement, leadership and citizenship
- Hockey and lacrosse athletic scholarships, 1995
- Governor General Bronze Medal, 1995, for highest academic distinction
- Student of the Year Award, 1995, Yale Secondary
- Graduating Class Valedictorian, 1995
- Provincial Scholarship Award, 1995, for placing in the top twenty of 8300 students taking Provincial Scholarship exams
- First place distinction in Chemistry, 1995, for a perfect ministry score of 800 on the examination
- Kiwanis Club Honored Banquet Guest and Student of the Month, May 1995
- Research Assistantship offered by Universities of Toronto and Waterloo (awarded but declined), 1995
- Tadeusz Specht Memorial Scholarship in Applied Sciences from Simon Fraser University (awarded but declined), 1995
- J. Fred Muir Scholarship, 1996, for outstanding academic achievement in the Sciences
- Mann Kuan Scholarship, 1996, for academic achievement, leadership and dedication
- Dean's Honor List for A+ average, University of British Columbia (UBC), 1995 - 1997
- UBC Chancellor's Scholarship for academic achievement, leadership and citizenship, 1995 - 1997
- Science Scholar Designation, 1998, (awarded to the top twenty of 2350 students entering third and fourth year at UBC)
- Dr. Lydia Sikora Memorial Endowment Award, Second Place, 1998/99, for outstanding commitment to research excellence
- University of Calgary, Faculty of Medicine's 17th Annual Surgeons' Day Research Symposium, Medical Student Research Presentation Award, 1999
- Alberta Heritage Foundation for Medical Research Studentship Award, 1998 to 2000
- Medical Research Council of Canada – Burroughs Wellcome Fund Student Research

Award, 1999-2000

- Score (254) 99th percentile, National Board of Medical Examiners, United States Medical Licensing Exam Step I
- Score (268) 99th percentile, National Board of Medical Examiners, United States Medical Licensing Exam Step II
- Score (244) 99th percentile, National Board of Medical Examiners, United States Medical Licensing Exam Step III
- American Board of General Surgery In-Training Examination, 2000 – 94th Percentile
- American Heart Association Fellowship – Awarded 2001
- Listed in Marquis' "Who's Who in Health Care and Medicine" Publication, 2003-2004
- Listed in Marquis' "Who's Who in Science and Engineering Publication", 2003-2004
- 95th Percentile, 2003 American Board of Neurological Surgery Primary Written Examination (Taken as a PGY-3 on clinical service)
- Listed in the International Biographical Centre's "2000 Outstanding Scientists of the 21st Century", 2004
- Listed in Marquis' "Who's Who of Emerging Leaders" Publication, 2006-2007
- Perioperative Services Resident of the Year, University of Virginia, 2006-2007
- F.A.H.A., Fellow, American Heart Association and Stroke Council, 2006
- Listed in Consumer's Research Council of America's "Guide to America's Top Surgeons, 3rd Edition", 2006
- Listed in the International Biographical Centre's "Outstanding Scientists of the 21st Century. First Edition", 2007
- American Biographical Institute's 2008 Man of Science Award
- Charles A. Elsberg Fellowship Award in Neurological Surgery, 2008-2009
- Neurosurgery Research and Education Foundation Young Clinician Investigator Award, 2008-2009
- Listed in Marquis' "Who's Who in America" Publication, 2009-2010
- Listed in Consumer's Research Council of America's "Guide to America's Top Surgeons", 2011, 2013
- William A. Bucheit Teacher of the Year Award, 2010-2012 and 2013, Thomas Jefferson University
- Exceptional Dedication to Teaching Award, 2016, Tulane University
- Vitals Compassionate Doctor Award 2014-2016
- Vitals Patient's Choice Award 2011-2017
- New Orleans CityBusiness Healthcare Hero, 2019
- Exceptional Dedication to Teaching Award, 2019, Tulane University
- Listed in Best Doctors in America, 2011-2025
- Alpha Omega Alpha Medical Honor Society, 2024

Leadership Roles and Service in Foundations, Professional and Scientific Societies:

Brain Aneurysm Foundation – Medical Advisory Board – 2012 – Present

Society of Neurointerventional Surgery – Foundation Board – 2014 – 2021

Examiner, Oral Board Examination, American Board of Neurological Surgery 2019-Present

Louisiana Neurosurgical Society - Treasurer/President-Elect – 2019-2021
Louisiana Neurosurgical Society - President – 2021-2023

Memberships in Professional and Scientific Societies:

Canadian Medical Association – 1997-2000
Alberta Medical Association – 1997-2000
College of Physicians and Surgeons of Alberta – 1997-2000
Canadian Federation of Medical Students – 1997-2000
Calgary Medical Students' Association – 1997-2000
University of Virginia Medical Alumni Association – 2000-present
Congress of Neurological Surgeons (CNS) – 2000-present
American Association of Neurological Surgeons (AANS) – 2000-present
AANS/CNS Section on Tumors - 2001-present
AANS/CNS Section on Cerebrovascular Surgery - 2006-present
AANS/CNS Section on Neurotrauma and Critical Care – 2006-present
International Society for Cerebral Blood Flow and Metabolism – 2006-present
Society of Neurointerventional Surgery – 2006-present
American Heart Association Stroke Council – 2007-present
American Heart Association Council on Arteriosclerosis, Thrombosis, and Vascular Biology – 2007-present
American Heart Association Interdisciplinary Working Group on Functional Genomics and Translational Biology – 2007-present
International Atherosclerotic Society – 2007-present
North American Skull Base Society – 2007-present
Neurocritical Care Society – 2007-present
American Medical Association – 2007-present
Pennsylvania Medical Society – 2012-present
Philadelphia County Medical Society – 2012-present
American College of Healthcare Executives – 2015-present
Society of Neurological Surgeons – 2016-present
American Academy of Neurological Surgery – 2020-present
American Association of Clinical Anatomists – 2021-present

Editorial Positions:

Neurosurgical Focus, Orbital Tumors – Volume 10, Issue 5, May 2001 – Co-Editor with John A. Jane, Sr.
Stroke – Guest Editor – January 2004 issue
Stroke – Editorial Board – 2005-present
Recent Patents on Endocrine, Metabolic & Immune Drug Discovery – Editorial Board – 2007-present
The Open Tissue Engineering & Regenerative Medicine Journal – Editorial Board – 2007-present
The Open Neurosurgical Journal – Editorial Board – 2008-present
Case Report in Medicine – Editorial Board – 2008-present
International Journal of Vascular Medicine – Editorial Board – 2009-present
Neurosurgical Focus, Endovascular Approaches to Cerebral Ischemia – Volume 26, Issue

3, March 2009 – Co-Editor with Avery J. Evans
European Spine Journal – Assistant Editorial Board – 2010-Present
Clinical Neurosurgery – Associate Editor – 2011-Present
BioMed Research International – Editorial Board – 2013-present
OA Vascular Surgery – Editorial Board – 2013-present
Journal of Neurosurgery – Editorial Board – 2014-2019
The Scientific World Journal – Guest Editor, Special Issue on Developments in Neurovascular Diseases and Treatments, 2014
BioMed Research International – Guest Editor, Special Issue on Cerebral Vasospasm after Aneurysmal Subarachnoid Hemorrhage: Mechanism and Therapies, 2014
BioMed Research International – Guest Editor, Special Issue on Advances in Neurovascular Treatments, 2014
Stroke Research and Treatment – Guest Editor, Special Issue on Functional Genomics, Epigenetic Regulation, and Biomarkers in Stroke, 2014
Brain Circulation – Editorial Board – 2015-present
ARC Journal of Neuroscience – Editorial Board – 2015-present
Vessel Plus – Editor-In-Chief – 2016-2018
Clinical Anatomy – Editorial Board – 2019-Present
Journal of Clinical Medicine – Guest Editor, Special Issue on Novel Treatments for Cerebrovascular Disease, 2020
Journal of Clinical Medicine – Editorial Board – 2021-Present

Ad Hoc Reviewer for:

Acta Neurochirurgica (Wien)
American Heart Association Scientific Sessions Abstract Review Committee
American Journal of Hypertension
Annals of Clinical and Translational Neurology
Annals of Neurology
Autonomic Neuroscience – Basic and Clinical
BioMed Central Health Services Research
BioMed Central Medical Genomics
BioMed Central Neuroscience
Brain Research
British Journal of Pharmacology
Cardiovascular Research
Case Reports in Vascular Medicine
Cerebrovascular Diseases
Circulation
Circulation Research
Clinical Neurology and Neurosurgery
Clinical Neurosurgery
DNA and Cell Biology
European Spine Journal
Expert Review of Medical Devices
Focused Ultrasound Foundation
GME Focus

Hypertension
International Journal of Molecular Sciences
International Journal of Neuroscience
Journal of the American Heart Association
Journal of the American Medical Association
Journal of Cerebral Blood Flow and Metabolism
Journal of Clinical Medicine
Journal of the Louisiana State Medical Society
Journal of Neurology, Neurosurgery and Psychiatry
Journal of Neuroscience Methods
Journal of Neurosurgery
Journal of Neuroimmunology
Journal of Pediatric Neuroradiology
Journal of Pharmacological and Toxicological Methods
Mayo Clinic Proceedings
Neurobiology of Disease
Neurology
Neurology India
Neurosurgery
Neurosurgical Focus
Neurosurgery Research and Education Foundation
PLOS ONE
Recent Patents on Endocrine, Metabolic & Immune Drug Discovery
Scientific Reports
Spinal Cord
Stroke
Surgical Neurology
Therapeutic Advances in Neurological Disorders
The Scientific World Journal
Translational Stroke Research
Trends in Pharmacological Sciences
World Neurosurgery

Study Section/Grant Reviewer/Panel Member

2004-Present	<i>Ad Hoc</i> Reviewer for Canadian Institutes for Health Research
2012-Present	Grant Review Committee, Brain Aneurysm Foundation
2013-Present	Grant Review Committee, Society for Neurointerventional Surgery
2017	<i>Ad Hoc</i> reviewer for NIH ZNS1 SRB-A(12) Study Section
2018-2019	<i>Ad Hoc</i> reviewer for NIH ZTR1 RD-8 (01) Study Section
2018	<i>Ad Hoc</i> reviewer for American Heart Association(AHA)/Allen Initiative in Brain Health and Cognitive Impairment Award
2018-Present	FDA Neurological Devices Panel, Medical Device Advisory Committee
2020	AHA-Bugher Foundation Centers of Excellence in Hemorrhagic Stroke Awards

2021	<i>Ad Hoc</i> reviewer for NIH ETTN-C(10) Study Section
2022	<i>Ad Hoc</i> reviewer for NIH ZTR1 CI-5
2024	<i>Ad Hoc</i> reviewer for Swiss National Science Foundation

Academic Committees:

2009-10 Member, Physical Medicine & Rehabilitation Chair Search Committee, University of Virginia
 2010-present Member, Self-Assessment in Neurological Surgery (SANS) Education Committee, Congress of Neurological Surgeons
 2012-2013 Member, Committee on Research, Jefferson Medical College, Thomas Jefferson University
 2013-2014 Member, Department of Medicine Chair Search Committee, Tulane University
 2013-2014 Member, Vision 2020, Research Strategic Planning Committee, Tulane University
 2014 Member, Chair of Medicine Search Committee, Tulane University

Major Teaching and Clinical Responsibilities:

1. Anatomy Demonstrator, Neuroscience Course, University of Virginia School of Medicine: 2 days/year 2007-2010
2. Medical Student Neurosurgery Interest Group, Faculty lecturer, University of Virginia School of Medicine: 1 day per year 2007-2010
3. Neuroscience Undergraduate Major Students, Faculty lecturer, University of Virginia: 1 day per year 2009-2010
4. Neurovascular Conference Director, University of Virginia School of Medicine: 1 day per month 2006-2010
5. Neurosurgery Student, Resident, Fellow & Faculty Conference Assistant Director, University of Virginia School of Medicine, 2 days per week 2006-2010
6. Neurosurgery Resident Board Review, University of Virginia School of Medicine, 1 day per week 2006-2010
7. Neurosurgery Medical Student Elective Rotation, University of Virginia School of Medicine, throughout year 2006-2010
8. Co-Director Cerebrovascular & Skull Base Service (attending rounds, endovascular suite, operating room), University of Virginia Health System, throughout year 2006-2010
9. Neurovascular Clinic, University of Virginia Health System, 1 day per week 2006-2010
10. Director, Division of Neurovascular & Endovascular Surgery (attending rounds, endovascular suite, operating room), Thomas Jefferson University, throughout year 2010-2013
11. Residency Program Site Director, Jefferson Hospital for Neuroscience (attending rounds, endovascular suite, operating room), Thomas Jefferson University, throughout year 2010-2013
12. Neurovascular Clinic, Thomas Jefferson University, 1 day per week 2010 – present
13. Residency Program Conference Committee, Thomas Jefferson University, throughout year 2010-2013

14. Small Group Leader, Medical Neuroscience Course, Thomas Jefferson University, 1 day/year 2011-2013
15. Member of the JHN NICU work group, Thomas Jefferson University, 1 day/month 2010-2013
16. Member of the JHN Stroke work group, Thomas Jefferson University, 1 day/month 2010-2013
17. Member of the JHN/TJUH OR Committee work group, Thomas Jefferson University, 1 day/month 2010-2013
18. Member of the telemedicine work group, Thomas Jefferson University, 1 day/month 2010-2013
19. Chair, Department of Neurosurgery (attending rounds, endovascular suite, operating room), Tulane University, throughout year 2013-present
20. Neurosurgery Clinic (adult and pediatrics), Tulane University, 2 days per week 2013 – present
21. Residency Program Clinical Competency and Program Evaluation Committees, Tulane University, throughout year 2013-present
22. Member of the Tulane Health System Stroke work group, Tulane University, 1 day/month 2013-present
23. Member of the OR Committee work group, Tulane University, 1 day/month 2013-present
24. Member of the telemedicine work group, Tulane University, 1 day/month 2013-Present
25. Medical Student Neurosurgery Interest Group, Faculty lecturer, Tulane University: 1 day per year, 2013-Present
26. Lecturer, Biomedical Engineering Undergraduate Program, Faculty lecturer, Tulane University: 1 day per year, 2013-Present
27. Lecturer, Neuroscience Undergraduate Program, Faculty lecturer, Tulane University: 1 day per year, 2013-Present
28. Neurosurgery Resident Board Review, Tulane University, 1 day per week 2013-Present
29. Lecturer, Anatomy Course, Tulane University, 1 day/year 2017-Present
30. Research Personnel Supervisor & Mentor, throughout year

Research Personnel Supervised

Adina Ionescu, M.D. – Postdoctoral Fellow 11/07- 06/09

Scott Kidd – Undergraduate Student – 11/07 – 06/10

H. Kwang Yeoh, M.D. – Postdoctoral Fellow – 03/08 – 07/10

Cindy Loder, B.S. – Medical Student – 07/08 – 06/10

*** Winner of an American Association of Neurological Surgeons Medical Student Summer Research Award 2009**

R. Webster Crowley, M.D. – Neurosurgery Resident & Postdoctoral Fellow – 07/08 – 06/10

Lucia Schwyzer, M.D. – Postdoctoral Fellow – 10/08 – 06/10

Ching-Hsiao Cheng, M.D. – Postdoctoral Fellow – 06/09 – 06/10

Stephen J. Monteith, M.D. – Neurosurgery Resident & Postdoctoral Fellow – 07/09 – 06/10

Brian J. Titus, M.D. – Postdoctoral Research Fellow – 07/09 – 06/10

Robert M. Starke, M.D. – Neurosurgery Resident & Postdoctoral Fellow – 07/09 – 06/10, 2012 - Present

*** Winner of the Synthes Cerebrovascular Section Resident/Fellow Award at the 2011 American Association of Neurological Surgeons Annual Meeting**

*** Winner of the 2013 Gallbraith Cerebrovascular Research Award at the Congress of Neurological Surgeons Annual Meeting**

Chenyuang Wu, M.D. – Neurosurgery Resident – 07/10- 06/13

Muhammad Ali, M.D. – Postdoctoral Research Fellow – 07/10 – 06/13

Zaifang Yu, Ph.D. – Postdoctoral Research Associate – 07/11 – 10/11

Crissey Pascale, M.S. – Research Specialist – 07/13 – present

Lauren Pace, Ph.D. – Research Scientist – 08/13 – 02/16

Ilias Caralopoulos, M.D. – Postdoctoral Fellow – 07/14 – 06/16

David Sawyer, B.S. – Medical Student – 11/13 – 06/17

*** Winner of an American Association of Neurological Surgeons Medical Student Summer Research Award 2014 and a Tulane Debakey Scholars Fellowship Award from Tulane University**

Michael Strong, Ph.D. – Medical Student and postdoctoral fellow – 07/13-06/17

*** Winner of a 2015 American Association of Neurological Surgeons Young Neurosurgeons Committee MISSION Fellowship Award**

Rachel Israilevich – Neuroscience Honors Student – 09/16-04/18

Alejandra Martinez Lege – Research Scientist - 09/16-06/18

Mimi Chen – Neuroscience Honors Student – 08/15- 05/19

*** Winner of a Neuroscience Faculty Award, Tulane University**

Brannan O'Neill – Medical Student 12/16 to 06/18

*** Winner of a Tulane Debakey Scholars Fellowship Award from Tulane University**

Christopher Carr – Medical Student and Postdoctoral Fellow – 12/16 to 06/22

Tyler Scullen – Postdoctoral Fellow – 07/18 to 06/23

Natalie Suder – Medical Student – 03/20 to 06/23

*** Winner of a Tulane Debakey Scholars Fellowship Award from Tulane University**

Josh Hanna – Postdoctoral Fellow – 07/20 to 06/24

Blake Ouvier – PhD Student – 08/20 to 12/20

Mansour Mathkour – Postdoctoral Fellow – 09/20 to 06/24

Mitchell Couldwell – Medical Student – 11/20 to 06/24

*** Winner of a Tulane Debakey Scholars Fellowship Award from Tulane University**

Isabella McCormack – Medical Student – 12/20 to 06/24

*** Winner of the Young Neurosurgeon Abstract Award at the 2022 AANS Annual Meeting**

Uduak-Obong Ekanem – Medical Student – 07/22 to Present

Mitchell Kilgore – MD/PhD Student (PhD Dissertation Committee) – 07/23 to Present

Jehan Bista – Postdoctoral Fellow – 01/24 to 06/24

Alex Shiino – Medical Student – 06/24 to Present

Khashaiar Motazedian – Medical Student – 06/24 to Present
Emma Lesser – Medical Student – 06/24 to Present

31. Neurovascular Fellows Trained, throughout year

John Gaughen, M.D. – 07/08 – 06/10
Pervez Kahn, M.D. – 07/08 – 06/10
J. Frank Sanderson, M.D. – 07/08 – 06/10
Anil Nair, M.D. – 07/10 - 06/11
Hayan Dayoub, M.D. – 10/10 – 10/11
David Gordon, M.D. – 07/10 – 06/12
Ethan Benardete, M.D. – 01/11 – 11/11
Grahame Gould, M.D. – 07/11 – 06/12
Michael Koltz, M.D. – 07/12 – 06/13
Stephen Monteith, M.D. – 07/12 – 06/13
Asterios Tsimpas, M.D. – 07/12 – 06/13
Peter Amenta, M.D. – 07/14 – 06/15
Joshua Hanna – 07/23 – 06/24

Lectures by Invitation:

- July 6, 1999 “Cerebral revascularization” - Dr. Lydia Sikora Memorial Award Luncheon, Calgary, Alberta.
- January 7, 2000 “Contemporary management of extracranial carotid artery disease” - Family Medicine Grand Rounds, Foothills Hospital, Calgary, Alberta.
- October 14, 1999 “Endothelial dysfunction and pregnancy-induced hypertension: Lack of efficacy of low-dose aspirin in the prevention of pre-eclampsia” - Grand Rounds, Department of Obstetrics and Gynecology, Rockyview General Hospital, Calgary, Alberta.
- February 4, 2007 “Lumbar spinal stenosis. An interspinous spacer implant is not the preferred procedure” - ONE Spine: Controversies in Spine Surgery Meeting. Cancun, Mexico.
- February 4, 2007 “Degenerative spondylolisthesis with neurogenic claudication and no back pain: Fusion is not the standard of care” - ONE Spine: Controversies in Spine Surgery Meeting. Cancun, Mexico.
- August 1, 2007 “Medical Management of Cerebral Vasospasm” - Annual Meeting of the American Society of Interventional and Therapeutic Neuroradiology – Cerebral Vasospasm Symposium. Dana Point, CA.
- August 9-12, 2007 “Vascular Case Studies” - 2nd Annual Congress of Neurological Surgeons 3-D Surgical Anatomy Course for Senior Residents. St. Louis, MO.
- September 16, 2007 “Current Management of Cerebral Aneurysms” - Practical Clinic – Inpatient and Outpatient Management Dilemmas: For nurses and physician assistants. Annual Meeting of the Congress of Neurological Surgeons Meeting. San Diego, CA.
- February 21, 2008 “Management of Asymptomatic Carotid Artery Stenosis” –

- International Stroke Conference. New Orleans, LA.
- November 16, 2007 “Biology of Cerebral Aneurysms” University of Iowa – Visiting Professor. Iowa City, IA.
 - May 6, 2008 “Endovascular Management of Stroke” - National Institutes of Health, National Institute of Neurological Disorders and Stroke, Surgical Neurology Branch – Visiting Professor. Bethesda, MD.
 - May 26, 2008 “Management of Cerebral Aneurysms in the Endovascular Era” - University of Toronto – Visiting Professor. Toronto, ON, Canada.
 - June 6, 2008 “Clinical Trends in the Management of Vascular Malformations” – Sixth Annual Society of Neurointerventional Surgery Practicum Meeting. New Orleans, LA.
 - August 7-10, 2008 “Complex Vascular Case Presentations” - 3rd Annual Congress of Neurological Surgeons 3-D Surgical Anatomy Course for Senior Residents. St. Louis, MO.
 - August 30, 2008 “Angioplasty and Stenting for Carotid Artery and Intracranial Stenosis” - First Annual Neuro-Interventional Surgery for Stroke, Aneurysms and other Neuro-Vascular Conditions Meeting.
 - September 21, 2008 “Management of Cerebral Aneurysms – Clip versus Coil?” - Practical Clinic – Inpatient and Outpatient Management Dilemmas: For nurses and physician assistants. Annual Meeting of the Congress of Neurological Surgeons Meeting. Orlando, FL.
 - September 12, 2008 “Management of Complex Skull Base Aneurysms” – 5th International Congress of the World Federation of Skull Base Societies & the 19th Annual Meeting of the North American Skull Base Society. Vancouver, BC.
 - September 13, 2008 “Internal Carotid Artery Sacrifice for Skull Base Tumors and Aneurysms” – 5th International Congress of the World Federation of Skull Base Societies & the 19th Annual Meeting of the North American Skull Base Society. Vancouver, BC.
 - March 13, 2009 “Multi-modal Management of Vascular Malformations” – Presented at the 1st Annual Integrated Stroke and Cerebrovascular Conference. Medical University of South Carolina. Charleston, SC.
 - May 17, 2009 “Imaging of Patients with Subarachnoid Hemorrhage Using CTA” – Presented at the 7th Annual Society of Neurointerventional Surgery Practicum Meeting. Vancouver, BC.
 - May 17, 2009 “Clipping versus Coiling for Patients with Cerebral Aneurysms” - Presented at the 7th Annual Society of Neurointerventional Surgery Practicum Meeting. Vancouver, BC.
 - October 27, 2009 “Biology of Cerebral Vasospasm” – Presented at the Annual Congress of Neurological Surgeons Cerebral Vasospasm Luncheon Seminar. New Orleans, LA.
 - April 15, 2010 “Current Management of Cerebral Aneurysms” – University of Kentucky – Visiting Professor. Lexington, KY.
 - May 1, 2010 “Management of Vascular Malformations” – Presented at the International Cerebrovascular Symposium, 2010 American Association of Neurological Surgeons Annual Meeting. Philadelphia, PA.
 - May 4, 2010 “Multidisciplinary Management of Arteriovenous Malformations” –

Presented at the 2010 American Association of Neurological Surgeons Annual Meeting. Philadelphia, PA.

- June 3, 2010 "Current Management of AVMs" – Presented at the 2010 Midwest Endovascular Fellows Course. Iowa City, IA.
- July 14, 2010 "Complications in AVM management" – Presented at the 2010 Cerebrovascular Complications Conference. Jackson Hole, WY.
- September 11, 2010 "Introduction, Training Standards and Fellowships in Endovascular Surgery" – Presented at the 2010 AANS Endovascular Course for Residents. Memphis, TN.
- September 29, 2010 "Surgical Management of Acute Stroke" – Presented at Grand Rounds, Rehabilitation Medicine, Thomas Jefferson University. Philadelphia, PA.
- October 21, 2010 "Management of Cerebral Aneurysms in the 21st Century" – Inpatient and Outpatient Management Dilemmas: For nurses and physician assistants seminar. Annual Meeting of the Congress of Neurological Surgeons Meeting. San Francisco, CA.
- October 21, 2010 "Oral Board Case Presentations" – Oral Board Review Seminar. Annual Meeting of the Congress of Neurological Surgeons Meeting. San Francisco, CA.
- November 6, 2010 "Advances in Treatment – Now and in the Future: Medical & Surgical Neuro-interventions" – Presented at the Stroke Symposium 2010, Community Medical Center, Toms River, NJ
- November 8-9, 2010 "Oral Board Case Presentations" – Presented at the Goodman Oral Board Preparation: Neurosurgery Review by Case Management Course, Houston, TX
- March 18, 2011 "Management of Arteriovenous Malformations" – 10th Annual Cerebrovascular Update Conference Thomas Jefferson University/American Heart Association, Philadelphia, PA
- April 11, 2011 "Intracranial Venous Sinus Stenting for Benign Intracranial Hypertension: Clinical Indications, Technique, and Preliminary Results – Discussant" – 2011 American Association of Neurological Surgeons Annual Meeting. Denver, CO.
- April 11, 2011 "Multidisciplinary Management of Cerebral AVMs - 2011" – 2011 American Association of Neurological Surgeons Annual Meeting. Denver, CO.
- April 11, 2011 "Endovascular Management of Cerebral Vasospasm" – 2011 American Association of Neurological Surgeons Annual Meeting. Denver, CO.
- June 4, 2011 "Evolving Coil Selection and Techniques" – 2011 Society of Neurointerventional Surgery Practicum Meeting. Seattle, WA.
- October 1, 2011 "Toward a Better Understanding of Cerebral Aneurysm Biology: Role of TNF- α " – NINDS-CNS Research Career Development Symposium. Washington, DC
- October 2, 2011 "Cerebrovascular Disease: Surgical Management of Stroke" – Presented at the Congress of Neurological Surgeons Annual Meeting. Washington, DC.
- October 2, 2011 "Retreatment of Cerebral Aneurysms" - Presented at the Congress of Neurological Surgeons Annual Meeting. Washington, DC.
- February 17, 2012 "Cerebrovascular Disease: Neurosurgical Management of Stroke"

- Presented at Jennersville Regional Medical Center. West Grove, PA.
- March 2, 2012 “Current Management of Acute Ischemic Stroke” – Presented at Chestnut Hill Hospital Department of Medicine Grand Rounds. Philadelphia, PA.
- March 3, 2012 “Contemporary Management of Acute Stroke” – Presented at Underwood Memorial Hospital EMS Course. Woodbury, NJ.
- April 16, 2012 “Multidisciplinary Management of Cerebral AVMs - 2012” – 2012 American Association of Neurological Surgeons Annual Meeting. Miami, FL.
- April 16, 2012 “Endovascular Management of Cerebral Vasospasm” – 2012 American Association of Neurological Surgeons Annual Meeting. Miami, FL.
- June 7, 2012 “Cerebral Aneurysms. Present & Future Perspectives” Swedish Neurosciences Institute Grand Rounds. Seattle, WA.
- October 9, 2012 “Treatment Strategies for Large, Giant and Recurrent Aneurysms” – 2012 Congress of Neurological Surgeons Annual Meeting. Chicago, IL.
- October 9, 2012 “Management of Desperate Intraoperative Moments” - 2012 Congress of Neurological Surgeons Annual Meeting. Chicago, IL.
- October 19, 2012 “Access and Basics of Angiography” – 2012 American Association of Neurological Surgeons Endovascular Course for Senior Residents. Memphis, TN.
- March 8, 2013 “Acute Interventions for Stroke” – 12th Annual Cerebrovascular Update Conference. Philadelphia, PA
- April 30, 2013 “Endovascular management of cerebral vasospasm” - 2013 American Association of Neurological Surgeons Annual Meeting. New Orleans, LA
- May 3, 2013 “TNF-alpha and Cerebral Aneurysm Biology” – 2013 University of Iowa Cerebrovascular Research Update Symposium. Iowa City, Iowa.
- July 10, 2013 “The role of inflammation in cerebral aneurysm biology” – 12th International Conference on Neurovascular Events after Subarachnoid Hemorrhage (Vasospasm 2013). Lucerne, Switzerland.
- October 20, 2013 “Simulation-Based Neurosurgical Training”. 2013 Congress of Neurological Surgeons Annual Meeting. San Francisco, CA.
- October 21, 2013 “Techniques to advance safety and efficacy in microneurosurgery”. 2013 Congress of Neurological Surgeons Annual Meeting. San Francisco, CA.
- February 15, 2014 “Innovations in Endovascular Neurosurgery” – 24th Annual Meeting of the North American Skull Base Society. San Diego, CA.
- February 16, 2014 “Complication Management in Cerebral Aneurysm Treatment” – 24th Annual Meeting of the North American Skull Base Society. San Diego, CA.
- April 9, 2014 “Endovascular Management of Cerebral Vasospasm” – 2014 Annual Meeting of the American Association of Neurological Surgeons. San Francisco, CA.
- June 9, 2014 “Current and Future Management of Cerebral Aneurysms” – Albert Einstein College of Medicine/Montefiore Medical Center – Visiting Professor. Bronx, NY.
- July 23, 2014 “Cerebral Aneurysms: Contemporary Treatment and Future Considerations” – LSU Shreveport Department of Neurosurgery – Visiting Professor. Shreveport, LA.
- May 4, 2015 “Management of Cerebral Vasospasm”. Presented at the 2015 American Association of Neurological Surgeons Annual Meeting. Washington, DC.
- June 19, 2015 “Thomas Jefferson University Neurosurgery Resident Graduation” –

Invited Speaker. Philadelphia, PA

- September 27, 2015 “Simulation-Based Neurosurgical Training”. 2015 Congress of Neurological Surgeons Annual Meeting. New Orleans, LA.
- May 3, 2016 “Management of Vasospasm”. Presented at the 2016 American Association of Neurological Surgeons Annual Meeting. Chicago, IL.
- November 13, 2016 “How to be Published”. Presented at the 2016 Dandy Society Meeting. Santa Monica, CA.
- December 3, 2016 “Plagiocephaly and Misshapen Heads”. Presented at the Tulane Pediatric Saturday Series Seminar. New Orleans, LA.
- March 3, 2017. “Endovascular Strategies for Vascular Injuries”. Presented at the 27th Annual North America Skull Base Society Meeting, New Orleans, LA.
- March 5, 2017. “Preoperative Tumor Embolization”. Presented at the 27th Annual North America Skull Base Society Meeting, New Orleans, LA.
- April 30, 2018 “Medical Therapy for Cerebral Vasospasm Following Subarachnoid Hemorrhage”. Presented at the 2018 American Association of Neurological Surgeons Annual Meeting. New Orleans, LA.
- May 20, 2018. “Departmental Based Health Care Delivery: Implications for Neurosurgical Education”. Presented at the 2018 Society of Neurological Surgeons Annual Meeting. Hershey, PA.
- April 18, 2019. “Role of Inflammation and Oxidative Stress in Cerebral Aneurysm Pathogenesis”. Presented at the 16th Annual Interdisciplinary Cerebrovascular Research Symposium. Iowa City, IA.
- May 16, 2019. *Likosky Endowed Lectureship* “Current and Future Management of Intracerebral Hemorrhage”. Presented at the 13th Annual Cerebrovascular Symposium. Swedish Neuroscience Institute. Seattle, WA.
- October 23, 2019. “Screening, Natural History and Medical Management of Intracranial Aneurysms”. Presented at the 2019 Congress of Neurological Surgeons Annual Meeting. San Francisco, CA.
- October 25, 2019. “Far Lateral Craniotomy for PICA and Vertebro Basilar Junction Aneurysms”. Presented at the 5th Annual Aneurysms Inside and Out: Cerebrovascular and Endovascular Residents and Fellows Course. Seattle Science Foundation. Seattle, WA.
- October 25, 2019. “Decision Making in Aneurysm Treatment”. Presented at the 5th Annual Aneurysms Inside and Out: Cerebrovascular and Endovascular Residents and Fellows Course. Seattle Science Foundation. Seattle, WA.
- March 6, 2020. “Evolution in the Treatment of Cerebrovascular Disease”. Visiting Professor. Thomas Jefferson University. Philadelphia, PA.
- November 18, 2020. “Change before you have to. Transformation in the Treatment of Cerebrovascular Disease”. Virtual Visiting Professor. University of Virginia. Charlottesville, VA.
- May 14, 2021. “Updates on Management of Intracerebral Hemorrhage”. 14th Annual Cerebrovascular Symposium. Swedish Neuroscience Institute. Seattle, Washington.
- May 13, 2022. “Current Management of Intracerebral Hemorrhage”. 15th Annual Cerebrovascular Symposium. Swedish Neuroscience Institute. Seattle, Washington.
- June 11, 2022. “It’s great to be young and a neurosurgical resident. Life lessons

learned in Charlottesville.” Twelfth James D. Kitchin, III Lecture. University of Virginia School of Medicine. Charlottesville, VA.

- October 8, 2022. “Open Microsurgical versus Endovascular Treatment of Pediatric Intracranial Aneurysms”. Congress of Neurological Surgeons Annual Meeting. San Francisco, CA.
- September 11, 2023. “Multimodal management of pediatric cerebrovascular disease”. Congress of Neurological Surgeons Annual Meeting. Washington, DC.
- October 1, 2023. “Management of Trigeminal Neuralgia”. Southern Pain Society’s 37th Annual Meeting. New Orleans, LA.
- February 3, 2024. “It’s great to be young and a neurosurgical resident. Life lessons learned in Charlottesville.” Second Annual John A. Jane, MD Visiting Surgeon Lectureship. Seattle Science Foundation. Seattle, WA.
- February 14, 2025. “Biology of Intracranial Aneurysms: Clinical and Translational Perspectives”. Presented at the Department of Cellular and Molecular Biology Seminar Series. Tulane University. New Orleans, LA.

Organizing Roles in Scientific Meetings:

- *Society of Neurointerventional Surgery Sixth Annual Practicum Meeting* – Program Committee. New Orleans, LA. June 6-7, 2008.
- *First Annual Neuro-Interventional Surgery for Stroke, Aneurysms and other Neuro-Vascular Conditions Meeting*. Course Director. Charlottesville, VA. August 30, 2008.
- for the 2009 Annual Meeting
- *Congress of Neurological Surgeons* – Scientific Program Committee for the 2009 Annual Meeting
- *Neurocritical Care Society* – Abstract Grading Committee for the 2009 Annual Meeting
- *American Association of Neurological Surgeons* – Abstract Grading Committee for the 2010 Annual Meeting
- *10th Annual Cerebrovascular Update*. Planning Committee. Philadelphia, PA March 17-18, 2011.
- *Congress of Neurological Surgeons* – Scientific Program Committee for the 2012 Annual Meeting
- *Congress of Neurological Surgeons* – Scientific Program Committee for the 2013 Annual Meeting
- 12th International Conference on Neurovascular Events after Subarachnoid Hemorrhage (Vasospasm 2013) – International Scientific Committee.
- 13th International Conference on Neurovascular Events after Subarachnoid Hemorrhage (Vasospasm 2015) – International Scientific Committee.
- *American Heart Association* – Abstract Grading Committee for the 2016 Annual Meeting
- *Walter E. Dandy Neurosurgical Society* – Annual Scientific Program Committee Chair.
- International Conference on Neurovascular Events after Subarachnoid Hemorrhage

(Vasospasm 2017) – International Scientific Committee.

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Publications, peer reviewed:

- 1.) **Dumont AS** and Waltham C. Walking. *The Physics Teacher*. 35: 372-376, 1997.
- 2.) Verma S, Mather K, **Dumont AS**, Anderson TJ. Pharmacological modulation of insulin resistance and hyperinsulinemia in polycystic ovary syndrome: the emerging role. *The Endocrinologist*. 8: 418-424, 1998.
- 3.) **Dumont AS**, Verma S, Hurlbert RJ. Epidural analgesia for postoperative pain control following spinal surgery: paucity of evidence and need for studies. *J Pharmacol Toxicol Methods*. 40: 181-182, 1998.
- 4.) Verma S, Maitland A, **Dumont AS**, Anderson TJ. Endothelial function of coronary artery bypass grafts: Role of endothelin and tetrahydrobiopterin. *Ann Thorac Surg*. 69:1986-1987, 2000.
- 5.) Verma S, Lovren F, **Dumont AS**, Mather KJ, Maitland A, Kieser TM, Trigg CR, Anderson TJ. Tetrahydrobiopterin improves endothelial function in human saphenous veins: A novel mechanism. *J Thorac Cardiovasc Surg*. 120:668-671, 2000.
- 6.) **Dumont AS**, Verma S, Dumont RJ, Hurlbert RJ. Non-steroidal anti-inflammatory drugs and bone metabolism in spinal fusion surgery: a pharmacological quandary. *J Pharmacol Toxicol Methods*. 43:31-39, 2000.
- 7.) Verma S, Yao L, **Dumont AS**, McNeill JH. Metformin treatment corrects vascular insulin resistance in hypertension. *J Hypertens* 18:1445-1450, 2000.
- 8.) **Dumont AS**, McNeill JH, Verma S. Insulin and vascular function in hypertension. *Current Topics in Biochemical Research* 3:131-137, 2000.
- 9.) **Dumont AS**, Clark AW, Sevic RJ, Myles ST. Idiopathic hypertrophic pachymeningitis: A report of two cases and review of the literature. *Can J Neurol Sci*. 27:333-340, 2000.
- 10.) Verma S, Lovren F, **Dumont AS**, Mather K, Maitland A, Kieser TM, Kidd W, McNeill JH, Trigg CR, Anderson TJ. Endothelin receptor blockade improves endothelial function in human internal mammary arteries. *Cardiovasc Res* 49:146-151, 2001.
- 11.) **Dumont AS**, Lovren F, McNeill JH, Sutherland GR, Trigg CR, Anderson TJ, Verma S. Endothelin antagonism augments endothelial function in human saphenous vein conduits. *J Neurosurg* 94:281-286, 2001.
- 12.) Arikawa E, Verma S, **Dumont AS**, McNeill JH. Chronic bosentan treatment improves renal artery vascular function in diabetes. *J Hypertens* 19:803-812, 2001.
- 13.) Verma S, Yao L, Stewart DJ, **Dumont AS**, Anderson TJ, McNeill JH. Endothelin antagonism uncovers insulin-mediated vasorelaxation in vitro and in vivo. *Hypertension* 3:328-333, 2001.
- 14.) Lanzino G, **Dumont AS**, Lopes MBS, Laws ER, Jr. Skull base chordomas: overview of disease, managements options, and outcome. *Neurosurg Focus* 10(Article 12): 1-9, 2001.
- 15.) Verma S, Leung Y, Battell M, **Dumont AS**, McNeill JH. Hyperinsulinemia superimposed on insulin resistance does not elevate blood pressure. *Am J*

Hypertens 14:429-432, 2001.

- 16.) Boulos PT, **Dumont AS**, Mandell JW, Jane JA, Sr. Meningiomas of the orbit: contemporary considerations. *Neurosurg Focus* 10(Article 5):1-10, 2001.
- 17.) **Dumont AS**, Boulos PT, Jane JA, Jr, Ellegala DB, Newman SA, Jane JA, Sr. Craniorbital fibrous dysplasia: with emphasis on visual impairment and current surgical management. *Neurosurg Focus* 10(Article 6):1-8, 2001.
- 18.) **Dumont AS**, Hyndman ME, Dumont RJ, Fedak PM, Sutherland GR, Kassell NF, Verma S. Pravastatin improves endothelial function in insulin resistant carotid arteries. *J Neurosurg* 95:466-471, 2001.
- 19.) Dumont RJ, Okonkwo DO, Verma S, Hurlbert RJ, Boulos PT, **Dumont AS**. Acute spinal cord injury. Part I: Pathophysiologic Mechanisms. *Clin Neuropharmacol* 24:254-264, 2001.
- 20.) Dumont RJ, Verma S, Okonkwo DO, Hurlbert RJ, Boulos PT, **Dumont AS**. Acute spinal cord injury. Part II: Contemporary pharmacotherapy. *Clin Neuropharmacol* 24:265-279, 2001.
- 21.) Verma S, **Dumont AS**, Maitland A. Tetrahydrobiopterin attenuates cholesterol induced coronary hyperreactivity to endothelin. *Heart* 86:706-708, 2001.
- 22.) Couture DE, Ellegala DB, **Dumont AS**, Mintz PD, Kassell NF. Blood use in cerebrovascular neurosurgery. *Stroke* 33:994-997, 2002.
- 23.) Ko L, Maitland A, Fedak PW, **Dumont AS**, Badiwala M, Lovren F, Triggie CR, Anderson TJ, Rao V, Verma S. Endothelin blockade potentiates endothelial protective effects of ACE inhibitors in saphenous veins. *Ann Thorac Surg* 1185-1188, 2002.
- 24.) Oskouian RJ, Jane JA, Sr., **Dumont AS**, Sheehan JM, Laurent JJ, Levine PA. Esthesioneuroblastoma: Clinical presentation, radiological and pathological features, treatment, review of the literature and the University of Virginia experience. *Neurosurg Focus* 12 (Article 4): 1-9, 2002.
- 25.) Verma S, Wang CH, Li SH, **Dumont AS**, Fedak PW, Badiwala MV, Dhillon B, Weisel RD, Li RK, Mickle DA, Stewart DJ. A self-fulfilling prophecy: C-reactive protein attenuates nitric oxide production and inhibits angiogenesis. *Circulation* 106:913-919, 2002.
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- 27.) **Dumont AS**, Oskouian RJ, Chow MM, Kassell NF. Surgical management of unruptured basilar artery bifurcation aneurysms. *Neurosurg Focus* 13 (Article 3):1-4, 2002.
- 28.) Verma S, Arikawa E, Lee S, **Dumont AS**, Yao L, McNeill JH. Exaggerated coronary reactivity to endothelin-1 in diabetes: Reversal with bosentan. *Can J Physiol Pharmacol* 80:980-986, 2002.
- 29.) Dumont RJ, Dayoub H, Li JZ, **Dumont AS**, Kallmes DF, Hankins GR, Helm GA. Ex vivo bone morphogenetic protein-9 gene therapy using human mesenchymal stem cells induces spinal fusion in rodents. *Neurosurgery* 51:1239-1244, 2002.
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pathophysiological mechanisms involved in acute spinal cord injury improve the potential for therapeutic intervention? *Curr Opin Neurol* 15:713-720, 2002.

- 32.) Lin CL, Calisaneller T, Ukita N, **Dumont AS**, Kassell NF, Lee KS. A murine model of subarachnoid-induced cerebral vasospasm. *J Neurosci Methods* 123:89-97, 2003.
- 33.) **Dumont AS**, Dumont RJ, McNeill JH, Kassell NF, Sutherland GR, Verma S. Chronic endothelin antagonism restores cerebrovascular function in diabetes. *Neurosurgery* 52:653-660, 2003
- 34.) Wang CH, Li SH, Weisel RD, Fedak PW, **Dumont AS**, Szmitko P, Li RK, Mickle DA, Verma S. C-reactive protein upregulates angiotensin type 1 receptors in vascular smooth muscle. *Circulation* 107:1783-1790, 2003.
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- 36.) Asthagiri AR, **Dumont AS**, Sheehan JM. Acute and long-term management of sports-related closed head injuries. *Clin Sports Med* 22:559-576, 2003.
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- 39.) **Dumont AS**, Farace E, Schiff D, Shaffrey ME. Intraventricular gliomas. *Neurosurg Clin N Am* 14:571-591, 2003.
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- 43.) Jane JA, Sr, Sherman JA, Boulos PT, Luce C, **Dumont AS**. Lumbar stenosis : A personal record. *J Neurosurg (Spine)* 1:31-38, 2004.
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- 2.) **Dumont AS**, Olsen G, Verma S, Kaufmann AM. Diagnostic errors and trigeminal neuralgia. Presented at the University of Calgary Faculty of Medicine's Annual Research Day, Calgary, Alberta. March 15, 1999.
- 3.) **Dumont AS**, Sutherland GR. A chronicle of charles drake's legacy to neurosurgery. Presented at the 8th Annual History of Medicine Days, Calgary, Alberta. March 25-26, 1999.
- 4.) Verma S, Lovren F, **Dumont AS**, Maitland A, Trigg C, Anderson TJ. Bosentan and tetrahydrobiopterin enhance endothelial function in saphenous veins and internal mammary arteries from patients undergoing coronary artery bypass graft surgery. Presented at the University of Calgary Faculty of Medicine's 17th Annual Surgeons' Day Research Symposium, Calgary, Alberta. May 7, 1999.
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- 6.) **Dumont AS**, Sutherland GR. Charles George Drake and the creation of his neurosurgical legacy. Invited speaker at the Alberta Medical Foundation Margaret Hutton Lecture Series at the 92nd Annual Alberta Medical Association General Meeting, Edmonton, Alberta. September 18, 1999.
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- 41.) Dumont RJ, Laws ER Jr, Jane JA Sr, **Dumont AS**. The evolution of modern epilepsy surgery. Presented at the 52nd Annual Meeting of the Congress of Neurological Surgeons. Philadelphia, PA. September 22-26, 2002.
- 42.) Oskouian RJ, Jr, **Dumont AS**, Jane JA, Jr, Patel N, Johnson JP. Thoracic herniated discs in the modern era: Surgical and neurological outcome. Presented at the 52nd Annual Meeting of the Congress of Neurological Surgeons. Philadelphia, PA. September 22-26, 2002.
- 43.) Lin C, Calisaneller T, Ukita N, **Dumont AS**, Kassell NF, Lee KS. A novel murine model of cerebral vasospasm following subarachnoid hemorrhage. Presented at the 52nd Annual Meeting of the Congress of Neurological Surgeons. Philadelphia, PA. September 22-26, 2002.
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- 45.) **Dumont AS**. Basilar bifurcation aneurysms. Presented at Clinical Neurosciences Grand Rounds. University of Virginia. March, 2002.
- 46.) **Dumont AS**. Giant intracranial aneurysms. Presented at Clinical Neurosciences Grand Rounds. University of Virginia. November, 2002.
- 47.) Calisaneller T, Lin C, **Dumont AS**, Anzivino M, Kassell NF, Lee KS. Inflammation and cerebral vasospasm: Gene expression analysis and effects of immune deficiencies in genetically manipulated animals. Presented at the Annual Society of the Virginias Meeting. Hot Springs, VA. January, 2003.
- 48.) Oskouian RJ, **Dumont AS**, Boulos PT, Sasaki T, Asthagiri AR, Jane JA Jr, Kanter AS, Hanks J, Steiner L, Laws ER Jr. Experience and management of Cushing's disease refractory to transphenoidal surgery. Presented at the Annual Meeting of the American Association of Neurological Surgeons. San Diego, CA. April 26 – May 1, 2003.
- 49.) Calisaneller T, Lin C, **Dumont AS**, Anzivino M, Kassell NF, Lee KS. Inflammation and cerebral vasospasm: New perspectives. Presented at the 8th Annual International Conference on Cerebral Vasospasm. Chicago, IL. July 9-12, 2003.
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- 53.) **Dumont AS**, Jane JA, Jr, Newman SA, Jane JA, Sr. Surgical management of fibrous dysplasia: Visual Function and Cosmesis. Presented at the Annual Meeting of the Southern Neurosurgical Society. Amelia Island, FL. March 24-28, 2004.
- 54.) Manabe H, **Dumont AS**, Okonkwo DO, Gainer J, Jane JA, Sr., Lee KS. Trans-sodium crocetin is neuroprotective in cerebral ischemia. Presented at the Annual Meeting of the Southern Neurosurgical Society. Amelia Island, FL. March 24-28, 2004.
- 55.) **Dumont AS**, Jane JA, Jr, Pouratian N, Jane JA, Sr. Benign pediatric non-nerve sheath tumors of Meckel's cave. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Orlando, FL. May 1-6, 2004.
- 56.) Jane JA, Jr, **Dumont AS**, Vance ML, Laws ER, Jr. The transphenoidal transtuberculum sellae approach for suprasellar meningiomas. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Orlando, FL. May 1-6, 2004.
- 57.) **Dumont AS**, Kassell NF, Laws ER, Jr. Cerebral vasospasm following subarachnoid hemorrhage: Historical perspectives. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Orlando, FL. May 1-6, 2004.
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- 59.) **Dumont AS**, Jane JA, Jr, Jagannathan J, Laws ER, Jr. Evolving experience with the extended transsphenoidal approach. Presented at the 54th Annual Meeting of the Congress of Neurological Surgeons. San Francisco, CA. October 16-21, 2004.
- 60.) Jagannathan J, Sheehan JP, **Dumont AS**, Stroila M, Laws ER, Steiner L. Gamma knife radiosurgery for patients with recurrent or residual ACTH-secreting adenomas after adrenalectomy. Presented at the AANS/CNS Section on Tumors Sixth Biennial Satellite Symposium. San Francisco, CA. October 21-22, 2004.
- 61.) **Dumont AS**, Jane JA, Jr., Jagannathan J, Pouratian N, Levine PA, Jane JA, Sr. Surgical management of esthesioneuroblastoma. Presented at the Neurosurgical Society of the Virginias Meeting. White Sulphur Springs, WV. Jan 14-16, 2005.
- 62.) Kanter AS, **Dumont AS**, Asthagiri AR, Oskouian RJ, Jane JA, Jr, Laws ER, Jr. The extended transsphenoidal approach: The UVA experience. Presented at the Annual Southern Neurosurgical Society Meeting. Key West, FL. March 3-6, 2005.
- 63.) **Dumont AS**, Jane JA, Jr. Oskouian RJ, Levine PA, Jane JA, Sr. Esthesioneuroblastoma: Effective long-term control with a standardized protocol. Presented at the Annual Meeting of the American Association of Neurological Surgeons. New Orleans, LA. April 16-21, 2005.
- 64.) Sansur CA, Bittl M, **Dumont AS**, Pouratian N, Kassell NF. Blood glucose levels during cerebrovascular surgery. Presented at the Annual Meeting of the American Association of Neurological Surgeons. New Orleans, LA. April 16-21, 2005.
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- 68.) Chang CJ, Solenski NJ, Kwan A, Kassell NF, **Dumont AS**. Adenosine 2A agonist prevents experimental post-hemorrhagic vasospasm: Role of inflammation. Presented at the Annual Meeting of the American Association of Neurological Surgeons. San Francisco, CA. April 22-27, 2006.
- 69.) Chang CJ, Solenski NJ, Kwan A, Kassell NF, **Dumont AS**. Adenosine 2A agonist prevents experimental post-hemorrhagic vasospasm. Presented at the Annual International Stroke Conference. Gaylord Palms Kissimmee, FL. February 16-18, 2006.
- 70.) **Dumont AS**, Chang CJ, Solenski NJ, Kwan A, Kassell NF. Cerebral vasospasm following subarachnoid hemorrhage: Targeting inflammation. Presented at the Neurosurgical Society of the Virginias Meeting. White Sulphur Springs, WV. Jan 19-21, 2006.
- 71.) Simsek S, Chang CJ, Solenski NJ, Kassell NF, **Dumont AS**. Lisofylline prevents experimental post-hemorrhagic vasospasm via anti-inflammatory effects. Presented at the Annual Meeting of the Congress of Neurological Surgeons. Chicago, IL. October 7-12, 2006.
- 72.) Jagannathan J, Oskouian RJ, **Dumont AS**, Prevedello D, Fu KM, Jane JA. Long-term results after anterior cervical discectomy and fusion: radiological and clinical outcomes study. Presented at the Annual Meeting of the Congress of Neurological Surgeons. Chicago, IL. October 7-12, 2006.
- 73.) Jagannathan J, Okonkwo DO, **Dumont AS**, Bahari A, Jane JA, Sr, Jane JA, Jr. 10 year experience with Decompressive Craniectomy in Pediatric Trauma Patients: Indications and Outcomes. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Washington, DC. April 14-19, 2007.
- 74.) Brown MD, Zenzen W, **Dumont AS**, Jensen, ME, Evans AJ. Diagnosis and management of intracranial aneurysms using computed tomography angiography (CTA) in patients with subarachnoid hemorrhage. Presented at the 45th Annual Meeting of the American Society of Neuroradiology. Chicago, IL. June 9-14, 2007.
- 75.) Kiehna E, Pouratian N, **Dumont AS**. Standards of reporting randomized controlled trials in neurosurgery. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Chicago, IL. April 28-May 1, 2008.
- 76.) Jagannathan J, Okonkwo DO, Yeoh HK, Saulle D, **Dumont AS**, Oskouian RJ, Sansur CA, Jane JA, Sr, Jane JA, Jr. Management strategies and outcome for pediatric patients with severe tbi and refractory ICP. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Chicago, IL. April 28-May 1, 2008.
- 77.) Crowley RW, Asthagiri AR, **Dumont AS**, Jane JA, Sr, Jane JA, Jr, Kassell NF. Intra-operative ultrasound guidance in the placement of ventriculoperitoneal shunt catheters. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Chicago, IL. April 28-May 1, 2008.

- 78.) **Dumont AS.** Comprehensive management of cerebral aneurysms. Presented at the Annual Neurosurgical Society of the Virginias Annual Meeting. White Sulphur Springs, WV. January 22-24, 2009.
- 79.) Macdonald RL, Spears J, Ilodigwe D, **Dumont A**, Crowley W, Monteith S, Kassell NF. Angiographic vasospasm is associated with cerebral infarction. Presented at the Annual AANS/CNS Cerebrovascular Section Meeting. San Diego, CA. February 17, 2009.
- 80.) Crowley RW, Yeoh HK, Ionescu IA, Stukenborg GJ, Kassell NF, **Dumont AS.** Influence of weekend versus weekday hospital admission on mortality following subarachnoid hemorrhage. Presented at the Annual AANS/CNS Cerebrovascular Section Meeting. San Diego, CA. February 17, 2009.
- 81.) **Dumont AS**, Crowley RW, Monteith SJ, Ilodigwe D, Spears J, Kassell NF, Macdonald RL. Endovascular treatment or neurosurgical clipping of ruptured intracranial aneurysms: effect on angiographic vasospasm, delayed ischemic neurological deficit and cerebral infarction. Presented at the Annual AANS/CNS Cerebrovascular Section Meeting. San Diego, CA. February 17, 2009.
- 82.) **Dumont AS**, Crowley RW, Monteith SJ, Ilodigwe D, Spears J, Kassell NF, Macdonald RL. Endovascular treatment or neurosurgical clipping of ruptured intracranial aneurysms: effect on angiographic vasospasm, delayed ischemic neurological deficit and cerebral infarction. Presented at the Annual Meeting of the American Association of Neurological Surgeons. San Diego, CA. May 2-6, 2009.
- 83.) Crowley RW, Yeoh HK, Stukenborg GJ, Ionescu IA, Kassell NF, **Dumont AS.** Influence of weekend versus weekday hospital admission on mortality following subarachnoid hemorrhage. Presented at the Annual Meeting of the American Association of Neurological Surgeons. San Diego, CA. May 2-6, 2009.
- 84.) Hamilton DK, Sansur CA, **Dumont AS**, Smith JS, Shaffrey CI. C2 neurectomy during atlanto-axial instrumented fusion in the elderly: patient satisfaction and surgical outcome. Presented at the Annual Meeting of the American Association of Neurological Surgeons. San Diego, CA. May 2-6, 2009.
- 85.) Yeoh HK, Crowley RW, Stukenborg GJ, Ionescu IA, Kassell NF, **Dumont AS.** Weekend hospital admission as a risk factor for in-hospital mortality among patients with intracerebral hemorrhage. Presented at the Annual Meeting of the American Association of Neurological Surgeons. San Diego, CA. May 2-6, 2009.
- 86.) Macdonald RL, Spears J, Ilodigwe D, **Dumont A**, Crowley W, Monteith S, Kassell NF. Angiographic vasospasm is associated with cerebral infarction. Presented at the Annual Meeting of the American Association of Neurological Surgeons. San Diego, CA. May 2-6, 2009.
- 87.) Medel R, Hamilton DK, **Dumont AS.** Rare presentations of spinal dural arteriovenous fistula: Dual extra and intradural venous drainage. Presented at the 26th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. Orlando, FL. February 17-20, 2010.
- 88.) Yeoh HK, Crowley RW, **Dumont AS.** Serial 7 tesla mr angiography accurately characterizes experimental cerebral aneurysms. Presented at the Annual Meeting of the American Association of Neurological Surgeons Annual Meeting. Philadelphia, PA. May 1-5, 2010.
- 89.) Jahangiri F, Khan P, Holmberg A, **Dumont AS**, Willis M, Vega-Bermudez F.

Protecting the sensory and motor pathway during embolization of spinal AVM in INR suite. Presented at the American Society of Electroneurodiagnostic Technologists Annual Conference. Louisville, KY. August 4-7, 2010.

- 90.) Jahangiri FR, Sherman JH, Sheehan JP, Shaffrey ME, **Dumont AS**, Vengrow M, Vega-Bermudez F. Limiting the current density during localization of the primary motor cortex by using a tangential-radial cortical SSEP model, DECS and electrocorticography. Presented at the Annual Meeting of the Congress of Neurological Surgeons Meeting. San Francisco, CA. October 16-21, 2010.
- 91.) Crowley RW, Medel R, Ilodigwe D, **Dumont AS**, Kassell NF, Macdonald RL. Presence and severity of angiographic vasospasm following aneurysmal subarachnoid hemorrhage is associated with cerebral infarctions. Presented at the Annual Meeting of the Congress of Neurological Surgeons Meeting. San Francisco, CA. October 16-21, 2010.
- 92.) Ooi YC, Kenning E, Jabbour P, Gonzalez LF, **Dumont AS**, Rosenwasser RH, Tjoumakaris SI. Long term angiographic follow-up of cerebral aneurysms treated by endovascular coiling. Presented at the 2011 AANS/CNS Cerebrovascular Section Meeting. Los Angeles, CA. February 7-8, 2011.
- 93.) Nair AK, Marchan EM, Ghobrial G, Tjoumakaris SI, **Dumont AS**, Gonzalez LF, Rosenwasser RH, Jabbour PM. Safety and efficacy of endovascular treatment of dural arteriovenous fistulas. Presented at the 2011 AANS/CNS Cerebrovascular Section Meeting. Los Angeles, CA. February 7-8, 2011.
- 94.) Krieger, D, Jabbour PM, Gonzalez LF, **Dumont AS**, Rosenwasser RJ, Tjoumakaris SI. Angiographic closure devices: A retrospective review of Angioseal versus Mynx. Presented at the 2011 AANS/CNS Cerebrovascular Section Meeting. Los Angeles, CA. February 7-8, 2011.
- 95.) Nair, A, Ghobrial G, Marchan E, **Dumont AS**, Gonzalez LF, Tjoumakaris S, Rosenwasser RH, Jabbour P. Safety and efficacy of endovascular treatment of dural arteriovenous fistulas. Presented at the 2011 AANS/CNS Cerebrovascular Section Meeting. Los Angeles, CA. February 7-8, 2011.
- 96.) Yeoh HK, Titus BJ, Owens GK, Rosenwasser RH, **Dumont AS**. Cigarette smoke induces oxidative stress and phenotypic modulation in vascular smooth muscle cells. Presented at the International Stroke Conference. Los Angeles, CA. February 9-11, 2011.
- 97.) Crowley RW, Starke RM, Ali MS, Maltenfort M, Jabbour PM, Gonzalez LF, Tjoumakaris SI, Rosenwasser RH, **Dumont AS**. Factors and outcomes associated with the treatment of carotid artery disease in the United States. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Denver, CO. April 9-13, 2011.
- 98.) Starke RM, Crowley RM, Maltenfort M, Jabbour PM, Gonzalez F, Tjoumakaris SI, Rosenwasser RH, **Dumont AS**. Moyamoya phenomena in the United States. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Denver, CO. April 9-13, 2011. * **Recipient of the Synthes Cerebrovascular Section Resident/Fellow Award**
- 99.) Jabbour P, **Dumont AS**, Tjoumakaris S, Gonzalez LF, Randazzo C, Rosenwasser R. W. W. Keen: The American pioneer of neurological surgery. Presented at the Annual Meeting of the American Association of Neurological Surgeons. Denver,

CO. April 9-13, 2011.

- 100.) **Dumont AS.** Toward a better understanding of cerebral aneurysm biology: role of TNF-alpha. . Presented at the NINDS/CNS Career Development Symposium at the Annual Meeting of the Congress of Neurological Surgeons. Washington, DC. October 1-6, 2011
- 101.) **Dumont AS.** Retreatment of cerebral aneurysms. Presented at the Annual Meeting of the Congress of Neurological Surgeons. Washington, DC. October 1-6, 2011
- 102.) **Dumont AS.** Management of cerebral aneurysms. Presented at the Annual Meeting of the Congress of Neurological Surgeons. Washington, DC. October 1-6, 2011
- 103.) Dalyai R, Theofanis T, Vakharia K, Ghobrial GM, **Dumont AS**, Jabbour P, Gonzalez LF, Rosenwasser RH, Tjoumakaris SI. Follow-up angiography in subarachnoid hemorrhage with negative initial angiography. Presented at the Annual Meeting of the Congress of Neurological Surgeons. Washington, DC. October 1-6, 2011
- 104.) Dayoub H, Tjoumakaris SI, Gonzalez LF, **Dumont AS**, Rosenwasser RH, Jabbour P. Is packing density important in stent-assisted coiling? Presented at the Annual Meeting of the Congress of Neurological Surgeons. Washington, DC. October 1-6, 2011
- 105.) Dalyai R, Thakkar V, Jabbour P, Singhal S, Ghobrial GM, Gonzalez LF, **Dumont AS**, Rosenwasser RH, Tjoumakaris SI. Endovascular treatment of proximal internal carotid artery occlusion and tandem middle cerebral artery occlusion in acute ischemic stroke. Presented at the Annual Meeting of the Congress of Neurological Surgeons. Washington, DC. October 1-6, 2011
- 106.) Teufack S, Gonzalez LF, Jabbour P, Tjoumakaris SI, Gordon DS, **Dumont AS**, Rosenwasser RH. Temporary endovascular bypass: rescue technique during mechanical thrombolysis. Presented at the Annual Meeting of the Congress of Neurological Surgeons. Washington, DC. October 1-6, 2011
- 107.) Ooi YC, Kenning E, Chitale R, Campbell P, Gonzalez LF, **Dumont AS**, Rosenwasser R, Tjoumakaris S. Long-term angiographic follow-up of cerebral aneurysms treated by endovascular coiling compared to microsurgical clipping. Presented at the 14th European Congress of Neurosurgery. Rome, Italy. October 9-14, 2011.
- 108.) Ooi YC, Kenning E, Chitale R, Campbell P, Gonzalez LF, **Dumont AS**, Rosenwasser R, Tjoumakaris S. Angiographic long-term efficacy of aneurysm clipping. Presented at the 14th European Congress of Neurosurgery. Rome, Italy. October 9-14, 2011.
- 109.) Dalyai R, Theofanis T, Jabbour P, **Dumont AS**, Gonzalez LF, Rosenwasser RH, Tjoumakaris SI. Endovascular embolization of large arteriovenous malformations with adjuvant stereotactic radiosurgery: An institutional experience. Presented at the 2012 AANS/CNS Cerebrovascular Section Annual Meeting. New Orleans, LA. January 30-31, 2012.
- 110.) Chalouhi N, Jabbour P, Gonzalez LF, **Dumont AS**, Rosenwasser RH, Starke R, Gordon D, Hann S, Tjoumakaris SI. Safety and efficacy of endovascular treatment of basilar tip aneurysms with coiling and stent-assisted techniques. Presented at

the 2012 AANS/CNS Cerebrovascular Section Annual Meeting. New Orleans, LA. January 30-31, 2012.

- 111.) Ali MS, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Tumor necrosis factor- α induces phenotypic modulation in cerebral vascular smooth muscle cells via KLF4: Implications for cerebral aneurysm pathology. Presented at the 2012 International Stroke Conference. New Orleans, LA. February 1-3, 2012.
- 112.) Ali MS, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Cigarette smoke directly produces a pro-inflammatory/matrix remodeling phenotype in cerebral vascular smooth muscle cells via KLF4: A potential mechanism for cerebral aneurysm pathogenesis. Presented at the 2012 International Stroke Conference. New Orleans, LA. February 1-3, 2012.
- 113.) Chitale R, Toporowski A, Cheresnick C, Tjoumakaris S, Gonzalez F, **Dumont AS**, Rosenwasser RH, Jabbour P. Wingspan stent largest series outside SAMMPRIS: Long-term results. Presented at the 2012 International Stroke Conference. New Orleans, LA. February 1-3, 2012.
- 114.) Chitale R, Gonzalez F, Randazzo C, **Dumont AS**, Tjoumakaris S, Rosenwasser RH, Dayoub H, Jabbour P. Largest United States pipeline case series after PUFs: Feasibility, technique, and complications. Presented at the 2012 International Stroke Conference. New Orleans, LA. February 1-3, 2012.
- 115.) Tjoumakaris SI, Dalyai R, Theofanis T, Jabbour P, **Dumont AS**, Gonzalez F, Rosenwasser R. Multimodality treatment of 835 patients with arteriovenous malformations: Factors related to complete occlusion and complications. Presented at the 2012 Annual Meeting of the American Association of Neurological Surgeons. Miami, FL. April 14-18, 2012.
- 116.) Ali MS, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Tumor necrosis factor- α produces a pro-inflammatory/matrix remodeling phenotype in cerebral vascular smooth muscle cells – role of oxidative stress in cerebral aneurysm formation. Presented at the 2012 Annual Meeting of the American Association of Neurological Surgeons. Miami, FL. April 14-18, 2012.
- 117.) Ali MS, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Superoxide dismutase inhibits phenotypic modulation and inflammatory upregulation by cigarette smoke extract in cerebral vascular smooth muscle cells – Implications for cerebral aneurysms. Presented at the 2012 Annual Meeting of the American Association of Neurological Surgeons. Miami, FL. April 14-18, 2012.
- 118.) Ali MS, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Epigenetic mechanisms regulate TNF- α induced phenotypic modulation in cerebral vascular smooth muscle cells: Implications for cerebral aneurysm biology. Presented at the Arteriosclerosis Thrombosis and Vascular Biology 2012 Scientific Sessions. Chicago, IL. April 18-20, 2012.
- 119.) Ali MS, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Regulation of Nox1 and Nox2 by cigarette smoke in cerebral vascular smooth muscle cells: A role of oxidative stress in cerebral aneurysm formation. Presented at the Arteriosclerosis Thrombosis and Vascular Biology 2012 Scientific Sessions. Chicago, IL. April 18-20, 2012.

- 120.) Ali MS, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Cigarette smoke produces phenotypic modulation of cerebral vascular smooth muscle cells: Role of KLF4 and epigenetic control. Presented at the Arteriosclerosis Thrombosis and Vascular Biology 2012 Scientific Sessions. Chicago, IL. April 18-20, 2012.
- 121.) Chalouhi N, **Dumont AS**, Tjoumakaris SI, Gonzalez F, Starke RM, Dalyai R, El Moursi S, Rosenwasser RH, Hasan DM, Jabbour P. Threshold packing density in stent-assisted coiling of intracranial aneurysms. *Neurosurgery* 71:E553, 2012.
- 122.) Chalouhi N, Tjoumakaris SI, Gonzalez LF, **Dumont AS**, Chitale R, Rosenwasser RH, Biancotto C, Shields C, Jabbour P. Intra-arterial chemotherapy for retinoblastoma: Pearls and pitfalls. *Neurosurgery* 71:E552, 2012.
- 123.) Chalouhi N, Theofanis T, Jabbour P, **Dumont AS**, Gonzalez LF, Starke RM, Rosenwasser RH, Tjoumakaris SI. Safety and efficacy of intra-operative angiography in craniotomies for cerebral aneurysms and arteriovenous malformations: a review of 1089 cases. *Neurosurgery* 71:E550-1, 2012.
- 124.) Zussman BM, Olszewski A, Sell N, Galvao J, Colacino E, Maltenfort MG, Tjoumakaris SI, **Dumont AS**, Rosenwasser RH, Jabbour P, Gonzalez LF. Prognostic Factors for acute ischemic stroke patients with and without neurosurgical endovascular intervention. Presented at the 2012 Annual Meeting of the Congress of Neurological Surgeons. Chicago, IL. October 6-10, 2012.
- 125.) Chalouhi N, Theofanis T, Jabbour P, **Dumont AS**, Gonzalez LF, Rosenwasser RH, Starke RM, Tjoumakaris SI. Endovascular treatment of posterior communicating artery aneurysms with third nerve palsy: Clinical outcomes and predictors of nerve recovery. Presented at the 2012 Annual Meeting of the Congress of Neurological Surgeons. Chicago, IL. October 6-10, 2012.
- 126.) Chalouhi N, Penn D, Tjoumakaris SI, Jabbour P, Gonzalez LF, Starke RM, Ali M, Rosenwasser RH, **Dumont AS**. Treatment of small ruptured intracranial aneurysms: Comparison of surgical and endovascular options. Presented at the 2012 Annual Meeting of the Congress of Neurological Surgeons. Chicago, IL. October 6-10, 2012.
- 127.) Kung DK, Chalouhi N, Jabbour PM, **Dumont AS**, Winn HR, Howard MA, Hasan D. Cerebral blood flow dynamics and head-of-bed changes in the setting of subarachnoid hemorrhage. Presented at the 2013 International Stroke Conference. Honolulu, HI. February 6-8, 2013.
- 128.) Chalouhi N, Starke RM, Tjoumakaris S, Jabbour P, Gonzalez LF, Hasan D, Rosenwasser R, **Dumont AS**. Endovascular arterial deconstruction with a combination of Onyx and coils: Technique, feasibility and complications. Presented at the 2013 International Stroke Conference. Honolulu, HI. February 6-8, 2013.
- 129.) Starke RM, Ali MS, Tjoumakaris SI, Jabbour PM, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Binding of KLF4 and HDAC2 to the promoter region of SM22alpha mediates phenotypic modulation in vitro and in vivo: Implications in cerebral aneurysm formation. *Stroke* 44:ATMP26, 2013. Presented at the 2013 International Stroke Conference. Honolulu, HI. February 6-8, 2013.
- 130.) Ali MS, Starke RM, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Koch WJ, **Dumont AS**. Transcriptional and epigenetic regulation of MCP1 by Tumor Necrosis Factor-alpha and cigarette smoke: Key mediators in aneurysm

- formation. *Stroke* 44:A108, 2013. Presented at the 2013 International Stroke Conference. Honolulu, HI. February 6-8, 2013.
- 131.) Chalouhi N, Tjoumakaris S, **Dumont AS**, Gonzalez LF, Shields C, Bianciotto CG, Rosenwasser R, **Jabbour P**. Intra-arterial chemotherapy opens new horizons to neurointerventional surgeons. Presented at the 2013 International Stroke Conference. Honolulu, HI. February 6-8, 2013.
 - 132.) Chalouhi N, Jabbour P, Drueding, Dalyai R, Starke RM, Tjoumakaris S, **Dumont AS**, Gonzalez LF, Rosenwasser R, Randazzo C. Stent-assisted coiling of intracranial aneurysms: Predictors of complications, recanalization, and outcome in 509 cases. *Stroke* 44: A110, 2013. Presented at the 2013 International Stroke Conference. Honolulu, HI. February 6-8, 2013.
 - 133.) Chalouhi N, Ghobrial G, Tjoumakaris S, **Dumont AS**, Gonzalez LF, Witte S, Davanzo J, Starke RM, Randazzo C, Flanders AE, Hasan D, Chitale R, Rosenwasser R, D'Ambrosio R, Muller K, Jabbour PM. CT Perfusion-guided patient selection for acute stroke intervention reduces in-hospital mortality. *Stroke* 44:ATP13, 2013. Presented at the 2013 International Stroke Conference. Honolulu, HI. February 6-8, 2013.
 - 134.) Starke RM, Chalouhi N, Ali MS, Penn DL, Tjoumakaris S, Jabbour PM, Gonzalez LF, Rosenwasser RH, **Dumont AS**. Endovascular treatment of very small ruptured intracranial aneurysms: Complications, occlusion rates and prediction of outcome. *Stroke* 44:AWP87, 2013. Presented at the 2013 International Stroke Conference. Honolulu, HI. February 6-8, 2013.
 - 135.) Dalyai R, Theofanis T, Chalouhi N, Starke RM, Jabbour P, **Dumont AS**, Gonzalez LF, Rosenwasser R, Tjoumakaris T. Smoking is a negative predictor of arteriovenous malformations treatment obliteration: Analysis of vascular risk factors in 835 patients. Presented at the 2013 AANS/CNS Cerebrovascular Joint Section Meeting. Honolulu, HI. February 4-5, 2013.
 - 136.) Chalouhi N, Ghobrial G, Tjoumakaris S, **Dumont AS**, Gonzalez LF, Witte S, Davanzo J, Starke RM, Randazzo C, Flanders A, Hasan d, Chitale R, Rosenwasser R, Jabbour P. CT Perfusion Beats the Clock as Screening Tool for Endovascular Mechanical Intervention in Acute Ischemic Stroke. Presented at the 2013 AANS/CNS Cerebrovascular Joint Section Meeting. Honolulu, HI. February 4-5, 2013.
 - 137.) Chalouhi N, Ross D, Starke RM, Jabbour P, **Dumont AS**, Gonzalez LF, Rosenwasser R, and Tjoumakaris S. In-Stent Stenosis Following Stent-Assisted Coiling: Incidence, Predictors and Clinical Outcomes of 435 Cases. Presented at the 2013 AANS/CNS Cerebrovascular Joint Section Meeting. Honolulu, HI. February 4-5, 2013.
 - 138.) Chalouhi N, Witte S, Soni P, Penn D, Starke RM, Jabbour P, **Dumont AS**, Gonzalez LF, Rosenwasser R, Tjoumakaris S. Diagnostic Yield of Cerebral Angiography in Patients with CT-negative, Lumbar Puncture-Positive Subarachnoid Hemorrhage. Presented at the 2013 AANS/CNS Cerebrovascular Joint Section Meeting. Honolulu, HI. February 4-5, 2013.
 - 139.) Chalouhi N, Jabbour P, Starke RM, Tjoumakaris S, **Dumont AS**, Rosenwasser R, Liu H, Gonzalez LF. Treatment of Large and Giant Intracranial Aneurysms: Cost Comparison of Flow Diversion and Traditional Embolization Strategies. Presented

at the 2013 AANS/CNS Cerebrovascular Joint Section Meeting. Honolulu, HI. February 4-5, 2013.

- 140.) Chalouhi N, Starke RM, Jabbour P, Tjoumakaris S, **Dumont AS**, Rosenwasser R, Gonzalez LF. Stent-Assisted Coiling versus Balloon Remodeling of Wide-Necked Aneurysms: Comparison of Angiographic Outcomes. Presented at the 2013 AANS/CNS Cerebrovascular Joint Section Meeting. Honolulu, HI. February 4-5, 2013.
- 141.) Theofanis T, Chalouhi N, Starke RM, Dalyai R, Jabbour P, **Dumont AS**, Gonzalez LF, Rosenwasser R, Tjoumakaris S. Microsurgery for Resection of Cerebral Arteriovenous Malformations: An Institutional Experience. Presented at the 2013 AANS/CNS Cerebrovascular Joint Section Meeting. Honolulu, HI. February 4-5, 2013.
- 142.) Theofanis T, Dalyai R, Chalouhi N, Starke RM, Jabbour P, **Dumont AS**, Gonzalez LF, Rosenwasser R, Tjoumakaris S. Treatment of Cerebral Arteriovenous Malformations: Predictors of Obliteration, Complications, and Post-Treatment Hemorrhage in 774 patients. Presented at the 2013 AANS/CNS Cerebrovascular Joint Section Meeting. Honolulu, HI. February 4-5, 2013.
- 143.) Starke RM, Ali M, Jabbour P, Tjoumakaris S, Gonzalez LF, Rosenwasser R, Owens G, Koch W, Greig N, **Dumont AS**. The role of cigarette smoke and cerebral vascular cell phenotypic modulation in cerebral aneurysm pathogenesis. Presented at the 2013 American Association of Neurological Surgeons Annual Meeting. New Orleans, LA. April 27-May 1, 2013.
- 144.) Ali MS, Starke RM, Jabbour PM, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Owens GK, Koch WJ, **Dumont AS**. TNF-alpha Induces Phenotypic Modulation in Cerebral Vascular Smooth Muscle Cells: Implications for Cerebral Aneurysm Pathology. Presented at the 2013 American Association of Neurological Surgeons Annual Meeting. New Orleans, LA. April 27-May1, 2013.
- 145.) Starke RM, Chalouhi N, Ali MS, Tjoumakaris S, Gonzalez LF, Rosenwasser RH, Jabbour P, **Dumont AS**. Endovascular Treatment of Carotid Cavernous Aneurysms: Complications, Outcomes & Comparison of Interventional Strategies. Presented at the 2013 American Association of Neurological Surgeons Annual Meeting. New Orleans, LA. April 27-May1, 2013.
- 146.) Hasan DM, Chalouhi N, Jabbour P, **Dumont AS**, Kung D, Magnotta V, Young W, Hashimoto T, Winn HR, Heistad D. Early changes in ferumoxytol-enhanced magnetic resonance imaging signal suggests unstable human cerebral aneurysm – A Pilot Study. Presented at the 2013 American Association of Neurological Surgeons Annual Meeting. New Orleans, LA. April 27-May1, 2013.
- 147.) Hasan DM, Chalouhi N, Jabbour P, **Dumont AS**, Kung D, Magnotta V, Young W, Hashimoto T, Winn HR, Heistad D. Aspirin attenuates inflammation in the wall of human cerebral aneurysms. Presented at the 2013 American Association of Neurological Surgeons Annual Meeting. New Orleans, LA. April 27-May1, 2013.
- 148.) Ali MS, Starke RM, Jabbour P, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, **Dumont AS**. Infliximab suppresses TNF-alpha induced inflammatory phenotype in cerebral vascular smooth muscle cells: Implications for cerebral aneurysm formation. Presented at the 2013 Congress of Neurological Surgeons Annual Meeting. San Francisco, CA. October 19-23, 2013.

- 149.) Starke RM, Chalouhi N, Ali MS, Jabbour P, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Owens GK, Greig NH, **Dumont AS**. Critical role of TNF- α in cerebral aneurysm formation and rupture. Presented at the 2013 Congress of Neurological Surgeons Annual Meeting. San Francisco, CA. October 19-23, 2013.
- 150.) Chalouhi N, Tjoumakaris S, Gonzalez LF, **Dumont AS**, Starke RM, Hasan D, Wu C, Singhal S, Rosenwasser R, Jabbour P. Coiling of large and giant aneurysms: Complications and long-term results of 334 cases. Presented at the 2014 International Stroke Conference. San Diego, CA. February 12-14, 2014.
- 151.) Starke RM, Ali MS, Chalouhi N, Jabbour P, Tjoumakaris SI, Gonzalez LF, Rosenwasser RH, Hasan D, Hashimoto T, Greig NH, Owens GK, **Dumont AS**. Critical role of smooth muscle phenotypic modulation in cerebral aneurysm formation and rupture. Presented at the 2014 International Stroke Conference. San Diego, CA. February 12-14, 2014.
- 152.) Starke RM, Pace LA, Pascale CL, Ding D, Ali M, Hasan DM, Owens G, **Dumont AS**. Cigarette smoke initiates oxidative stress-induced phenotypic modulation of vascular smooth muscle cells leading to cerebral aneurysm formation and rupture. *Neurosurgery* 62 Suppl 1:196, 2015.
- 153.) Monteith SJ, Tsimpas A, **Dumont AS**, Tjoumakaris S, Gonzalez F, Rosenwasser RH, Jabbour P. Endovascular treatment of fusiform aneurysms with the Pipeline Embolization Device. Presented at the 2014 American Association of Neurological Surgeons Annual Meeting. San Francisco, CA. April 5-9, 2014.
- 154.) Sawyer DM, Pascale C, Pace L, Kutchin A, Caralopoulos I, **Dumont AS**. The role of lymphocytes in the pathogenesis of rupture of intracranial aneurysms. Presented at the 2015 American Association of Neurological Surgeons Annual Meeting. Washington DC. May 2-6, 2015.
- 155.) Sawyer D, Pascale C, Pace L, **Dumont AS**. Sulforaphane protects against subarachnoid hemorrhage and alters the expression of inflammatory extracellular matrix remodeling genes in a mouse model of intracranial aneurysms. Presented at the 2017 International Stroke Conference. Houston, Texas. February 21-24, 2017.
- 156.) **Dumont AS**. Neurophysiological monitoring for neuroendovascular procedures. Presented at the 2018 American Society of Neurophysiological Monitoring Annual Meeting. Orlando, FL. February 23, 2018.
- 157.) Martinez A, Pascale C, Carr C, **Dumont AS**. Sex differences in cerebrovascular smooth muscle cells treated with TNF- α : Possible implications in intracranial aneurysms. Presented at the Southern Regional Meeting. New Orleans, LA. February 23, 2018.
- 158.) Chen M, Pascale C, Martinez A, Carr C, O'Donnell D, **Dumont AS**. Treatment with dimethyl fumarate reduces the formation and rupture of intracranial aneurysms in an elastase mouse model. Presented at the American Association of Neurological Surgeons Annual Meeting. San Diego, CA. April 15, 2019.
- 159.) Mathkour M, McCormack E, **Dumont AS**, Amenta PS, Medel R. Hydrogel Coiling versus Bare Platinum Coiling and its Role in Dampening Recurrence and Rebleeding Rates Among Conventionally Treated Cohorts. Presented at the American Association of Neurological Surgeons Annual Meeting. San Diego, CA. April 13-17, 2019.
- 160.) Carr C, Pascale C, Martinez A, Chen M, O'Donnell D, **Dumont AS**. Increased

Survival Following Treatment with Dimethyl Fumarate in an Elastase Mouse Model of Intracranial Aneurysm Formation and Rupture. Presented at the American Association of Neurological Surgeons Annual Meeting. San Diego, CA. April 13-17, 2019.

- 161.) Mathkour M, McCormack E, **Dumont AS**, Maulucci MM. Iatrogenic Spinal Cord Injury with tetraplegia after an Elective Non-Spine Surgery with Underlying Undiagnosed Cervical Spondylotic Myelopathy. Presented at the American Association of Neurological Surgeons Annual Meeting. San Diego, CA. April 13-17, 2019.
- 162.) **Dumont AS**, Pascale C, Martinez A. Cerebral Aneurysm Formation and Rupture: Role of Nrf2 Signaling. Presented at the 81st Annual Meeting of the American Academy of Neurological Surgery. Rome, Italy. September 18-21, 2019.
- 163.) Yacob A, Carr C, Werner C, **Dumont AS**. Global Burden of Neurosurgical Disease. Presented at the Congress of Neurological Surgeons Annual Meeting. San Francisco, CA. October 19-23, 2019.
- 164.) Yacob A, Carr C, Foote J, **Dumont AS**. The global burden of neural tube defects and disparities in neurosurgical care. Presented at the 48th Annual Meeting of the AANS/CNS Section of Pediatric Neurological Surgery. Scottsdale, AZ. December 5-8, 2019.
- 165.) Yacob A, Carr C, Foote J, Scullen TS, **Dumont AS**. The global burden of neural tube defects and disparities in neurosurgical care. Presented at the Southern Society for Clinical Investigation. New Orleans, LA. February 13-15, 2020.
- 166.) **Dumont AS**. Evolution in the care of cerebrovascular disease: Change before you have to. Presented at the World Federation of Neurological Surgeons Global Neurosurgery Meeting. September 10, 2020. Virtual On-Line Symposium.
- 167.) McCormack I, Lu X, Nerva J, Berry JF, Melgar M, Wysiadecki G, Walocha JA, Iwanaga J, **Dumont AS**, Tubbs RS. Anatomy of the dorsal meningeal artery including its variations: Application to skull base surgery and diagnostic and interventional imaging. Presented at the Congress of Neurological Surgeons Annual Meeting. October 16-20, 2021. Austin, TX.
- 168.)
- 169.) McCormack IG, Pascale CL, Suder NJ, Couldwell MW, Nordham KD, Tortelote GG, Martinez-Lege A, **Dumont AS**. Single-cell transcriptome analysis reveals dynamic cell populations and differential gene expression patterns in a mouse cerebral aneurysm model. Presented at the American Association of Neurological Surgeons Annual Meeting. April 30, 2022. Philadelphia, PA.
- 170.) Tubbs RS, Glynn R, **Dumont AS**. Anatomical considerations for dynamic reference array placement in robotic spine surgery. Presented at the Congress of Neurological Surgeons Annual Meeting. October 8-12, 2023. San Francisco, CA.
- 171.) Tubbs RS, Scullen T, Mathkour M, **Dumont AS**, Wang A. Characteristics and management of dilated mastoid emissary veins, a comprehensive literature review. Presented at the Congress of Neurological Surgeons Annual Meeting. October 8-12, 2023. San Francisco, CA.
- 172.) Tucci M, Anadkat S, **Dumont AS**, Iwanaga J, Spinner R, Tubbs RS. Alternative anatomical landmarks for the lateral femoral cutaneous nerve: Cadaveric study with implications for difficult decompressive cases. Presented at the Congress of

- Neurological Surgeons Annual Meeting. October 9-13, 2023. Washington, DC.
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- 167.) Scullen T, Mathkour M, Santana MN, **Dumont AS**. Neurosurgery resident interviews: The prevalence and impact of inappropriate and potentially illegal questions. *Neurosurgery* 89:E8-E10, 2021.
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- 171.) Cardona JJ, **Dumont AS**, Iwanaga J, Tubbs RS. Influence of Morphological Changes on Dural Venous Sinuses Hemodynamics. *J Magn Reson* August 30, 2024 [Epub ahead of print].

Select Recent Clinical Trials:

- 1.) Clazosentan in Reducing Vasospasm-related Morbidity and All-cause Mortality in Adult Patients with Aneurysmal Subarachnoid Hemorrhage Treated by Surgical Clipping (CONSCIOUS-2). Clinical Events Committee member 2007-2010.
- 2.) Clazosentan in Reducing Vasospasm-related Morbidity and All-cause Mortality in Adult Patients with Aneurysmal Subarachnoid Hemorrhage Treated by Endovascular Coiling (CONSCIOUS-2). Clinical Events Committee member 2009-2011.
- 3.) Carotid revascularization and medical management for asymptomatic carotid stenosis trial. (CREST-2). Site Principal Investigator 2016-2023.
- 4.) Ruptured Aneurysms Treated with Hydrogel Coils (RAGE). Site Principal Investigator 2018-present.
- 5.) pRevention and trEatment of vAsospasm with Clazosentan (REACT). Clinical Events Committee. 2019-2023.

Community Service:

2005- Guest speaker at local churches to discuss disease prevention, cardiovascular health and answer health-related questions

2008- Guest speaker at Schools to discuss the brain, diseases of the brain and a career in medicine

Support:

Active

Charles B. Wilson Endowed Funds, Department of Neurosurgery 2013-Present
These research funds are dedicated to supporting strategic research for the Department of Neurosurgery and for facilitating competition for extramural funding.
Role: PI

Pending

R01 NIH/NINDS

“PFKFB3 as a Novel Therapeutic Target for Secondary Brain Injury Following Intracerebral Hemorrhage”

This grant will evaluate the role of metabolic reprogramming following ICH in promoting multi-dimensional pro-inflammatory signaling in microglia and endothelial cells leading to inflammatory activation, blood-brain-barrier disruption, cerebral edema and secondary brain injury. PFKFB3, as a key regulator of glycolysis, will be targeted as a key metabolic switch that may translate to a novel therapy for maintaining beneficial bioenergetics and mitigating secondary injury post-ICH.

Role: PI (Submitted 06/2025)

Completed

Tulane Research Centers of Excellence Awards 01/01/2021 – 12/31/2024

Research Program of Tulane Personalized Health Institute

Project 5 – Immune metabolic modulation strategy development for intervention of inflammatory and infectious diseases with TCA cycle metabolites.

Role: Project Co-PI

Tulane University School of Medicine Pilot Fund

2019

Principal Investigator

\$20,000

A.S. Mitchell Foundation

2015-2016

Principal Investigator

\$40,000

1K08NS067072 (Dumont, A.S.: PI)

NIH/NINDS

09/30/2009 – 08/31/2014

6.0 CM

\$171,126 (Annual Directs)

“TNF- α and Vascular Smooth Muscle Cell Phenotypic Modulation in Cerebral Aneurysms”

This grant determined the role of TNF- α in the development and progression of cerebral aneurysms focusing on the role of cerebral vascular smooth muscle cell phenotypic modulation.

Neurosurgery Research and Education Foundation Young Clinician Investigator Award,
2008-2009

Principal Investigator
\$40,000

Charles A. Elsberg Fellowship Award in Neurological Surgery, "Inflammatory Cytokines and Vascular Smooth Muscle Cell Phenotypic Modulation in Cerebral Aneurysms:",
2008-2009

Principal Investigator
\$50,000