

IL1

Artificial Intelligence for Diagnosis and Management of Acute Stroke: Progress and Promise

Greg W. Albers

Department of Neurology, Stanford University, USA



ACADEMIC APPOINTMENTS—Stanford University Medical Center

1988	Clinical Instructor in Neurology
1989	Clinical Assistant Professor of Neurology and Neurological Sciences
1989-1995	Assistant Professor of Neurology and Neurological Sciences
1995-1999	Associate Professor of Neurology and Neurological Sciences
1999-Present	Professor of Neurology and Neurological Sciences
2001-Present	Professor of Neurosurgery (by courtesy)
2007	Coyote Foundation Professorship

DEPARTMENTAL / HOSPITAL APPOINTMENTS

—Stanford University Medical Center

1989-1990	Associate Director, Department of Neurology and Neurological Sciences, Residency Training Program
1989-1992	Director, Clinical Electrophysiology Laboratory, VA Medical Center, Palo Alto
1990-1995	Director, Department of Neurology and Neurological Sciences, Residency Training Program
1992-Present	Director, Stanford Stroke Center, Stanford University Medical Center
1992-Present	Director, Cerebrovascular Fellowship Training Program
1997-1998	Associate Chair, Department of Neurology and Neurological Sciences
2003-2016	Executive Committee, Department of Neurology and Neurological Sciences
2003-Present	Director, ACGME Vascular Neurology Residency Training Program

EDUCATION

June 1980	BS, University of California Irvine, Irvine, California
June 1984	MD, University of California San Diego, La Jolla, California
1984-1985	INTERNSHIP, Department of Medicine, Stanford University Medical Center
1985-1988	RESIDENCY, Department of Neurology and Neurological Sciences, Stanford University Medical Center
1988-1989	FELLOWSHIP, Department of Neurology and Neurological Sciences, Stanford University Medical Center

IL2

Cellular Therapy for Stroke

Johannes Boltze

University of Warwick, School of Life Sciences, United Kingdom



Personal Statement:

I bring more than 16 years of experience in basic and translational research, industry collaboration, staff leadership, and management practice. My personal research interests comprise the fields of experimental neurology and neurosurgery; particularly stem cell-based therapies, large animal modeling and quality assurance methodology in preclinical stroke research. I have established a dense network of international collaborations with high-ranking institutions such as Harvard and Stanford University. I also serve as the conference president for the International Symposium on Neuroprotection and Neurorepair (ISN&N).

Professional Development:

- 2019-present Full Professor of Neuroscience, The University of Warwick, Coventry, United Kingdom
 - 2015-2018 Head, Department of Translational Medicine and Cell Technology, Fraunhofer EMB
 - 2012-2013 invited research at Massachusetts General Hospital and Harvard Medical School, Neurovascular Research Laboratory (Professor Michael A. Moskowitz), Boston, USA
 - 2011-2015 Principal Investigator, TRM and University of Leipzig, Germany
Projects: SIRIUS (joint research initiative with Stanford University, USA)
MEMS-IRBI (European joint research initiative with University of Kuopio, Finland and University of Warsaw, Poland)
 - 2011-2016 Member of the Fraunhofer Vintage Class (18 selected individuals), an intramural personnel development and training program on high-ranking leadership positions in scientific management under direct supervision of the Fraunhofer board of directors
 - 2009-2015 Head, Department of Cell Therapy, Fraunhofer IZI
 - 2009-2009 Head of the combined Ischemia Research Group, Fraunhofer IZI
 - 2006-2009 Head of the Neurorepair Research Group, Fraunhofer IZI
 - 1996-1998 Officer's training in the Central Medical Service of the German Armed Forces current rank: Lieutenant Colonel (in general staff service, active reservist)
- Curriculum Vitae: Johannes Boltze, MD, PhD

Academic Development and Education:

- 2019-present Full Professor of Neuroscience, The University of Warwick, Coventry, United Kingdom
- 2018 Call on Full Professorship of Neuroscience, The University of Warwick, Coventry, United Kingdom
- 2015-2018 Full Professor of Medical Cell Technology, University of Lübeck, Germany
- 2014 Call on Full Professorship for Medical Cell Technology, University of Lübeck, Germany
- 2012 PhD in Neurobiology, University of Leipzig (summa cum laude)
- 2005-2009 Member of the MD/PhD program, University of Leipzig
Studies of Neurobiology and Pharmacy
- 2008 MD in Experimental Neurology, University of Leipzig (summa cum laude)
- 1998-2006 Studies of Human Medicine, University of Leipzig including 1.5 years of full-time undergraduate research activities
- 1996 high school diploma (valedictorian), "Alexander von Humboldt" secondary school, Werdau, Germany
- 1988-1992 coeducational courses in advanced mathematics, physics and chemistry, Chemnitz School of Natural Sciences for the gifted (until school closure in 1992)

IL3

IA rt-PA Following Mechanical Thrombectomy**Ángel Chamorro**

Department of Neuroscience, Hospital Clinic of Barcelona, Spain

**Current position**

Médico Especialista

Hospital Clínic i Provincial de Barcelona

CV SUMMARY

He is currently a neurology medical specialist and Director of the Comprehensive Stroke Center (CSC) of the Department of Neuroscience, Hospital Clínic de Barcelona. The CSC is a national and international reference center for assistance and research in Cerebrovascular Pathology that has received the TOP 20 ASIST award from Spanish healthcare centers in the last 5 years for its medical-surgical activity in stroke; due to this experience I have also been a member of the Executive Committee of the European Therapeutic Guides for Stroke since 2003. On the other hand, in the area of research I was Coordinator of the Stroke Immunology Research Section of the European Stroke Organization and its Vice President (2010-2014); likewise, since 2012 I am the Coordinator of the Group of Brain ischemia: clinical and experimental studies at the August Pi i Sunyer Biomedical Research Institute (IDIBAPS), my group has obtained funding from the Spanish Ministry of Economy and Competitiveness on a regular basis from 1995 to date. This regularity has originated more than 200 original articles in the Stroke area, all of them in prestigious scientific journals with high impact factor, in addition to some registered patents. Regarding teaching, I am a Professor of Neurology at the University of Barcelona, having directed 8 doctoral theses throughout all these years, as well as an Associate Professor at the University of Iowa Health Care.

IL4

Transvenous Embolization of AVMs

René Chapot

Department of intracranial endovascular Therapy,
Alfried Krupp Krankenhaus, Germany



1986-1991	Medicine Studies, Paris
1991	Medical Diploma
1991-1995	Residency training, Radiology, APHP, Paris
1995-1998	Interventional Neuroradiology Chief Resident, Lariboisière Hospital, Paris
1998-2003	Interventional Neuroradiology Consultant, Lariboisière Hospital, Paris
2003-2006	Professor and head of Neuroradiology, University Hospital of Limoges
from 2007	Head of Department, Center for Neuroradiology and Intracranial Endovascular Therapy, Alfried Krupp Hospital Essen

Titles and Diplomas

- Doctor in Medicine (MD) (silver Medal), October 1993, Paris XII University
- Specialist in Radiology, October 1995, Paris XII University
- Anatomy Instructos, November 1995, Paris VII University
- Master of Science (MSc) in Biophysics, September 2000, Compiègne University
- Senior cum laude Qualification in Neuroradiology, December 2002, University, Hospital of Limoges
- Full University-Professor, University of Limoges, August 2003

IL5

Passion for Clinical Research in Cerebral Amyloid Angiopathy: Some perspectives

Andreas Charidimou

Department of Neurology, Boston University Medical Center and Boston University School of Medicine, USA



Brief bio:

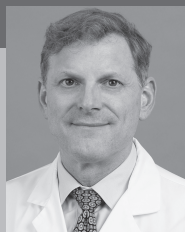
Andreas Charidimou is an instructor in Neurology at Boston University Medical Center (USA) and a senior resident at the same institution. He studied medicine at the University of Athens in Greece and completed his PhD at the UCL Queen Square Institute of Neurology (London, UK) on applied clinical neuroimaging of cerebral small vessel disease and intracerebral hemorrhage. He subsequently completed a post-doctoral fellowship at the MGH/Harvard Medical School Hemorrhagic Stroke Research Program (Boston, USA). He focusses on patient-based research in cerebral amyloid angiopathy, cognitive impairment and intracerebral hemorrhage, aiming to improve diagnosis, define future hemorrhage and dementia risk, and intergrade novel biomarkers into clinical practice.

IL6

Intensive Rehabilitation Therapy for Acute Stroke Patients

Steven C. Cramer

University of California, Los Angeles, USA



Professor, Department of Neurology

Susan and David Wilstein Endowed Chair in Rehabilitation Medicine

David Geffen School of Medicine at UCLA

Medical Director of Research

California Rehabilitation Institute

Education and Training

- 1980-83 B.A., Neurobiology, with Highest Honors, Univ. of Calif., Berkeley; Berkeley, CA
- 1984-88 M.D.; University of Southern California, School of Medicine; L.A., CA
- 1988-91 Residency, Internal Medicine; UCLA Center for Health Sciences; L.A., CA
- 1992-95 Residency, Neurology; Massachusetts General Hospital; Boston, MA
- 1995-97 Fellowship, Cerebrovascular Disease; Massachusetts General Hospital; Boston, MA
- 1995-97 M.M.Sc. (Master of Medical Sciences); Harvard Medical School; Boston, MA

Appointments

- 1991-1992 Internist in private practice, Huntington Medical Group, Pasadena, CA
- 1993-1995 Graduate Assistant in Medicine, Massachusetts General Hospital, Boston, MA
- 1993-1997 Residency in Medicine, McLean Hospital, Belmont, MA
- 1995-1997 Instructor in Neurology, Harvard University, Boston, MA
- Postdoctoral Fellow, Massachusetts Institute of Technology, Cambridge, MA
- 1995-1996 Clinical & Research Fellow, Massachusetts General Hospital
- 1996-1997 Graduate Assistant in Neurology, Massachusetts General Hospital
- 1997-1998 Staff Neurologist, Seattle VA, Seattle, WA
- 1997-2002 Assistant Professor in Neurology, University of Washington, Seattle, WA
- 2002-2017 Affiliate Asst. Professor in Neurology, University of Washington
- 2002-2005 Assistant Professor in Neurology, University of California, Irvine, CA
- 2003 Director, Neuroimaging Core, UCI General Clinical Research Center
- Assistant Professor in Anatomy and Neurobiology, Univ. of California, Irvine
- Co-director, Clinical Stroke Service, UC Irvine
- 2004-2019 Associate, Reeve-Irvine Research Center, UC Irvine
- 2005-2019 Member, Institute for Brain Aging and Dementia, UC Irvine
- 2005-2010 Associate Professor in Neurology, UC Irvine
- Associate Professor in Anatomy and Neurobiology, UC Irvine
- 2006 Executive Committee, UC Irvine Alzheimer's Disease Research Center
- 2006-2009 Director, Stroke Center, UC Irvine
- Associate Clinical Director, U.C. Irvine Stem Cell Research Center
- Clinical Director, Sue & Bill Gross Stem Cell Research Center, UC Irvine
- 2010-2018 Professor in Neurology and Anatomy & Neurobiology, UC Irvine
- 2010-2019 Member, Stroke Leadership Committee, American Heart Association
- 2011-2013 Vice-Chair of Research, Dept. Neurology, UC Irvine
- 2014 Interim Director, UC Irvine Comprehensive Stroke & Cerebrovascular Center
- 2014-2019 Associate Director, Institute for Clinical & Translational Science, UC Irvine
- 2018- Adjunct Professor of Neurology, University of Rochester
- 2019- Professor, Department of Neurology, University of California, Los Angeles
- Medical Director of Research, California Rehabilitation Institute
- Stroke Task Force, California Rehabilitation Institute
- Medical Executive Committee, California Rehabilitation Institute
- Stroke Steering Committee, Select Medical national organization
- Program Committee, California Rehabilitation Institute
- Quality and Patient Safety Committee, California Rehabilitation Institute
- Research Committee, California Rehabilitation Institute
- Science of Achievement in Rehabilitation Council, Calif. Rehab. Institute
- 2021- Member, UCLA Neuroscience Interdepartmental Program
- Member, Grand Rounds Committee, Dept. Neurology
- Program Director in Neurerehabilitation; Dept. Neurology, UCLA

IL7

Stroke Genetics

Stephanie Debette

Neurology, University of Bordeaux and Bordeaux
University Hospital, France

**Short biographt_ Prof. Stephanie Debette, MD, PhD**

Stéphanie Debette, MD PhD, is Professor of Epidemiology/Public Health at the university of Bordeaux and practicing Neurologist at Bordeaux University Hospital. She serves as the current Director of the Bordeaux Population Health research center (University of Bordeaux – Inserm U1219). Prof. Debette has been leading large collaborative genomic and epidemiological studies on stroke, cognitive traits, and imaging markers of brain aging, especially cerebral small vessel disease, aiming to decipher the molecular mechanisms underlying brain aging and to improve prevention and treatment of stroke and dementia. Prof. Debette has been leading a European Research Council grant, is principal investigator of a large national investment for the future grant on cerebral small vessel disease (RHU-SHIVA) and has been coordinating or contributes to several European grants (JPND-BRIDGET, ENLIGHT-RISE...). She was awarded the Claude Pompidou Foundation prize for dementia research, the scientific excellence award of the European Stroke Organization, and the National Order of Merit medal. A former Fulbright and Bettencourt-Schueller fellow and adjunct associate professor at Boston University, she was a visiting professor at Kyoto University. She serves in the research steering committee of the CHARGE consortium and chaired the International Stroke Genetics Consortium (ISGC) between 2017 and 2019. She also served as vice-president for external relations at the University of Bordeaux (2018-22) and was the inaugural chair of the ENLIGHT European University Alliance board of directors (2019-22).

IL8

Endovascular thrombectomy for acute ischemic stroke: the role of periprocedural medication

Diederik WJ Dippel

Erasmus University Medical Center, The Netherlands



Neurologist, Professor of acute treatment of neurovascular diseases
Co-director of the Erasmus MC Stroke Center
www.strokecenter.nl

Diederik WJ Dippel is a vascular neurologist and professor of acute treatment of neurovascular diseases. He wrote a PhD thesis on decision analysis in the clinical neurosciences. He has (co-) authored more than 500 scientific papers on stroke diagnosis and treatment.

He was PI of several investigator-driven multicenter randomized clinical trials including PAIS (Paracetamol in acute ischemic stroke) and PRACTISE on implementation of IV thrombolysis in the Netherlands, and the game-changing MR CLEAN (Multicenter Randomized Clinical trial of Endovascular treatment for acute ischemic stroke in the Netherlands) and the subsequent MR CLEAN Registry.

He is now Research Leader of CONTRAST, the Collaboration for New Treatments for Acute Stroke, a large private-public funded body uniting clinical and experimental academic stroke investigators in the Netherlands, Belgium and France. He is Co-PI of the multicenter MR CLEAN MED and DUMAS trials. He serves on several DSMBs.

IL9

Anticoagulation after stroke: current evidence and remaining challenges

Urs Martin Fischer

Department of Neurology, University Hospital Basel, Switzerland

**Curriculum vitae**

Prof. Urs Fischer is the Chairman of the Department of Neurology at the University Hospital Basel, Switzerland. Urs Fischer studied in Bern, London, San Francisco and Lomé and graduated in 2000. In 2008/2009, he performed a “Master of Science by Research in Clinical Neurology” at the University of Oxford. In 2015 he was elected as “Professor for Acute Neurology and Stroke” at the University of Bern. Since August 2021, he is chairing the Department of Neurology in Basel.

Urs Fischer is a clinical researcher and his main research interest involves diagnosis, management, treatment and outcome of patients with acute neurological diseases, especially of patients with acute ischemic and hemorrhagic stroke. He is principal investigator of several international multicenter academic trials on the management of patients with ischaemic and haemorrhagic stroke. The **SWIFT DIRECT trial** (www.swift-direct.ch) has assessed whether adding intravenous thrombolysis to mechanical thrombectomy improves the patient outcome compared to direct mechanical thrombectomy alone (paper accepted for publication in The Lancet). The **ELAN trial** (www.elan-trial.ch) assesses when oral anticoagulation with direct oral anticoagulants in stroke patients with atrial fibrillation can be introduced. The **SWITCH trial** (www.switch-trial.ch) investigates whether decompressive craniectomy in addition to the best medical treatment is superior to best medical treatment alone for patients with intracerebral haemorrhage. The **DISTAL trial** aims to assess, whether mechanical thrombectomy in addition to best medical treatment in patients with distal, medium vessel occlusion (dMEVO, defined as an occlusion of the co- or non-dominant M2, M3 or M4, A2 or A3, P1, P2 or P3) is superior to best medical treatment alone. The **TECNO trial** aims to determine the safety and efficacy of intraarterial Tenecteplase in patients experiencing an acute ischemic stroke due to a large vessel occlusion with incomplete reperfusion with residual occlusions after mechanical thrombectomy.

Urs Fischer is active in National and European Stroke Societies: he is the former Secretary General of the European Stroke Organisation (ESO), treasurer of the Swiss Neurological Society (SNG), member of the programme committee of the European Academy of Neurology (EAN), and he is co-founder the ESO ESMINT ESNR Stroke Winter School. Together with his colleagues of the stroke center Bern he is currently establishing the European Stroke Master Program, which started in 2022.

IL10

Flow Diverter Treatment for Dissecting Aneurysms in the Posterior Circulation

Christoph J. Griessenauer

Christian Doppler Clinic, Department of Neurosurgery,
Paracelsus Medical University, Austria



Graduate/Professional School

Master of Business Administration, M.B.A.	05/2020–current
Penn State World Campus	
The Pennsylvania State University	
Smeal College of Business	
Medical School, M.D.	09/2003–07/2008
Paracelsus Medical University, Salzburg, Austria	
Research Fellowship	11/2005–03/2006
Department of Surgery, Yale University, New Haven, CT	

Graduate Medical Education

Residency in Neurosurgery	06/2009–06/2015
Department of Neurosurgery, University of Alabama at Birmingham, AL	
Chief Residency in Neurosurgery	07/2013–06/2015
Department of Neurosurgery, University of Alabama at Birmingham, AL	
Neurovascular Surgery/Endovascular Neurosurgery Fellowship	07/2015–01/2017
Division of Neurosurgery, Department of Surgery	
Beth Israel Deaconess Medical Center, Harvard University, Boston, MA	

Postdoctoral Fellowship Experience

Postdoctoral Fellowship	08/2008–05/2009
Department of Neurosurgery, Neural Engineering Laboratory	
Mayo Clinic, Rochester, MN	

Academic

Professor of Neurosurgery (Univ.-Prof.)	09/2021–current
Christian Doppler Clinic, Paracelsus Medical University, Salzburg, Austria	
Privatdozent (Priv.-Doz)	03/2020–09/2021
Paracelsus Medical University, Salzburg, Austria	
Associate Professor of Neurosurgery	09/2019–07/2021
Geisinger Commonwealth School of Medicine	
Clinical Associate Professor of Neurosurgery	05/2018–08/2019
Department of Clinical Sciences, Geisinger Commonwealth School of Medicine	
Clinical Assistant Professor	09/2017–06/2020
Department of Neurosurgery, Lewis Katz School of Medicine, Temple University	
Research collaborator	10/2017–current
Research Institute of Neurointervention	
Paracelsus Medical University, Salzburg, Austria	
Clinical Assistant Professor of Neurosurgery	12/2017–04/2018
Department of Clinical Sciences, Geisinger Commonwealth School of Medicine	
Research collaborator	01/2017–01/2018
Division of Neurosurgery, Department of Surgery	
Beth Israel Deaconess Medical Center, Harvard University, Boston, MA	

Hospital

Christian Doppler Clinic, Paracelsus Medical University	09/2021–current
Chairman, Department of Neurosurgery	
Director of Open and Endovascular Cerebrovascular Fellowship	07/2020–07/2021
Geisinger Medical Center, Danville, PA	
Director of Vascular and Endovascular Neurosurgery	09/2019–07/2021
Geisinger Medical Center, Danville, PA	
Geisinger Medical Center Performance Improvement Committee	
Neuroscience Institute Quality Leader	10/2017–07/2021
Attending physician	
Department of Neurosurgery	02/2017–07/2021
Geisinger Medical Center, Danville, PA	
Department of Neurosurgery	02/2017–07/2018
Geisinger Wyoming Valley, Wilkes-Barre, PA	
Select Specialty Hospital, Danville, PA	02/2017–07/2021

IL11

Translational Research of Intracranial Aneurysm

Tomoki Hashimoto

Barrow Neurological Institute, USA



Professor of Neuroanesthesia and Neurobiology
 Director of Translational Neurovascular Research
 Barrow Aneurysm and AVM Research Center
 Department of Neurosurgery and Neurobiology
 Barrow Neurological Institute

EDUCATION

1986 - 1992 Gifu University School of Medicine, Japan	MD
1992 - 1995 Gifu University Hospital, Japan	Resident Anesthesia
1995 - 1996 Chestnut Hill Hospital, Philadelphia, PA	Internship Transitional Year
1996 - 1997 Thomas Jefferson University Hospital, Philadelphia, PA	Resident Anesthesia
1997 - 1998 Columbia-Presbyterian Medical Center, Columbia University, New York, NY	Resident Anesthesia
1998 - 1999 Columbia-Presbyterian Medical Center, Columbia University, New York, NY	Chief Resident Anesthesia
1999 - 2000 Columbia-Presbyterian Medical Center, Columbia University, New York, NY	Fellow Neuro-anesthesia (clinical)
2000 - 2001 University of California, San Francisco	Fellow Neuro-anesthesia (clinical/research)

PRINCIPAL POSITIONS HELD

2001 - 2001 University of California, San Francisco	Adjunct Assistant Professor	Anesthesia (08/12/2001)
2001 - 2007 University of California, San Francisco	Assistant Professor in Residence	Anesthesia (11/01/2001)
2007 - 2012 University of California, San Francisco	Associate Professor in Residence	Anesthesia (07/01/2012)
2012 - 2018 University of California, San Francisco	Professor in Ladder Rank (tenured)	Anesthesia (07/01/2012)
2015 - 2018 University of California, San Francisco	Professor	Neurological Surgery (joint appointment) (07/01/2015)
2018 - Present Barrow Neurological Institute, Phoenix	Professor	Neuroanesthesiology Neurobiology

IL12

Therapeutic mitochondria transplantation in stroke and future perspectives

Kazuhide Hayakawa

Massachusetts General Hospital / Harvard Medical School, USA



Education

2003	B.A.	Pharmaceutical sciences (Supervisor: Prof. Michihiro Fujiwara)	Fukuoka University, Fukuoka, Japan
2005	M.S.	Neuropharmacology (Supervisor: Prof. Michihiro Fujiwara)	Grad. Sch. Pharmaceutical Sciences, Fukuoka University, Fukuoka, Japan
2008	Ph.D.	Neuropharmacology (Supervisor: Prof. Michihiro Fujiwara)	Grad. Sch. Pharmaceutical Sciences, Fukuoka University, Fukuoka, Japan

Postdoctoral Training

Apr 2008 – Mar 2009	Research Fellow	Advanced Materials Institute, Fukuoka University
Apr 2009 – Jan 2013	Research Fellow	Harvard Medical School/ Massachusetts General Hospital
Feb 2013- Jan 2016	Instructor in Radiology Assistant neuroscientist	Harvard Medical School/ Massachusetts General Hospital
Feb 2016- present	Assistant professor in Radiology	Harvard Medical School/ Massachusetts General Hospital

Faculty Academic Appointments

Feb 2013- Jan 2016	Instructor in Radiology	Harvard Medical School
Feb 2016 - present	Assistant professor in Radiology	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

Feb 2013- present	Assistant neuroscientist	Massachusetts General Hospital
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Professional Societies

2005 - present	Member	Society for Neuroscience
2018 - present	Member	The international Society of Cerebral Blood Flow and Metabolism

IL13

Transcarotid artery revascularization for carotid artery disease

Vikram S. Kashyap

University Hospitals Case Medical Center, USA



Vikram Kashyap, MD, FACS, is the Frederik Meijer Chair, Meijer Heart and Vascular Institute, and the Vice President for Cardiovascular Health at Spectrum Health, Grand Rapids MI. He leads a collaborative, multidisciplinary Institute of 983 surgeons, cardiologists, intensive care experts, advanced practice providers, nurses, technologists, and staff. This team performed >4000 surgical procedures, >15,800 catheterizations, and >93,000 cardiovascular imaging studies in 2021. His operational team is focused on optimizing quality, increasing volume and market growth, and insuring great outcomes.

Dr. Kashyap completed his undergraduate work at The Pennsylvania State University, earning a B.S. with High Distinction and received his medical degree from the Jefferson Medical College in Philadelphia, PA in a combined 6-year program. He was inducted into the Alpha Omega Alpha Medical Honor Society. Upon graduation in 1990, he received the William F. Kellow Prize for "exemplifying the attributes of an ideal physician."

He completed his internship and residency in Surgery at Massachusetts General Hospital, Harvard Medical School in Boston from 1990-97. He was selected for a research fellowship at the National Heart, Lung and Blood Institute in Bethesda, MD to study atherogenesis, followed by a Vascular and Endovascular Surgery Fellowship at the University of California, Los Angeles. Dr. Kashyap was Chief of Vascular Surgery at Wilford Hall Medical Center at Lackland Air Force Base, Texas from 1999-2003. He was commissioned as an officer in the US Air Force and rose to the rank of Lt. Col. He was attached to the White House Medical Unit and provided medical support for overseas trips by President Clinton.

Dr. Kashyap was recruited to Cleveland and was on the staff of the Cleveland Clinic from 2003 to 2011. From 2011-2022, he was the Chief of the Division of Vascular Surgery and Endovascular Therapy and the Co-Director, Vascular Center of the Harrington Heart & Vascular Institute at University Hospitals Cleveland Medical Center, Cleveland, Ohio. He was Professor of Surgery in the Case Western Reserve University School of Medicine and was appointed the Alan H. Markowitz MD Endowed Chair in Cardiovascular Surgery. Dr. Kashyap's specialty interests include endovascular therapies, cerebrovascular disease, aortic pathologies and atherosclerotic occlusive disease. He is board-certified in vascular surgery.

His research interests include atherosclerosis, thrombosis and cerebrovascular disease. He is Principal Investigator of several clinical studies of new vascular stents, grafts and prostheses. He leads a national trial on trans-carotid artery revascularization. He is widely published in peer-reviewed medical journals and has authored or co-authored more than 200 articles and book chapters.

Dr. Kashyap is a Fellow of the American College of Surgeons. He is a Distinguished Fellow of the Society for Vascular Surgery. He is a Past President of the Vascular and Endovascular Surgery Society (formerly Peripheral Vascular Surgery Society) and Past President of the Cleveland Vascular Society. Other professional society affiliations include the American Surgical Association, and the Society for Clinical Vascular Surgery.

Dr. Kashyap is listed in Guide to America's Top Surgeons and one of Cleveland's Top Doctors for nearly a decade. He was in the inaugural Leadership Academy sponsored by University Hospitals and Case Western Reserve University Weatherhead School of Management. In his free time, he enjoys tennis and competed in the 2010 USTA National Championships with Cleveland Racquet Club's Men's Team.

IL14

Current Trends in Cerebrovascular Surgery in Korea

Jeong Eun Kim

Department of Neurosurgery, Seoul National University
College of Medicine, Republic of Korea



EDUCATION:

- 1987-1989 Seoul National University College of Liberal Arts and Sciences, Seoul, Korea
- 1989-1993 Seoul National University College of Medicine, Seoul, Korea, B.S. (Medicine)
- 1996-1998 Seoul National University Postgraduate School, Seoul, Korea, M.S. (Medicine)
- 2001-2003 Seoul National University Postgraduate School, Seoul, Korea, Ph.D. (Medicine)

POSTGRADUATE TRAINING:

- 1993-1994 Intern, Seoul National University Hospital, Seoul, Korea
- 1994-1998 Resident, the Department of Neurosurgery, Seoul National University Hospital, Seoul, Korea

ACADEMIC AND HOSPITAL APPOINTMENT

- 2021-present Dean, Seoul National University College of Medicine, Seoul, Korea
- 2016-present Professor, Department of Neurosurgery, Seoul National University College of Medicine, Seoul, Korea
- 2011-2016 Associate Professor, Department of Neurosurgery, Seoul National University College of Medicine, Seoul, Korea
- 2008-2010 Visiting Professor, Department of Neurosurgery, Brigham and Women's University, Harvard Medical School, Boston, Massachusetts, USA
- 2006-2011 Assistant Professor, Department of Neurosurgery, Seoul National University College of Medicine, Seoul, Korea
- 2003-2006 Assistant Professor, Department of Neurosurgery, Seoul National University Hospital, Seoul, Korea
- 2002-2003 Instructor, Department of Neurosurgery, Cheju National University College of Medicine, Jeju, Korea
- 2001-2002 Clinical Fellow, Department of Neurosurgery, Seoul National University Hospital, Seoul, Korea
- 2000-2001 Public Health Doctor, Masan Medical Center, Masan, Korea (obligatory military service)
- 1998-2000 Public Health Doctor, Jinju Public Health Center, Jinu, Korea (obligatory military service)

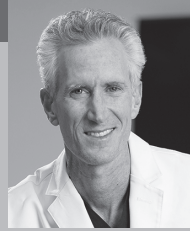
ADMINISTRATIVE APPOINTMENTS

- 2021-present Director, Academic Committee of the Korean Association of Medical Colleges
- 2019-present Member, Supervisory Board of the Korean Society of Cerebrovascular Surgeons
- 2018-2019 Secretary, the Korean Society of Cerebrovascular Surgeons
- 2013-2017 Director, the Committee for Clinical Practice Guideline of the Korean Society of Cerebrovascular Surgeons
- 2013-2014 Member, the Publishing Committee of the Korean Neurosurgical Society
- 2013-2014 Secretary, the Korean Neurotraumatology Society
- 2012-2013 Director, the Committee for Clinical Practice Guideline of the Korean Neurotraumatology Society
- 2011-2012 Member, the Scientific Program Committee of the Korean Neurosurgical Society
- 2008-2013 Secretary, Scientific Committee for the 15th WFNS International Congress of Neurological Surgery in Seoul, Korea 2013
- 2004-2008 Member, the Bidding Committee for the 15th WFNS International Congress of Neurological Surgery in Seoul, Korea
- 2004-2006 Executive Secretary, International Relationship Committee of the Korean Neurosurgical Society

IL15

Surgical Management of Brain AVMs After ARUBA**Michael T Lawton**

Barrow Neurological Institute, USA

**BIOGRAPHY**

Michael T. Lawton, MD, is the president and chief executive officer of Barrow Neurological Institute, as well as its chairman of the Department of Neurological Surgery and the Robert F. Spetzler Endowed Chair in Neurosciences. Additionally, he is the chief of vascular and skull base neurosurgery at Barrow. He specializes in the surgical treatment of aneurysms, arteriovenous malformations, arteriovenous fistulas, cavernous malformations, and cerebral revascularization, including carotid endarterectomy. As the leader of the largest cerebrovascular center in the country, he has experience in surgically treating more than 5,200 brain aneurysms and over 1000 AVMs. He also practices skull base tumor surgery and is trained in the endovascular treatment of aneurysms.

Dr. Lawton co-directs and conducts his research at the Barrow Aneurysm and AVM Research Center (BAARC), a collaborative research group funded by grants from the National Institutes of Health that investigates the physiology of cerebral circulation and the pathophysiology of vascular malformations. His basic science investigations focus on the formation, underlying genetics, and rupture of brain AVMs, as well as the hemodynamics, rupture, and computational modeling of brain aneurysms. His clinical investigations study the anatomy of microsurgical approaches to vascular lesions and the outcomes of aneurysm, AVM, and bypass surgery. He is the principal investigator of a NIH U54 grant and program director of the Brain Vascular Malformation Consortium (BVMC), a multicenter group studying malformations associated with hereditary hemorrhagic telangiectasia, cavernous malformations, and Sturge-Weber syndrome.

He has published over 800 peer-reviewed articles, over 100 book chapters, and six textbooks, including *Seven AVMs: Tenets and Techniques for Resection*, *Seven Bypasses: Tenets and Techniques for Revascularization*, and *Seven Aneurysms: Tenets and Techniques for Clipping*, which has won numerous awards and sold more copies than Yasargil's *Microneurosurgery*. Dr. Lawton's accolades include the Young Neurosurgeon Award from the World Federation of Neurological Societies, the Harold Rosegay Teaching Award, the Diane Ralston Clinical and Basic Science Teaching Award, and an Impact Award as Exceptional Innovator from the Greater Phoenix Chamber (2019). He has given over 1,000 invited lectures nationally and internationally, including visiting professorships at over 60 neurosurgical institutions. He has been active in resident teaching, directing the CNS Anatomy Course for Senior Residents, co-directing the AANS Vascular Skills Course, and directing industry-sponsored anatomy courses. He sponsors an observership in vascular neurosurgery that has hosted more the 200 neurosurgeons and residents nationally and internationally. He co-founded Mission:BRAIN, a teaching mission to raise the level of neurosurgery practiced in developing countries, and has conducted eight missions in Mexico, the Philippines, and Peru.

IL16

Reactive astrocyte heterogeneity in neurodegenerative disease and following stroke

Shane Antony Liddelow

NYU Grossman School of Medicine, USA



Assistant Professor Neuroscience Institute
Department of Neuroscience and Physiology
Department of Ophthalmology
Co-Director Parekh Center for Interdisciplinary Neurology

Current Appointments and Leadership Positions

01/2021 Co-Director, Parekh Center for Interdisciplinary Neurology
02/2018 Neuroscience Institute, NYU Grossman School of Medicine, New York, NY. Assistant Professor Departments of Neuroscience & Physiology and Ophthalmology
02/2019 Founder and SAB member, AstronauTx Ltd., London, UK.
05/2021 Co-Director, Parekh Center for Interdisciplinary Neurology, NYU Grossman School of Medicine, New York, NY.

Education and Training

Education (all at The University of Melbourne, Melbourne, Australia)

03/2007 Bachelor of Science, degree with honors (BSc(Hons))
03/2007 Bachelor of Biomedical Science (BBiomedSc)
05/2011 Doctor of Philosophy (PhD), Saunders & Dziegielewska lab (Pharmacology)

Postdoctoral Training

02/2012–02/2018 Ben Barres Lab, Stanford University, Stanford, CA. (Department of Neurobiology)

IL17

Mapping the Collaterome in Acute Ischemic Stroke**David S Liebeskind**Department of Neurology, University of California,
Los Angeles, USA

David is Professor of Neurology at the University of California, Los Angeles (UCLA) where he is Director of the UCLA Stroke Center. He is Director of the Neurovascular Imaging Research Core, leading global efforts to advance data science and precision medicine of stroke imaging for prevention, acute therapies and recovery after stroke.

He is Director of the UCLA Cerebral Blood Flow Laboratory, Director of Outpatient Stroke and Neurovascular Programs and Director of the UCLA Vascular Neurology Residency Program, training the next generation of vascular neurologists and stroke experts.

He trained in chemical engineering at Columbia University and completed his MD at New York University School of Medicine. Postgraduate medical training included internship at Beth Israel Hospital, Boston and neurology residency at UCLA. After his residency, he completed a fellowship in stroke and cerebrovascular disease at UCLA and subsequently joined the faculty in the Departments of Neurology and Radiology at the University of Pennsylvania. He has advanced education, research and clinical care of stroke at UCLA since 2004.

He has maintained extensive clinical activity across a broad range of cerebrovascular disorders ranging from carotid disease to unusual causes of stroke. Clinical expertise includes cerebral venous thrombosis, arterial dissection, moyamoya syndrome and other causes of stroke in the young. His principal research interests include novel neuroimaging approaches to elucidate fundamental pathophysiology of cerebrovascular disease in humans with a particular focus on the collateral circulation. His work on collateral perfusion in acute ischemic stroke draws on advances in noninvasive, multimodal CT and MRI and detailed analyses of digital subtraction angiography.

As Director of the Neurovascular Imaging Research Core, he runs an angiography and imaging core laboratory with extensive experience over 2 decades of multicenter and global stroke trials, largescale registries and many other stroke studies. His research on collaterals in intracranial atherosclerosis complements his work on acute stroke, utilizing computational fluid dynamic modeling and estimates of fractional flow to predict risk of ischemia and reperfusion hemorrhage. He has intertwined his scientific research and clinical interests in the longitudinal evaluation of blood flow in cerebrovascular disorders to help improve outcomes of all stroke patients.

He currently serves as a member of the WSO Board of Directors, volunteering his experience and interests in advancing stroke care around the world. He directs the annual International Symposium on Collaterals to the Brain (www.collateralperfusion.org) where a diverse array of colleagues and collaborators meet in person and remotely from around the world to advance the science and practice of hemodynamics in cerebrovascular health. Other leadership roles currently include his position as Past-President of the Society of Vascular and Interventional Neurology (SVIN) and Past-President of the American Society of Neuroimaging (ASN).

IL18

Current perspectives for the use of flow diversion stents in intracranial aneurysm treatment

Markus Alfred Möhlenbruch

Heidelberg University Hospital, Department of
Neuroradiology, Germany



ACADEMIC/SCIENTIFIC EDUCATION & QUALIFICATION

09/2021	Full Professor (W3) of Interventional Neuroradiology
09/2017	Privatdozent (PD) for Radiology (Mentor: Prof. Dr. Martin Bendszus), Ruprecht-Karls-University Heidelberg
02/2012	Unrestricted License to practice Radiology (Facharzt)
01/2009	Graduation as a Doctor of Medicine (Dr. med.), Johannes-Gutenberg-University Mainz
10/2005	Unrestricted License to practice Medicine (Approbation)
1999-2005	Study of Medicine at the Johannes-Gutenberg-University Mainz

PROFESSIONAL EXPERIENCE

Since 2021	Head of MINTZ, Heidelberg University Hospital
Since 2013	Section Chief of Interventional Neuroradiology, Heidelberg University Hospital
Since 2011	Consultant at the Department of Neuroradiology, Heidelberg University Hospital
2007-2011	Resident, Department of Radiology, University Hospital Bonn
2007	Resident, Department of Radiology, University Hospital Cologne
2005-2006	Resident, Department of Neurosurgery, University Hospital Frankfurt

OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

Since 2016	Member of the extended panel of the German Society of Neuroradiology
Since 2012	Reviewer for AJNR, JNIS, Neuroradiology, Clinical Neuroradiology, Stroke, Plus One, Interventional Neuroradiology, DFG
01/2019	Fellow of European Board of Neurointervention (EBNI)
07/2013	Higher Qualification in Endovascular Interventional Neuroradiology, European Society of Neuroradiology
09/2011	European Board of Interventional Radiology (EBIR), Cardiovascular and Interventional Radiological Society of Europe
11/2010	Certificate of Pierre Lasjaunias Neurovascular Educational Team Course PLANET 2010, Faculty of Medicine, University of Toronto

IL19

Shorten time from onset to reperfusion

Marc Ribo

Unitat Neurovascular, Servei de Neurologia (9a planta Hospital General), Hospital Vall d'Hebron, Spain



Marc Ribo is an interventional neurologist from Hospital Vall d'Hebron in Barcelona that underwent a vascular neurology fellowship at University of Texas-Houston (2004-5). His research work over the last 20 years was focused on improving access and efficacy of reperfusion treatments for acute stroke. He has a special interest in coordinating acute stroke management at the prehospital setting, integrating prehospital scales, telemedicine systems and artificial intelligence based solutions. He is the Co-Pi of the RACECAT study. He also has a special interest in improving in hospital workflows such as direct transfer to angio-suite (CO-PI of the ANGIOCAT and WE TRUST studies). He contributed to the growth of endovascular treatment of stroke exploring new selection protocols and novel devices. He is the Co-founder of Anaconda Biomed.

IL20

Clinical Implications of Vessel Wall Imaging in Stroke

Tobias Saam

Die Radiologie - Rosenheim, Germany



Current Profession: Radiologist, Die Radiologie
"Außerplanmäßiger Professor" at Institute of Clinical Radiology Ludwig-Maximilians-University Hospital, Munich

University Education / Medical School:

04/94-06/01: Medical School, Ruprecht-Karls-University of Heidelberg, Germany
June 2001: Final German Medical State Examination and Graduation

VOCATIONAL TRAINING

08/92-03/94 CIVIL SERVICE, Education and working as a Paramedic for the German Red Cross

Postgraduate Education:

07/01-01/03: Residency in Radiology, Department of Radiology, Ruprecht-Karls-University of Heidelberg, Germany
02/03-02/06: Senior Research Fellowship Cardiovascular Imaging, Vascular Imaging Lab, University of Washington, Seattle, WA, USA
Since 04/06: Residency in Radiology, Institute of Clinical Radiology, Ludwig-Maximilians-University Hospital, Munich, Germany
Since 06/10: Head of the research group "Plaque Imaging" at the Ludwig-Maximilians-University Hospital, Munich, Germany
Since 04/11: Attending Radiologist, Institute of Clinical Radiology, Ludwig-Maximilians-University Hospital, Munich, Germany
Since 7/14: Head of the MRI Division in Downtown Campus, Institute of Clinical Radiology, Ludwig-Maximilians-University Hospital, Munich, Germany
Since 07/15: "Freiberuflicher Radiologe mit Kassenarztsitz" in Rosenheim, Germany

Certifications:

06/01: German Medical license
10/03: Medical thesis (magna cum laude) of the Ruprecht-Karls-University, Heidelberg, Germany, Department of Internal Medicine for the scientific work entitled
"The Effect of Endothelin blockade on cardiovascular remodeling in the one clip - two kidney hypertension of the rat"
06/10: Habilitation thesis and Venia legendi of the Ludwig-Maximilians-University for the scientific work entitled: „Methodological development and clinical evaluation of high-resolution Magnetic Resonance Imaging of Atherosclerotic Carotid Plaques“
07/15: Apl-Professor of the Ludwig-Maximilian-University Munich
08/18: MHBA = Master of Health Business Administration

Foreign clinical experience:

1998: Emergency Medicine at the University of Montpellier, France (1 month)
1998: Gynecology & Obstetrics at the University of Natal, Durban, South Africa (3 months)
2000: Internal Medicine at the Mount Sinai School of Medicine, New York (2 months)
2001: Surgery at the University of Chile, Santiago de Chile

Scientific Fields of Interest

Cardiovascular CT / Cardiovascular MRI, Plaque Imaging, Black-blood-Imaging

IL21

PFO Closure in High-Risk Patients: What We Now Know and What We Still Need to Know

Jeffrey Saver

University of California, Los Angeles, USA



Dr. Saver is SA Vice-Chair and Professor of Neurology at UCLA, and Director of the UCLA Comprehensive Stroke and Vascular Neurology Program. Author of over 750 research articles, 3 books, and 40 book chapters, Dr. Saver's research interests are in acute stroke treatment, stroke prevention, neuroimaging, clinical trial design, and neurocognitive consequences of stroke. He served as PI of the NIH-NINDS FAST-MAG trial, Global Co-PI of the SWIFT PRIME trial, and Chair of the American Heart Association Stroke Council. He is currently Associate Editor at *JAMA*, the *Journal of the American Medical Association*, and Editorial Board Member at the journal *Circulation*. Dr. Saver has been the recipient of several major national and international Awards, including the American Heart Association's Distinguished Scientist Award, the US Clinical Research Foundation's Clinical Research Award, the World Stroke Organization Lifetime Research Award, and being inducted as an honorary fellow of European and Australasian Stroke Societies. Dr. Saver has trained over 40 postdoctoral fellows in stroke, many now themselves leaders of stroke research and care worldwide.

IL22

Lessons from Stem Cell Clinical Trials and Future Studies

Sean I. Savitz

The University of Texas Health Science Center at Houston (UTHealth), USA



PRESENT TITLE: Professor of Neurology with Tenure; Frank M. Yatsu Chair in Neurology

UNDERGRADUATE EDUCATION:
06/1995 B.A., Harvard University

GRADUATE EDUCATION:
06/2000 M.D., Albert Einstein College of Medicine

POSTGRADUATE TRAINING:
07/2000-06/2001 Intern in Medicine, Beth Israel Deaconess Medical Center, Boston, MA
07/2001-07/2003 Resident in Neurology, Beth Israel Deaconess Medical Center and Children's Hospital, Boston, MA
07/2003-06/2004 Administrative Chief Resident, Beth Israel Deaconess Medical Center, Boston, MA
07/2004-06/2005 Fellow in Cerebrovascular Disease under Dr. Louis Caplan, Beth Israel Deaconess Medical Center, Boston, MA

ACADEMIC APPOINTMENTS:
09/2004-08/2005 Instructor in Neurology, Harvard Medical School
09/2005-08/2007 Assistant Professor of Neurology, Harvard Medical School
09/2007-08/2009 Assistant Professor of Neurology, McGovern Medical School, UTHealth-Houston
09/2009-08/2012 Associate Professor of Neurology, McGovern Medical School, UTHealth-Houston
09/2012- Professor of Neurology with Tenure, McGovern Medical School, UTHealth-Houston
09/2013- Frank M. Yatsu Chair in Neurology, McGovern Medical School, UTHealth-Houston
09/2018- Adjunct Professor, Department of Physical Medicine and Rehabilitation, UTHealth

ADMINISTRATIVE AND HOSPITAL APPOINTMENTS:
07/2004-06/2007 Attending Physician in Neurology and Stroke, Beth Israel Deaconess Medical Center, Boston, MA
09/2007- Attending Physician in Neurology and Stroke, Memorial Hermann Hospital-Texas Medical Center
07/2007-06/2014 Director, ACGME Vascular Neurology Fellowship Training Program
09/2007-08/2012 Director, Translational Stroke Research, McGovern Medical School, UTHealth-Houston
09/2007-08/2012 Co-Director, Stroke Program, McGovern Medical School, UTHealth-Houston
09/2012-09/2021 Director, Stroke Program, McGovern Medical School at UTHealth
01/2013-12/2020 Medical Director, Joint Commission Certified Comprehensive Stroke Center, Memorial Hermann Texas Medical Center Hospital
01/2017-12/2021 Medical Director, Joint Commission Certified Memorial Hermann Healthcare Stroke System
02/2017- Director, Institute for Stroke and Cerebrovascular Disease, UTHealth

IL23

Flow Diverter Stent Update

Adnan H. Siddiqui

University at Buffalo, USA



Education:

Ph.D: University of Rochester School of Medicine and Dentistry, 2003; Neuroscience
M.S.: University of Rochester School of Medicine and Dentistry, 1997; Neuroscience
M.B, B.S.: Aga Khan University Medical College, 1992; Medicine, Surgery
Secondary Certificate of Higher Education: S.M. Science College, 1986; Botany, Zoology, Physics and Chemistry

Fellow in Cerebrovascular Surgery Interventional Neuroradiology and Neurocritical Care, Thomas Jefferson University Department of Neurosurgery, 2005-2006

Chief Resident in Neurosurgery, SUNY Upstate Medical University, 2004-2005

Resident in Pediatric Neurosurgery, Children's Hospital, Boston, MA, 2004

Resident in Neurosurgery, SUNY Upstate Medical University, 1999-2004

Intern in Surgery, SUNY Upstate Medical University, 1998-1999

Resident in Neurology, University of Rochester School of Medicine and Dentistry, 1998

Post Doctoral Research Fellow, University of Rochester School of Medicine and Dentistry, 1993-1994

Clinical Clerkship in Neurosurgery Sub-internship on the Neurotrauma Service, Presbyterian University Hospital, University of Pittsburgh, 1992

Clinical Clerkship in Neurosurgery Sub-internship on the Neurosurgical Service, Pennsylvania State University, 1992

Professional Appointments:

University at Buffalo

Professor and Vice-Chairman of Neurosurgery 7/14 – Present

Director, Canon Stroke and Vascular Research Center, 7/12 – Present

Associate Professor and Vice-Chairman of Neurosurgery 7/13 – 7/14

Associate Professor of Neurosurgery and Radiology 7/11 – 7/13

Assistant Professor of Neurosurgery and Radiology 1/07 – 7/11

Director of Neurosurgical Research 1/07 – Present

Kaleida Health

Director of Neuroendovascular Critical Care 1/07 – Present

Director of Neurosurgical Stroke Service 1/07 – Present

Director of Neuroendovascular Fellowship Program 7/13 – Present
(Kaleida Health and UB Neurosurgery)

Jacobs Institute

Chief Executive Officer 4/2021 - Present

Chief Medical Officer 6/2016 – Present

Director of Training & Education 7/2012 – 2016

SUNY Upstate Medical University, Department of Neurosurgery, Syracuse, NY

Assistant Professor of Neurosurgery, Radiology, Neuroscience & Physiology
7/06- 12/06

Instructor of Neurosurgery 7/05-6/06

IL24

Timing for starting DOAC following acute ischemic stroke

Götz Thomalla

Department of Neurology University Medical Center
Hamburg- Eppendorf Hamburg, Germany



Götz Thomalla, MD, is professor (W3) for Imaging Based Clinical Stroke Research and acting director of the Department of Neurology, University Medical Center Hamburg-Eppendorf (UKE). He is also Vice Dean for Clinical Research and Translation at the Faculty of Medicine of the University of Hamburg. His key research areas are advanced brain imaging to study the pathophysiology of cerebral ischemia, development of imaging-based new treatment approaches, and brain network reorganization in cerebrovascular disease. He coordinates neurological research in the Hamburg City Health Study (HCHS) and is member of the HCHS Steering Committee. He was coordinating investigator of the guideline-changing WAKE-UP trial of MRI-guided thrombolysis for unknown onset stroke. He is founding coordinator of the German Stroke Trials Network and member of the Board of Directors of the European Stroke Association (ESO). His work is supported by DFG, EU, German Innovation Fund, and others. He is project leader in SFB936 “Multi-site communication in the brain” and FOR2791 “From immune cells to stroke recovery”.

IL25

Translation of PSD-95 inhibitors to phase 3 trials for the treatment of acute ischemic stroke / Treatment of brain arteriovenous malformations in the post-ARUBA era

Michael Tymianski

Department of Surgery, University of Toronto, Canada



Bio: Prof. Tymianski is a neurosurgeon and Senior Scientist, a Professor in the Dept of Surgery at the University of Toronto, and a Canada Research Chair in Translational Stroke Research. For 30 years he was a cerebrovascular and skull base neurosurgeon at the University of Toronto, where he was Chief of Neurosurgery at the University Health Network for 9 years. His most advanced scientific contribution is the development of PSD95 inhibitors, beginning with the discovery that PSD95, an abundant synaptic protein, is a therapeutic target for neurodegeneration. In 2012, Tymianski and his team published the first clinical trial supportive of neuroprotection by the PSD-95 inhibitor, nerinetide, in humans. His team completed the phase 3 ESCAPE-NA1 trial (NCT02930018) in 2020 and is currently conducting two further phase 3 trials of nerinetide, namely FRONTIER (NCT02315443) and ESCAPE-NEXT (NCT04462536), with the latter recruiting up to 1020 subjects globally.

IL26

Moyamoya Arteriopathy in German

Peter Georg Ladislaus Vajkoczy

Department of Neurosurgery, Charité
Universitätsmedizin Berlin, Germany



Prof VAJKOCZY is Full Professor and Chairman of the Department of Neurosurgery, Charité - Universitätsmedizin Berlin, Germany. His clinical special fields of interest are Neurovascular Surgery (Aneurysms, Bypass Surgery, AVMs), Skull Base Surgery (Pituitary Surgery, Posterior Fossa), Neurooncology (Complex Glioma Surgery) and Minimally Invasive Spine Surgery. His research fields are the pathogenesis and therapy of subarachnoid hemorrhage, the prevention and therapy of vasospasm, novel concepts of multimodality monitoring of neurocritically ill patients, arteriogenesis following vessel occlusion, cellular and molecular mechanisms of brain tumor angiogenesis, mechanisms of brain tumor cell migration and invasion, relevance of neuronal guidance molecules for brain tumor biology, as well as homing and recruitment of immune/hematopoietic cells to the nervous system.

Curriculum vitae:

Since 2007	Full Professor and Chairman of the Department of Neurosurgery, Charité Universitätsmedizin Berlin
2006	Associate Professor of Neurosurgery, University of Heidelberg
since 2001	Staff (Neurosurgery) at the Mannheim University Hospital
2001	Habilitation University of Heidelberg (Neurosurgery)
1995 - 2001	Residency (Neurosurgery) at the Mannheim University Hospital (Prof. Peter Schmiedek)
1992 - 1996	Ph.D. thesis, Institute for Surgical Research, University Hospital Grosshadern, University of Munich
1988 - 1995	Studies in medicine at the medical school in Munich (LMU)
1974 - 1987	Higher school education (Abitur) in Munich

Research fields

Our group is active in the field of neurooncology, cerebral ischemia and neurovascular biology with the following major areas:

- Cellular and molecular mechanisms of brain tumor angiogenesis
- Mechanisms of brain tumor cell migration and invasion
- Relevance of neuronal guidance molecules for brain tumor biology
- Homing and recruitment of immune/hematopoietic cells to the nervous system

IL27

Cerebral microbleeds: update from the Microbleeds International Collaborative Network (MICON)**David John Werring**

UCL Queen Square Institute of Neurology, UK

**CURRENT POST**

- October 2015- **Professor of Clinical Neurology (Personal Chair)**
Honorary Consultant Neurologist. UCL Institute of Neurology, Queen Square; and National Hospital for Neurology and Neurosurgery, University College Hospitals NHS Foundation Trust
- 2008-2015 **Reader in Clinical Neurology and Honorary Consultant Neurologist**

EDUCATION AND QUALIFICATIONS

- 1986-1992** MBBS and BSc (Hons) Neurosciences (Guy's Hospital Medical School)
- February 1995** MRCP (UK)
- December 2000** PhD Clinical Neurology (UCL Institute of Neurology)
- 2002-2003** Stroke Association Clinical Training Fellowship
- May 2004** CCST Neurology
- June 2012** FRCP

EXPERIENCE IN RESEARCH

- Experienced Chief Investigator for ongoing NIHR multicenter randomised controlled trials: PROHIBIT-ICH (n=112) and OPTIMAS (n>3400)
- Previously delivered large NIHR multicenter trials as CI including CROMIS-2 (Clinical Relevance of Microbleeds in Stroke; www.ucl.ac.uk/cromis-2); recruited > 2500 patients at 75 UK hospitals to time and target; aims to determine neuroimaging and genetic predictors of bleeding risk during oral anticoagulation for AF with a focus on cerebral microbleeds (CMBs).
- Chief Investigator for the successful Genetics and Observational Study of Subarachnoid Haemorrhage (>2500 patients)
- Principle Investigator, co-applicant, steering committee member for RESTART, TICH-2, TICH-3, LACI-2 (the largest randomized controlled trials of ICH and small vessel disease in the UK) and for RECAST-3
- Specialty Clinical Lead (North Thames) covering stroke research for ~10 million population
- Head of Research Department of Brain Repair and Rehabilitation, UCL Institute of Neurology
- Academic lead, UCL Stroke Research Centre
- Coordination of a research group: supervisor for PhD, MSc, postdoctoral students, visiting fellows

EXPERIENCE IN CLINICAL STROKE CARE

- I help deliver/develop the flagship UCH Comprehensive Stroke Service (treating >2,000 suspected strokes yearly) which performs in the top quartile of rigorous Stroke Improvement National Audit Program and local Cardiac and Stroke Network standards; as lead for training and research I strive to ensure that research is fully integrated into all patient pathways.
- I have set up new acute clinical pathways and clinics for patients with ICH including a new one-stop multidisciplinary clinic and new rapid reversal pathway for anticoagulant-related ICH.
- I am internationally recognized as a clinical expert in cerebral small vessel disease and intracerebral haemorrhage (ICH); invited keynote speaker nationally and internationally.

IL28

Systems approaches to study brain aging and neurodegeneration

Tony Wyss-Coray

The Phil and Penny Knight Initiative for Brain Resilience, Stanford University, USA



Stanford University

Department of Neurology and Neurological Sciences, Stanford University School of Medicine

ACADEMIC HISTORY

- 1984–1987 University of Bern, Microbiology, Undergraduate
- 1987–1989 University of Bern, Immunology, M.S.
- 1989–1992 University of Bern, Immunology, Ph.D., *Mentor: Dr. Werner Pichler*
- 1992–1993 University of Bern, Institute of Clinical Immunology, Postdoctoral Fellow
- 1993–1995 The Scripps Research Institute, Department of Neuropharmacology, Postdoctoral Fellow, *Mentor: Dr. Lennart Mucke*

POSITIONS AND EMPLOYMENT

- 1995 Senior Research Associate, Department of Neuropharmacology, The Scripps Research Institute
- 1996–1997 Adjunct Instructor, Department of Neurology, University of California San Francisco
- 1996–1999 Staff Research Scientist, Gladstone Institute of Neurological Disease, San Francisco
- 1997–2002 Assistant Adjunct Professor, University of California San Francisco
- 1999–2002 Staff Research Investigator, Gladstone Institute of Neurological Disease
- 2002–2007 Health Scientist, GRECC, Veterans Affairs Palo Alto Health Care System
- 2002–2005 Assistant Professor, Research, Department of Neurology and Neurological Sciences, Stanford University School of Medicine
- 2005–2011 Associate Professor, Research, Department of Neurology and Neurological Sciences, Stanford University School of Medicine
- 2007–2011 Research Career Scientist, Veterans Affairs Palo Alto Health Care System
- 2011–2020 Associate Director, Center for Tissue Regeneration, Repair and Restoration, Center of Excellence, Veterans Administration Rehabilitation R&D Service
- 2011–present Professor, University Tenure Line, Department of Neurology and Neurological Sciences, Stanford University School of Medicine
- 2011–2020 Senior Research Career Scientist, Veterans Affairs Palo Alto Health Care System
- 2015–2020 Co-Director, NIH Alzheimer's Disease Research Center, Stanford University
- 2018–present D. H. Chen Distinguished Professorship, Stanford University
- 2016 International Scientific Advisory Board, The Brain Forum
- 2016–2018 Scientific Advisory Board, E-Scape Bio, San Francisco
- 2019–present Scientific Advisory Board, InterVenn, Redwood City
- 2021–present Advisory Board, Pivotal Life Sciences Holdings, Hong Kong
- 2022–present Director, Phil and Penny Knight Initiative for Brain Resilience

IL29

Comparison of Care Processes and Outcomes among Japan and US Stroke Patients Receiving Reperfusion Therapy

Ying Xian

University of Texas Southwestern Medical Center,
United States



Education

- 1993-1999 Bachelor of Medicine, Medicine, Peking University Health Science Center (Beijing Medical University)
- 2003-2010 PhD, Health Services Research and Policy, University of Rochester

Postdoctoral Training

- 1999-2002 Resident, Internal Medicine, Fuwai Hospital, Peking Union Medical College; Peking University People's Hospital
- 2002-2003 Fellow, Cardiology, Fuwai Hospital, Peking Union Medical College
- 2010-2012 American Heart Association Pharmaceutical Roundtable-Spina Outcomes Research Fellow, Cardiovascular Outcomes Research, Duke Clinical Research Institute

Faculty Academic Appointments

- 2012 Assistant Professor of Medicine, Division of Clinical Pharmacology, Duke Clinical Research Institute, Duke University Medical Center
- 2015 Assistant Professor of Neurology, Department of Neurology, Duke University School of Medicine
- 2018 Associate Professor of Neurology, Department of Neurology, Duke University School of Medicine
- 2021 Associate Professor with Tenure, Department of Neurology, University of Texas Southwestern Medical Center
- 2021 Associate Professor with Tenure, Department of Population and Data Sciences, University of Texas Southwestern Medical Center

IL30

Pre-hospital stroke care: the new frontier

Geoffrey A. Donnan

Department of Neurology, University of Melbourne,
Australia



Professor Geoffrey Donnan, AO

Professor Donnan has made major contributions to our understanding of stroke including the identification of a number of unique clinical syndromes. He also made early contributions to the ascertainment of the incidence of stroke in Australia and the establishment of smoking, passive smoking and aortic arch atheroma as stroke risk factors. He has also significantly contributed to our understanding of the duration and evolution of viable tissue after stroke, the ischaemic penumbra.

He conducted, with others, the early clinical trials of thrombolysis in acute ischaemic stroke and was instrumental in its introduction as the first form of acute stroke therapy. More recently, he has been co-chair of trials of thrombectomy in acute ischemic stroke with Professor Stephen Davis and the establishment of Australia's first mobile stroke ambulance. Also with Professor Davis he co-leads the Australian Stroke Alliance, a collaborative group embracing many organisations and disciplines across Australia to advance prehospital stroke care, particularly using lightweight brain imaging devices on road and in air. This program has an emphasis on the benefits which may accrue to rural, remote and Indigenous communities.

Professor Donnan co-founded the Australian Stroke Trials Network, also with Professor Davis, one of the first of its type worldwide. They subsequently co-founded Neurosciences Trials Australia, incorporating neuroscience interest groups ranging from stroke to migraine and provided coordination and support for commercial and investigator driven clinical trials.

Professor Donnan is a former Director of The Florey Institute of Neuroscience and Mental Health and Head of the Florey Department of Neuroscience and Mental Health at the University of Melbourne. He is a Past President of the Stroke Society of Australasia, the Australian Association of Neurologists and the World Stroke Organization.

Professor Donnan has received a number of prestigious international awards including the William Feinberg Award (USA, 2007), World Stroke Organization Leadership Award (2012), Karolinska Institute Award (Sweden, 2012) and European Stroke Congress Wepfer Award (2014). He is a founding Fellow of the Australian Academy of Health and Medical Sciences. He was appointed as an Officer in the Order of Australia in recognition of his distinguished service to neurology and contributions to research.