



Nabil J. Alkayed, M.D., Ph.D

- Professor of Anesthesiology and Perioperative Medicine, School of Medicine
- Neuroscience Graduate Program, School of Medicine
- Program in Molecular and Cellular Biosciences, School of Medicine
- Email: alkayedn@ohsu.edu

6902 Citations

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Biography

Dr. Nabil Alkayed is a Professor of Anesthesiology & Perioperative Medicine, Neurology, Neurological Surgery, Cardiovascular Medicine and Physiology & Pharmacology at Oregon Health & Science University (OHSU). He holds The James Metcalfe Chair in Cardiovascular Research, and serves as Director of Research at The Knight Cardiovascular Institute (KCVI). Dr. Alkayed grew up in Amman, Jordan. He received his MD degree from Stavropol State Medical Academy in Stavropol, Russia, and a PhD in Physiology from the Medical College of Wisconsin, Milwaukee, WI. He completed a postdoctoral fellowship at Johns Hopkins University School of Medicine, where he also held his first faculty appointment as Assistant Professor and later promoted to Associate Professor of Anesthesiology & Critical Care Medicine. In 2004, he relocated to OHSU as a tenured Associate Professor, and in 2008, he was promoted to Full Professor in Anesthesiology & Perioperative Medicine and Physiology and Pharmacology. In 2011, he became the Vice Chair of Anesthesiology, and in 2016, Director of Research at KCVI. He is a member of the Association of University

Anesthesiologists (AUA) and an elected Fellow of the American Heart Association (AHA) Stroke Council. He has published more than 120 scientific papers related to his work on experimental stroke and vascular cognitive impairment. He served on the Editorial Boards of prominent journals in the fields of stroke and vascular biology, including *Stroke*, *American Journal of Physiology-Heart & Circulation*, *Journal of Cerebral Blood Flow & Metabolism* and *Translational Stroke Research*. His research program is funded by 2 R01 grants from the NIH, a small business grant and a T32 training grant. He is an active member of grant review panels at the National Institute of Health (NIH) and the American Heart Association (AHA). He is a member of the College of CSR Reviewers. He is Director of the KCVI T32 Training in Translational Science and Cardiovascular Medicine, and has mentored many students, fellows and junior faculty, who went on to develop their own independent research careers.

Education

- **M.D., 1986, Stavropol State Medical Academy**
- **Ph.D., 1996, Medical College of Wisconsin**

- **Fellowship:**
 - Postdoctoral Fellowship in Cerebral Ischemia, Johns Hopkins University, Baltimore, MD, 1996-1998

Memberships and associations

- American Physiological Society
Society for Neuroscience
Fellow of the American Heart Association Stroke Council
International Society of Cerebral Blood Flow and Metabolism
Association of University Anesthesiologists

Publications

1. A Double-Blind, Randomized, Placebo-Controlled Trial of Soluble Epoxide Hydrolase Inhibition in Patients with Aneurysmal Subarachnoid Hemorrhage *Neurocritical Care* 2021. Ross P. Martini, Dominic Siler, Justin Cetas, Nabil J. Alkayed, Elyse Allen, Miriam M. Treggiari
2. A Novel Model of Tobacco Smoke–Mediated Aortic Injury *Vascular and Endovascular Surgery* 2021
 0. Amir F. Azarbal
 1. Tana Repella
 2. Eric Carlson
 3. Elise C. Manalo
 4. Braden Palanuk
 5. Nasibeh Vatankhah
 6. Keith Zientek
 7. Douglas R. Keene
 8. Wenri Zhang
 9. Cherrie Z. Abraham
 10. Gregory L. Moneta
 11. Gregory J. Landry
 12. Nabil J. Alkayed
 13. Lynn Y. Sakai

3. Control of coronary vascular resistance by eicosanoids via a novel GPCR *American Journal of Physiology* May 1, 2022
 0. Nabil J. Alkayed
 1. Zhiping Cao
 2. Zu Yuan Qian
 3. Shanthi Nagarajan
 4. Xuehong Liu
 5. Jonathan W. Nelson
 6. Fuchun Xie
 7. Bingbing Li
 8. Wei Fan
 9. Lijuan Liu
 10. Marjorie R. Grafe
 11. Catherine M. Davis
 12. Xiangshu Xiao
 13. Anthony P. Barnes
 14. Sanjiv Kaul
4. Age-dependent transcriptional alterations in cardiac endothelial cells *Physiological Genomics* 2021
 0. Uchenna Emechebe
 1. Jonathan W. Nelson
 2. Nabil J. Alkayed
 3. Sanjiv Kaul
 4. Andrew C. Adey
 5. Anthony P. Barnes
5. Gene-Specific DNA methylation linked to postoperative cognitive dysfunction in apolipoprotein E3 and E4 mice *Journal of Alzheimer's Disease* 2021
 0. Katie J. Schenning
 1. Sarah Holden
 2. Brett A. Davis
 3. Amelia Mulford
 4. Kimberly A. Nevenon
 5. Joseph F. Quinn
 6. Jacob Raber
 7. Lucia Carbone
 8. Nabil J. Alkayed
6. GPR39 localization in the aging human brain and correlation of expression and polymorphism with vascular cognitive impairment *Alzheimer's and Dementia: Translational Research and Clinical Interventions* 2021
 0. Catherine Davis
 1. Thierno M. Bah
 2. Wenri H. Zhang
 3. Jonathan W. Nelson
 4. Kirsti Golgotiu
 5. Xiao Nie
 6. Farah N. Alkayed
 7. Jennifer M. Young
 8. Randy L. Woltjer

9. Lisa C. Silbert
10. Marjorie Grafe
11. Nabil J. Alkayed
7. Mapping the Molecular Architecture Required for Lipid-Binding Pockets Using a Subset of Established and Orphan G-Protein Coupled Receptors *Journal of Chemical Information and Modeling* Jul 26, 2021
 0. Shanthi Nagarajan
 1. Zu Yuan Qian
 2. Parthiban Marimuthu
 3. Nabil J. Alkayed
 4. Sanjiv Kaul
 5. Anthony P. Barnes
8. (Phospho)Proteomic dataset of ischemia- and ultrasound- stimulated mouse cardiac endothelial cells in vitro *Data in Brief* Oct 2021
 0. Uchenna Emechebe
 1. David Giraud
 2. Azzdine Y. Ammi
 3. Kristin L. Scott
 4. Jon M. Jacobs
 5. Jason E. McDermott
 6. Igor V. Dykan
 7. Nabil J. Alkayed
 8. Anthony P. Barnes
 9. Sanjiv Kaul
 10. Catherine M. Davis
9. Phosphoproteomic response of cardiac endothelial cells to ischemia and ultrasound *BBA - Protein Structure* Sep 2021
 0. Uchenna Emechebe
 1. David Giraud
 2. Azzdine Ammi
 3. Kristin L. Scott
 4. Jon M. Jacobs
 5. Jason E. McDermott
 6. Igor V. Dykan
 7. Nabil J. Alkayed
 8. Anthony P. Barnes
 9. Sanjiv Kaul
 10. Catherine M. Davis
10. Role of endothelium-pericyte signaling in capillary blood flow response to neuronal activity *Journal of Cerebral Blood Flow and Metabolism* 2021
 0. Wenri Zhang
 1. Catherine M. Davis
 2. Douglas M. Zeppenfeld
 3. Kirsti Golgotiu
 4. Marie X. Wang
 5. Mariya Haveliwala
 6. Daniel Hong
 7. Yuandong Li
 8. Ruikang K. Wang
 9. Jeffrey J. Iliff

10. Nabil J. Alkayed
11. Soluble epoxide hydrolase blockade after stroke onset protects normal but not diabetic mice *International Journal of Molecular Sciences* Jun 1, 2021
 0. Catherine M. Davis
 1. Wenri H. Zhang
 2. Elyse M. Allen
 3. Thierno M. Bah
 4. Robert E. Shangraw
 5. Nabil J. Alkayed
12. Effect of thermostable mutations on the neurotensin receptor 1 (NTSR₁) activation state *Journal of Biomolecular Structure and Dynamics* Jan 22, 2020
 0. Shanthi Nagarajan
 1. Nabil J. Alkayed
 2. Sanjiv Kaul
 3. Anthony P. Barnes
13. High-Density Lipoprotein Carries Markers That Track with Recovery from Stroke *Circulation Research* 2020
 0. Deanna L. Plubell
 1. Alex M. Fenton
 2. Sara Rosario
 3. Paige Bergstrom
 4. Phillip A. Wilmarth
 5. Wayne M. Clark
 6. Neil A. Zakai
 7. Joseph F. Quinn
 8. Jessica Minnier
 9. Nabil J. Alkayed
 10. Sergio Fazio
 11. Nathalie Pamir
14. Apolipoprotein E4 mediates insulin resistance-associated cerebrovascular dysfunction and the post-prandial response *Journal of Cerebral Blood Flow and Metabolism* Jan 1, 2017
 0. Lance A. Johnson
 1. Eileen Ruth Torres
 2. Sydney Weber Boutros
 3. Esha Patel
 4. Tunde Akinyeke
 5. Nabil J. Alkayed
 6. Jacob Raber
15. Electromagnetic Interference with Protocolized Electrosurgery Dispersive Electrode Positioning in Patients with Implantable Cardioverter Defibrillators *Anesthesiology* Apr 1, 2019
 0. Peter M. Schulman
 1. Miriam M. Treggiari
 2. Norbert Yanez
 3. Charles A. Henrikson
 4. Peter M. Jessel
 5. Thomas Dewland
 6. Matthias J. Merkel
 7. Valerie Sera

8. Izumi Harukuni
9. Ryan B. Anderson
10. Edward (Ed) Kahl
11. Ann Bingham
12. Nabil Alkayed
13. Eric C. Stecker
16. Pericyte constriction underlies capillary derecruitment during hyperemia in the setting of arterial stenosis *American Journal of Physiology* Aug 2019
 0. Carmen Methner
 1. Anusha Mishra
 2. Kirsti Golgotiu
 3. Yuandong Li
 4. Wei Wei
 5. Norbert Yanez
 6. Berislav Zlokovic
 7. Ruikang K. Wang
 8. Nabil J. Alkayed
 9. Sanjiv Kaul
 10. Jeffrey Iliff
17. Sex differences in the therapeutic effects of anti-PDL2 neutralizing antibody on stroke *Metabolic Brain Disease* Jan 1, 2019
 0. Hilary A. Seifert
 1. Wenbin Zhu
 2. Arthur A. Vandenbark
 3. Nabil J. Alkayed
 4. Halina Offner
18. Therapeutic Ultrasound Increases Myocardial Blood Flow in Ischemic Myocardium and Cardiac Endothelial Cells *Journal of the American Society of Echocardiography* Sep 2019
 0. Brian Mott
 1. Azzdine Ammi
 2. D. Elizabeth Le
 3. Catherine Davis
 4. Igor V. Dykan
 5. Yan Zhao
 6. Mathew Nugent
 7. Jessica Minnier
 8. Mohanika Gowda
 9. Nabil J. Alkayed
 10. Sanjiv Kaul
19. P450 Eicosanoids and Reactive Oxygen Species Interplay in Brain Injury and Neuroprotection. *Antioxidants and Redox Signaling* Apr 20, 2017
 0. Xuehong Liu
 1. Catherine Davis
 2. Nabil Alkayed
20. Predictive value of neutrophil-to-lymphocyte ratio in diabetic wound healing *Journal of Vascular Surgery* Feb 1, 2017
 0. Nasibeh Vatankhah
 1. Younes Jahangiri
 2. Gregory J. Landry

3. Robert B. McLafferty
 4. Nabil J. Alkayed
 5. Gregory L. Moneta
 6. Amir F. Azarbal
21. Vapor pressures of anesthetic agents at temperatures below 0°C and a novel anesthetic delivery device *Anesthesia and Analgesia* Sep 13, 2016
0. Katie J. Schenning
 1. Henry Casson
 2. Sarah V. Click
 3. Lucas Brambrink
 4. Thomas T. Chatkupt
 5. Nabil J. Alkayed
 6. Michael Hutchens
22. Amelioration of Metabolic Syndrome-Associated Cognitive Impairments in Mice via a Reduction in Dietary Fat Content or Infusion of Non-Diabetic Plasma *EBioMedicine* Jan 1, 2016
0. Lance A. Johnson
 1. Kristen L. Zuloaga
 2. Tara L. Kugelman
 3. Kevin S. Mader
 4. Jeff T. Morré
 5. Damian G. Zuloaga
 6. Sydney Weber
 7. Tessa Marzulla
 8. Amelia Mulford
 9. Dana Button
 10. Jonathan R. Lindner
 11. Nabil J. Alkayed
 12. Jan F. Stevens
 13. Jacob Raber
23. Automated segmentation and enhancement of optical coherence tomography-acquired images of rodent brain *Journal of Neuroscience Methods* Sep 1, 2016
0. Utku Baran
 1. Wenbin Zhu
 2. Woo June Choi
 3. Michael Omori
 4. Wenri Zhang
 5. Nabil J. Alkayed
 6. Ruikang K. Wang
24. Disrupting dimerization translocates soluble epoxide hydrolase to peroxisomes *PLoS One* May 1, 2016
0. Jonathan W. Nelson
 1. Anjali J. Das
 2. Anthony P. Barnes
 3. Nabil J. Alkayed