

CURRICULUM VITAE

Douglas Carter Anthony, M.D., Ph.D.

September 26, 2016

Current position: Professor, Pathology and Laboratory Medicine, and
Professor, Neurology
Warren Alpert Medical School of Brown University
Chief, Pathology and Laboratory Medicine
Lifespan Academic Medical Center
The Miriam and Rhode Island Hospitals

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Web site: <https://vivo.brown.edu/display/dca>
Department: <http://www.brown.edu/academics/pathology-laboratory-medicine>

Residency Program: <https://www.brown.edu/academics/medical/about/departments/pathology-laboratory-medicine/residency/>

NCBI URL: <http://www.ncbi.nlm.nih.gov/sites/myncbi/1nEJeLu4bh652/bibliography/41649010/public/?sort=date&direction=descending>)

EDUCATION

Undergraduate B.S. (Chemical Engineering), Washington University, St. Louis, MO.
Honors Engineering Academic Achievement Award, Tau Beta Pi, Antoinette Dames Academic Achievement Award, Omicron Delta Kappa, Final Honors.

Medical School M.D. (Medicine), Duke University, School of Medicine, Durham, NC
Honors Medical Scientist Training Program Award, National Institute of General Medical Sciences.

Graduate School Ph.D. (Experimental Pathology), Duke University Graduate School, Durham, NC.
Honors Phi Beta Kappa, Honorable Mention for Weil Award of the American Association of Neuropathologists

POSTGRADUATE TRAINING

Residency Pathology Residency in Anatomic Pathology, Duke University Medical Center, Durham, NC

Fellowship Neuropathology Fellowship, Duke University Medical Center, Durham,
NC

POSTGRADUATE HONORS AND AWARDS

Clinical Investigator Development Award, National Institute of Neurological Disorders and Stroke
International Society of Toxicology, Neurotoxicology Award
Society of Toxicology, Mechanism Award
North Carolina Society of Toxicology Scientific Award
Feodor Lynen Research Award, Alexander von Humboldt Foundation
Dr. Edison H. and Sallie Y. Miyawaki Teaching Award in Neurosciences, Harvard Medical School, Boston, MA
Recognition Award for Faculty, United States and Canadian Academy of Pathology
Curriculum Board Excellence in Teaching Award, School of Medicine, University of Missouri
Excellence in Education Award, Medical Student Affairs Council, Pre-clinical Sciences, University of Missouri
Order of Socrates, University of Missouri
America's Top Doctors, Castle Connolly Recognition
M.A. *ad eundem*, Brown University, Providence, RI.
Certificate of Recognition for Education (2016), Biol 3652 IMSII: Brain Sciences, Warren Alpert Medical School of Brown University

ACADEMIC APPOINTMENTS

1987 - 1992	Assistant Professor of Pathology, Duke University
1992 - 1995	Assistant Professor of Pathology, Harvard University
1995 - 2001	Associate Professor of Pathology, Harvard University
2001 – 2012	Professor of Pathology and Anatomical Sciences, University of Missouri
2003 – 2012	Professor of Neurology, University of Missouri
2012 – 2015	Adjunct Professor of Pathology and Anatomical Sciences, University of Missouri
2012 – present	Professor of Pathology and Laboratory Medicine, Brown University
2015 – present	Professor of Neurology, Brown University

OTHER APPOINTMENTS

Major Administrative Responsibilities

1987 - 1992	Director, Peripheral Nerve Pathology Service, Duke University Medical Center, Durham, NC
1989 - 1992	Associate Director, Medical Scientist Training Program (M.D.-Ph.D. Program), Duke University, Durham, NC
1991 - 1992	Acting Director, Pathology and Clinical Laboratory Informatics, Duke University, Durham, NC
1992 - 2001	Director of Neuropathology, Department of Pathology, Children's Hospital, Boston, MA
1992 - 2001	Member, Children's Hospital Pathology Foundation, Inc., Boston, MA
1995 - 2001	Board of Directors

1997 - 2000 Vice President
2000 - 2001 President

1995 - 2000 Associate Pathologist-in-Chief (Vice Chairman), Department of Pathology, Children's Hospital, Boston, MA

1995 - 1998 Member, Board of Directors, Physicians' Organization at Children's Hospital, Inc., Boston, MA

1997 - 2001 Member, Medical Staff Executive Committee, Children's Hospital, Boston, MA

1998 - 2001 Member, Physician Leadership Council, Physicians' Organization at Children's Hospital, Boston MA

1998 - 2001 Physician Liaison for Pathology, Children's Hospital, Boston, MA

2000 - 2001 Acting Pathologist-in-Chief (Acting Chairman), Department of Pathology, Children's Hospital, Boston, MA

2000 - 2001 Executive Committee, Department of Pathology, Harvard Medical School, Boston, MA

2001 - 2012 Chair, Department of Pathology and Anatomical Sciences, University of Missouri School of Medicine, Columbia, MO

2001 - 2012 Chief, Pathology Clinical Laboratories, University of Missouri Hospital and Clinics, Columbia, MO

2007 - 2012 Director, Tom and Anne Smith M.D.-Ph.D. Program, University of Missouri, Columbia, MO

2007 - 2012 Associate Director, Institute for Clinical and Translational Sciences (Director of ICTS Training Programs), University of Missouri, Columbia, MO

2007 - 2012 Chair, Clinical Chairs Committee, University of Missouri, Columbia, MO

2007 - 2012 Director, Center for Translational Neurosciences, University of Missouri, Columbia, MO

2009 - 2012 Secretary-Treasurer, Missouri State Anatomical Board

2011 - 2012 Director, Electron Microscopy, Department of Clinical Pathology Laboratories, University of Missouri, Columbia, MO

2011 - 2012 Director, Quality Assurance, Surgical Pathology, University of Missouri, Columbia, MO

2012 - present Chief, Department of Pathology and Laboratory Medicine, Rhode Island Hospital, Providence, RI

2012 - present Chief, Department of Pathology and Laboratory Medicine, The Miriam Hospital, Providence, RI

National Committees and Panels

1987 Member, Ad Hoc Scientific Study Section, National Institutes of Health, "Adverse Health Effects of Aluminum (RFA 86-03)"

1988 - 1992 Consultant, U.S. Environmental Protection Agency, Evaluation of the neurotoxic potential of 2-hydroxyethyl acrylate

1989 Member, Ad Hoc Scientific Study Section, Health Effects Institute, "Health Effects of Methanol Exposure: Metabolism and

Pharmacokinetics; Fetal and Perinatal Neurotoxicity; Reproductive Toxicity (RFA 89-1)"

1990 Ad Hoc Member, Toxicology Study Section, National Institutes of Health

1990 Member, Ad Hoc Study Section, National Institutes of Health, "Training Programs in Toxicology"

1990 - 1994 Consultant, U.S. Environmental Protection Agency, Determination of the cumulative neurotoxicity of acrylamide and implications for risk assessment

1991 Ad Hoc Reviewer, Toxicology Study Section, National Institutes of Health

1991 - 1993 Member, Advisory Committee, National Human Exposure Assessment Survey (NHEXAS Project), Cadmus Group, U. S. Environmental Protection Agency and the Office of Health Research

1992 Ad Hoc Reviewer, Toxicology Study Section, National Institutes of Health

1992 - 1995 Consultant, Burroughs Wellcome Corporation, Evaluation of the incidence of white matter protein deposits following exposure to zidovudine (AZT)

1992 - 1997 Consultant, U.S. Environmental Protection Agency, Evaluation of the neurotoxicity associated with chronic low-level exposure to 2-dichloroacetate

1993 – 1999 Consultant, U.S. Environmental Protection Agency, Evaluation of the cumulative neurotoxicity of 2,5-hexanedione and implications for risk assessment

1994 Ad Hoc Reviewer, Air Force Office of Scientific Research, Department of Defense

1994 Member, Consensus Panel for Evaluation of Teased Fiber Analysis in Diabetic Neuropathy, Toronto, Ontario

1995 Member, Site Visit Team, Program Project "Aging and neurodegenerative disease in Micronesia", University of California, San Diego, CA (Washington, D.C.)

1995 Member, Second Consensus Panel for Evaluation of Teased Fiber Analysis in Diabetic Neuropathy, Miami, FL

1995 Extramural Expert Reviewer, Peripheral Neuropathy in Diabetes Mellitus, Michigan Diabetes Research and Training Center, Ann Arbor, MI

1997 External Consultant in Neuropathology, School of Medicine, University of Alabama at Birmingham, Birmingham, AL

1999 - present Ad Hoc Reviewer, Alzheimer's Association, Chicago, IL

2000 External Consultant, Review of Department of Pathology, Children's Memorial Hospital, Chicago, IL

2006 External Consultant, External Review of Department of Pathology, Medical University of South Carolina, Charleston, SC

2008 Study Section, Department of Health, State of Pennsylvania, Performance Reviews, Cycle 07-08 A

2008 – 2012	Member, MD-PhD Section, Association of American Medical Colleges (AAMC GREAT Group for Graduate, Research Education and Training)
2009 – 2010	Member, Standard Setting Panel, National Board of Medical Examiners, USMLE Step I, Philadelphia, PA
2012 – present	Member, Professional Practice Council, Association of Pathology Chairs
2013 – present	Member, Professional Affairs Committee, American Association of Neuropathologists
2014 – present	Chair, Committee for Web Site and Digital Technologies, American Association of Neuropathologists
2015	Study Section, Department of Health, State of Florida, Biomedical Research Programs Grant Program
2016 – present	Member, Advisory Council (External Advisory Board), Department of Pathology, Duke University
2016 - present	President-Elect, New England Society of Pathologists, Inc.

Editorial Boards

1994 - 1997	<i>Journal of Neuropathology and Experimental Neurology</i>
1994 - 1999	<i>Advances in Anatomic Pathology</i>
1998 – 2007	<i>Pediatric Pathology and Molecular Medicine</i>
2004 – 2006	<i>Frontiers in Bioscience</i>
2013 – present	<i>Interdisciplinary Neurosurgery</i>
2014 – present	<i>Journal of Neuropathology and Experimental Neurology</i>
2015 – present	<i>Journal of Neurology and Neurobiology</i>

Solicited Reviewer

Advances in Anatomic Pathology, American Journal of Pathology, Archives of Pathology and Laboratory Medicine, Brain Pathology, Cancer Cytopathology, Cancer, Clinical Neuropathology, Human Molecular Genetics, Interdisciplinary Neurosurgery, Interdisciplinary Neurosurgery, Journal Neuro-Oncology, Journal of Neurological Sciences, Journal of Neurology and Neurobiology, Journal of Neuropathology and Experimental Neurology, Journal of Neuroscience Methods, Laboratory Investigation, Metabolism, Modern Pathology, Neuroscience, Neurosurgery, Neurotoxicology, Pediatric and Developmental Pathology, Perspectives in Pediatric Pathology, Toxicology and Applied Pharmacology, Ultrastructural Pathology

HOSPITAL COMMITTEES

1987 - 1992	Member, House Staff Admission and Advisory Committee, Department of Pathology, Duke University, Durham, NC
1989 - 1991	Chairman, Committee to Evaluate Computing Resources, Department of Pathology, Duke University, Durham, NC
1991 - 1992	Member, Duke Hospital Computer Advisory Committee, Durham, NC
1991 - 1992	Member, Institutional Committee for Graduate Medical Education, Duke University Medical Center, Durham, NC

1991 - 1992 Member, Search Committee for Director of Medical Center Information Systems, Duke University Medical Center, Durham, NC

1995 - 2000 Member, Board of Directors, Physicians' Organization at Children's Hospital, Inc. (Dr. Paul Hickey, Chairman), Boston, MA

1996 - 1997 Member, Tissue Repository Committee, Committee on Clinical Investigation (Dr. Peter Wolfe, Chairman of Committee on Clinical Investigations), Children's Hospital, Boston, MA

2002 - 2012 Member, University Physicians Management Committee, University of Missouri, Columbia, MO

2002 Member, Committee for Women's Health Services Facilities, Columbia, MO

2002 - 2012 Member, Hospital Operations Director's Committee, University Hospital and Clinics, Columbia, MO

2003 - 2012 Member, University Physicians Executive Committee, University of Missouri, Columbia, MO

2004 - 2006 Member, University of Missouri Health Care Executive Advisory Council, Columbia, MO

2005 - 2006 Member, University of Missouri Health Care Strategic Planning Committee, Columbia, MO

2008 - 2010 Member, Clinical Executive Advisory Group, University of Missouri Health Care, Columbia, MO

2008 - 2010 Co-Chair, Children's Hospital Planning Committee for Ancillary Services, University of Missouri Health Care, Columbia, MO

2008 - 2010 Member, Children's Hospital Steering Committee (Women's and Children's Hospital), University of Missouri Health Care, Columbia, MO

2012 - present Member, Medical Executive Committee, Rhode Island Hospital, Providence, RI

2012 - present Member, Medical Executive Committee, The Miriam Hospital, Providence, RI

2012 - present Standing Member, Physician Claims Review Committee, Lifespan Academic Medical Center, Providence, RI

2012 - present Member, Steering Committee, Norman Prince Neuroscience Institute, Lifespan Academic Medical Center, Providence, RI

2012 - present Chair, Quality Assurance Committee, Department of Pathology and Laboratory Medicine, Lifespan Academic Medical Center, Providence, RI

2012 - 2013 Chair, Laboratory Information System Evaluation Committee, Lifespan Academic Medical Center, Providence, RI (Epic selected for EMR; Co Path Plus and Soft selected for Lab Information Systems)

2012 - 2013 Member, eHealth Information System Evaluation Committee, Lifespan Academic Medical Center, Providence, RI (Epic selected for system-wide EMR)

2012 – 2014	Member, Integration Committee for Evaluation of Electronic Medical Record, Lifespan Academic Medical Center, Providence, RI (Epic selected for EMR)
2013 – 2014	Member, Physician Retirement Plan Advisory Committee, Lifespan Health Care System, Providence, RI
2013 – present	Member, EPIC Physician Advisory Committee, Lifespan Academic Medical Center, Providence, RI
2013 – 2015	Member, EPIC Laboratory Design Committee, Lifespan Academic Medical Center, Providence, RI
2013 – 2015	Member, EPIC Order Sets Committee, Lifespan Academic Medical Center, Providence, RI
2013 – present	Member, Pathology Residency Steering Committee, The Warren Alpert Medical School of Brown University, Providence, RI
2013 – present	Member, Lifespan Cancer Center Steering Committee, Lifespan Academic Medical Center, Providence, RI
2014 – present	Physician Super User, Epic Implementation, Lifespan Academic Medical Center, Providence, RI
2015 – present	Member, Lifespan Cancer Center Advisory Committee, Lifespan Academic Medical Center, Providence, RI
2016 – present	Member, Lifespan Cancer Center Operations Council, Lifespan Academic Medical Center, Providence, RI
2016 – present	Member, Dana Farber Cancer Institute/Lifespan Genomics Design Team, Integrated Regional Cancer Center Planning Group, Providence RI and Boston MA.
2016 – present	Member, Lifespan Clinical Informatics Technology Council, Lifespan Academic Medical Center, Providence, RI

UNIVERSITY COMMITTEES

1976-1978	Member, University Judicial Board, Washington University, St. Louis, MO
1977-1978	Chairman, University Judicial Board, Washington University, St. Louis, MO
1987	Member, Committee for the Evaluation of Clinical Clerkships, Liaison Committee for Medical Education (LCME), Duke University School of Medicine, Durham, NC
1988 - 1992	Member, Executive and Admissions Committee, Duke University Medical Scientist Training Program (M.D.-Ph.D. Program), Durham, NC
1988 - 1992	Member, Admissions and Executive Committee, Duke University Graduate Program in Experimental Pathology, Durham, NC
1989 - 1992	Member, Committee on Admissions, Duke University School of Medicine, Durham, NC
1991 - 1992	Member (Alternate), Basic Science Faculty Steering Committee, Duke University School of Medicine, Durham, NC

- 1994 Member, Search Committee for Pediatric Pathologist, Children's Hospital and Harvard Medical School (Dr. Ramzi Cotran, Chair), Boston, MA
- 1994 Member, Working Group for Human Nervous System and Behavior, Harvard Medical School, IN707 (Dr. Thomas Glick, Chair), Boston, MA
- 1995 - 2000 Chairman, Organizing Committee for the Amico Bignami Memorial Lecture in Neuropathology, Boston, MA
- 1998 - 1999 Chairman, Search Committee for Pediatric Pathologist, Children's Hospital and Harvard Medical School, Boston, MA
- 1999 - 2000 Chairman, Search Committee for Hematopathologist, Children's Hospital and Harvard Medical School, Boston, MA
- 2000 - 2001 Chairman, Search Committee for Director of Cardiac Pathology, Children's Hospital and Harvard Medical School, Boston, MA
- 2001 - 2002 Member, Dean's Advisory Group, University of Missouri School of Medicine, Columbia, MO
- 2001 - 2012 Member, Council of Chairs, University of Missouri School of Medicine, Columbia, MO
- 2001 - 2003 Member, Steering Committee for Mission Based Management, University of Missouri School of Medicine, Columbia, MO
- 2001 - 2012 Member, Clinical Chairs Committee, School of Medicine, University of Missouri, Columbia, MO
- 2002 - 2008 Member, Research Advisory Committee, School of Medicine, University of Missouri, Columbia, MO
- 2002 Member, Committee for Review of Compensation Policies, School of Medicine, University of Missouri, Columbia, MO
- 2002 - 2003 Member, Diabetes and Cardiovascular Disease Center Steering Committee, School of Medicine, University of Missouri, Columbia, MO
- 2002 - 2005 Member, University Chairs Council (Representative for the School of Medicine), University of Missouri, Columbia, MO
- 2002 - 2004 Leadership Executive Committee, University of Missouri School of Medicine, Columbia, MO
- 2003 - 2006 MU 2020, Steering Committee to Revise the Curriculum of the School of Medicine, University of Missouri, Columbia, MO
- 2003 Member, Search Committee for the Chair of Internal Medicine, University of Missouri School of Medicine
- 2003 Member, Search Committee for the Chair of Surgery, University of Missouri School of Medicine, Columbia, MO
- 2003 - 2012 Consultant, Internal Scientific Review Board, University of Missouri College of Veterinary Medicine, "Vascular Cell Biology: Exercise Training and Coronary Disease", Columbia, MO
- 2004 - 2012 Ad Hoc Grant Reviewer, MU Research Board, University of Missouri, Columbia, MO

2006 – 2009 Member, Executive Committee, Interdisciplinary Neuroscience Program, University of Missouri, Columbia, MO

2006 – 2007 Chair, Task Force for Advanced Degrees in Clinical and Translational Sciences, University of Missouri, Columbia, MO

2006 - 2008 Admissions Leadership Advisory Group, University of Missouri, Columbia, MO

2006 – 2012 Member, Planning and Steering Committees, Clinical and Translational Sciences Institute, University of Missouri, Columbia, MO

2006 – 2012 Chair, Graduate Education Task Force for Clinical and Translational Sciences Institute, University of Missouri, Columbia, MO

2006 – 2008 Member, MU2020 Admissions Steering Committee, University of Missouri, School of Medicine, Columbia, MO

2006 – 2008 Member, MU2020 Admissions Planning Group, University of Missouri, School of Medicine, Columbia, MO

2008 – 2010 Member, Search Committee, Associate Dean for Curriculum, University of Missouri, School of Medicine, Columbia, MO

2010 – 2011 Member, Search Committee for the Chair of Emergency Medicine, University of Missouri, School of Medicine, Columbia, MO

2010 – 2012 Member, Research Council, University of Missouri School of Medicine, Columbia, MO

2010 – 2011 Chair, Organizing Committee, Translational Neuroscience Symposium, University of Missouri, Columbia, MO

2011 – 2012 Member, Dean’s Advisory Committee for Research, University of Missouri School of Medicine, Columbia, MO

2011 - 2012 Member, Executive Clinical Chairs Committee, University of Missouri School of Medicine, Columbia, MO

2012 – present Executive Committee, Department of Pathology and Laboratory Medicine, Brown University, Providence, RI

2012 – 2013 Member, Search Committee for the Chair of Dermatology, Brown University, Providence, RI

2013 – present Member, Advisory Group for the Office of Diversity and Multicultural Affairs, Brown University, Providence, RI

2013 – 2015 Member, Search Committee, Clinical Genetics, Department of Pediatrics, Brown University, Providence, RI

2013 – 2015 Chair, Subcommittee for Student and Faculty Recruitment, Advisory Group for the Office of Diversity and Multicultural Affairs, Brown University, Providence, RI

2014 – 2015 Member, Clinical and Translational Sciences Grant Planning Committee, Brown University, Providence, RI

2014 – 2015 Member, Search Committee, Chair, Department of Neurosurgery, Brown University, Providence, RI

2014 – 2015 Member, Search Committee, Chief of Hematology-Oncology, Department of Internal Medicine, Brown University, Providence, RI

2015 – 2016 Member, Search Committee, Chair, Department of Orthopedic Surgery, Brown University, Providence, RI

- 2015 – 2016 Member, Data Analysis and Computation Core Task Force, Brown University, Providence, RI
- 2015 – 2016 Member, Academic Design and Investment Committee, Warren Alpert Medical School of Brown University and Rhode Island Medical Group, Providence, RI
- 2016 – present Member, Clinical and Translational Sciences Grant Writing Committee, Brown University, Providence, RI
- 2016 – present Co-Leader, Training Core (TL1), Clinical and Translational Sciences, Brown University, Providence, RI

MEMBERSHIP IN SOCIETIES

- 1987 - present United States and Canadian Academy of Pathology (USCAP)
Course Director, Short Course - "Problems in Neuromuscular Pathology: Evaluation of Nerve and Muscle Biopsies", United States and Canadian Academy of Pathology, 1997
Chairman, Neuropathology Platform Session, 86th Annual Meeting, United States and Canadian Academy of Pathology, 1997
Panel Member, Neuropathology Diagnostic Session, 86th Annual Meeting, United States and Canadian Academy of Pathology, 1997
Panel Member, Neuropathology Diagnostic Session, 87th Annual Meeting, United States and Canadian Academy of Pathology, 1998
Course Director, Short Course - "Problems in Neuromuscular Pathology: Evaluation of Nerve and Muscle Biopsies", United States and Canadian Academy of Pathology, 1999
Panel Member, Neuropathology Diagnostic Session, 88th Annual Meeting, United States and Canadian Academy of Pathology, 1999
Faculty Member, Diagnostic Pathology Series (Neuropathology), United States and Canadian Academy of Pathology, 1999 - 2002
Panel Member, Electron Microscopy Symposium, Ultrastructural Pathology Companion Meeting, United States and Canadian Academy of Pathology, 2000
Ambassador, United States and Canadian Academy of Pathology, 2011
Course Director, Short Course - "Nerve and Muscle Biopsies: A patient-centered approach for the general pathologist", United States and Canadian Academy of Pathology, 2016
- 1988 - present American Association of Neuropathologists (AANP)
Chairman, Peripheral Nerve and Muscle Platform Session, 64th Annual Meeting, American Association of Neuropathologists, 1988
Chairman, Toxic and Metabolic Disorders Platform Session, 65th Annual Meeting, American Association of Neuropathologists, 1989

- Chairman, Peripheral Nerve and Muscle Platform Session, 67th Annual Meeting, American Association of Neuropathologists, 1991
- Chairman, Peripheral Nerve and Muscle, Scientific Poster Discussion Session IV, 68th Annual Meeting, American Association of Neuropathologists, 1992
- Member, Program Committee, Organization and Planning for the 71st Annual Meeting, American Association of Neuropathologists, 1995
- Chairman, Neuromuscular Disorders Poster Discussion Session, 71st Annual Meeting, American Association of Neuropathologists, 1995
- Member, Program Committee, Organization and Planning for the 72nd Annual Meeting, American Association of Neuropathologists, 1996
- Chairman, Neuromuscular Disorders Platform Session, 72nd Annual Meeting, American Association of Neuropathologists, 1996
- Chairman, Nerve and Muscle Disorders, Platform Session VII, 74th Annual Meeting, American Association of Neuropathologists, 1998
- Chairman, Nerve and Muscle Disorders, Poster Session VII, 75th Annual Meeting, American Association of Neuropathologists, 1999
- Panelist, Diagnostic Slide Session, 82nd Annual Meeting of American Association of Neuropathologists & 16th International Congress of Neuropathology, 2006
- Member, Professional Affairs Committee, 2013 – present
- Chair, AANP Web Site Design and Digital Technologies Committee, 2014 - present
- 1989 - present Society for Neuroscience
- 1992 - present Society of Toxicology
- Chairman, Neurotoxicity: Peripheral Nerve and Muscle, 32nd Annual Meeting, Society for Toxicology, 1993
- Chairman, Neurotoxicity: Peripheral Nervous System/Axonal Degeneration, Scientific Poster Discussion Session 22, 34th Annual Meeting, Society for Toxicology, 1995
- 1993 - present American Society for Neurochemistry (ASN)
- Chair, Neurochemistry Colloquium, “Oxidative/Nitrosative Stress: A Double-edged Sword in Neurodegenerative Diseases.”, St. Louis, MO, 2011
- Functional Neuroanatomy, “Learning and Memory”, St. Louis, MO, 2011
- 1993 - present American Society for Investigative Pathology (ASIP)
- 1994 - present Society for Pediatric Pathology
- 1997 - present Fellow, College of American Pathologists (CAP)

2001 - present	Association of Pathology Chairpersons (APC)
2007 - 2008	Co-Sponsor/Program Chair with Patricia Thomas, M.D., Chair of Pathology, University of Kansas, West-Midwest Regional Association of Pathology Chairpersons, Maui, Hawaii,
2002 - 2012	American Association of Clinical Anatomists
2005 – present	American Medical Association
2004 - 2012	Missouri State Medical Association
2004 - 2012	Boone County Medical Association
2012 – present	Rhode Island Medical Society
2016 – present	New England Society of Pathologists President-Elect, 2016-2017

PUBLICATION LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Graham DG, Anthony DC, Boekelheide K, Maschmann NA, Richards RG, Wolfram JW, Shaw BR. Studies of the molecular pathogenesis of hexane neuropathy. II. Evidence that pyrrole derivatization of lysyl residues leads to protein crosslinking. *Toxicol Appl Pharmacol* 1982;64:415-22.
2. Graham DG, Anthony DC, Boekelheide K. *In vitro* and *in vivo* studies of the molecular pathogenesis of *n*-hexane neuropathy. *Neurobehav Toxicol Teratol* 1982;4:629-34.
3. Anthony DC, Giangaspero F, Graham DG. The spatio-temporal pattern of the axonopathy associated with the neurotoxicity of 3,4-dimethyl-2,5-hexanedione in the rat. *J Neuropathol Exp Neurol* 1983;42:548-60.
4. Anthony DC, Boekelheide K, Graham DG. The effect of 3,4-dimethyl substitution on the neurotoxicity of 2,5-hexanedione. I. Accelerated clinical neuropathy is accompanied by more proximal axonal swellings. *Toxicol Appl Pharmacol* 1983;71:362-71.
5. Anthony DC, Boekelheide K, Anderson CW, Graham DG. The effect of 3,4-dimethyl substitution on the neurotoxicity of 2,5-hexanedione. II. Dimethyl substitution accelerates pyrrole formation and protein crosslinking. *Toxicol Appl Pharmacol* 1983;71:372-82.
6. Griffin JW, Anthony DC, Fahnestock KE, Hoffman PN, Graham DG. 3,4-Dimethyl-2,5-hexanedione impairs the axonal transport of neurofilament proteins. *J Neurosci* 1984;4:1516-26.
7. Graham DG, Szakal-Quin Gy, Priest JW, Anthony DC. *In vitro* evidence that covalent crosslinking of neurofilaments occurs in γ -diketone neuropathy. *Proc Nat Acad Sci USA* 1984;81:4979-82. PMID: PMC391616

8. Graham DG, Anthony DC, Szakal-Quin Gy, Gottfried MR, Boekelheide K. Covalent crosslinking of neurofilaments in the pathogenesis of *n*-hexane neuropathy. *Neurotoxicology* 1985;6:55-64.
9. Griffin MP, Anthony DC, Vileisis RA. Neonatal surgical casebook: Intrapericardial teratoma. *J Perinatol* 1986;6:347-9.
10. Genter MB, Szakal-Quin Gy, Anderson CW, Anthony DC, Graham DG. Evidence that pyrrole formation is a pathogenic step in γ -diketone neuropathy. *Toxicol Appl Pharmacol* 1987;87:351-62.
11. Rosenberg CK, Genter MB, Szakal-Quin Gy, Anthony DC, Graham DG. *d,l*- Versus *meso*- 3,4-dimethyl-2,5-hexanedione: A morphometric study of the proximo-distal distribution of axonal swellings in the anterior root of the rat. *Toxicol Appl Pharmacol* 1987;87:363-73.
12. Rosenberg CK, Anthony DC, Szakal-Quin Gy, Genter MB, Graham DG. Hyperbaric oxygen accelerates the neurotoxicity of 2,5-hexanedione. *Toxicol Appl Pharmacol* 1987;87:374-9.
13. Anthony DC, Atwater SK, Rozear MP, Burger PC. Occlusion of the basilar artery within a fracture of the clivus. *J Neurosurg* 1987;66:929-31.
14. Genter St. Clair MBG, Amarnath V, Moody MA, Anthony DC, Anderson CW, Graham DG. Pyrrole oxidation and protein crosslinking as necessary steps in the development of γ -diketone neuropathy. *Chem Res Toxicol* 1988;1:179-85.
15. Boekelheide K, Anthony DC, Giangaspero F, Gottfried MR, Graham DG. Aliphatic diketones: Influence of dicarbonyl spacing on amine reactivity and toxicity. *Chem Res Toxicol* 1988;1:200-3.
16. Warren LP Jr, Djang WT, Moon RE, Camporesi EM, Sallee DS, Anthony DC, Massey EW, Burger PC, Heinz ER. Neuroimaging of scuba diving injuries to the CNS. *Am J Roentgenol (AJR)* 1988;151:1003-8 (also published in *Am J Neuroradiol (AJNR)* 1988;9:933-938).
17. Krendel DA, Parks HP, Anthony DC, St. Clair MBG, Graham DG. Sural nerve biopsy in chronic inflammatory demyelinating polyradiculoneuropathy. *Muscle Nerve* 1989;12:257-264.
18. Gould BJ, Borowitz MJ, Groves ES, Carter PW, Anthony DC, Weiner LM, Frankel AE. Phase I study of an anti-breast cancer immunotoxin by continuous infusion: Report of a targeted toxic effect not predicted by animal studies. *J Natl Cancer Inst* 1989;81:775-81.

19. St. Clair MBG, Anthony DC, Wikstrand CJ, Graham DG. Neurofilament protein crosslinking in γ -diketone neuropathy: *In vitro* and *in vivo* studies using the seaworm *Myxicola infundibulum*. *Neurotoxicology* 1989;10:743-56.
20. Wolf HK, Anthony DC, Fuller GN. Arterial border zone necrosis of the spinal cord. *Clin Neuropathol* 1990;9:60-5.
21. Cucchiaro G, Yamaguchi Y, Mills E, Kuhn CM, Anthony DC, Branum GD, Epstein R, Meyers WC. Evaluation of selective liver denervation methods. *Am J Physiol* 1990;259:G781-5.
22. Dresser LP, Tourian AY, Anthony DC. A case of myelinoclastic diffuse sclerosis in an adult. *Neurology* 1991;41:316-8.
23. Graham DG, St. Clair MBG, Amarnath V, Anthony DC. Molecular mechanisms of γ -diketone neuropathy. *Adv Exp Med Biol* 1991;283:427-31. PMID 1648869
24. Amarnath V, Anthony DC, Valentine WM, Graham DG. The molecular mechanism of the carbon disulfide mediated cross-linking of proteins. *Chem Res Toxicol* 1991;4:148-50.
25. Amarnath V, Anthony DC, Amarnath K, Valentine WM, Wetterau LA, Graham DG. Intermediates in the Paal-Knorr synthesis of pyrroles. *J Org Chem* 1991;56:6924-31.
26. Moser VC, Anthony DC, Sette WF, MacPhail RC. Comparison of subchronic neurotoxicity of 2-hydroxyethyl acrylate and acrylamide in rats. *Fund Appl Toxicol* 1992;18:343-5.
27. Vandersteenhoven JJ, D'Baibo G, Boyko OB, Hulette CM, Anthony DC, Kenny JF, Wilfert CM. Progressive multifocal leukoencephalopathy in pediatric acquired immunodeficiency syndrome. *Pediatr Infect Dis J* 1992;11:232-7.
28. Valentine WM, Amarnath V, Graham DG, Anthony DC. Covalent cross-linking of proteins by carbon disulfide. *Chem Res Toxicol*. 1992;5:254-62.
29. Pyle SJ, Amarnath V, Graham DG, Anthony DC. The role of pyrrole formation in the alteration of neurofilament transport induced during exposure to 2,5-hexanedione. *J Neuropathol Exp Neurol* 1992;51:451-8.
30. Denlinger RH, Anthony DC, Amarnath V, Graham DG. Comparison of location, severity, and dose response of proximal axonal lesions induced by 3,3'-iminodipropionitrile and deuterium substituted analogs. *J Neuropathol Exp Neurol* 1992;51:569-76.

31. Cucchiario G, Branum GD, Farouk M, Mansour G, Kuhn CM, Anthony DC, Meyers WC. The effects of liver denervation on the regulation of hepatic biliary secretion. *Transplantation* 1992;54:129-36.
32. Chen L-E, Seaber AV, Glisson RR, Davies H, Murrell GAC, Anthony DC, Urbaniak JR. The functional recovery of peripheral nerves following defined acute crush injuries. *J Orthoped Res* 1992;10:657-64.
33. Sotereanos DG, Seaber AV, Urbaniak JR, Spiegel DA, Sotereanos D, Anthony DC. Reversing nerve-graft polarity in a rat model: the effect on function. *J Reconstr Microsurg* 1992;8:303-7.
34. Hulette CM, Earl NL, Anthony DC, Crain BJ. Adult onset Niemann-Pick disease Type C presenting with dementia and absent organomegaly. *Clin Neuropathol* 1992;11:293-7.
35. Valentine WM, Graham DG, Anthony DC. Covalent cross-linking of erythrocyte spectrin by carbon disulfide *in vivo*. *Toxicol Appl Pharmacol* 1993;121:71-7.
36. Thomas LO, Boyko OB, Anthony DC, Burger PC. MR detection of brain iron. *Am J Neuroradiol (AJNR)* 1993;14:1043-8.
37. Pyle SJ, Amarnath V, Graham DG, Anthony DC. Decreased levels of the high molecular weight subunit of neurofilaments and accelerated neurofilament transport during the recovery phase of 2,5-hexanedione exposure. *Cell Motil Cytoskel* 1993;26:133-43.
38. Denlinger RH, Anthony DC, Amarnath K, Amarnath V, Graham DG. Metabolism of 3,3'-iminodipropionitrile and deuterium substituted analogs: Potential mechanisms of detoxification and activation. *Toxicol Appl Pharmacol* 1994;124:59-66.
39. Pyle SJ, Graham DG, Anthony DC. Dimethylhexanedione impairs the movement of neurofilament protein subunits, NFM and NFL, in the optic system. *Neurotoxicol* 1994;15:279-86.
40. Rao VV, Anthony DC, Piwnicka-Worms D. *MDR1* gene-specific monoclonal antibody C494 cross-reacts with pyruvate carboxylase. *Cancer Res* 1994;54:1536-41.
41. Schofield D, West DC, Anthony DC, Marshal R, Sklar J. Correlation of loss of heterozygosity at chromosome 9q with histological subtype in medulloblastomas. *Am J Pathol* 1995;146:472-80.
42. Graham DG, Amarnath V, Valentine WM, Pyle SJ, Anthony DC. Pathogenetic studies of hexane and carbon disulfide neurotoxicity. *Crit Rev Toxicol* 1995;25:91-112.

43. Poussaint TY, Siffert J, Barnes PD, Pomeroy SL, Goumnerova LC, Anthony DC, Sallan SE, Tarbell NJ. Hemorrhagic vasculopathy after treatment of central nervous system neoplasia in childhood: diagnosis and followup. *AJNR Am J Neuroradiol* 1995;16:693-9.
44. White FV, Anthony DC, Yunis EJ, Tarbell NJ, Scott RM, Schofield DE. Nonrandom chromosomal gains in pilocytic astrocytomas of childhood. *Hum Pathol* 1995;26:979-86.
45. Laws ER, Jr., Stieg PE, Goumnerova L, Schwartz RB, Anthony DC. Acute presentation of an intracranial mass. *Neurosurgery* 1995;37:109-13.
46. Anthony DC, Hevner RF. Advances in the molecular genetics of hereditary peripheral neuropathies. *Adv Anat Pathol* 1995;2:283-98.
47. Rao VV, Anthony DC, Piwnicka-Worms D. Multidrug resistance P-glycoprotein monoclonal antibody JSB-1 crossreacts with pyruvate carboxylase. *J Histochem Cytochem* 1995;43:1187-92.
48. Ciulla TA, North K, McCabe, O, Anthony DC, Korson MS, Petersen RA. Bilateral infantile cataractogenesis in a patient with deficiency of complex I, a mitochondrial electron transport chain enzyme. *J Pediatr Ophthalmol Strabis* 1995;32:378-82.
49. Anthony DC, Crain BJ. Peripheral nerve biopsies. *Arch Pathol Lab Med* 1996;120:26-34.
50. Zec N, DeGirolami U, Schofield DE, Scott RM, Anthony DC. Giant cell ependymoma of the filum terminale. *Am J Surg Pathol* 1996;20:1091-101.
51. Bradford WD, Anthony DC, Chu CT, Pizzo SV. Career characteristics of graduates of a Medical Scientist Training Program, 1970-1990. *Acad Med* 1996;71:484-7.
52. Crofton KM, Padilla S, Tilson HA, Anthony DC, Raymer JH, MacPhail RC. The impact of dose rate on the neurotoxicity of acrylamide: the interaction of administered dose, target tissue concentrations, tissue damage, and functional effects. *Toxicol Appl Pharmacol* 1996;139:163-76.
53. Poussaint TY, Barnes PD, Anthony DC, Spack N, Scott RM, Tarbell NJ. Hemorrhagic pituitary adenomas of adolescence. *Am J Neuroradiol (AJNR)* 1996;17:1907-12.
54. Wang GK, Vladimirov M, Quan C, Mok WM, Thalhammer JG, Anthony DC. N-butyl tetracaine as a neurolytic agent for ultralong sciatic nerve block. *Anesthesiol* 1996;85:1386-94.
55. Lemere CA, Lopera F, Kosik KS, Lendon CL, Ossa J, Saido TC, Yamaguchi H, Ruiz A, Martinez A, Madrigal L, Hincapie L, Arango JCL, Anthony DC, Koo EH, Goate AM, Selkoe DJ, Arango JCV. The E280A presenilin 1 Alzheimer mutation produces increased A β 42 deposition and severe cerebellar pathology. *Nature Medicine* 1996;2:1146-50.

56. Hakim R, Loeffler JS, Anthony DC, Black PM. Gangliogliomas in adults. *Cancer* 1997;79:127-31.
57. Poussaint TY, Barnes PD, Nichols K, Anthony DC, Cohen L, Tarbell NJ, Goumnerova L. Diencephalic syndrome: clinical features and imaging findings. *AJNR Am J Neuroradiol* 1997;18:1499-505.
58. Joseph JT, Richards CS, Anthony DC, Upton M, Perez-Atayde AR, Greenstein P. Congenital myotonic dystrophy pathology and somatic mosaicism. *Neurology* 1997;49:1457-60.
59. Bradford WD, Anthony DC, Pizzo SV. Career characteristics of pathology graduates of a Medical Scientist Training Program, 1970-1996. *Path Education* 1997;22:80-5.
60. Medlock MD, Madsen JR, Barnes PD, Anthony DC, Cohen LE, Scott RM. Optic chiasm astrocytomas of childhood. 1. Long-term follow-up. *Pediatric Neurosurg* 1997;27:121-8.
61. Young TL, Anthony DC, Pierce E, Foley E, Smith LE. Histopathology and vascular endothelial growth factor in untreated and diode laser-treated retinopathy of prematurity. *J Am Assoc Pediatr Ophthal Strabis* 1997;1:105-110.
62. Swoboda KJ, Engle EC, Scheindlin B, Anthony DC, Jones HR. Mutilating hand syndrome in an infant with familial carpal tunnel syndrome. *Muscle Nerve* 1998;21:104-11.
63. Wang GK, Vladimirov M, Shi H, Mok WM, Thalhammer JG, Anthony DC. Structure-activity relation of N-alkyl tetracaine derivatives as neurolytic agents for sciatic nerve lesions. *Anesthesiology* 1998;88:417-28.
64. Poussaint TY, Kowal JR, Barnes PD, Zurakowski D, Anthony DC, Goumnerova L, Tarbell NJ. Tectal tumors of childhood: clinical and imaging followup. *Am J Neuroradiol (AJNR)* 1998;19:977-83.
65. Le SY, Zhu JGG, Anthony DC, Greider CW, Black PM. Telomerase activity in human gliomas. *Neurosurg* 1998; 42:1120-4.
66. Feany MB, Anthony DC, Fletcher CDM. Nerve sheath tumours with hybrid features of neurofibroma and schwannoma: a conceptual challenge. *Histopathol* 1998;32:405-10.
67. Komori T, Scheithauer BW, Anthony DC, Rosenblum MK, McLendon RE, Scott RM, Okazaki H, Kobayashi M. Papillary glioneuronal tumor: a new variant of mixed neuronal-gliial neoplasm. *Am J Surg Pathol* 1998;22:1171-83.

68. Madsen JR, Vallat A-V, Poussaint TY, Scott RM, DeGirolami U, Anthony DC. Focal cortical dysplasia with glioproliferative changes causing seizures. *Pediatr Neurosurg* 1998;28:261-6.
69. Perez-Atayde AR, Fox V, Teitelbaum JE, Anthony DC, Rivkin M, Fadic R, Kalsner L, Rivkin M, Johns DR, Cox GF. Mitochondrial neurogastrointestinal encephalomyopathy (MNGIE): diagnosis by rectal biopsy. *Am J Surg Pathol* 1998;22:1141-7.
70. O'Tuama LA, Poussaint TY, Anthony DC, Treves ST. Childhood brain tumor: neuroimaging correlated with disease outcome. *Pediatr Neurol* 1998;19:259-62.
71. Young Poussaint TY, Yousuf N, Barnes PD, Anthony DC, Zurakowski D, Scott RM, Tarbell NJ. Cervicomedullary astrocytomas of childhood: clinical and imaging followup. *Pediatr Radiol* 1999;29:662-8.
72. Bönneman CG, Cox GF, Shapiro F, Wu JJ, Feener CA, Thompson TG, Anthony DC, Eyre DR, Darras BT, Kunkel LM. A mutation in the $\alpha 3$ chain of type IX collagen causes autosomal dominant multiple epiphyseal dysplasia with mild myopathy. *Proc Nat Acad Sci* 2000;97:1212-7.
73. Gerner P, Nakamura T, Quan CF, Anthony DC, Wang GK. Spinal tunicaine: potency and differential blockade of sensory and motor functions. *Anesthesiol* 2000; 92:1350-60.
74. Cheng LL, Anthony DC, Comite AR, Black PM, Tzika AA, Gonzalez RG. Quantification of microheterogeneity in glioblastoma multiforme with ex vivo high-resolution magic-angle spinning (HRMAS) proton magnetic resonance spectroscopy. *Neuro-Oncol* 2000; 2:87-95; PMID:PMC1919517
75. Tzika AA, Zurakowski D, Poussaint TY, Goumnerova L, Astrakas LG, Barnes PD, Anthony DC, Billett AL, Tarbell NJ, Scott RM, Black PM. Proton magnetic spectroscopic imaging of the child's brain: the response of tumors to treatment. *Neuroradiol* 2001;43:169-77.
76. Feany MB, Anthony DC, Frosch MP, Zane W, De Girolami U. Two cases with necrosis and hemorrhage in the putamen and white matter. *Brain Pathol* 2001;11:121-2.
77. Kohane DS, Lipp M, Kinney RC, Anthony DC, Louis DN, Lotan N, Langer R. Biocompatibility of lipid-protein-sugar particles containing bupivacaine in the epineurium. *J Biomed Mater Res* 2002;59:450-9.
78. Zarifi MK, Tzika AA, Astrakas LG, Poussaint TY, Anthony DC, Darras BT. Magnetic resonance spectroscopy and magnetic resonance imaging findings in Krabbe's disease. *J Child Neurol* 2001;16:522-6.

79. Tzika AA, Zarifi MK, Goumnerova L, Astrakas LG, Zurakowski D, Young-Poussaint T, Anthony DC, Scott RM, Black PM. Neuroimaging in pediatric brain tumors: Gd-DTPA-enhanced, hemodynamic, and diffusion MR imaging compared with MR spectroscopic imaging. *Am J Neuroradiol (AJNR)* 2002;23:322-33.
80. Tzika AA, Cheng LL, Goumnerova L, Madsen JR, Zurakowski D, Astrakas LG, Zarifi MK, Scott RM, Anthony DC, Gonzalez RG, Black PM. Biochemical characterization of pediatric brain tumors by in vivo and ex vivo magnetic resonance spectroscopy. *J Neurosurg* 2002;96:1023-31.
81. Gerner P, Mujtaba M, Khan M, Sudoh Y, Vlassakov K, Anthony DC, Wang GK. N-Phenylethyl amitriptyline in rat sciatic nerve blockade. *Anesthesiol* 2002;96:1435-1442.
82. Tzika AA, D, Astrakas LG, Zarifi MK, Petridou N, Young-Poussaint T, Goumnerova L, Zurakowski D, Anthony DC, Black PM. Multiparametric MR assessment of pediatric brain tumors. *Neuroradiol* 2003;45:1-10.
83. North PE, Anthony DC, Young TL, Waner M, Brown HH, Brodsky MC. Retinal neovascular markers in retinopathy of prematurity: aetiological implications. *Br J Ophthalmol* 2003;87:275-8; PMID: PMC1771566.
84. Robb RM, Anthony DC. Congenital cystic eye: recurrence after initial removal. *Ophthalmic Genetics* 2003;24:117-23. PMID 12789576
85. Kang PB, Lidov HGW, David WS, Torres A, Anthony DC, Jones HR, Darras BT. Diagnostic value of electromyography and muscle biopsy in arthrogryposis multiplex congenita. *Ann Neurol* 2003;54:790-5. PMID 14681888
86. Sudoh Y, Desai SP, Haderer AE, Sudoh S, Gerner P, Anthony DC, DeGirolami U, Wang GK. Neurologic and histopathologic evaluation after high-volume intrathecal amitriptyline. *Regional Anesth Pain Med* 2004;29:434-40. PMID 15372388
87. Astrakas LG, Zurakowski D, Tzika AA, Zarifi MK, Anthony DC, DeGirolami U, Tarbell NJ, Black PM. Non-invasive magnetic resonance spectroscopic imaging biomarkers to predict the clinical grade of pediatric brain tumors. *Clin Cancer Res* 2004;10:8220-8. PMID 15623597
88. Colodner KJ, Montana RA, Anthony DC, Folkerth RD, De Girolami U, Feany MB. Proliferative potential of human astrocytes. *J Neuropathol Exp Neurol* 2005;64:163-9. PMID 15751231
89. Marcus KJ, Astrakas LG, Zurakowski D, Zarifi MK, Mintzopoulos D, Poussaint TY, Anthony DC, DeGirolami U, Black PM, Tarbell NJ, Tzika AA. Predicting survival of children with CNS tumors using proton magnetic resonance spectroscopic imaging biomarkers. *Internat J Oncol* 2007;30:651-7. PMID 17273766

90. Johnson KD, Glinskii OV, Mossine VV, Turk JR, Mawhinney TP, Anthony DC, Henry CJ, Huxley VH, Glinsky GV, Peinta KJ, Raz A, Glinskii VV. Galectin-3 as a potential therapeutic target in tumors arising from malignant endothelium. *Neoplasia* 2007;9:662-70;PMCID:PMC1950436
91. Bolon B, Anthony DC, Butt M, Dorman D, Green MV, Little PB, Valentine WM, Weinstock D, Yan J, Sills RC. Current pathology techniques symposium review: Advances and issues in neuropathology. *Toxicol Pathol* 2008;36:871-89.
92. Aucar JA, Isaak E, Anthony DC. The effect of red blood cell age on coagulation. *Am J Surg* 2009;198:900-4. PMID: 19969149
93. Rath P, Miller DC, Litofsky NS, Anthony DC, Feng Q, Franklin C, Pei L, Free A, Liu J, Ren M, Kirk MD, Shi H. Isolation and characterization of a population of stem-like progenitor cells from an atypical meningioma. *Exp Molec Pathol* 2011; 90:179-88; PMCID:PMC3048914
94. Li F, Glinskii OV, Zhou J, Wilson LS, Barnes S, Anthony DC, Glinsky VV. Identification and analysis of signaling networks potentially involved in breast cancer metastasis to the brain. *Plos One* 2011; 6:e21977(1-14) doi:10.1371/journal.pone.0021977; PMCID:PMC3136937
95. Glinskii OV, Sud S, Mossine VV, Mawhinney TP, Anthony DC, Glinsky GV, Pienta KJ, Glinsky VV. Inhibition of prostate cancer bone metastasis by synthetic TF-antigen mimic/galectin-3 inhibitor lactulose-*L*-leucine. *Neoplasia* 2012;14:65-73; PMCID: PMC3281943.
96. Chen A, Shin D, Chen S, Mikhail K, Hadass O, Tomlison BN, Korkin D, Shyu CR, Cui J, Anthony DC, Gu Z. Histological quantitation of brain injury using whole slide imaging: A pilot validation study in mice. *PLoS ONE* 2014; 9(3): e92133. doi:10.1371/journal.pone.0092133; PMCID: PMC3956884
97. Lee EJ, Rath P, Liu J, Ryu D, Free A, Pei L, Feng Q, Litofsky NS, Miller DC, Anthony DC, Kirk MD, Laterra JJ, Ryu D, Choi JH, Shi H. Identification of global DNA methylation signatures in glioblastoma-derived cancer stem cells. *J Genetics Genomics* 2015;42:355-71. PMID 26233891, PMCID: PMC 4648292
98. Chambers K, Anthony DC, Randolph G, Hartnick C, Stopa E, Song P. Atrophy of the tongue following complete versus partial hypoglossal nerve transection in a canine model. *Laryngoscope* 2016; doi: 10.1002/lary.26065. [Epub ahead of print] PubMed PMID: 27271961.

BOOKS AND BOOK CHAPTERS

99. Graham DG, Szakal-Quin Gy, Milam L, Gottfried MR, Anthony DC. Pathogenetic studies of the neurofilamentous neuropathies. In: Clarkson TW, Sager PR, Syversen TLM, eds. The cytoskeleton. New York: Plenum Publishing Corporation, 1986:167-74.
100. Graham DG, St. Clair MBG, Anthony DC. Molecular pathogenesis of *n*-hexane neuropathy. In: Singer TP, Castagnoli N, Wang CC, eds. Molecular Basis of the Action of Drugs and Toxic Substances. Berlin: Walter de Gruyter, 1988:14-21.
101. Graham DG, Anthony DC, Szakal-Quin Gy, Gottfried MR, Boekelheide K. Covalent crosslinking of neurofilaments in the pathogenesis of *n*-hexane neuropathy, In: Graham DG, Lowndes HE, Cranmer JN, eds. The neurofilamentous axonopathies: The neurotoxicology of acrylamides, IDPN, hexacarbons, and carbon disulfide. Little Rock: Intox Press, 1985:55-64.
102. Graham DG, St. Clair MBG, Amarnath V, Anthony DC. Molecular mechanisms of γ -diketone neuropathy. In: Witmer CM, Snyder RR, Jollow DJ, Kalf GF, Kocsis JJ, Sipes IG, eds. Biological reactive intermediates IV: Molecular and cellular effects and their impact on human health. Advances in Experimental Medicine and Biology. New York: Plenum Press, 1991:283:427-31.
103. Graham DG, Valentine WM, Amarnath V, Anthony DC. Molecular studies of *n*-hexane and carbon disulfide neuropathies. In: In vitro toxicology: Mechanisms and new technology, alternative methods in toxicology, Volume 8. New York: Liebert, 1991:19-21.
104. Anthony DC, Tucker JA. Histiocytosis X affecting the nervous system. In: Wilkins RH, Rengachary SS, eds. Neurosurgery Update, Volume II. New York: McGraw-Hill Book Company, 1991:36-41.
105. Anthony DC, Graham DG. Toxic responses of the nervous system. In: Klaassen CD, Amdur MO, Doull J, eds. Casarett and Doull's Toxicology: The Basic Science of Poisons, 4th Edition. New York: Macmillan Publishing Company, 1991:407-29.
106. DeGirolami UL, Anthony DC, Frosch MP. Peripheral nerve and skeletal muscle. In: Cotran RS, Kumar V, Robbins SL, eds. Robbins Pathologic Basis of Disease, 5th Edition. Philadelphia: W B Saunders Company, 1994:1273-94.
107. DeGirolami UL, Frosch MP, Anthony DC. Central nervous system. In: Cotran RS, Kumar V, Robbins SL, eds. Robbins Pathologic Basis of Disease, 5th Edition. Philadelphia: W B Saunders Company, 1994:1295-356.

108. Graham DG, Amarnath V, Eng MA, Kazaks EL, Valentine WM, Anthony DC. Biomolecular basis for organic solvent neurotoxicity. In: Chang LW, Dyer RS, eds. Handbook of Neurotoxicology. (Koller WC, Series ed. Neurologic Disease and Therapy, Vol 36.). New York: Marcel Dekker, Inc., 1995:401-12.
109. DeGirolami UL, Anthony DC, Frosch MP. Peripheral nerve and skeletal muscle. In: Robbins SL, Cotran RS, Kumar V, eds. Pocket Companion to Robbins Pathologic Basis of Disease, 2nd Edition. Philadelphia: W B Saunders Company, 1995:502-14.
110. DeGirolami UL, Frosch MP, Anthony DC. Central nervous system. In: Robbins SL, Cotran RS, Kumar V, eds. Pocket Companion to Robbins Pathologic Basis of Disease, 2nd Edition. Philadelphia: W B Saunders Company, 1995:515-39.
111. Anthony DC, Tucker JA. Langerhans cell histiocytosis (Histiocytosis X). In: Wilkins RH, Rengachary SS, eds. Neurosurgery, 2nd Edition. New York: McGraw-Hill Companies, 1996: (Vol II) 1751-6.
112. Anthony DC, Vogel FS. Peripheral nervous system. In: Damjanov I, Linder J, eds. Anderson's Textbook of Pathology, 10th Edition. St. Louis: Mosby-Year Book, Inc., 1996:2799-831.
113. Anthony DC, Montine TJ, Graham DG. Toxic responses of the nervous system. In: Klaassen CD, Amdur MO, Doull J, eds. Casarett and Doull's Toxicology: The Basic Science of Poisons, 5th Edition. New York: Macmillan Publishing Company, 1996:463-86.
114. Schoene WC, Anthony DC, Folkerth RF, DeGirolami UL. Neuropathology of central nervous system tumors. In: Black PM, Loeffler J, eds. Cancer of the Nervous System. Cambridge MA: Blackwell Science, 1996:25-53.
115. DeGirolami UL, Anthony DC, Frosch MP. Peripheral nerve and skeletal muscle. In: Cotran RS, Kumar V, Robbins SL, Collins T, eds. Robbins Pathologic Basis of Disease, 6th Edition. Philadelphia: W B Saunders Company, 1998:1269-91.
116. DeGirolami UL, Frosch MP, Anthony DC. The central nervous system. In: Cotran RS, Kumar V, Robbins SL, Collins T, eds. Robbins Pathologic Basis of Disease, 6th Edition. Philadelphia: W B Saunders Company, 1998:1293-357.
117. DeGirolami UL, Anthony DC, Frosch MP. Diseases of peripheral nerves and muscles. In: Cotran RS, Kumar V, Robbins SL, Collins T, eds. Pocket Companion to Robbins Pathologic Basis of Disease, 6th Edition. Philadelphia: W B Saunders Company, 1999:618-632.

118. DeGirolami UL, Frosch MP, Anthony DC. Diseases of the central nervous system. In: Cotran RS, Kumar V, Robbins SL, Collins T, eds. Pocket Companion to Robbins Pathologic Basis of Disease, 6th Edition. Philadelphia: W B Saunders Company, 1999:633-661.
119. DeGirolami UL, Anthony DC. Diseases of skeletal muscle and peripheral nerve. In: Dickersin GR, Diagnostic Electron Microscopy, 2nd Edition. New York: Springer Publishers, 2000:912-989.
120. Anthony DC, Montine TJ, Valentine WM, Graham DG. Toxic responses of the nervous system. In: Klaassen CD, Amdur MO, Doull J, eds. Casarett and Doull's Toxicology: The Basic Science of Poisons, 6th Edition. New York: Macmillan Publishing Company, 2001:535-63.
121. DeGirolami UL, Anthony DC. Nerve and muscle biopsy. In: Katirja B, Kaminski HJ, Preston DC, Ruff RL, Shapiro BE, eds. Neuromuscular Disorders in Clinical Practice. Woburn, MA: Butterworth-Heinemann Publishers, 2001:223-46.
122. Anthony DC, DeGirolami U, Shapiro F. Muscle biopsy. In: Jones HR, DeVivo DC, Darras BT, eds. Neuromuscular Disorders of Infancy, Childhood, and Adolescence: A Clinician's Approach. Philadelphia, PA: Butterworth-Heinemann Publishers, 2003:75-90.
123. Anthony DC, Montine TJ, Valentine WM, Graham DG. Toxic responses of the nervous system. In: Klaassen CD, Watkins JB, eds. Casarett and Doull's Essentials of Toxicology. New York: McGraw-Hill, 2003:233-51.
124. Vallat JM, Anthony DC, DeGirolami U. Peripheral nerve diseases. In Gray F, De Girolami U, Poirier J, eds. Manual of Basic Neuropathology, 4th Edition. Philadelphia, PA: Butterworth-Heinemann Publishers, 2003:315-43.
125. Anthony DC, Goebel HH, Mikol J. Hereditary metabolic diseases. In Gray F, De Girolami U, Poirier J, eds. Manual of Basic Neuropathology, 4th Edition. Philadelphia, PA: Butterworth-Heinemann Publishers, 2003:219-48.
126. Anthony DC, Frosch MP, DeGirolami UL. Peripheral nerve and skeletal muscle. In: Kumar V, Abbas AK, Fausto N, eds. Robbins and Cotran Pathologic Basis of Disease, 7th Edition. Philadelphia: Elsevier Saunders, 2005:1325-1346.
127. Frosch MP, Anthony DC, DeGirolami UL. The central nervous system. In: Kumar V, Abbas AK, Fausto N, eds. Robbins and Cotran Pathologic Basis of Disease, 7th Edition. Philadelphia: Elsevier Saunders, 2005:1347-1419.

128. Anthony DC, Frosch MP, DeGirolami UL. Peripheral nerve and skeletal muscle. In: Mitchell RN, Kumar V, Abbas AK, Fausto N, eds. Pocket Companion to Robbins Pathologic Basis of Disease, 7th Edition. Philadelphia: W B Saunders Company, 2006:659-72.
129. Frosch MP, Anthony DC, DeGirolami UL. The central nervous system. In: Mitchell RN, Kumar V, Abbas AK, Fausto N, eds. Pocket Companion to Robbins Pathologic Basis of Disease, 7th Edition. Philadelphia: W B Saunders Company, 2006:673-708.
130. Anthony DC, Frosch MP, DeGirolami UL. Peripheral nerve and skeletal muscle. In: Kumar V, Abbas AK, Fausto N, Aster JC, eds. Robbins and Cotran Pathologic Basis of Disease, 8th Edition. Philadelphia: Elsevier Saunders, 2010:1257-77.
131. Frosch MP, Anthony DC, DeGirolami UL. The central nervous system. In: Kumar V, Abbas AK, Fausto N, Aster JC, eds. Robbins and Cotran Pathologic Basis of Disease, 8th Edition. Philadelphia: Elsevier Saunders, 2010:1279-1344.
132. Montine TJ, Anthony DC. Toxicological neuropathology in medical practice. In: Bolon B, Butt M, eds. Fundamental Neuropathology for Pathologists and Toxicologists: Principles and Techniques. Hoboken NJ: Wiley, 2011:475-486.
133. Anthony DC, Frosch MP, DeGirolami UL. Peripheral nerve and skeletal muscle. In: Mitchell RN, Kumar V, Abbas AK, Fausto N, Aster JC, eds. Pocket Companion to Robbins Pathologic Basis of Disease, 8th Edition. Philadelphia: W B Saunders Company, 2012:642-56.
134. Frosch MP, Anthony DC, DeGirolami UL. The central nervous system. In: Mitchell RN, Kumar V, Abbas AK, Fausto N, Aster JC, eds. Pocket Companion to Robbins Pathologic Basis of Disease, 8th Edition. Philadelphia: W B Saunders Company, 2012:657-89.
135. Vallat JM, Anthony DC, DeGirolami U. Peripheral nerve. In Gray F, De Girolami U, Duyckaerts C, eds. Escourolle and Poirier Manual of Basic Neuropathology, 5th Edition. Oxford, UK: Oxford University Press, 2014; 313-342.
136. Sedel F, Anthony DC, Goebel HH. Hereditary metabolic diseases. In Gray F, De Girolami U, Duyckaerts C, eds. Escourolle and Poirier Manual of Basic Neuropathology, 5th Edition. Oxford, UK: Oxford University Press, 2014; 227-256.
137. Anthony DC, Lacomis D. Critical illness polyneuropathy. In: Vallat J-M, Weis J, eds. Peripheral Nerve Disorders: Pathology and Genetics. Oxford, UK: Wiley Blackwell, 2014; 273-5.
138. Bilbao J, Anthony DC, De Girolami U. Methods for examination of peripheral nerve. In: Vallat J-M, Weis J, eds. Peripheral Nerve Disorders: Pathology and Genetics. Oxford, UK: Wiley Blackwell, 2014; 24-9.

139. Pytel P, Anthony DC. Peripheral nerve and skeletal muscle. In: Kumar V, Abbas AK, Aster JC, eds. Robbins and Cotran Pathologic Basis of Disease, 9th Edition. Philadelphia: Elsevier Saunders, 2015; 1227-50.
140. Frosch MP, Anthony DC, DeGirolami UL. The central nervous system. In: Kumar V, Abbas AK, Aster JC, eds. Robbins and Cotran Pathologic Basis of Disease, 9th Edition. Philadelphia: Elsevier Saunders, 2015; 1251-1318.
141. Anthony DC, DeGirolami U, Vallat JM. Peripheral nerve. In Gray F, De Girolami U, Duyckaerts C, eds. Escourolle and Poirier Manual of Basic Neuropathology, 6th Edition. Oxford, UK: Oxford University Press, 2017; in preparation.
142. Anthony DC, Goebel HH. Hereditary metabolic diseases. In Gray F, De Girolami U, Duyckaerts C, eds. Escourolle and Poirier Manual of Basic Neuropathology, 6th Edition. Oxford, UK: Oxford University Press, 2017; in preparation.

OTHER NON-PEER REVIEWED PUBLICATIONS

143. Anthony DC. Ultrastructural Study of the Human Diseased Peripheral Nerve: 2nd Edition. Vital C, Vallat JM. Arch Pathol Lab Med 1989;113:815.
144. Anthony DC. Textbook of Neuropathology: 2nd Edition. Davis RL, Robertson DM, eds. Am J Clin Pathol 1992;96:401.
145. Anthony DC. Quality and cost are inter-related in pathology. Society for Pediatric Pathology Newsletter, Fall 1995:3-4.
146. Anthony DC. Specificity of neurofilamentous swelling and axonal atrophy. Neurotoxicol 1997;18:23-4.

INVITED PRESENTATIONS

1. Anthony DC. "The molecular pathogenesis of hexane neuropathy." Society of Toxicology, Las Vegas, Nevada, March 9, 1983.
2. Anthony DC. "Neurotoxicology." IBM Conference on Clinical and Occupational Toxicology, Research Triangle Park, NC, 1988.
3. Moser VC, Phillips PM, Anthony DC, Sette WF, MacPhail RC. "Final report of subchronic study of 2-hydroxyethyl acrylate and acrylamide in rats." Report to the Office of Toxic Substances. 1989; #68-02-4450.

4. Anthony DC. "The toxic neurofilamentous neuropathies: An experimental model with implications for axonal dystrophies." Mayo Clinic, Rochester, Minnesota, 1989.
5. Anthony DC. "Adrenoleukodystrophy: A reappraisal of the selective demyelination." Department of Neurology, Mayo Clinic, Rochester, Minnesota, 1989.
6. Anthony DC. "Diagnostic neuropathology." Department of Pathology, Mayo Clinic, Rochester, Minnesota, 1989.
7. Anthony DC. "Understanding axonal dystrophies: The use of toxic models." University of Nebraska, Omaha, Nebraska, 1989.
8. Anthony DC. "Toxic disruption of the axonal cytoskeleton." Stanford University, Palo Alto, California, 1989.
9. Anthony DC. "Neurotoxicology." In: Principles of environmental and industrial toxicology, Institute of Chemical Toxicology, Wayne State University, Detroit, MI, 1989.
10. Anthony DC. "Evaluating patients with peripheral neuropathies: The use of teased fiber preparations." Society of Histotechnology, Raleigh, NC, 1990.
11. Anthony DC. "The cellular basis of neurotoxicology." Duke University Division of Occupational Health Sciences, Durham, NC, 1990.
12. Anthony DC. "Toxic models of neurofilament accumulation: A form of axonal dystrophy." Program in Toxicology, North Carolina State University, Raleigh, NC, 1991.
13. Anthony DC. "The use of toxic models to understand neurologic disease." The University of Alabama, Birmingham, AL, 1991.
14. Anthony DC. "Toxic models of neurologic disease." The University of Florida, Gainesville, FL, 1991.
15. Anthony DC. "Peripheral neuropathies." Department of Neurology, Mayo Clinic, Rochester, MN, 1991.
16. Anthony DC. "Disruption of axonal transport." Department of Pathology, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, 1991.
17. Anthony DC. "Disorders of peripheral nerve." The F. Stephen Vogel Clinical Pathological Correlation in Practical Neuropathology, Durham, NC, 1991.
18. Anthony DC, Pyle SJ. "Impairment of the translocation of intermediate filaments." In: Involvement of the cytoskeleton in chemical-induced neurodegenerative disorders, The International Neurotoxicology Association, Elsinore, Denmark, 1993.

19. Graham DG, Valentine WM, Amarnath V, Anthony DC. "Mechanism of protein cross-linking by hexane and carbon disulfide." International Society for the Study of Xenobiotics, Raleigh, NC, 1994.
20. Anthony DC. "Neuropathology: clinical and scientific frontiers." The Medical Scientist Symposium Series, Brown University, Providence, RI, May, 1994.
21. Anthony DC. "Quantitation of molecular injury in neurotoxicology." Visiting Lecture Series, Joint Program in Toxicology, Rutgers University, Piscataway and University of Medicine and Dentistry of New Jersey - Robert Wood Johnson Medical School, Brunswick, NJ, November, 1994.
22. Anthony DC. "Glial tumor grading and pathology and radiation necrosis." Harvard University Continuing Education Course "Tumors of the Central Nervous System: Brain Tumor Management", Boston, MA, November, 1995.
23. Anthony, DC. Clinical commentator, Brain Tumor Symposium: Research Presentations and Clinical Perspectives, Sponsored by the Brain Tumor Society, Boston, MA, December, 1995.
24. Anthony DC. "Peripheral nerve biopsies." Symposium presentation, College of American Pathologists, Boston, MA, April, 1996.
25. Anthony DC. "Peripheral nerve biopsies: issues in handling and evaluation." Department of Pathology, University of Kansas, Kansas City, KS, August, 1996.
26. Anthony DC. "Neuromuscular Case Studies." Visiting Professor, Department of Pathology, University of Kansas, Kansas City, KS, August, 1996.
27. Anthony DC. "Brain Tumor Pathology." Harvard University Continuing Education Course "Tumors of the Central Nervous System: Brain Tumor Management", Boston, MA, November, 1996.
28. Anthony DC. "Challenging cases in brain tumor pathology." Harvard University Continuing Education Course "Tumors of the Central Nervous System: Brain Tumor Management", Boston, MA, November, 1996.
29. Anthony DC. "Peripheral nerve biopsies: pathologic evaluation and clinical integration." Massachusetts General Hospital, Pathology Grand Rounds, Boston, MA, November, 1996.
30. Anthony DC. "Diseases of the peripheral nervous system." Neurosurgical Grand Rounds, Brigham and Women's Hospital and Children's Hospital Program in Neurosurgery, Boston, MA, January, 1997.

31. Anthony DC, DeGirolami U. "Problems in neuromuscular pathology: Evaluation of nerve and muscle biopsies." Symposium presentation, United States and Canadian Academy of Pathology, Orlando, FL, March, 1997.
32. Anthony DC. "Neuropathology Diagnostic Slide Session - Lhermitte Duclos disease." Symposium presentation, United States and Canadian Academy of Pathology, Orlando, FL, March, 1997.
33. Anthony DC. "Peripheral nerve biopsies: pathologic evaluation and clinical integration." Spaulding Hospital Grand Rounds, Boston, MA, March, 1997.
34. Anthony DC. "Peripheral nerve biopsies: current issues in handling and evaluation." New England Deaconess Hospital, Pathology Conference, Boston, MA, April, 1997.
35. Anthony DC. "Primitive neuroectodermal tumors in childhood." Universidade Federal de São Paulo, Escola de Medicina, São Paulo, Brazil, April, 1997.
36. Anthony DC. "Myopathies of childhood." Universidade Federal de São Paulo, Escola de Medicina, São Paulo, Brazil, April, 1997.
37. Anthony DC. "Case discussions: Neuropathology." Universidade Federal de São Paulo, Escola de Medicina, São Paulo, Brazil, April, 1997.
38. Anthony DC. "Classification and grading human gliomas: current issues." University of South Florida, Tampa, FL, April, 1997.
39. Anthony DC. "Peripheral neuropathies." The Chinese University of Hong Kong Program in Neuropathology, Beijing, China, September, 1997.
40. Anthony DC. "Malignant tumors of childhood." The Chinese University of Hong Kong Program in Neuropathology, Beijing, China, September, 1997.
41. Anthony DC, DeGirolami U. "Evaluation of muscle biopsies." The Chinese University of Hong Kong Program in Neuropathology, Beijing, China, September, 1997.
42. Anthony DC. "Neuropathology Diagnostic Session; Case Studies for Pathologists." The Chinese University of Hong Kong Program in Neuropathology, Beijing, China, September, 1997.
43. Anthony DC. "Evaluation of biopsies from patients with neuromuscular disease" Harvard Longwood Neurology Program, Harvard Institutes of Medicine, Boston, MA, October, 1997.

44. Anthony DC. "Brain Tumor Pathology." Harvard University Continuing Education Course "Tumors of the Central Nervous System: Brain Tumor Management", Boston, MA, November, 1997.
45. Anthony DC. "Challenging cases in brain tumor pathology." Harvard University Continuing Education Course "Tumors of the Central Nervous System: Brain Tumor Management", Boston, MA, November, 1997.
46. Anthony DC. "Neuropathology Diagnostic Slide Session - Dysembryoplastic neuroepithelial tumor." Symposium presentation, United States and Canadian Academy of Pathology, Boston, MA, March, 1998.
47. Anthony DC. "Neuropathology Diagnostic Slide Session - Choroid plexus neoplasms." Symposium presentation, United States and Canadian Academy of Pathology, San Francisco, CA, March, 1999.
48. Anthony DC, DeGirolami U. "Problems in neuromuscular pathology: Evaluation of nerve and muscle biopsies." Symposium presentation, United States and Canadian Academy of Pathology, San Francisco, March, 1999.
49. Anthony DC. "Diagnostic Neuropathology: Current Issues with Case Presentations." Visiting Professor, Vanderbilt University, Nashville, TN, May, 1999.
50. Anthony DC. "Surgical Neuropathology." Diagnostic Pathology, United States and Canadian Academy of Pathology, Minneapolis, MN, August, 1999.
51. Anthony DC. "Complex Cases in Brain Tumor Pathology." Harvard University Continuing Education Course "Tumors of the Central Nervous System: Brain Tumor Management", Boston, MA, November, 1999.
52. Anthony DC. "Inherited and storage diseases of peripheral nerve." Ultrastructural Pathology Meeting Symposium, held jointly with the United States and Canadian Academy of Pathology meeting, New Orleans, LA, March, 2000.
53. Anthony DC. "Pathologic evaluation of peripheral neuropathies." St. Lukes Hospital Neuroscience Symposium, Manila, Philippines, October, 2000.
54. Anthony DC. "Leukodystrophies and demyelinating diseases of childhood." St. Lukes Hospital Neuroscience Symposium, Manila, Philippines, October, 2000.
55. Anthony DC. "Current Trends in Pediatric Autopsies." Surgical Grand Rounds, Children's Hospital, Boston, MA, January, 2001.
56. Anthony DC. "Pediatric Autopsies: A Post-Mortem Analysis." Oncology Grand Rounds, Dana Farber Cancer Institute, Boston, MA, January, 2001.

57. Anthony DC. "Peripheral Nerve Biopsies: Current Diagnostic Issues." Department of Pathology, Medical College of Georgia, Augusta, GA, March, 2001.
58. Anthony DC. "Peripheral Neuropathy: Pathologic and Molecular Classification." Department of Pathology, University of Tennessee, Memphis, TN, May, 2001.
59. Anthony DC. "Disorders of the Axon: Pathologic and Molecular Classification." Department of Pathology, University of Missouri, Columbia, MO, May, 2001.
60. Anthony DC. "The Autopsy: A Post-Mortem Analysis." Vanderbilt University, Department of Pathology, Nashville, TN, January, 2003
61. Anthony DC. "The Autopsy: A Post-Mortem Analysis." Medicine Grand Rounds, University of Missouri, Columbia, MO, February, 2003
62. Anthony DC. "Brain Tumors: Refining the Current Classification with Biochemical and Molecular Markers." Surgery Grand Rounds, University of Missouri, Columbia, MO, March, 2004
63. Anthony DC. "Seminar on Advanced Pathologic Techniques: Current Issues in Neuropathology." American College of Veterinary Pathologists and ILSI Health and Environment Sciences Institute, Boston, MA, December, 2005
64. Anthony DC. "Case 2006-9; AANP Diagnostic Slide Session." International Congress of Neuropathology, San Francisco, CA, September, 2006
65. Anthony DC. "Brain Tumors: Refining the Classification in the Molecular Era." Kansas University Pediatric Grand Rounds, Kansas City, KS, November, 2006
66. Resnik AG, Anthony DC. "The Role of the Hippocampus in Memory Formation." University of Missouri, Psychiatry Grand Rounds, Columbia, MO, November, 2006
67. Anthony DC. "Using the Autopsy to Improve Patient Care." University of Missouri, Internal Medicine Grand Rounds, Columbia, MO, January, 2007.
68. Anthony DC. "Forensic pathology: Meeting the RRC mandates while serving the community." Association of Pathology Chairpersons, Puerto Vallarta, Mexico, November, 2007.
69. Anthony DC. "Non-occlusive cerebrovascular injury of the brain." University of Missouri, Neurology Grand Rounds, Columbia, MO, January, 2008.
70. Anthony DC, Stacy CC. "Forensic pathology – the scientific basis of post-mortem diagnosis." U.S. Department of Justice and Missouri Supreme Court-Sponsored ASTAR

(Advanced Science and Technology Adjudication Resource) Presentation, Columbia, Missouri, 2008.

71. Anthony DC. “Center for Translational Neurosciences Research”. Neurosurgery Conference, Columbia, MO, 2008.
72. Anthony DC. “ACGME Requirements for Pathology Residency Programs”. Association of Pathology Chairs, Maui, HI, 2008.
73. Anthony DC, Smith FH. “Medical Examiners As Part Of The CSI Team”. Association of County Commissioners, State of Missouri, Jefferson City, MO, February, 2009.
74. Anthony DC. “Brain Tumors: Current Classification and New Horizons”. Pathology Grand Rounds, Kansas University Medical Center, Kansas City, KS, 2009.
75. Anthony DC. “Expert Panel Discussion – Translational Research in Bioelectrics”, International Bioelectric Symposium, Columbia, MO, 2009.
76. Anthony DC, Miller DC. “Pyogenic Infections of the CNS.” Neurology Grand Rounds, University of Missouri, Columbia, MO, 2009.
77. Anthony DC. “Brain Tumors: A Look at the Horizon.” Seminars in Translational Neurosciences, University of Missouri, Columbia, MO, 2010.
78. Anthony DC, Miller DC. “Viral Encephalopathies.” Neurology Grand Rounds, University of Missouri, Columbia, MO, 2010.
79. Anthony DC. “Statistics and Scientific Certainty.” U.S. Department of Justice-Sponsored ASTAR (Advanced Science and Technology Adjudication Resource) Boot Camp, Language of the Court-Related Sciences, St. Louis, Missouri, 2010.
80. Anthony DC. “Statistical Approaches to Medical Certainty.” U.S. Department of Justice-Sponsored ASTAR (Advanced Science and Technology Adjudication Resource) Boot Camp, Language of the Court-Related Sciences, St. Louis, Missouri, 2010.
81. Anthony DC. “Translational Neurosciences – An Introduction to the Approach at the University of Missouri.” Translational Neuroscience Symposium, Columbia, Missouri, 2011.
82. Anthony DC. “State of the Science: Brain Development and Anatomy.” Plenary Lecture, U.S. Department of Justice-Sponsored ASTAR (Advanced Science and Technology Adjudication Resource) Conference, Developmental Forensics of Children Adjudicated by Courts, Chapel, NC, 2011.

83. Anthony DC. “Fetal Alcohol Syndrome.” Workshop and Lecture, U.S. Department of Justice-Sponsored ASTAR (Advanced Science and Technology Adjudication Resource) Conference, Developmental Forensics of Children Adjudicated by Courts, Chapel, NC, 2011.
84. Anthony DC. “Functional Neuroanatomy of Learning and Memory.” American Society for Neurochemistry, St. Louis, MO, 2011.
85. Anthony DC. “Oxidative and Nitrosative Stress: A Double-Edged Sword in Neurodegenerative Disease.” Chair, American Society for Neurochemistry Colloquium, St. Louis, MO, 2011.
86. Anthony DC. “MU Center for Translational Neuroscience – An Update”. Translational Biomedicine Seminar, University of Missouri, Columbia, MO, 2011.
87. Anthony DC. “Declarative and Non-declarative Memory – The Functional Anatomy of Remembering What and How.” Medical Sciences Seminar Series, University of Missouri, Columbia, MO.
88. Anthony DC. “A Center for Translational Neuroscience – Coordinating Clinical and Basic Science Research Programs.” Brown University and Lifespan Academic Medical Center, Providence, RI, 2011.
89. Anthony DC. “Mission-Based Metrics in Academic Pathology.” Association of Pathology Chairs, Monterey, CA, 2011.
90. Anthony DC. “Overview – Communications in Forensics: A Multidisciplinary Approach to Problematic Cases.” Branson, MO, 2011.
91. Anthony DC. “Gliomas: Pathway to Personalized Diagnostics.” Yale University, School of Medicine, Pathology Grand Rounds, New Haven, CT, 2013.
92. Anthony DC. “Neuropathology Difficult Case Conference.” Yale University, School of Medicine, Pathology Resident Slide Session, New Haven, CT, 2013.
93. Anthony DC. “Digital Imaging in Histopathology.” American Society of Clinical Laboratory Sciences, Providence, RI, 2014.
94. Anthony DC. “The Future of Pathology and Laboratory Medicine: Looking toward 2020”. Pathology Grand Rounds, Brown University, 2015.
95. Anthony DC. “Web Site and Digital Technologies – The Plan for Neuropathology” American Association of Neuropathologists, Denver, CO, 2015.

96. Anthony DC, Pytel P. "Nerve and Muscle Biopsies: A patient-centered approach for the general pathologist", United States and Canadian Academy of Pathology, Seattle, WA, 2016
97. Anthony DC. "Advances in the Web Presence for the American Association of Neuropathologists – Committee Report - <http://www.neuropath.org/>", Baltimore, MD, 2016.
98. Anthony DC. "Update on the American Association of Neuropathologists Website and Member Engagement", Baltimore, MD, 2015.

GRANTS

1. Environmental Toxicant-Induced Neurofilament Neuropathology
National Institutes of Health/R01, 1984 - 1989
Co-investigator (National Institute of Environmental Health Sciences; Dr. D. G. Graham, Principal Investigator)
Goal: To investigate the molecular mechanisms involved in neurofilament accumulation in toxic neuropathies.
2. Toxic Models of Neurofibrillary Pathology
National Institutes of Health/K08, 1987 - 1992
Principal Investigator (National Institute of Neurological Disorders and Stroke)
Goal: To investigate the molecular mechanisms involved in neurofilament accumulation in toxic neuropathies and implications for neurologic diseases.
3. Environmental Toxicant-Induced Neurofilament Neuropathy
National Institutes of Health/R37 MERIT Award, 1989 - 1999
Co-investigator (National Institute of Environmental Health Sciences; Dr. D. G. Graham, Principal Investigator)
Goal: To investigate the molecular mechanisms involved in neurofilament accumulation in toxic neuropathies, and structure-activity relationships.
4. Duke University Medical Scientist Training Program
National Institutes of Health/T32, 1989 - 1992
Associate Program Director (National Institute of General Medical Sciences; Dr. S. V. Pizzo, Program Director)
Goal: To train physician scientists in a rigorous traditional scientific environment and a novel medical school curriculum.
5. Hemoglobin Adducts: Dosimeter of Internal Exposure
National Institutes of Health/R01, 1989 - 1995
Principal Investigator (National Institute of Environmental Health Sciences)
Goal: To quantify toxic exposures using hemoglobin covalent adducts as an internal dosimeter.

6. Duke University Medical Scientist Training Program
National Institutes of Health/T32, 1992 - 1997
Associate Program Director (National Institute of General Medical Sciences; Dr. S. V. Pizzo, Program Director)
Goal: To train physician scientists in a rigorous traditional scientific environment and a novel medical school curriculum.
7. Studies on the Intra-axonal Transport of Neurofilaments
Feodor Lynen Foundation Research Award, 1994 - 1995
Principal Investigator (Alexander von Humboldt Foundation)
Goal: To study the movement of neurofilament proteins within the axon in models of neurologic disease.
8. P-selectin Expression and Leukocyte Recruitment in Brain
National Institutes of Health/R01, 1994 - 1998
Consultant (Dr. T. Mayadas-Norton, Principal Investigator)
Goal: To identify and quantify the migration of leukocytes within the brain in response to inflammatory stimuli.
9. MRI Single Voxel Spectroscopy in Pediatric Brain Tumors
American Cancer Society Research Award, 1994 - 1998
Co-investigator (Dr. A. Tzika, Principal Investigator)
Goal: To compare signals obtained by magnetic resonance spectroscopy with the cellular pathology of brain tumors.
10. Intermediate Filament Localization: Control of Synthesis and Translocation
Wilkes Foundation Research Award, 1996 - 2001
Principal Investigator (Wilkes Foundation)
Goal: To characterize the synthesis and movement of intermediate filaments within cells, and the alteration of movement induced in pathologic conditions.
11. Local Control of Immune Activity in the Brain
National Institutes of Health/R01, 1997 - 2000
Co-Investigator (Dr. L. Lampson, Principal Investigator)
Goal: To characterize lymphocytic infiltration of the brain and local environments that participate in immune activity within the brain.
12. Metabolic and Hemodynamic MR Characterization of Pediatric Brain Tumors
American Cancer Society Research Award, 1998 - 2001
Co-Investigator (Dr. A. Tzika, Principal Investigator)
Goal: To compare signals obtained by magnetic resonance spectroscopy and diffusion-weighted imaging with the cellular pathology of brain tumors.
13. Consented High-Performance Indexing and Retrieval of Pathology Specimens

- National Institutes of Health, Program Project in Pathology Informatics, 2001
Co-Investigator (NCI Pathology Informatics, Dr. I. Kohane, Principal Investigator; Inter-institutional Dana Farber/Harvard Cancer Center, Massachusetts General Hospital, Brigham and Women's Hospital, and Children's Hospital)
Goal: To develop indexing and retrieval strategies for pathology specimens using diagnostic text with context specificity.
14. Neuro-oncology SPORE Grant
National Institutes of Health/SPORE, 2001
Co-Investigator; Children's Hospital Director (National Cancer Institute, Dr. D. Louis, Program Director)
Goal: To develop a specialized center for research across multiple Harvard-affiliated institutions to correlate cellular and molecular markers in brain tumors with prognosis and clinical outcome.
15. Therapeutic Na⁺ channel blockers: receptor and drug design
National Institutes of Health/2RO1-GM48090, 2000 - 2004
Co-Investigator (Dr. G. K. Wang, Principal Investigator)
Goal: To develop sodium channel blockers that create long-lasting pain control while avoiding peripheral nerve toxicity.
16. Evaluation of Astrocytomas with HRMAS 1H-MR Spectroscopy
National Institutes of Health/R01-CA77727, 1999 - 2004
Co-Investigator (National Cancer Institute, Dr. L. Cheng, Principal Investigator)
Goal – To utilize high-resolution magnetic imaging spectroscopy in combination with magic angle spinning techniques to characterize the high-intensity signals emanating from brain tumors, and identify the cellular and molecular basis of these signals.
17. Continuum of Guidance With a Network of Mentors
National Science Foundation Presidential Recognition Award/ HRD-0328407, 2004-2006
Principal Investigator (Dr. Ellis Ingram, Nominee)
Goal – To establish a network of individuals in scientific fields to provide a continuum of mentoring for underrepresented minorities of ages K-20, and facilitate their inclusion in scientific and medical professions.
18. Therapeutic Na⁺ Channel Blockers: Receptor and Drug Design
National Institutes of Health/2RO1- GM48090, 2004 - 2008
Consultant, 5% Effort (Dr. G. K. Wang, Principal Investigator)
Goal – To develop long-acting Na channel blockers pertinent to pain management and to gain a better understanding of the mechanism of action of these blockers and their potential toxicity.
19. Clinical & Translational Sciences Planning Grant: MU Institute for Clinical and Translational Sciences, University of Missouri
National Institutes of Health/CTSA, 1P20-RR023527-01, 2006 - 2008

- Co-Investigator, 10% Effort (National Center for Research Resources, Dr. Jamal Ibdah, Principal Investigator)
Goal – To create a transdisciplinary institute at the University of Missouri that supports the rapid translation of basic research findings to clinical utility using a multi-departmental approach and graduate program.
20. Application of 454 Sequencing to Cancer Epigenetics
National Institutes of Health/1R33-CA134304-01A1, 2008 - 2011
Co-investigator, 5% Effort (National Cancer Institute, Dr. Huidong Shi, Principal Investigator)
Goal – To develop a high-throughput, large-scale, sequencing-based approach to provide efficient methods for deeply exploring the cancer epigenome in brain tumors.
21. Beta-galactin mediated pathways as therapeutic targets in prostate cancer
VA Merit Award, 2009 - 2015
Co-investigator, 5% Effort (Dr. Slava Glinskii, Principal Investigator)
Goal – To define the mechanisms of galectin-3 mediated prostate cancer homing to the microvasculature of distant organs and its role in site-specific metastasis.
22. Building Networks for the Center for Translational Neuroscience
Mizzou Advantage Innovation Program Grant, 2010 - 2011
Principal Investigator
Goal – To support a symposium focused on the research efforts of neuroscience faculty members, and provide a catalyst for the development of comprehensive neurosciences at the University of Missouri.
23. Ovarian Cancer Cell Invasion and Metastasis
National Institutes of Health, NCI 3R01-CA086984-12S, Subcontract to University of Missouri, 2011-2012
Principal Investigator, 2% Effort (National Cancer Institute, Subcontract, Dr. S. Stack, Principal Investigator)
Goal – To provide graduate student support in a collaborative effort to identify the mechanisms involved in ovarian cancer invasion and metastasis; subcontract to the University of Missouri from the University of Notre Dame, UND-309914.
24. Targeting tumor invasion and drug resistance using 3D human organoids
Dean's Award, Brown University, 2015-2017
Co-Investigator (Ian Wang, Alexander Brodsky, Co-Principal Investigators)
Goal – To measure the emergence of drug resistance and invasiveness in biomimetic 3D organoids of breast cancer and glioblastoma.
25. Profiling heterogeneous invasion and resistance using 3D tumor organoids
COBRE Project (NIGMS), 2015 – 2017
Co-Investigator (Ian Wong, Principal Investigator)

The major goal of this project is to measure the epithelial-mesenchymal transitions in 2D and 3D cultures after stimulation of specific pathways, and how the transition is affected by specific therapeutic regimens.

TRAINEES:

Post-Doctoral research fellows:

1988 - 1990	Post-Doctoral Fellowship, Kalyani Amarnath, Ph.D.; Duke University (currently Research Associate Professor, Department of Pathology, Vanderbilt University Medical Center, Nashville, TN)
1990 - 1991	Visiting Scholar, Robert Denlinger, V.M.D., Ph.D.; Duke University (currently Senior Consultant for Drug Safety, The Upjohn Company, Kalamazoo, MI)
1991 - 1992	Post-Doctoral Fellowship, William Valentine, D.V.M., Ph.D.; Duke University (currently Associate Professor with Tenure of Pathology, Microbiology, and Immunology, Vanderbilt University Medical Center, Nashville, TN)
1992 - 1994	Post-Doctoral Fellowship, Sally J. Pyle, Ph.D.; Harvard Medical School (currently Associate Professor with Tenure, Department of Cell Biology, University of North Dakota, Grand Forks, ND)
1993 - 1994	Post-Doctoral Fellowship and 1994 Feodor Lynen Fellow of the Alexander von Humboldt Foundation, Alexander Vortmeyer, M.D.; Harvard Medical School (currently Associate Professor and Director of Neuropathology, Yale University School of Medicine, New Haven, CT)
1993 - 1995	Post-Doctoral Fellowship, Donald Price, Jr., M.D.; Longwood Area Neurology Program and Harvard Medical School (currently Associate Professor of Neurology, East Carolina University School of Medicine, Greenville, NC)
1996 - 1999	Post-Doctoral Fellowship, Robert J. Barry, Ph.D.; Harvard Medical School (currently Director of Scientific Affairs, Kaneka Nutrients, LP)
2008 - 2010	Post-Doctoral Fellowship, Jianjun Zhou, Ph.D.; University of Missouri (currently Associate Professor of Cancer Biology, University of Beijing, Beijing, China)

Medical students and post-graduate medical trainees:

Medical Students (advisees)

2003 - 2004	Medical student advisee, Kyle Bradley; University of Missouri - Columbia (4th Year Medical Student) – NRMP match at Emory University in Pathology (currently Assistant Professor of Pathology, Emory University)
2004 - 2006	Medical student advisee, Allison Lisle; University of Missouri - Columbia (4th Year Medical Student) – NRMP

- 2005 - 2007 match at University of Missouri in Pathology (currently Partner, Midwest Pathology Associates, Kansas City, MO)
Medical student advisee, Robert Hilliard; University of Missouri - Columbia (4th Year Medical Student) – NRMP match at University of Kentucky in Pathology (currently Pathologist, Aurora Diagnostics, Greensboro, NC)
- 2005 - 2007 Medical student advisee, Justin Kreuter; University of Missouri - Columbia (4th Year Medical Student) – NRMP match at Dartmouth University in Pathology (currently Associate Director of Transfusion Services, Mayo Clinic, Rochester, MN)
- 2006 - 2008 Medical student advisee, Jason Pettus; University of Missouri - Columbia (4th Year Medical Student) – NRMP match at Dartmouth University in Pathology (currently Assistant Professor of Pathology, Dartmouth University)
- 2006 - 2008 Medical student advisee, Anna Harris; University of Missouri - Columbia (4th Year Medical Student) – NRMP match at Harvard Medical School/Beth Israel Deaconess Medical Center in Pathology (currently Pathologist, Virginia Mason Medical Center, Seattle, WA)
- 2006 - 2008 Medical student advisee, Jamie Odem; University of Missouri - Columbia (4th Year Medical Student) – NRMP match at University of Missouri in Pathology (currently Pathologist, Mercy Clinic, Springfield, MO)
- 2007 - 2009 Medical student advisee, Kevin Fisher; University of Missouri - Columbia (MD-PhD Student) – NRMP match at Emory University in Pathology (currently Assistant Professor of Pathology, Baylor University/Texas Children’s Hospital)
- 2008 – 2010 Medical student advisee, Wonshill Koh; University of Missouri – Columbia (MD-PhD Student), NMRP match at North Shore-Long Island Jewish/Hofstra University in Pediatrics (currently Clinical Instructor, University of Pittsburgh, Schneider Children’s Hospital)
- 2010 – 2012 Medical student advisee, Sarah Hackman; University of Missouri – Columbia (MD Student), NMRP Match at University of Missouri, in Pathology (currently Chief Resident in Pathology, University of Missouri)
- 2008 – 2014 Medical student advisee, Daniel Miller; University of Missouri – Columbia (MD-PhD Student), NMRP Match at Johns Hopkins University in Pathology (currently resident at Johns Hopkins)

Neuropathology Fellows

- Sebastian Alston, M.D. (currently Professor, Alabama College of Osteopathic Medicine, Dothan, AL)
- Gregory Fuller, M.D., Ph.D. (currently Professor of Pathology, Chief of Neuropathology, M. D. Anderson Cancer Center, University of Texas – Houston, Baylor University, Houston, TX, and Past President of USCAP)
- Jacob Vandersteenhoven, M.D., Ph.D. (currently Pathologist, Palmetto Richland Hospital, Columbia, SC)
- Natasa Zec, M.D., Ph.D. (currently Research Associate, Massachusetts General Hospital and Harvard Medical School, Boston, MA)
- Selina Cortez, M.D. (currently Pathologist, Providence, Rhode Island)
- Dara Nachmanoff, M.D. (currently Neurologist, San Francisco, California)
- Donald Price, Jr., M.D. (currently Associate Professor of Neurology, East Carolina University, Greenville, NC)
- Mel Feany, M.D., Ph.D. (currently Professor of Pathology, Brigham and Womens Hospital and Harvard Medical School, Boston, MA)
- Ady Kendler, M.D., Ph.D. (currently Associate Professor of Pathology and Director of Neuropathology, University of Cincinnati, Cincinnati, OH)
- Alexander Vortmeyer, M.D. (currently Associate Professor and Director of Neuropathology, Yale University School of Medicine, New Haven, CT)
- S. Humayun Gultekin, M.D. (currently Associate Professor and Director of Pathology Residency Program, Oregon Health and Science University, Portland, OR)
- Ed Monuki, M.D., Ph.D. (currently Professor and Chair of Pathology, University of California - San Diego, San Diego, CA)
- Matt Anderson, M.D., Ph.D. (currently Associate Professor of Pathology and Neurology, Beth Israel Deaconess Hospital, and Harvard Medical School, Boston, MA)
- Margaret McLaughlin, M.D. (currently Director in Oncology Translational Research, Novartis Institutes for Biomedical Research NIBR, Boston, MA)
- Keith Ligon, M.D., Ph.D. (currently Associate Professor of Pathology, and Director of Neuropathology, Brigham and Womens Hospital, and Harvard Medical School, Boston, MA)
- Jennifer Chan, M.D. (currently Associate Professor of Pathology, and Deputy Director of the Charbonneau Cancer Institute, University of Calgary, Calgary, Alberta, CA)
- Joe Corbo, M.D., Ph.D. (currently Associate Professor of Pathology and Immunology, Genetics, Ophthalmology and Visual Sciences, Washington University, St. Louis, MO)
- Mohammad Mahboob, M.D. (currently Neuropathologist and Pathology Specialist, National Institutes of Health, Bethesda, MD)

Keyla Kleyser-Sugrue, M.D. (currently Assistant Professor of Pathology and
Neuropathology, University of South Florida & Tampa
General Hospital, Tampa, FL)

Anne Lee, M.D., Ph.D. (currently Fellow in Forensic Pathology, Saint Louis University, St.
Louis, MO)

Michael Ponsoni, M.D. (currently Assistant Professor of Pathology and Neuropathology,
University of Nebraska, Omaha, NE)

Nellie Lakis, M.D. (in training)