

MARK A. MINTUN, M.D.

CURRICULUM VITAE

DATE: Feb 28, 2019

PERSONAL INFORMATION:

Place of Birth: Lake Forest, Illinois
Family: Spouse – Susan L. Mintun
Children – Eric and Jacob

CITIZENSHIP: USA

ADDRESS:

Office: Avid Radiopharmaceuticals (a wholly owned subsidiary of Eli Lilly and Company)
3711 Market St
Philadelphia, PA 19104
Phone: 215-798-6022
E-mail: Mintun@avidrp.com

Residence: 1404 Mt Pleasant Road
Villanova, PA 19085
Cell: 314-225-5655

PRESENT AND RECENT POSITIONS:

Vice-President of Pain and Neurodegeneration Research and Development
Eli Lilly and Company (2018 – present)

Vice-President of Pain Research and Clinical Development
Eli Lilly and Company (2017 – 2018)

President
Avid Radiopharmaceuticals (2014 - present)

Chief Medical Officer
Avid Radiopharmaceuticals (2010 – 2018)

Adjunct Professor of Radiology
University of Pennsylvania (2015 – present)

EDUCATION:

Undergraduate:

1973-1977	Massachusetts Institute of Technology Cambridge, Massachusetts	B.S./1977	Chemical Engineering
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Graduate:

1977-1979	University of Kansas Kansas City, Kansas		Medicine
1979-1981	Washington University School of Medicine St. Louis, Missouri	M.D./1981	Medicine

POSTGRADUATE TRAINING:

- 1981-1982 Intern, Internal Medicine, Jewish Hospital of St. Louis, Missouri
1982-1984 Research Fellow, Neurology, Washington University School of Medicine, St. Louis, Missouri
1984-1985 Resident, Nuclear Medicine, Washington University School of Medicine, St. Louis, Missouri

ACADEMIC APPOINTMENTS:

- 1985-1989 Assistant Professor of Radiology, Washington University School of Medicine St. Louis, Missouri
1987-1989 Assistant Professor of Neurology (Joint), Washington University School of Medicine, St. Louis, Missouri
1989-1991 Associate Professor of Internal Medicine (Nuclear Medicine), University of Michigan Medical School, Michigan
1991-1996 Associate Professor of Radiology, University of Pittsburgh School of Medicine Pittsburgh, Pennsylvania
1991-1996 Associate Professor of Psychiatry (Joint), University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania
1997-2000 Associate Professor of Radiology, Washington University School of Medicine, St. Louis, Missouri
1997-2000 Associate Professor of Psychiatry (Joint), Washington University School of Medicine, St. Louis, Missouri
2000-2010 Professor of Radiology, Washington University School of Medicine, St. Louis, Missouri
2000-2010 Professor of Anatomy and Neurobiology (Joint), Washington University School of Medicine, St. Louis, Missouri
2000-2010 Professor of Psychiatry (Joint), Washington University School of Medicine, St. Louis, Missouri
2006-2010 Professor of Bioengineering (Joint), Washington University School of Medicine, St. Louis, Missouri
2009-2010 Professor of Neurology (Joint), Washington University School of Medicine, St. Louis, Missouri
2010-2012 Visiting Professor, Department of Radiology, Washington University School of Medicine
2015-current Adjunct Professor of Radiology, University of Pennsylvania, Philadelphia, PA

CLINICAL AND ADMINISTRATIVE APPOINTMENTS:

- 1985-1989 Assistant Radiologist, Barnes Hospital, St. Louis, Missouri
1985-1989 Consulting Radiologist, St. Louis Children's Hospital, St. Louis, Missouri
1989-1991 Consulting Nuclear Medicine Physician Staff, University of Michigan Hospital, Ann Arbor, Michigan
1991-1996 Staff Radiologist, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania
1991-1996 Medical Director, PET Facility, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania
1997-2010 Radiologist, St. Louis Children's Hospital, St. Louis, Missouri
1997-2010 Nuclear Medicine Radiologist, Barnes-Jewish Hospital, St. Louis, Missouri
1999-2010 Staff Radiologist, Barnes-Jewish West County Hospital, St. Louis, Missouri

- 2003-2010 Co-Director, Electronic Radiology Lab, Washington University School of Medicine, St. Louis, Missouri
- 2004-2010 Director, Center for Clinical Imaging Research Washington University School of Medicine, St. Louis, Missouri
- 2006-2010 Director, Division of Research Development, Department of Radiology, Washington University School of Medicine, St. Louis, Missouri
- 2007-2010 Interim Director, Division of Radiological Sciences, Department of Radiology, Washington University School of Medicine, St. Louis, Missouri
- 2009-2010 Vice Chair for Research, Department of Radiology, Washington University School of Medicine, St. Louis, Missouri

UNIVERSITY AND HOSPITAL APPOINTMENTS AND COMMITTEES:

Department of Radiology Committees and Programs:

- 1994-1996 Appointments and Promotion Committees, University of Pittsburgh
- 1995-1996 Scientific Review and Research Imaging Committee, Chairman, University of Pittsburgh
- 2004 Promotions Committee, Department of Psychiatry (ad hoc)
- 2006 -2010 Appointments and Promotion Committee, Department of Radiology

School of Medicine Committees and Programs:

- 1992-1996 Functional Imaging Research Program, University of Pittsburgh
- 1994-1995 Scientific Misconduct Inquiry (ad hoc), Chairman, University of Pittsburgh
- 1999 The Cancer Center, Washington University School of Medicine, Research Associate Member
- 2004 Promotions Committee, Washington University School of Medicine
- 2005 Search Committee for Director of the General Clinical Research Center, Washington University School of Medicine
- 2006-2007 Core Planning Committee for Research Initiatives, Washington University School of Medicine

University Committees and Programs:

- 1995-1996 University Research Council, Health Sciences Subcommittee, University of Pittsburgh

MEDICAL LICENSURE AND BOARD CERTIFICATION:

- 1982 National Board of Medical Examiners

Specialty Board:

- 1985 American Board of Nuclear Medicine

Medical License:

- 1982 Missouri No. R6C45

HONORS AND AWARDS:

- 1981 Hugh M. Wilson Award for Research in Radiology
- 1988 Research and Education Scholar of the Radiology Society of North America
- 1989 Tetalman Memorial Award of the Society of Nuclear Medicine
- 2006 Turken Award, UCLA and the Sam & Ida Turken Charitable Foundation

PROFESSIONAL ACTIVITIES

Editorial Responsibilities:

- 1984 Journal of Nuclear Medicine, Regular Reviewer
- 1985 Journal of Cerebral Blood Flow and Metabolism, Regular Reviewer
- 1989 Radiology, Regular Reviewer
- 1996-2004 Human Brain Mapping (Associate Editor)

Scientific Advisory Boards

- 2000-2010 University of Columbia Conte Center for the Study of Suicide
- 2002-2010 Washington University School of Medicine General Clinical Research Center

Professional Societies and Organizations:

- 1984 Radiologic Society of North America
- 1984 Society of Nuclear Medicine
- 1987 Association of University Radiologists
- 1988 International Society of Cerebral Blood Flow and Metabolism
- 1988 Society of Nuclear Medicine, Brain Imaging Council
- 1990-1992 Society of Nuclear Medicine, Officer, Brain Imaging Council
- 1991 Society for Neuroscience
- 2006 American College of Neuropsychopharmacology
- 2009- Society of Nuclear Medicine Brain Imaging Council

Teaching Activities:

- 1985 Nuclear Medicine Reading Room Preceptor, Radiology and Nuclear Medicine Residents
- 1985 Lecturer, Noon Conference Series for Radiology Residents
- 1988-1989 Senior Medical Student Research Preceptor, Mallinckrodt Institute of Radiology
- 1990-1991 Supervisor, Medical Student Elective in Nuclear Medicine, University of Michigan
- 1990-1991 Moderator, Weekly Nuclear Medicine Correlation Conference, University of Michigan
- 1992-1996 Moderator, PET Journal Club, University of Pittsburgh
- 1992-1993 Senior Medical Student Research Preceptor, University of Pittsburgh School of Medicine
- 2003 Moderator and Course Organizer, WUSM Neuroimaging Research Lecture Series
- 2007-2008 Medical Student Selective on Alzheimer's Disease

NIH Reviewing Activities:

- 1988 Site Visit Member for NINDS (NIH) Member (ad hoc), Board of Scientific Counselors, NIMH
- 1994 Member (ad hoc), Board of Scientific Counselors, NIMH
- 1995 Member (ad hoc), Board of Scientific Counselors, NIMH
- 1991 Member, Imaging Centers Special Review Committee, NIMH

1992 Member, Special Committee for Imaging in Alzheimer's Disease, NIA
1993 Site Visit Member for NIH/BRRS
1999-2004 Member, Center for Scientific Review Special Emphasis Panel
(Study Section: ZRG1 COG), NIH
2004-2008 Member, Center for Scientific Review (Study Section: NPAS), NIH
2009-2012 Member (ad hoc), Center for Scientific Review, NIH

RESEARCH FUNDING (when in full-time academic positions)

Federal Grants:

Grant #/Title: 5RC1AG036045-02/PET Brain Imaging of Reactive Oxygen Species
Source and P.I: NIH, Mark A. Mintun, MD (*transferred to Robert Mach, Ph.D., July 1, 2010*)
Role and % Appointment: PI: 10% to June 30, 2011
Total Annual Direct Budget: \$499,025
Description: This proposal intends to develop a method for using a PET scanner to image oxygen-based free radical levels in the human brain.

Grant #/Title: P30 NS048056/NINDS Center Core for Brain Imaging
Source and P.I: NIH/NINDS, Mark A. Mintun, MD (*transferred to Dan Marcus, Ph.D., July 1, 2010*)
Role and % Appointment: PI: 10% to June 30, 2009
Total Annual Direct Budget: \$500,000
Description: The goal of this Center will be to enhance the quality, the efficiency, and the diversity of neuroimaging research at our institution.

Grant #/Title: P30 CA091842/NCI Cancer Center Support Grant
Source and P.I.: NIH/NCI, Timothy J. Eberlein, MD
Supplement (Siegel); Imaging Response Assessment Team (IRAT)
Role and % Appointment: Investigator, Supplement; 6% to June 30, 2008
Total Years: Grant – July 1, 2004 to June 30, 2009; Supplement – July 1, 2005 to June 30, 2008
Total Annual Direct Budget: \$161,930 (IRAT)
Description: The major goals of this supplement are to establish a core facility for archival, quality control and analysis of imaging studies used in response evaluation for cancer clinical trials and develop a coordinated mechanism to ensure that novel imaging methods for response prediction or early response assessment are incorporated into therapeutic clinical trials at the Cancer Center.

Grant #/Title: 1 U54 RR023496-01/Washington University Institute of Clinical and Translational Sciences Human Imaging Unit
Source and P.I.: NIH/NCRR, Kenneth S. Polonsky, MD
Role and % Appointment: Investigator, 4% to May 31, 2012
Total Years: September 17, 2007 to May 31, 2012
Total Annual Direct Budget: \$110,116 (sub-project only)
Description: The Clinical and Translational Science Award is the key component for the establishment of the Washington University Institute of Clinical and Translational Sciences (ICTS). This sub-project of the ICTS will transform the ability of clinical investigators at Washington University and its partner institutions to access advanced imaging modalities and to include them in their research protocols.

Grant #/Title: P50 NS006833/The Brain and its Vasculature
Source and P.I.: NIH/NINDS, Marcus E. Raichle, M.D.
Role and % Appointment: Co-Principal Investigator, PI of Project 1, 9%
Total Years: December 12, 2005 to February 28, 2011 (in no-cost extension)
Total Annual Direct Budget: \$ 273,784 (Project 1, Year 01 only)
Description: The major goals of this project are to serve as an interdisciplinary facility for the study of brain vasculature using positron emission tomography.

Grant #/Title: P50 AG05681/Alzheimer's Disease Research Center
Source and P.I.: NIH/NIA, John C. Morris, MD
Role and % Appointment: Co-Investigator, Project 1 Director, 20%
Total Years: June 15, 1997 to April 30, 2010
Total Direct Budget: \$8,415,026
Description: This Center is to support Alzheimer's Disease research at Washington University and the Alzheimer's Disease community.

Grant #/Title: P01 AG026276/Antecedent Biomarkers for Alzheimer's Disease: The Adult Children Study
Source and P.I.: NIH/NIA, John C. Morris, MD
Role and % Appointment: Co-Investigator, 10%
Total Years: September 30, 2005 to June 30, 2010
Total Direct Budget: \$3,177,227
Description: This grant will support research aimed at developing and testing antecedent biomarkers for Alzheimer's Disease.

Grant #/Title: 2P01 AG003991/Healthy Aging and Senile Dementia (HASD)
Source and P.I.: NIH/NIA, John C. Morris, MD
Role and % Appointment: Director, Imaging Core 5%
Total Years: January 01, 1984 to December 31, 2013
Total Direct Budget: \$1,244,021
Description: The goal of this project is the investigation of the natural history of senile dementia of the Alzheimer type (SDAT) including neurologic, psychiatric, psychometric and imaging data.

Grant #/Title: R01 DC009095/Collaborative Tinnitus Research at Washington University
Source and P.I.: NIH/NIDCD, Jay Piccirillo, MD
Role and % Appointment: Co-Investigator, 2%
Total Years: August 24, 2007 to June 30, 2011
Total Direct Budget: \$225,000

Description: The major goal of this research is to study the effectiveness of repetitive transcranial magnetic stimulation (rTMS) in tinnitus patients, assess the clinical, neurocognitive, and neuroimaging changes that are associated with rTMS treatment, and identify factors that could be the predictors of rTMS outcome.

Grant#/Title: P01 HL13851/Cyclotron Produced Isotopes in Biology and Medicine
Source and P.I.: NIH/NHLBI, Robert Gropler, M.D.

Role and % Appointment: Co-Investigator, 1%
Total Years: December 1, 2003 to November 30, 2008
Total Annual Direct Budget: \$1,417,562, Core C – \$340,038

Description: The major goals of this program project are to carry out cardiovascular, pulmonary and neurological research using PET.

Grant #/Title: 1 U01AG032438/Dominantly Inherited Alzheimer Network (DIAN)

Source and P.I.: NIH/NIA, John Morris, M.D.

Role and % Appointment: Investigator, 10%

Total Years: July 1, 2008 to June 30, 2014

Total Annual Direct Budget: \$3,000,000

Description: The aim of this project is to establish a registry of research participants who are members of families where Alzheimer's disease is dominantly inherited by collecting clinical, psychometric, imaging data and biospecimens for research purposes.

Grant #/Title: R03 DA022137/Functional Neuroimaging of Cognitive dysfunction in HIV/HCV

Source and P.I.: NIH, David Clifford, M.D.

Role and % Appointment: Investigator, 0.6%

Total Years: September 30, 2006-August 31, 2009

Total Annual Direct Budget: \$87,000

Grant #/Title: R01 DA14211/Methadone and HIV Drug Interactions

Source and P.I.: NIH/Evan Kharasch, M.D.

Role and % Appointment: Collaborator

Total Years: April 1, 2001-July 31, 2013

Total Annual Direct Budget: \$382,000

Description: The overall goal of this research is to improve methadone maintenance treatment in HIV/AIDS patients. The specific aims are to: 1) determine the role of P-gp in methadone disposition in humans; 2) determine HIV/AIDS drug effects on intestinal P-gp and CYP3A activity; 3) identify mechanisms of methadone-HIV/AIDS drug interactions; 4) establish noninvasive in vivo probes of CYP3A activity to predict methadone disposition and methadone-HIV drug interactions.

Grant #/Title: 1R01NS055963-01A2/Quantitative Bold Contrast in Health and Disease

Source and P.I.: NIH, Dmitriy Yablonskiy, Ph.D.

Role and % Appointment: Investigator, 6%

Total Years: February 1, 2008-January 31, 2011

Total Annual Direct Budget: \$219,000

Description: The overarching goal of this proposal is to develop a new MR-based method for the quantitative in vivo evaluation of brain hemodynamics in health and disease

PUBLICATIONS

Peer-Reviewed Original Articles:

1. **Mintun MA**, Himmelstein KJ, Schroder RL, Gibaldi M, Shen DD: Tissue Distribution Kinetics of Tetraethylammonium Ion in the Rat. *J Pharmacokinet Biopharm* 1980; 8:373-409.
2. Smith MA, Schloerb PR, **Mintun MA**: Prediction of Total Exchangeable Body Sodium from the Early Tracer Disappearance Curve. *Curr Surg* 1980; 37(3):214-217.
3. Schloerb PR, Palaskas CL, **Mintun MA**: Rapid Computer Prediction of Total Water in Fluid Overload. *J Trauma* 1981; 21(9):757-761.
4. Mooney KG, **Mintun MA**, Himmelstein KJ, Stella VJ: Dissolution Kinetics of Carboxylic Acids I: Effect of pH under Unbuffered Conditions. *J Pharm Sci* 1981; 70:13-22.
5. Mooney KG, **Mintun MA**, Himmelstein KJ, Stella VJ: Dissolution Kinetics of Carboxylic Acids II: Effect of Buffers. *J Pharm Sci* 1981; 70:22-32.
6. Raichle ME, Martin WRW, Herscovitch P, **Mintun MA**, Markham J: Brain Blood Flow Measured with Intravenous H₂¹⁵O II: Implementation and Validation. *J Nucl Med* 1983; 24(9):790-798.
7. Welch MJ, Kilbourn MR, Mathias CJ, **Mintun MA**, Raichle ME: Comparison in Animal Models of 18F-spiroperidol and 18F-haloperidol: Potential Agents for Imaging the Dopamine Receptor. *Life Sci* 1983; 33:1687-1693.
8. **Mintun MA**, Raichle ME, Martin WRW, Herscovitch P: Brain Oxygen Utilization Measured with O-15 Radiotracers and Positron Emission Tomography. *J Nucl Med* 1984; 25:177-187.
9. **Mintun MA**, Raichle ME, Kilbourn MR, Wooten FG, Welch MJ: A Quantitative Model for the In Vivo Assessment of Drug Binding Sites with Positron Emission Tomography. *Ann Neurol* 1984; 15:217-227.
10. Fox PT, **Mintun MA**, Herscovitch P, Raichle ME: A Noninvasive Approach to Quantitative Functional Brain Mapping with H₂¹⁵O and Positron Emission Tomography. *J Cereb Blood Flow Metab* 1984; 4:329-333.
11. Herscovitch P, **Mintun MA**, Raichle ME: Brain Oxygen Utilization Measured with Oxygen-15 Radiotracers and Positron Emission Tomography: Generation of Metabolic Images. *J Nucl Med* 1985; 26:416-417.

12. Powers WJ, Grubb RL, Baker RP, **Mintun MA**, Raichle ME: Regional Cerebral Blood Flow and Metabolism in Reversible Ischemia due to Vasospasm: Determination by Positron Emission Tomography. *J Neurosurg* 1985; 62:539-546.
13. Schuster DP, **Mintun MA**, Green MA, Ter-Pogossian MM: Regional Lung Water and Hematocrit Determined by Positron Emission Tomography. *J Appl Physiol* 1985; 59:860-868.
14. **Mintun MA**, Ter-Pogossian MM, Green MA, Lich LL, Schuster DP: Quantitative Measurement of Regional Pulmonary Blood Flow with Positron Emission Tomography. *J Appl Physiology* 1986; 60:317-326.
15. Schuster DP, Marklin GF, **Mintun MA**: Regional Changes in Extravascular Lung Water Detected by Positron Emission Tomography. *J Appl Physiol* 1986; 60:1170-1178.
16. Perlmutter JS, Larson KB, Raichle ME, Markham J, **Mintun MA**, Kilbourn MR, Welch MJ: Strategies for In-Vivo Measurement of Receptor Binding Using Positron Emission Tomography. *J Cereb Blood Flow Metab* 1986; 6:154-169.
17. Nussbaum GH, Babbs CF, **Mintun MA**: The Results of a Preliminary Study of Vasodilators for Improving Thermotherapy of Deep-Seated Tumors. *Int J Hyperthermia*, 1986; 2:61-64.
18. Schuster DP, Marklin GF, **Mintun MA**, Ter-Pogossian MM: PET Measurement of Regional Lung Density: 1. *J Comput Assist Tomogr* 1986; 10:723-729.
19. Fox PT, **Mintun MA**, Raichle ME, Meizen FM, Allman JM, VanEssen DC: Mapping Human Visual Cortex with Positron Emission Tomography. *Nature* 1986; 323:806-809.
20. **Mintun MA**, Dennis DR, Welch MJ, Mathias CJ, Schuster DP: Measurements of Pulmonary Vascular Permeability with Positron Emission Tomography and Ga-68 Transferrin. *J Nucl Med* 1987; 28:1704-1716.
21. Petersen SE, Fox PT, **Mintun MA**, Posner MI, Raichle ME: Positron emission tomographic studies of the cortical anatomy of single-word processing. *Nature* 1988; 331:585-589.
22. Fox PT, **Mintun MA**, Reiman EM, Raichle ME: Enhanced Detection of Focal Brain Responses Using Intersubject Averaging and Change-Distribution Analysis of Subtracted PET Images. *J Cereb Blood Flow Metab* 1988; 8:642-653.
23. Calandrino FS, Anderson DJ, **Mintun MA**, Schuster DJ: Pulmonary Vascular Permeability During the Adult Respiratory Distress Syndrome: A Positron Tomography Study. *Am Rev Respir Dis* 1988; 138:421-428.
24. **Mintun MA**, Welch MJ, Siegel BA, Mathias CJ, Brodack JA, McGuire AH, Katzenellenbogen JA: Breast Cancer: PET Imaging of Estrogen Receptors. *Radiology* 1988; 169:45-48.
25. Fox PT, Raichle ME, **Mintun MA**, Dence C: Nonoxidative Glucose Consumption during Focal Physiologic Neural Activity. *Science* 1988; 241:462-464.

26. Videen TO, Perlmutter JS, **Mintun MA**, Raichle ME: Regional Correction of Positron Emission Tomography Data for the Effects of Cerebral Atrophy. *J Cereb Blood Flow Metab* 1988; 8:662-670.
27. **Mintun MA**, Fox PT, Raichle ME: A Highly Accurate Method of Localizing Regions of Neuronal Activation in the Human Brain Using Positron Emission Tomography. *J Cereb Blood Flow Metab* 1989; 9:96-103.
28. Fox PT, **Mintun MA**: Noninvasive Functional Brain Mapping by Change-Distribution Analysis of Averaged PET Images of H₂¹⁵O Tissue Activity. *J Nucl Med* 1989; 30:141-149.
29. Reiman EM, Raichle ME, Robins E, **Mintun MA**, Fusselman MJ, Fox PT, Price JL, Hackman KA. Neuroanatomical Correlates of a Lactate-Induced Anxiety Attack. *Arch Gen Psychiatry* 1989; 46:493-500.
30. Petersen SE, Fox PT, Posner MI, **Mintun MA**, Raichle ME: Positron Emission Tomographic Studies of the Processing of Single Words. *J Cognit Neurosci* 1989; 1:153-170.
31. Mathias CJ, Welch MJ, Raichle ME, **Mintun MA**, Lich LL, McGuire AH, Zinn KR, John EK, Green MA: Evaluation of a Potential Generator-Produced PET Tracer for Cerebral Perfusion Imaging: Single-Pass Cerebral Extraction Measurements and Imaging with Radiolabeled Cu-PTSM. *J Nucl Med* 1990; 31:351-359.
32. **Mintun MA**, Warfel TE, Schuster DP: Evaluating Pulmonary Vascular Permeability with Radiolabeled Proteins: An Error Analysis. *J Appl Physiol* 1990; 68:1696-1706.
33. McGuire AH, Dehdashti F, Siegel B, Lyss A, Brodack J, Mathias C, **Mintun MA**, Katzenellenbogen JA, Welch MJ: Positron Tomographic Assessment of 16a-[¹⁸F] Fluoro-17b-Estradiol Uptake in Metastatic Breast Carcinoma. *J Nucl Med* 1991; 32:1526-1531.
34. Beanlands RSB, Muzik O, **Mintun MA**, Manger T, Lee K, Petry N, Hutchins GD, Schwaiger M: The Kinetics of Copper-62 PTSM in the Normal Human Heart. *J Nucl Med* 1992; 33(5):684-690.
35. Kuten A, Roval HD, Griffeth LK, **Mintun MA**, Perez, CA, Wasserman TH, Ter-Pogossian MM: Positron Emission Tomography in the Study of Acute Radiation Effects on Renal Blood Flow in Dogs. *Int Urol Nephrol* 1992; 24(5): 527-9.
36. Minoshima S, Berger K, **Mintun MA**: An Automated Method for Rotational Correction and Centering of Three Dimensional Functional Brain Images. *J Nucl Med* 1992; 33(8):1579-1585.
37. Jonides J, Smith EE, Koeppe RA, Awh E, Minoshima S, **Mintun MA**: Spatial Working Memory in Humans as Revealed by PET. *Nature* 1993; 363:(6430)623-625.
38. Minoshima S, Koeppe RA, **Mintun MA**, Berger KL, Taylor SS, Frey KA and Kuhl DE. Automated Detection of the Intercommissural (AC-PC) Line for Stereotactic Localization of Functional Brain Images. *J Nucl Med* 1993; 34:(2)322-329.

39. Quarles RP, **Mintun MA**, Larson KB, Markham J, MacLeod A, Raichle ME: Measurement of Regional Cerebral Blood Flow with Positron Emission Tomography: A Comparison of O-15-Water to C-11 Butanol with Distributed-Parameter and Compartmental Models. *J Cereb Blood Flow Metab* 1993;13:(5)733-747.
40. Diehl DJ, **Mintun MA**, Kupfer DJ and Moore RY: A Likely In Vivo Probe of Human Circadian Timing System Function Using PET. *Biological Psychiatry* 1994;36:562-565.
41. Becker JT, **Mintun MA**, Diehl DJ, Dobkin J, Martidis A, Madoff D and Dekosky ST: Functional Neuroanatomy of Verbal Free Recall: A Replication Study. *Human Brain Mapping* 1994;1:284-292.
42. Mathis CA, Simpson NR, Mahmood K, Kinahan PE, **Mintun MA**. [11C]WAY 100635: A Radioligand for Imaging 5-HT1A Receptors with Positron Emission Tomography. *Life Sciences (Pharmacology Letters)* 1994;55:PL403-407.
43. Reynolds III CF, Zubenko GS, Pollock BG, Mulsant BH, Schulz R, **Mintun MA**, Mazumdar S and Kupfer DJ. Depression in Late Life. *Curr Opin Psychiatry* 1994;7:18-21.
44. Ganguli R, **Mintun MA**, Becker JT, Brar JS, Diehl D, Deleo M, Madoff D, and Martidis A. Effects of Hydrocortisone Infusion on rCBF in Schizophrenic Patients During a Memory Task. An O-15 PET Study. *Ann NY Acad Sci* 1994; 746:385-387.
45. S. Dubé, **M.A. Mintun**, T.E. Nichols, P. Houck, D.M. Ojk, D.J. Kupfer, C.F. Reynolds III. Brain glucose uptake changes with total sleep deprivation (SD): — relationship to sleep and temperature. *Biol Psychiatry*, 1994; 35;9:663.
46. Forman SD, Cohen JD, Fitzgerald M, Eddy WF, **Mintun MA** and Noll DC. Improved Assessment of Significant Activation in Functional Magnetic Resonance Imaging (fMRI): Use of a Cluster-Size Threshold. *Magn Reson Med* 1995;33:636-647.
47. Carter CS, **Mintun MA**, and Cohen JD. Interference and Facilitation Effects During Selective Attention: An [15O]-H2O PET Study of Stroop Task Performance. *NeuroImage* 1995;2:264-272.
48. Becker JT, **Mintun MA**, Aleva K, Wiseman MB, Nichols T, and DeKosky ST. Compensatory Reallocation of Brain Resources Supporting Verbal Episodic Memory in Alzheimer's Disease. *Neurology* 1996;46:692-700 .
49. Sweeney JS, **Mintun MA**, Kwee S, Wiseman MB, Brown DL, Rosenberg D and Carl JR. Positron Emission Tomography Studies of Voluntary Saccadic Eye Movements and Spatial Working Memory. *J Neurophys* 1996;75:454-467.
50. Mann JJ, Malone KM, Diehl D, Perel J, Cooper TB and **Mintun MA**. Demonstration In Vivo of Reduced Serotonin Responsivity in the Brain of Untreated Depressed Patients. *Am J Psychiatry* 1996;153:174-182.
51. Mann JJ, Malone KM, Diehl DJ, Perel J, Nichols TE and **Mintun MA**. Positron Emission Tomographic Imaging of Serotonin Activation Effects on Prefrontal Cortex in Healthy Volunteers. *J Cereb Blood Flow Metab* 1996;16:418-426.

52. Firestone L, Gyulai F, **Mintun MA**, Adler L, Urso K and Winter P. Human Brain Activity Response to Fentanyl Imaged by Positron Emission Tomography. *Anesth Analg* 1996;82:1247-1251.
53. Ganguli R, Carter CS, **Mintun MA**, Brar JS, Becker JT, Sarma R, Nichols T, and Bennington E. A PET Brain Mapping Study of Auditory Verbal Supraspan Memory Versus Visual Fixation in Schizophrenia. *Biological Psychiatry* 1997;41:33-42.
54. Gyulai FE, Firestone LL, **Mintun MA**, and Winter PM. In Vivo Imaging of Human Limbic Responses to Nitrous Oxide Inhalation. *Anesth Analg*, 1996;83(2):291-298.
55. Herbster AN, Nichols T, Wiseman MB, **Mintun MA**, DeKosky ST and Becker JT. Functional Connectivity in Auditory-Verbal Short-Term Memory in Alzheimer's Disease. *NeuroImage*, 1996;4:67-77.
56. Kelly DE, **Mintun MA**, Watkins SC, Simoneau JA, Jadali F, Fredrickson A, Beattie J and Theriault R. The Effect of Non-insulin-dependent Diabetes Mellitus and Obesity on Glucose Transport and Phosphorylation in Skeletal Muscle. *J Clinical Investigation* 1996;97(12):2705-2713.
57. Adler LJ, Gyulai FE, Diehl DJ, **Mintun MA**, Firestone LL, and Winter PM. Regional Brain Activity Changes Associated with Fentanyl Analgesia Elucidated by Positron Emission Tomography. *Anesth Analg*, 1996;84(1):120-126.
58. Gyulai F, Firestone LL, **Mintun MA** and Winter PM. In Vivo Imaging of Nitrous Oxide-induced Changes in Cerebral Activation during Noxious Heat Stimuli. *Anesthesiology*, 1997;86(3):538-548.
59. Herbster AN, **Mintun MA**, Nebes RD and Becker JT. Regional Cerebral Blood Flow During Word and Non-Word Reading. *Human Brain Mapping*, 1997;5:84-92.
60. Berns GS, Cohen JD and **Mintun MA**. Brain Regions Responsive to Novelty in the Absence of Awareness. *Science*, 1997;276(5316):1272-1275
61. Carter CS, **Mintun MA**, Cohen JD and Nichols T. Anterior Cingulate Gyrus Dysfunction and Selective Attention Deficits in Schizophrenia: an 15-O-H₂O PET Study During Single Trial Stroop Task Performance. *Am J Psychiatry*, 1997;154(12):1670-5.
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