

MARK A. MINTUN, M.D.

CURRICULUM VITAE

April 2020

ADDRESS:

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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 B.S./1977 Chemical Engineering
Cambridge, Massachusetts

Graduate:

1977-1979 University of Kansas Medicine
Kansas City, Kansas

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

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
- 1997-2000 Associate Professor of Radiology, Washington University School of Medicine, St.
Louis, Missouri
- 2000-2010 Professor of Radiology, Washington University School of Medicine, St. Louis,
Missouri
- 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

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 (inactive)

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

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 16 α -[¹⁸F] Fluoro-17 β -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-HT_{1A} 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. *Neuroimaging*, 1996; 4:67-77.
56. Kelly DE, **Mintun MA**, Watkins SC, Simoneau JA, Jalal 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: a 15-O-H₂O PET Study during Single Trial Stroop Task Performance. *Am J Psychiatry*, 1997; 154(12):1670-5.
62. Nofzinger EA, **Mintun MA**, Wiseman M, Kupfer DJ, and Moore RY. Forebrain Activation in REM sleep: an FDG PET Study. *Brain Research*, 1997; 770(1-2):192-201.
63. Nofzinger EA, **Mintun MA**, Price J, Meltzer CC, Townsend D, Buysse DJ, Reynolds CF 3rd, Datchile M, Matzzie J, Kupfer DJ, and Moore RY. A Method for the Assessment of the Functional Neuroanatomy of Human Sleep Using FDG PET. *Brain Research. Brain Research Protocols*, 1998;2(3):191-8

64. Zelkowitz BJ, Herbster BS, Nebes RD, Mintun **MA**, and Becker JT. An Examination of Regional Cerebral Blood Flow during Object Naming Tasks. *J Intrnl Neuropsychological Soc*, 1998, 4(2):160-6.
65. Jennings JR, Muldoon MF, Ryan CM, **Mintun MA**, Meltzer CC, Townsend DW, Sutton-Terrell K, Shapiro AP, and Manuck SB. Cerebral Blood Flow in Hypertensive Patients: An Initial Report of Reduced and Compensatory Blood Flow Responses during Performance of Two Cognitive Tasks. *Hypertension*, 1998;31:1216-1222.
66. Servan-Schreiber D, Perlstein WM, Cohen JD and **Mintun MA**. Selective Pharmacological Activation of Limbic Structures in Human Volunteers: A Positron Emission Tomography Study. *J Neuropsychiatry and Clin Neuroscience*, 1998; 10(2):148-159.
67. Carter CS, Perlstein W, Ganguli R, Brar J, **Mintun M**, and Cohen JD. Functional Hypofrontality and Working Memory Dysfunction in Schizophrenia. *Am J Psychiatry*, 1998; 155(9):1285-7
68. Sheline YI, Sanghavi M, **Mintun MA**, Gado MH. Depression duration but not age predicts hippocampal volume loss in medically healthy women with recurrent major depression. *Journal of Neuroscience*. 19(12):5034-43, 1999.
69. Ricci PT, Zelkowitz BJ, Nebes RD, Meltzer CC, **Mintun MA**, Becker JT. Functional neuroanatomy of semantic memory: recognition of semantic associations. *Neuroimage*. 9(1):88-96, 1999.
70. Meltzer CC, Smith G, Price JC, Reynolds CF III, Mathis CA, Greer P, Lopresti B, **Mintun MA**, Pollock BG, Ben-Eliezer D, Cantwell MN, Kaye W, DeKosky ST. Reduced binding of [18F]altanserin to serotonin type 2A receptors in aging: persistence of effect after partial volume correction. *Brain Research*. 813(1):167-71, 1998.
71. Wiseman MB, Sanchez JA, Buechel C, **Mintun MA**, Lopez OL, Milko D, and Becker JT. Patterns of Relative Cerebral Blood Flow in Minor Cognitive Motor Disorder in Human Immunodeficiency Virus Infection. . *J Neuropsychiatry and Clin Neuroscience*, 1999;11:222-233.
72. Chao KS, Bosch WR, Mutic S, Lewis JS, Dehdashti F, **Mintun MA**, Dempsey JF, Perez CA, Purdy JA, Welch MJ. A novel approach to overcome hypoxic tumor resistance: Cu-ATSM-guided intensity-modulated radiation therapy. *Int J Radiat Oncol Biol Phys* 2001 Mar 15; 49(4): 1171-1182.
73. **Mintun MA**, Lundstrom BN, Snyder AZ, Vlassenko AG, Shulman GL, Raichle ME. Blood Flow and Oxygen Delivery to Human Brain During Functional Activity: Theoretical Modeling and Experimental Data. *Proc Natl Acad Sci USA* 2001; 58:6859-6864.
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76. Sheline YI, Snyder AZ, Moerlein SM, **Mintun MA**. Loss of 5-HT_{2A} receptors may occur primarily in mid-life. *Am J Psychiatry* 2002; 159(3):430-435.
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79. Sheline YI, Mittler BL, **Mintun MA**. The hippocampus and depression. *Eur Psychiatry* 2002; 17 Suppl 3:300-5.
80. Logan TF, Jadali F, Egorin MJ, **Mintun MA**, Sashin D, Gooding WE, Choi Y, Bishop H, Trump DL, Gardner D, Kirkwood J, Vlock D, Johnson C. Decreased tumor blood flow as measured by positron emission tomography in cancer patients treated with interleukin-1 and carboplatin on a phase 1 trial. *Cancer Chemother Pharmacol* 2002; 50:433-44
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82. Black KJ, Hershey T, Koller JM, Videen TO, **Mintun MA**, Price JL, Perlmutter JS: A possible substrate for dopamine-related changes in mood and behavior: Prefrontal and limbic effects of a D3-preferring dopamine agonist. *PNAS* 2002; 99: 17113-17118
83. Dehdashti F, **Mintun MA**, Lewis JS, Bradley J, Govindan R, Laforest R, Welch MJ, Siegel BA. In vivo assessment of tumor hypoxia in lung cancer with ⁶⁰Cu-ASTM. *Eur J Nuc Med* 2003 Apr 13.
84. Lee BC, **Mintun MA**, Buckner RL, Morris JC. Imaging of Alzheimer's disease. *J Neuroimaging*; 2003;13(3):199-214.
85. **Mintun M**. Vlassenko A. Rundle M, Raichle M. Increased lactate/pyruvate ratio augments blood flow in physiologically activated human brain. *PNAS* 2004; 101:659-64.
86. **Mintun MA.**, Sheline YI., Moerlien SM., Vlassenko AG., Huang Y., Snyder A. Decreased hippocampal 5-HT_{2A} receptor binding in major depressive disorder: In vivo measurement with [18F] altanserin positron emission tomography. *Biological Psychiatry* 2004 Feb 1; 55(3):217-24.
87. Richard J.C., Zhou Z., Chen D.L., **Mintun M.A.**, Piwnica-Worms D, Factor P, Ponde, D.E., & Schuster, D.P. Quantitation of pulmonary transgene expression with PET imaging. *J Nucl Med* 2004; 45 644-654

88. Chen, D.L., **Mintun, M.A.**, Schuster, D.P. A comparison of methods to quantitate ¹⁸F-fluorodeoxyglucose uptake with positron emission tomography during experimental acute lung injury. *J Nuc Med* 2004; 45(9):1583-90.
89. Vlassenko AG, Sheline YI, Fischer K, **Mintun MA**. Cerebral perfusion response to successful treatment of depression with different serotonergic agents. *J Neuropsychiatry and Clinical Neurosciences* 2004; 16:360-63.
90. Sheline YI, **Mintun MA**, Barch DM, Wilkins C, Snyder AZ, Moerlein SM. Decreased hippocampal 5-HT_{2A} receptor binding in late life depression using [¹⁸F]altanserin positron emission tomography. *Neuropsychopharm*, 2004; 29(12):2235-2241.
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94. Mathews J, Garcia KS, **Mintun MA**, Sheline YI. Antidepressant efficacy of olanzapine as monotherapy in major depressive disorder, without psychosis: a pilot study. *Psychiatry Res*. 2006 March 31;146(2):149-55.
95. Conway CR, Sheline YI, Chibnall JT, George MS, Fletcher JW, **Mintun MA**. Cerebral blood flow changes during vagus nerve stimulation for depression. *Psychiatry Res* 2006; 146 (2):179-184.
96. Vlassenko AG, Rundle MM, Raichle ME, **Mintun MA**. Regulation of blood flow in activated human brain by cytosolic NADH/NAD⁺ ratio. *PNAS* 2006;103 (6):1964-1969.
97. Chen DL, Rosenbluth DB, **Mintun MA**, Schuster DP. FDG-PET Imaging of pulmonary inflammation in healthy volunteers after airway instillation of endotoxin. *J Appl. Physiol* 2006 May;100(5) 1602-9.
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100. Raichle ME, **Mintun MA**: Brain Work and Brain Imaging. *Annu Rev Neurosci* 2006; 29:449-476.

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