CURRICULUM VITAE

Mark D'Esposito, MD

Office Address

University of California, Berkeley
Helen Wills Neuroscience Institute
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Education

1979-1983	B.S.	University of Rochester (Neuroscience)
	B.A.	University of Rochester (Interdisciplinary Studies)
1983-1987	M.D.	SUNY Health Science Center at Syracuse College of Medicine

Postgraduate Training

1987-1988	*Intern in Medicine*, Nassau County Medical Center, East Meadow, NY
1988-1991	*Resident in Neurology*, Boston University Medical Center, Boston, MA
1990-1991	*Chief Resident in Neurology* Boston University Medical Center, Boston, MA
1991-1992	*Javits Memory Disorders Fellow* Memory Disorders Research Center, Boston VA Medical Center, Boston University Medical Center, Boston, MA
1991-1993	*Behavioral Neurology Fellow* Braintree Rehabilitation Hospital, Boston VA Medical Center, Boston University Medical Center, Boston, MA

Faculty Appointments

1993-1999	Assistant Professor of Neurology Department of Neurology University of Pennsylvania School of Medicine
1999-2000	Associate Professor of Neurology Department of Neurology University of Pennsylvania School of Medicine
1999-present	Professor of Neuroscience and Psychology Helen Wills Neuroscience Institute & Dept. of Psychology University of California, Berkeley

Other Positions

2017-present	Chief Scientific Officer, Global Neurohealth Ventures
2002-present	Attending Neurologist Neurorehabilitation Unit Neurovascular Clinic and Cognitive Neurology Clinic Center for Rehabilitation and Extended Care Northern California VA Health Care System, Martinez, CA
2000-present	Director, Henry H. Wheeler, Jr. Brain Imaging Center University of California, Berkeley
1998-2000	Chief, Cognitive Neurology Division Department of Neurology, University of Pennsylvania

Secondary Faculty and Clinical Appointments

2000-present	Adjunct Professor of Neurology Dept. of Neurology, University of California, San Francisco
1999-present	Attending Neurologist Northern California VA Health Care System
2005-present	Visiting Scientist Center for Brain Health School of Behavioral and Brain Sciences UT Dallas
1998-2000	Associate Scientist Rotman Research Institute, University of Toronto
1997-2000	Adjunct Scientist Moss Rehabilitation Research Institute, Philadelphia, PA
1996-1998	Visiting Assistant Professor of Psychology Princeton University

Specialty Certification 1992 Diplomate, American Board of Psychiatry and Neurology

Medical Licensure California, Massachusetts, Pennsylvania, Rhode Island

Awards, Honors, and Honorary Lectures

1981	Rochester Prize Scholarship University of Rochester
1983	The Professor Donald R. Charles Scholarship University of Rochester
1984	Ciba-Geigy Award for Outstanding Community Service SUNY Syracuse, College of Medicine
1985	Henderson Student Award, American Geriatrics Society Honorable Mention SUNY Syracuse, College of Medicine
1987	Class President SUNY Syracuse, College of Medicine
1987	Upjohn Achievement Award SUNY Syracuse, College of Medicine
1991	Javits Research Fellowship Award National Institute of Health
1993	K08 Career Development Award National Institute of Health
1995	Resident's Teacher of the Year Award Department of Neurology, University of Pennsylvania,
1996	Dean's Award for Excellence in Basic Science Teaching University of Pennsylvania School of Medicine
1996	University of Pennsylvania School of Medicine Class of 1999 Excellence in Teaching Award
1996, 1999	Philadelphia Magazine, "Top Doctor"
1996-2011	The Best Doctors in America
1997	Paul Beeson Physician Faculty Scholar in Aging Research
1997	University of Pennsylvania School of Medicine Class of 2000 Excellence in Teaching Award
1999	Norman Geschwind Prize in Behavioral Neurology American Academy of Neurology
1999	Elected Member, American Neurological Association
2005	Swammerdam Lecture KU Medical Center, Amsterdam
2005	Pinckney Harmon Lecture Cajal Club
2006	Frank Elliott Lecture in Cognitive Neuroscience University of Pennsylvania School of Medicine

2007	Alavi Dabiri Lecture Mental Retardation & Developmental Disabilities Research Center, Children's Hospital of Philadelphia
2009-11	Chair, Behavioral Neurology Section American Academy of Neurology
2009-11	President, Society for Behavioral and Cognitive Neurology
2008-09	President, Organization for Human Brain Mapping
2008	Keynote Lecture Organization for Human Brain Mapping Meeting
2009	Elected to the Neurosciences Research Program The Neurosciences Institute
2013	Elected Fellow American Neurological Association
2015	Distinguished Fellow SAGE Center for the Study of the Mind University of California, Santa Barbara
2016	Elected Fellow American Academy of Neurology
2017	Appointed Section Head (Cerebrovascular Disease), Faculty1000
2017	Elected Fellow American Association for the Advancement of Science
2018	Elected Member Sigma Xi (Scientific Research Honor Society)

Memberships in Professional and Scientific Societies

American Academy of Neurology, 1990-present
American Association for the Advancement of Science, 2012-present
American Neurological Association, 1999-2017
Cognitive Neuroscience Society, 1994-present
Memory Disorders Research Society, 1993-present
Organization for Human Brain Mapping, 1995-present
Sigma Xi, 2018-present
Society for Behavioral and Cognitive Neurology, 1991-present
Society for Neuroscience, 1993-present

Ad-Hoc Journal Reviewer

American Journal of Psychiatry
Annals of Neurology
Archives of Neurology
Behavioral and Brain Sciences
Biological Psychiatry
Brain
Brain & Cognition
Brain Imaging and Behavior
Cerebral Cortex
Cognitive, Affective and Behavioral Neuroscience
Cognitive Brain Research
Cortex
Current Biology
Current Opinions in Neurobiology
Epilepsy and Behavior
European Journal of Neuroscience
Experimental Brain Research
Frontiers in Neuroscience
Hippocampus
Human Brain Mapping
Journal of the American Medical Association (JAMA)
Journal of the American Medical Association: Neurology
Journal of the American Medical Association
Journal of Cognitive Neuroscience
Journal of the International Neuropsychological Society
Journal of Neuroimaging
Journal of Neurophysiology
Journal of Neuroscience
Journal of Psycopharmacology
Magnetic Resonance in Medicine
Nature
Nature Communications
Nature Human Behavior
Nature Neuroscience
Nature Reviews Neuroscience
Neurobiology of Aging
NeuroCase
NeuroImage
Neurology
Neuron

Neuropsychologia
Neuropsychology
Neuropsychopharmacology
Neurorehabilitation and Neural Repair
Neuroscience
Proceedings of the National Academy of Sciences
Psychobiology
Psychological Science
Psychonomic Bulletin and Review
Psychopharmacology
Psychophysiology
Public Library of Science Biology
Public Library of Science One
Quarterly Journal of Experimental Psychology
Science
Scientific Reports
Stroke
Trends in Neuroscience
Trends in Cognitive Science

Editorial Positions

2003-present	Editor-In-Chief, Journal of Cognitive Neuroscience
2000-present	Editor, Oxford University Press, Psychology Series
1999-present	Editorial Board, Human Brain Mapping
1998-present	Editorial Board, NeuroCase
2012-2019	Editorial Advisory Board, Current Directions in Psychological Science
1998-2008	Editorial Board, Neurorehabilitation and Neural Repair
2007-2012	Editorial Board, Neuropsychology
2002-2006	Editorial Board, Journal of Neurophysiology
2001-2006	Contributing Editor, Science of Aging Knowledge Environment (SAGE KE – Science online)
2000-2005	Editorial Board, Neuropsychologia
1999-2005	Editorial Board, Epilepsy and Behavior
1998-2003	Editor, Journal of Cognitive Neuroscience

Advisory Boards/Scientific Panels

1996-present	Society of Behavioral and Cognitive Neurology Behavioral Neurology Section, American Academy of Neurology
1998-2007	National Functional MRI Data Center
2000-2010	National Scientific Advisory Council American Federation for Aging Research
2000-2013	American Health Assistance Foundation Alzheimer's Disease Research Scientific Review Committee
2003-2008	Faculty of 1000, Biology
2003-2013	Advisory Council of the Executive Committee International Association for the Study of Attention and Performance
2010-2015	NIMH Summer Institute for Cognitive Neuroscience Board of Directors
2012-2013	Scientific Advisory Panel NIH/NSF Neural Imaging Study
2012	Steering Committee National Institute of Neurological Disorders and Stroke (NINDS) Stroke Priorities Research Panel
2015	External Advisory Committee Department of Psychological and Brain Sciences Johns Hopkins University
2013	External Advisory Committee Beckman Institute for Advanced Science and Technology University of Illinois at Urbana-Champaign
2013	American Society for Neuroradiology Study Group for Clinical Translation of DTI/fMRI
2017-present	Faculty of 1000, Section Head (Cerebrovascular Disease)
2019-2020	ZiF Research Group Cognitive Behavior of Humans, Animals and Machines Center for Interdisciplinary Research University of Bielefeld

Principal Investigator of Grants

Past

University of Pennsylvania Research Foundation, "Functional Neuroimaging Studies of Working Memory", 7/94-7/95, $5400.

NIH-Alzheimer's Disease Center, University of Pennsylvania, "Working Memory in Alzheimer's Disease", 7/94-7/95, $25,000.

McDonnell-Pew Cognitive Neuroscience Award, "Cognitive Studies and Functional Neuroimaging in Working Memory", 9/94-2/97, $60,000.

McCabe Fund, "Working Memory in Human Brain Damage", 9/94-9/95, $17,000.

American Federation for Aging Research, "Working Memory in Normal Human Aging", 7/95-6/96, $30,000.

NIH (NINDS) – Clinical Investigator Development Award -K08, "Working Memory in Human Brain Damage", 6/95-6/00, $450,000.

Charles A. Dana Foundation, "Functional Neuroimaging Studies of Memory Changes in the Healthy Elderly", 7/96-6/99, $250,000.

NIH (NIA) - R01, "Working Memory in Parkinson's Disease and Aging", 10/96-10/01, $1,800,000.

American Federation of Aging Research, "Functional Neuroimaging Studies of Working Memory in Normal Human Aging", 7/97- 6/02, $450,000

NIH (NIDA) – R01, "Drug Studies of Dopamine and Prefrontal Function", 4/98- 3/02, $800,000.

American Parkinson's Disease Association, "Defining the Cognitive Enhancing and Impairing Effects of Dopaminergic Medication in Parkinson's Disease", 9/04-8/05, $50,000

NIH (NIMH) – R01, "Working Memory and Prefrontal Cortex", 7/01-6/06, $1,800,000.

Merck, Inc. "Validation of Pharmacological fMRI", 12/04-12/06, $100,000.

NIH (NIMH) – P20 "fMRI Research via Database Mining, Management", subproject to Dartmouth College Award (PI Gazzaniga), 4/05 – 6/07, $200,000.

Dana Foundation, "Arts Education And Its Impact On The Brain And Enhanced Learning In Other Knowledge Domains", 9/04-12/07, $200,000

NIH (NIA) – R01, "Aging and Memory: fMRI Studies of Component Processes", 9/03- 8/08, $2,300,000.

NIH (NIMH) – R03, "fMRI Studies of Working Memory and Motivation", 4/06-3/08, $100,000.

NIH (NINDS) – P01, "Behavioral Neuroscience and Stroke, 9/02-8/07, $6,394,843

Merck, Inc. “Development of Pharmacological fMRI”, 1/09-12/10, $206,000.

National Science Foundation Major Research Instrumentation Grant, “Acquisition of a Siemens MAGNETOM Trio A Tim System, 9/1/08, $1,431,462

NIH (NIMH) – R01, “Continued Development and Maintenance of the Neuroimaging in Python Project”, 7/07-4/10, $1,000,000.

Veterans Administration, Merit Award (B4605I), “Plasticity in Brain Networks to Enhance Cognitive Rehabilitation”, 9/07-8/10, $750,000

NIH (NIDA) – R01, “Frontostriatal Modulation of Dopaminergic Function”, 4/06- 2/12, $2,172,928.

NIH (NIA) – R01, “A Brain-Based Approach to Enhancing Executive Functions in Healthy Aging”, 9/09- 8/12, $805,875.

NIH (NIMH) – R01, “Working Memory, Cognitive Control, and Prefrontal Cortex”, 7/06-6/12, $1,864,628.

NIH (NINDS) – P01, “Frontal Cortex and Executive Function”, 3/08-2/13, $6,656,180.

Aptima, Inc. “New Mobile Game-Based Application for Reliable Neurocognitive Assessment”, $44,777, 8/31/12-3/30/13.

Veterans Administration, Merit Award (B74671), “Neural Bases of Cognitive Rehabilitation for Brain Injury”, 2/11-1/15, $1,100,000

Abbot Laboratories/University of Illinois, “The Role of Dopamine in Obesity, Food-Choice and Memory-Related Processes”, 5/13-5/14, $120,426.

Peder Sather Center for Advanced Study, University of California, Berkeley, “Development of Episodic Memory Processes, 8/13-2/14, $15,000

NIH (NIMH) R03, “Investigating Brain Network Dynamics with Simultaneous TMS-FMRI ”, 4/14-3/16, $156,688.

NIH (NIMH) R01, “Working Memory and Prefrontal Cortex”, 7/12-6/17, $1,858,722.

NIH (NINDS) R01, “Mechanisms of Neuroplasticity in Functional Brain Networks 2/13-12/17, $1,665,896

NIH (NIDA) R01, “Dopamine and Frontostriatal Function” 9/13-6/18, $3,378,264

Current

NIH (NIMH)	R01,	Principal Investigator "Working Memory, Cognitive Control and Prefrontal Cortex" 6/18-5/23, $2,470,000
NIH (NIMH)	R01,	Principal Investigator "Neural Dynamics of Human Working Memory Networks" 9/16-7/21, $2,609,329
NIH (NIMH)	R01	Collaborator (P.I. Ellman) "Maternal Inflammation During Pregnancy: Clinical and Neurocognitive Outcomes in Adult Offspring" 7/19-6/24, $2,500,000
VA Research Administration Merit Award		Co-Principal Investigator (PI Kayser) "Developing Behavioral and Neuroimaging Predictors of Stroke Recovery" 9/18-7/22, $1,100,000

Grant Reviewer

Committee Member

NIH Study Section, IFCN-8 Cognitive Neuroscience (1998-2000)
American Federation for Aging Research (2000-2010)
American Health Assistance Foundation (2001-2014)

Ad-hoc Reviewer

Alzheimer's Association
Dana Foundation
Department of Defense
Hertie Foundation (Germany)
Medical Research Council of Canada
National Institute of Health
National Science Foundation
Ontario Research and Development Challenge Fund
Paul G. Allen Family Foundation
The Wellcome Trust, London (England)
Veteran's Administration Research Service

Academic Committees

University of California, Berkeley (2000-present)

Academic Integrity Committee (Member, 2018-present)
Berkeley Bioengineering Medical Advisory Board (2018-present)
Campus Promotions Ad-hoc Review Committee
Chancellor's Advisory Committee on Biology (2003-2008)
Department of Psychology Faculty Search Committees (Member, 2007, 2015, 2017)
Department of Psychology/HWNI Developmental Neuroscience Search Committee (Chair, 2005)
Department of Psychology Gene x Environment Search Committee, (Chair, 2006)
Department of Psychology Merit Review/Promotion Committees
Department of Psychology Awards Committee
Institute for Social and Personal Research Advisory Board
Helen Wills Neuroscience Institute Executive Committee
Helen Wills Neuroscience Institute Faculty Search Committees (Member, 2015, 2017)
Institute for Human Development External Review (2007)
Integrative Biology Faculty Search Committee (2002)
Joint Neuroscience/Public Health Search Committee (2003)
Joint Neuroscience/Vision Science Search Committee (2004)
Neuroscience Graduate Program Admissions Committees
Neuroscience and Public Health Search Committee (Chair, 2003)
Senate Athletic Council (Member, 2015-2018; Chair, 2018-present)
University Athletic Board (Member, 2018-present)

University of Pennsylvania (1993-1999)

Housestaff Committee, Hospital of the University of Pennsylvania
Residency Selection Committee, Department of Neurology
Divisional Committee on Education, Departments of Neurology and Neuroscience
Residency Education Committee, Department of Neurology
Integrated Neurosciences Course Review Committee
Medical School Admissions Committee (Interviewer)
Curriculum 2000, Brain & Behavior Module Committee
Medical Student Research Awards Committee
Medical School Faculty Awards Committee
University of Pennsylvania Cognitive Neuroscience Task Force

Teaching Responsibilities

University of California, Berkeley (2000-present)

Primary Instructor

PSY117	Human Neuropsychology (undergraduate)
PSY118	Brain Imaging and Behavior (undergraduate)
PSY24	The Shattered Mind (freshman seminar)
PSY290	Clinical Neuroscience (graduate)
PSY214	Functional MRI Methodology (graduate)

Guest lecturer

PSY100A	Introduction to Psychology (undergraduate)
PSY110	Biological Psychology (undergraduate)
CS100	Introduction to Cognitive Science (undergraduate)
MCB135K	Physiology of Aging (undergraduate)
IB245L	Human Neuroanatomy Lab (undergraduate)
MCB160	Introduction to Neurobiology (undergraduate)
MCB260	Principles of Neuroscience (graduate)

University of Pennsylvania (1993-1999)

ID110 Integrative Neuroscience
INSC 590 Systems Neuroscience Core Course
INSC 616 Recovery After Neural Injury
INSC 590 Neuroscience Lab
Neurology 200 clerkship
Pathology 200 (neuropathology)
Neurology Attending Rounds
Cognitive Neurology Clinic
Neurology Resident Clinic
Cognitive Neurology Conference

Graduate Student (Thesis Advisor)

University of Pennsylvania (1993-2000)

Eric Zarahn	Neuroscience	(1997)
Geoffrey Aguirre	Neuroscience	(1998)
Jason Druzgal	Neuroscience	(2000)

University of California, Berkeley (2000-present)

Sasha Gibbs	Psychology	(2005)
Susan Landau	Psychology	(2005)
Felice Sun	Biomedical engineering	(2005)
Joe Degutis	Psychology	(2006)
Dan Handwerker	Biomedical engineering	(2006)
Margaret Sheridan	Psychology	(2007)
Jesse Rissman	Psychology	(2007)
Brian Miller	Neuroscience	(2008)
Emily Jacobs	Neuroscience	(2010)
Amy Finn	Psychology	(2010)
Drew Fegen	Neuroscience	(2012)
Taraz Lee	Psychology	(2012)
Caterina Gratton	Neuroscience	(2013)
Jason Vytlacil	Psychology	(2015)
Courtney Gallen	Neuroscience	(2016)
Maxwell Bertolero	Psychology	(2017)
Daniel Bliss	Neuroscience	(2017)
Elizabeth Counterman	Neuroscience	(2018)

Justin Riddle	Psychology	(2018)
Daniel Lurie	Psychology	current
Adam Eichenbaum	Neuroscience	current
Daniel Toker	Neuroscience	current
Jacob Miller	Neuroscience	current

Graduate Student (Committee Member)

University of Pennsylvania (1993-1999)

Lisa Zorilla, PhD	Psychology, 1996
Janice Hinkle, PhD	Nursing, 1999
Kevin Quinn, PhD	Psychology, 1999
Beau Ances, MD PhD	Neuroscience, 2000

University of California, Berkeley (2000-present)

Jeffrey Thompson	Vision Science, 2004
Audrey Duarte, PhD	Neuroscience, 2004
Emiliana Pellouchoud, PhD	Psychology, 2004
Kathleen Hansen, PhD	Psychology, 2006
Tim Verstynen, PhD	Psychology, 2006
Neil Albert, PhD	Psychology, 2006
Maryam Soltani, PhD	Psychology, 2007
Johanna Zumer, PhD	Bioengineering, 2007
Brian Pasley, PhD	Neuroscience, 2008
Elena Allen, PhD	Neuroscience, 2008
Ahalya Viswanathan, PhD	Vision Science, 2008
Sangita Dandekar, PhD	Vision Science, 2008
Flavio Oliveira, PhD	Psychology, 2009
Beth Mormino, PhD	Neuroscience, 2011
Peter Butcher, PhD	Psychology, 2014
Katelyn Arnemann, PhD	Neuroscience, 2018

Outside Universities

Luc Cornette	Neurophysiology, University of Leuven, Belgium, 2000
James Rowe	Neuroscience, University College London, UK, 2002
Amy Brodtmann	Medicine, University of Melbourne, Australia, 2004
Eli Merriam	Neuroscience, University of Pittsburgh, 2006
Christine Stelzel	Psychology, Humboldt University, Berlin, Germany, 2008
Douglas Garrett	Psychology, University of Toronto, 2011

Post-doctoral Fellows

1.	Sharon McDowell MD (Ohio State)	completed 1998 Assistant Professor Department of Rehabilitation Medicine University of Michigan
2	Sharon Thompson-Schill, PhD (Stanford)	completed 1999 Professor Department of Psychology University of Pennsylvania
3.	Daniel Kimberg, PhD (Carnegie Mellon)	completed 1999 Research Scientist Department of Neurology University of Pennsylvania
4.	Bradley Postle, PhD (MIT)	completed 2000 Professor Department of Psychology University of Wisconsin, Madison
5.	Bart Rypma, PhD (Georgia Tech)	completed 2001 Professor School of Behavioral and Brain Sciences University of Texas, Dallas
6.	Charan Ranganath, PhD (Northwestern)	completed 2002 Professor Department of Psychology University of California, Davis
7.	Clay Curtis, PhD (Minnesota)	completed 2003 Associate Professor Department of Psychology New York University
8.	Leon Deoeull, MD PhD (Hebrew U.)	completed 2003 Professor Department of Psychology Hebrew University, Israel
9.	Charlotte Boettiger, PhD (UCSF)	completed 2003 Associate Professor Department of Psychology University of North Carolina, Chapel Hill
10.	Eric Schumacher, PhD (U. Michigan)	completed 2004 Associate Professor Georgia Tech University

11.	Lee Miller, PhD (UCSF)	completed 2004 Associate Professor Dept. of Neurobiology, Physiology & Behavior University of California, Davis
12.	Jenni Beer, PhD (UC Berkeley)	completed 2004 Associate Professor Department of Psychology University of Texas, Austin
13.	Christine Hooker, PhD (Northwestern)	completed 2004 Professor Department of Psychiatry Rush University
14.	Jong Yoon, MD (UCSF)	completed 2005 Assistant Professor Department of Psychiatry Stanford University
15.	Adam Gazzaley, MD PhD (Mt. Sinai)	completed 2005 Associate Professor Department of Physiology and Neurology University of California, San Francisco
16.	Michael Silver, PhD (Carnegie Mellon)	completed 2005 Associate Professor Dept. of Vision Science & Neuroscience University of California, Berkeley
17.	Natasha Rajah, PhD (U. Toronto)	completed 2005 Associate Professor Department of Psychiatry McGill University
18.	Roshan Cools, PhD (Cambridge University, UK)	2003-2005 Principal Investigator F.C. Donders Centre for Cognitive Neuroimaging Radboud University, Nijmegen, The Netherlands
19.	Sandrine Duverne, PhD (U. Provence, France)	completed 2005 Research Scientist CNRS, University of Provence, France
20.	Christian Fiebach, PhD (Max-Planck Institute, Leipzig, Germany)	completed 2005 Professor Institute for Psychology Goethe University Frankfurt
21.	Daniel Krawczyk, PhD (UCLA)	completed 2006 Associate Professor Department of Psychology University of Texas, Dallas

22. Anthony Chen, MD (UCSF)
completed 2006
Assistant Professor
Department of Neurology
University of California, San Francisco

23. David Badre, PhD (MIT)
completed 2007
Associate Professor
Dept. of Cognitive & Linguistic Sciences
Brown University

24. Andrew Kayser, MD PhD (UCSF)
completed 2008
Assistant Professor
Department of Neurology
University of California, San Francisco

25. Brad Buchsbaum, PhD (UC Irvine)
completed 2008
Associate Professor/Research Scientist
Rotman Research Institute
University of Toronto

26. Gary Turner, PhD (U. Toronto)
completed 2009
Associate Professor
Department of Psychology
York University

27. Bianca Wittmann, PhD
(Otto von Guericke University)
completed 2010
Assistant Professor
Department of Psychology
Giessen University, Germany

28. Roel Willems, PhD
(Donders Center, Netherlands)
completed 2011
Research Scientist
F.C. Donders Centre for Cognitive Neuroimaging
Radboud University, Nijmegen,
The Netherlands

29. Bradley Voytek PhD (Berkeley)
2010-2011
Assistant Professor
UC San Diego

30. Craig Brozinsky, PhD (UC Davis)
completed 2012
Research Scientist
Exponent, Inc.

31. Emi Nomura, PhD (Northwestern)
completed 2012

		Research Scientist Hearsay Social, Inc.
32.	Esther Aarts, PhD (Donders Center, Netherlands)	completed 2012 Research Scientist F.C. Donders Centre for Cognitive Neuroimaging Radboud University, Nijmegen, The Netherlands
33.	Michael Todd, PhD (Princeton University)	completed 2013 Scientist Netflix
34.	Jorg Bahlmann, PhD (Max Planck, Germany)	completed 2013 Staff Scientist University of Lübeck, Germany
35.	Kartik Sreenivasan, PhD (Penn)	completed 2013 Assistant Professor NYU - Abu Dhabi
36.	Winston Chiong, MD PhD (UC Berkeley)	completed 2013 Assistant Professor USCF
37.	Ian Cameron, PhD (Queen's U., Canada)	2010-2013 Research Scientist F.C. Donders Centre Cog Neuroimaging Radboud University, Nijmegen,Netherlands
38.	Rob Blumenfield, PhD (UC Davis)	2008-2013 Assistant Professor Cal State Pomona
39.	Jessica Cohen, PhD (UCLA)	2009-2013 Assistant Professor University of North Carolina, Chapel Hill
40.	Deanna Wallace, PhD (UT Southwestern)	2008-2014 Research Scientist UCSF
41.	Sepideh Sadaghiani, PhD (Max Planck, Germany)	2010-2014 Assistant Professor University of Illinois, Champagne-Urbana
42.	Jan Peters, PhD (Ruhr-University Bochum,Germany)	2013-2014 Research Scientist University Medical Center Hamburg
43.	Ben Bowles (U. Western Ontario, Canada)	2013-2014 Data Scientist URX, Inc.

44.	Doby Rahnev (Columbia University)	2012-2015 Assistant Professor Georgia Institute of Technology
45.	Derek Nee, PhD (University of Michigan)	2012-2016 Assistant Professor Florida State University
46.	Annelinde Vandenbrouke (U. Amsterdam)	2014-2016
47.	Jean-Sebastian Provost (U. Montreal)	2015-2016 Research Scientist University of Montreal
48.	Robert White, MD PhD (Washington University)	2011-2017 Assistant Professor Washington University
49.	Kai Hwang (U. Pittsburgh)	2014-2018 Assistant Professor University of Iowa
50.	Daniella Furman (Stanford)	current
51.	Arielle Tambini (NYU)	current
52.	Pauline Baniqued (U. Illinois, Champagne-Urbana)	current
53.	Anastasia Kiyonaga (Duke)	current
54.	Jason Scimeca (Brown)	current
55.	Regina Lapate (U Wisconsin-Madison)	current
56.	David Vogelsang (Cambridge University, UK)	current
57.	Savannah Cookson (Georgia Tech)	current
58.	Ian Ballard (Vanderbilt)	current
59.	Ioannis Pappas (Cambridge University)	current
60.	Yuan Chang Leong (Stanford)	pending

Mentor for NIH/NSF Pre-doctoral and Post-doctoral Fellow Trainee Grants

NIH/NSF Pre-Doctoral Training Awards	Total Number = 12
NIH Post-Doctoral National Research Service Award (NRSA)	Total Number = 25
NIH Post-Doctoral Fellow K Award	Total Number = 5

Outside lectures by invitation

National

1. June, 1982 "Man's Plastic Brain: It's Implications for the Care of Our Elderly", Undergraduate Conference on Bioethics, Boston College.

2. October, 1986 "Student Position Paper for a New Medical School Curriculum", Retreat of the Task Force for a New Curriculum of the SUNY Health Science Center at Syracuse, at Colgate University.

3. May, 1987 "Medical Student Commencement Address", SUNY Health Science Center at Syracuse, College of Medicine Commencement.

4. April, 1992 "What Does Neurology Residency Really Consist Of?", Stanley Cobb Assembly, Boston Society of Neurology and Psychiatry.

5. October, 1992 "Profile of a Residency Training Program: What Can We Learn?", Alumni Teaching Day, SUNY Health Science Center at Syracuse.

6. December, 1992 "Multiple mechanisms of unilateral visual neglect", Department of Neurology Grand Rounds, University of Pennsylvania.

7. January, 1993 "Diagnosis and treatment of aphasia", Medical Grand Rounds, Landmark Medical Center, Woonsocket, Rhode Island.

8. February, 1993 "Neurological emergencies", Medical Grand Rounds, Tougas VA Medical Center, Augusta, Maine.

9. May, 1993 "The cognitive profile of anterior communicating artery aneurysm rupture", Neurology Grand Rounds, Medical University of South Carolina, Charleston, SC

10. September, 1993 "Aneurysm rupture: cognitive and behavioral deficits and course of recovery", Platform speaker, 14th Annual Braintree Hospital Traumatic Brain Injury Conference, Boston, MA.

11. September, 1993 "Stroke syndromes: cognitive and behavioral deficits and course of recovery", Platform speaker, 14th Annual Braintree Hospital Traumatic Brain Injury Conference, Boston, MA.

12. August, 1994 "Traumatic Brain Injury", Symposium speaker, Lewis-Gale Hospital, Roanoke, VA.

13. September, 1994 "Memory disorders after stroke", Platform speaker, 15th Annual Braintree Hospital Stroke Conference, Boston, MA.

14. September, 1994 "The neurology of the persistent vegetative state and related conditions", Platform speaker, 15th Annual Braintree Hospital Traumatic Brain Injury Conference, Boston, MA.

15. September, 1994 "Functional MRI studies of cognition", Philadelphia Cognitive Neuroscience Discussion Group, Graduate Hospital, Philadelphia, PA.

16. March, 1995 "Functional MRI studies of cognition", AOA Society, Jefferson University School of Medicine, Philadelphia, PA.

17. September 1995 "Functional MRI studies of working memory", Cognitive Neuroscience Seminar, National Institute of Mental Health, Bethesda, MD.

18. September, 1995 "The Frontal Lobes", Grand Rounds, Department of Rehabilitation Medicine, University of Pennsylvania.

19. November, 1995 "Memory disorders after stroke", Platform speaker, 2nd Annual Braintree Hospital Stroke Conference, Boston, MA.

20. November, 1995 "Working memory and head injury", Platform speaker, 16th Annual Braintree Hospital Brain Injury Conference, Boston, MA.

21. April, 1996 "Behavioral/Cognitive Neuroscience - 1995 Review", 13th Annual Neuroscience Retreat, University of Pennsylvania, Philadelphia, PA.

22. July, 1996 "Language and Aphasia", Board Review in Psychiatry, The George Washington University Medical Center, Washington, DC.

23. July, 1996 "Memory and Amnesia", Board Review in Psychiatry, The George Washington University Medical Center, Washington, DC.

24. September, 1996 "Alzheimer's Disease and other memory disorders", Barnes & Noble, Marlton, NJ.

25. October, 1996 "Functional MRI studies of working memory", Memory Disorders Research Society, Boston, MA.

26. November, 1996 "The neurology of the frontal lobes", Neurology Grand Rounds, Pennsylvania Hospital, Philadelphia, PA.

27. February, 1997 "Functional MRI studies of working memory", Department of Psychology Colloquium, Princeton University, Princeton, NJ.

28. March, 1997 "Functional subdivisions of prefrontal cortex using functional MRI", Cognitive Neuroscience Society, Platform speaker, Boston, MA.

29. May, 1997 "Functional MRI studies of topographical knowledge", National Academy of Sciences Symposium on Neuroimaging of Brain Function, Chair and symposium speaker, Irvine, CA.

30. May, 1997 "Assessment of the cerebral cortex", American Academy of Neurology, Dinner Seminar entitled "Behavioral Neurology for the Practicing Neurologist", Course Director and Speaker, Boston, MA.

31. August, 1997 "Functional MRI and pharmacological studies of working memory", National Institute of Drug Abuse, Baltimore, MD.

32. September, 1997 "Specific stroke syndromes and neurorehabilitation", American Congress of Rehabilitation Medicine", Boston, MA

33. December, 1997 "Functional MRI studies of prefrontal cortex and working memory", Cognitive Psychology Seminar, Temple University, Philadelphia, PA

34. January, 1998 "Functional MRI studies of prefrontal cortex and working memory", Cognitive Neuroscience Seminar, Northwestern University Medical School, Chicago, IL

35. May, 1998 "Assessment of the cerebral cortex", American Academy of Neurology, Dinner Seminar entitled "Behavioral Neurology for the Practicing Neurologist", Course Director and Speaker, Minneapolis, MN

36. May, 1998 "The neurology of the frontal lobes", Department of Neurology Grand Rounds, Temple University School of Medicine, Philadelphia, PA.

37. September, 1998 "Functional MRI studies of working memory", Cognitive Neuroscience Colloquium, Center for Developmental Cognitive Neuroscience, Shriver Center, Waltham, MA.

38. September, 1998 "Functional MRI studies of working memory", Cognitive Neuroscience Colloquium, Dartmouth College, Hanover, NH.

39. September, 1998 "The variability of human BOLD hemodynamic response in young and older subjects: implications for event-related fMRI design and analysis", National Institute of Mental Health Cognitive Neuroimaging Workshop, Rockville, MD.

40. October, 1998 "Behavioral, pharmacological and functional MRI studies of the frontal lobes ", Traumatic Brain Injury Conference, American Society for Neurorehabilitation, Bryn Marr Rehabilitation Hospital, Malvern, PA.

41. January, 1999 "Dissecting working memory using functional MRI", Integrative Neuroscience Series, National Institute of Mental Health, Bethesda, MD.

42. March, 1999 "Dissecting working memory using functional MRI", Center for Neuroscience, UC Berkeley, Berkeley, CA.

43. March, 1999 "Dissecting working memory using functional MRI", Department of Psychology, Stanford University, Palo Alto, CA.

44. March, 1999 "Dissecting working memory using functional MRI", Center for Neuroscience, UC Davis, Davis, CA.

45. April, 1999 "Dissecting working memory using functional MRI", Satellite Symposium of the 1999 Cognitive Neuroscience Society, "Attentional Processes in Perception and Working Memory", Washington, DC

46. April, 1999 "Experimental Design", American Academy of Neurology, Course entitled "Functional MRI, Toronto Canada

47. April, 1999 "Neural components of topographical representation", Spatial Cognitive Conference, University of California, Berkeley

48. May, 1999 "Assessment of the cerebral cortex", American Academy of Neurology, Dinner Seminar entitled "Behavioral Neurology for the Practicing Neurologist", Course Director and Speaker, Toronto, Canada

49. May, 1999 "Neural basis of topographical representation", Spatial Cognition Conference, UC Berkeley, Berkeley, CA.

50. October, 1999 "Functional MRI: implications for cognitive neuroscience", Symposium on Functional Imaging, American Neurological Association Annual Meeting, Seattle, WA.

51. November, 1999 "Post-concussive syndrome", Penn Neurology 2000: Management of Common Neurological Problems, Hamilton, Bermuda.

52. November, 1999 "Event-related fMRI", Memory Disorders Research Society Annual Meeting, University of Arizona, Tucson, AZ.

53. November, 1999 "Isolating the neural mechanisms of age-related changes in working memory using event-related fMRI", Symposium entitled "Old Memories", The Banbury Center, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

54. December, 1999 "Prefrontal cortical contributions to working memory: evidence from event-related fMRI studies", Neuroscience Seminar, Department of Cell Biology, Neurobiology and Anatomy, Medical College of Wisconsin, Milwaukee, WI.

55. January, 2000 "Is functional MRI the new phrenology?" Department of Neurology Grand Rounds, Johns Hopkins School of Medicine, Baltimore, MD.

56. March, 2000 "Is functional MRI the new phrenology?" Department of Neurology Grand Rounds, Medical College of Georgia, Augusta, GA

57. March, 2000 "Prefrontal cortical contributions to working memory: evidence from event-related fMRI studies", Frontal Lobes 2000, Rotman Research Institute, Toronto, CA.

58. March, 2000 "Functional neuroimaging and pharmacological studies of the frontal lobes", Merritt-Putnam Lectures, NYU Medical School, The Plaza Hotel, New York City, NY.

59. April, 2000 "Characteristics of the BOLD signal: Implications for imaging healthy elderly and patients with neurological disorders", Satellite symposium entitled "Issues and concerns in experimental design and analysis of fMRI data" at the Cognitive Neuroscience Society meeting, San Francisco, CA.

60. April, 2000 "Functional neuroimaging and pharmacological studies of the frontal lobes", Symposium entitled, "Images of Language and Cognition", American Society for Neurorehabilitation Meeting, San Diego, CA.

61. May, 2000 "Experimental Design", American Academy of Neurology, Course entitled "Functional MRI, San Diego, CA

62. May, 2000 "Frontal lobe syndromes", American Academy of Neurology, Dinner Seminar entitled "Behavioral Neurology for the Practicing Neurologist", Course Director and Speaker, San Diego, CA.

63. July, 2000 "Neuroimaging studies of self-regulation and decision making", 2000 Summer Institute in Cognitive Neuroscience, Dartmouth College, Hanover, NH.

64. September, 2000 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI" Neuroscience Seminar Series, UCSF, San Francisco, CA

65. October, 2000 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI", Symposium entitled "Mechanisms of persistent neural activity", The Banbury Center, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

66. October, 2000 Participant, Workshop on the Analysis of Functional Imaging Data, James S. McDonnell Foundation, St. Louis, MO.

67. Novermber, 2000 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI", Joint Seminars in Neuroscience, UCLA, Los Angeles, CA

68. December, 2000 "Concussion", Symposium entitled "Brain Injury", 5th Annual Rene Cailliet Interdisciplinary Conference on Law and Medicine, Honolulu, HI.

69. January, 2001 "Functional MRI", Symposium entitled: "Neuroimaging for the New Millennium", 24th Annual Meeting of the American Society of Neuroimaging, Las Vegas, NV.

70. January, 2001 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI", Joint Seminars in Neuroscience, UC San Diego, San Diego, CA

71. February, 2001 "Functional neuroimaging of executive and related functions", Symposium entitled: "Neuropsychiatry of Thought and Language", 12th Annual Meeting of the American Neuropsychiatric Association, Fort Meyers, FL.

72. February, 2001 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI", Cognitive Science Seminar, UC Irvine, Irvine, CA

73. April, 2001 "Executive Control", Course entitled, "Behavioral Neurology: Issues in Cognitive Neuroscience, American Academy of Neurology, Philadelphia, PA.

74. April, 2001 "Executive Function", Workshop entitled "From Memory to Desire: A Course in Cognitive Neuroscience for Psychiatrists, Neurologists, Psychologists and Neuroscientist, Department of Psychiatry, UCSF, San Francisco, CA.

75. April, 2001 Participant, NIMH and NINDS Neuroimaging Informatics Technology Initiative Workshop: Users of Informatic Tools for fMRI Research, Rockville, MD.

76. May, 2001 "Executive control", American Academy of Neurology, Course entitled "Behavioral Neurology: Current Issues in Cognitive Neuroscience", Course Director and Speaker, San Diego, CA.

77. May, 2001 "Executive control and working memory", Western Psychological Association, Symposium entitled "Executive Control Processes: Finding from Cognitive Neuroscience, Maui, Hawaii.

78. June, 2001 "Trials and tribulations in fMRI", 2001 Summer Institute in Cognitive Neuroscience, Dartmouth College, Hanover, NH.

79. August, 2001 "Neural mechanisms of age-related changes in working memory using fMRI, Invited Address, American Psychological Association, San Francisco.

80. September, 2001 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI", Inauguration of the Michigan Brain Imaging Center, University of Michigan, Ann Arbor, MI.

81. September, 2001 "The role of dopamine in cognition", Invited Lecture, UCSF Wheeler Center for Addiction Retreat, Marconi Center, Point Reyes, CA.

82. October, 2001 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI", CogLunch Talk, Stanford University, Palo Alto, CA

83. November, 2001 "Future directions in prefrontal cortex research and drug addiction", National Institute of Drug Abuse Symposium entitled "The Role of the Prefrontal Cortex in Drug Addiction", San Diego, CA.

84. November, 2001 "Age-related differences in the hemodynamic response and working memory", Society for Neuroscience symposium entitled, "Visualizing the Aging Brain: The Impact of Neuroimaging on Understanding of Cognitive Aging", San Diego, CA.

85. April, 2002 "Hemodynamic measures and cognitive aging", Symposium on Neuroscience of Aging and Cognition, San Francisco, CA.

86. May, 2002 "Executive control", American Academy of Neurology, Course entitled "Behavioral Neurology: Current Issues in Cognitive Neuroscience", Course Director and Speaker, San Diego, CA.

87. June, 2002 "Isolating the neural mechanisms of age-related changes in working memory using event-related functional MRI, Beeson Scholars In Aging Conference, Blaine, Washington.

88. June, 2002 "Isolating the neural mechanisms of age-related changes in working memory using event-related functional MRI, Taube Center, Columbia University, New York, NY.

89. July, 2002 "Functional Brain Imaging, Brain Injury Update 2002, Honolulu, HI.

90. October, 2002 "Towards understanding the role of the frontal lobes in cognition: evidence from functional MRI", Cognitive Psychology Colloquium, University of California, Santa Cruz, Santa Cruz, CA

91. November, 2002 "Towards understanding the role of the frontal lobes in executive control: evidence from functional MRI", Neuroscience Seminar, University of Pittsburgh Carnegie Mellon University, Center for the Neural Basis of Cognition, Pittsburgh, PA

92. January, 2003 "Relationship between BOLD-fMRI and Behavioral Performance", Workshop, Winter Brain Conference, Snowbird, Utah.

93. February. 2003 "Towards understanding the role of the frontal lobes in cognition", International Neuropsychological Society, Honolulu, Hawaii.

94. June, 2003 "Towards understanding the role of the frontal lobes in cognition", NIMH Workshop on Executive Control, New York City, NY

95. September, 2003 "Fronto-temporal interactions in memory", New York University, NY.

96. January, 2004 "Towards understanding the role of the frontal lobes in executive control", Psychology Colloquium, Stanford University, CA.

97. April, 2004 "Towards understanding the role of the prefrontal cortex in cognitive control", Center for Integrative and Cognitive Neuroscience Seminar Series, Vanderbilt University, TN.

98. April, 2004 "Neuroimaging studies of working memory, Symposium entitled "The influence of the work of Pat Goldman-Rakic on the discipline of cognitive neuroscience" at the Cognitive Neuroscience Annual Meeting, San Francisco, CA

99. June, 2004 "Neural mechanisms underlying cognitive control", Symposium entitled "Adaptive Representation and Control in Vision", Center for Visual Science, University of Rochester, NY

100. October, 2004 "Towards understanding the role of frontal lobes in cognition", Department of Neurology Grand Rounds, Massachusetts General Hospital, Boston, MA.

101. October, 2004 "Neural mechanisms underlying cognitive control", Keynote Speaker, Behavioral Neuroscience Seminar Series, Brigham and Women's Hospital, Boston, MA.

102. October, 2004 "The role of dopamine in cognition", Memory Disorders Research Society, New York, NY.

103. October, 2004 "Neural mechanisms underlying cognitive control", Neurology Grand Frontiers in Neuroscience Symposium, Department of Anatomy and Neurobiology, University of Kentucky School of Medicine, Lexington, KY.

104. January, 2005 "Can fMRI serve as a biomarker?" Merck Pharmaceuticals, West Point, PA.

105. March, 2005 "When bottom-up meets top-down: neural mechanism of cognitive control", Cognitive Neuroscience Colloquium, Beckman Institute for Advanced Science & Technology & Dept of Psychology University of Illinois, Urbana-Champaign, IL.

106. April, 2005 "Towards understanding the role of the frontal lobes in cognition", Reprogramming the Human Brain Symposium, University of Texas, Dallas.

107. April, 2005 "What is the role of dopamine in cognition?" Frontiers in Neurology and Neuroscience, Department of Neurology, University of California, San Francisco.

108. May, 2005 "Neural mechanisms underlying cognitive control" Ninth international conference on cognitive and neural systems, Boston University, Boston, MA.

109. November, 2005 "Towards understanding the role of the frontal lobes in cognition", 26th Annual Neurorehabilitation Conference on Traumatic Brain Injury, Stroke and Parkinson's Disease, Braintree Rehabilitation Hospital, Boston, MA.

110. November, 2005 "Towards understanding the role of the frontal lobes in cognition", Department of Neurology Grand Rounds, Boston University, Boston, MA.

111. November, 2005 "Towards understanding the role of the frontal lobes in cognition", Memory Disorders Research Center, Boston University, Boston, MA.

112. November, 2005 "Where bottom-up meets top-down: neural mechanisms of cognitive control", Pinckney Harmon lecture, Cajal Club, University of California, Davis.

113. January, 2006 "Where bottom-up meets top-down: neural mechanisms of cognitive control", Winter Brain Conference, Steamboat Springs, CO.

114. February, 2006 "Towards understanding the role of the frontal lobes in cognition", Frank Elliot Lecture in Cognitive Neuroscience, Department of Neurology and Institute for Neurological Sciences, University of Pennsylvania, Philadelphia, PA.

115. April, 2006 "Human Studies of Dopamine Function", Cognitive Neuroscience Society Annual Meeting Symposium, San Francisco, CA.

116. May, 2006 "Where bottom-up meets top-down: neural mechanisms of cognitive control", Prefrontal Cortex, Working Memory and Flexible Behavior, Kavii, Symposium in Memoriam of Patricia S Goldman-Rakic,Yale University, New Haven, CT.

117. August, 2006 "Neuroanatomy and neuropathology". University of Michigan FMRI Training Course, Ann Arbor, MI.

118. January, 2007 "Neural mechanisms of working memory". Symposium on Brain Network Dynamics, University of California, Berkeley, CA.

119. February, 2007 "What is the role of the frontal lobes in cognition?" International Neuropsychological Society Workshop, Portland, OR.

120. March, 2007 "Chemistry of the mind" Interdisciplinary Conference on Human Performance, San Diego, CA.

121. April, 2007 "Clinical Functional MRI", Keynote Speaker, Brain Imaging Center Day, Smith-Kettlewell Eye Research Institute, San Francisco, CA.

122. April, 2007 "Clinical Functional MRI", Keynote Speaker, Brain Imaging Center Day, Smith-Kettlewell Eye Research Institute, San Francisco, CA.

123. April, 2007 "From cognitive to neural models of working memory", Interdepartmental Neuroscience Seminar Series, Northwestern University, Evanston, Il.

124. August, 2007 "Neuroanatomy and neuropathology". University of Michigan FMRI Training Course, Ann Arbor, MI.

125. November, 2007. "Using functional MRI as a tool for guiding therapy and tracking recovery in TBI" 8th Annual Neuroscience of Brain Injury: Research Informing Medical Treatment and Legal Practice Conference, Napa, CA

126. September, 2008 "Where bottom-up meets top-down: neural mechanisms of cognitive control", Magnetic Resonance Research Center, Yale University, New Haven, CT

127. January, 2009 "What is the organization of prefrontal cortex for executive function?", Keynote Speaker, Conference on Executive Function, University of Colorado, Boulder.

128. January, 2008 "Where bottom-up meets top-down: neural mechanisms of cognitive control", Center of Excellence for Learning in Education, Science and Technology (CELEST) Science of Learning Seminar, Boston University, Boston, MA.

129. April, 2009 "Where bottom-up meets top-down: neural mechanisms of cognitive control", Brain & Cognition Program, Department of Psychology, Conference on Executive Function, University of Illinois, Urbana-Champaign.

130. April, 2009 "Dopaminergic modulation of flexible cognitive control in humans", Neuroscience Program, Department of Psychology, Conference on Executive Function, University of Illinois, Urbana-Champaign.

131. April, 2009 "Working Memory", Course entitled, "Behavioral Neurology: Contemporary Topics: Memory, American Academy of Neurology, Seattle, WA.

132. January, 2010 "Classroom applications of the research on working memory" The Brainy Bunch, Mind Matters, Inc. Napa, Ca.

133. January, 2010 "When bottom-up meets top-down: neural mechanisms of cognitive control", Mind, Brain, and Behavior Distinguished Lecture Series, Center for Cognitive Neuroscience, Duke University, Durham, NC.

134. March, 2010 "When bottom-up meets top-down: neural mechanisms of cognitive control", Neuroscience Research Program, The Neurosciences Institute, La Jolla, CA.

135. April, 2010 "When bottom-up meets top-down: neural mechanisms of cognitive control". Keynote speaker, 11th Annual Frontiers in Neuroscience Research Day, Neuroscience Institute, Medical University of South Carolina, Charleston, SC.

136. September, 2010 "When bottom-up meets top-down: neural mechanisms of cognitive control". Keynote speaker, UC Davis Neuroscience Retreat, Point Reyes, CA.

137. October, 2010 "Using resting state intrinsic connectivity networks to investigate memory function", Memory Disorders Research Society, Northwestern University, Evanston, IL.

138. November, 2010 "Remediating frontal lobe function: from bench to bedside", 11th Annual Neuroscience of Brain Injury: Research Informing Medical Treatment and Legal Practice Conference, Napa, CA

139. December, 2010 "Using resting state intrinsic connectivity networks to investigate human cognition", New Horizons in Human Brain Imaging: A Focus on Brain Networks and Connectivity, Pacific Rim Brain Connectivity Conference, Oahu, HI.

140. December, 2010 Panel Discussant, Futures Seminar, Department of Psychological and Brain Sciences, Cognitive Science, Krieger Mind/Brain Institute, and the Undergraduate Neuroscience Program, Johns Hopkins University, Baltimore, MD.

141. September, 2011 "Remediating frontal lobe dysfunction: from bench to bedside. Entertainment Software and Cognitive Neurotherapeutics Society Conference, San Francisco, CA.

142. October, 2011 "Understanding the human frontal lobes". Institue for Human Brain Potential, San Rafael, Burlingame & Palo Alto, CA.

143. November, 2011 "When bottom-up meets top-down: neural mechanisms of cognitive control", Neuroscience Seminar Series, University of California, San Diego.

144. April, 2012. "Modularity, networks and cognitive control." Neuroscience and Higher Brain Function: State of the Art: Celebrating the 50th Anniversary of the Neuroscience Research Program, The Neurosciences Institute, La Jolla, CA

145. June, 2012 "Modularity, brain networks, aging and cognitive control." Lost in Translation: Are Aging and Disease Separable?" Paul F. Glenn Symposium on the Biology of Aging, Santa Barbara, CA.

146. June, 2012. "Modularity, brain networks, aging and cognitive control." Lost in Translation: Are Aging and Disease Separable?" New Investigators in Alzheimer's Disease Grantee Meeting, American Federation for Aging Research, Santa Barbara, CA.

147. June, 2012 "Brain Networks, Modularity and Cognitive Control". Presidential Lecture, International Society for Behavioral Neuroscience, Half Moon Bay, CA.

148. September, 2012 "Functional MRI as a biomarker for tracking recovery of function following traumatic brain injury", 13th Annual University of California Neurotrauma Symposium, Rohnert Park, CA.

149. September, 2012 "Dopamine, frontostriatal circuits and working memory", Rewards, Habits and Learning Symposium, Columbia University, NY.

150. November, 2012. "The Science of the Aging Brain" Discover Cal. Los Angeles, CA.

151. November, 2012 "The impact of brain injury on the modular organization of the brain", 13th Annual Neuroscience of Brain Injury: Research Informing Medical Treatment and Legal Practice Conference, Napa, CA

152. December, 2012 "A blueprint for cognitive control: multiple neural mechanisms", Department of Neuroscience, Columbia University, NY.

153. February, 2013 "Remediating frontal lobe function: from bench to bedside", Neuroscience Institute, New York University School of Medicine, NY.

154. February, 2013 "A blueprint for cognitive control: multiple neural mechanisms", Department of Psychology, New York University, NY.

155. May, 2013 "Large-scale organization of the human brain: insights from functional MRI", Yale Magnetic Resonance Imaging Research Center Seminar Series, Beckman Institute, University of Illinois, Urbana-Champaign.

156. October, 2013 "Large-scale organization of the human brain: insights from functional MRI" ,Neuroscience Seminar, Beckman Institute, University of Illinois, Urbana-Champaign.

157. February, 2014 "A blueprint for cognitive control: multiple neural mechanisms", Joint Seminar Series in Neuroscience, UCLA, Los Angeles, CA.

158. January, 2015. "Your Brain on Drugs: Novel Clinical Implications", UC Berkeley Extension School, Berkeley, CA.

159. March, 2014 "Large-scale organization of the human brain: insights from functional MRI". Reprogramming the Human Brain Conference, Center for Brain Health, UT Dallas, Dallas, TX.

160. March, 2015 "Brain connectivity: Implications for improving brain health". United States Congressional Neuroscience Caucus, Washington, D.C.

161. June, 2015 "The Modular Brain", Yale International Conference on Attention and Memory: Conceptualizing Cognition, Yale University, New Haven, CT.

162. September, 2015 "The Modular Brain", Perspectives in Neuroscience Seminar Series, Center for Neuroscience, UC Davis, Davis, CA.

163. October, 2015 "The Modular, Yet Integrated, Brain", Neuroscience Seminar Series, Neuroscience Program, U. Iowa, Iowa City, IA.

164. November, 2015 "The Modular, Yet Integrated, Brain", SAGE Center for the Study of the Mind Distinguished Fellow Lecture series UC Santa Barbara, Santa Barbara, CA.

165. January, 2016 "The Modular Brain", Keynote Speaker, 11th Annual Neuroscience Graduate Program Student Symposium, University of Southern California, Los Angeles, CA.

166. February 2016 "The role of the large-scale organization of the brain in the support of memory", Winter Conference on Brain Plasticity, Maui, HI.

167. March, 2016. "The Modular Brain". Interdisciplinary Conference on Human Performance. Palm Springs, CA.

168. August, 2016 "The Modular Brain", Imaging Research Center, UT Austin, Austin, TX.

169. September 2016 "The Modular Brain", Center for Advanced Brain Imaging, Georgia Institute of Technology, Atlanta, GA.

170. September 2016 "Functional MRI and Cognition", Imaging and Biomarkers Workshop, International Psychogeriatrics Association Meeting, San Francisco, CA.

171. September 2016 "Using brain imaging to predict the response to cognitive training", University of Texas, Dallas, Center for Brain Health Reprogramming the Brain Symposium on Brain Training, Berkeley, CA.

172. October 2016 "The Modular Brain: Implications for Rehabilitation", American Congress of Rehabilitation Medicine Annual Meeting, Keynote Lecture, Chicago, IL.

173. October 2016 "How can we develop treatments for cognitive deficits?", American Congress of Rehabilitation Medicine Annual Meeting, Luncheon Speaker, Chicago, IL.

174. January 2017 "The Modular Brain", Brain Research Imaging Center, University of North Carolina, Chapel Hill, NC.

175. January 2017 "A neural blueprint for cognitive control", Department of Psychology, University of North Carolina, Chapel Hill, NC.

176. January, 2017 "A neural blueprint for cognitive control", Department of Psychology, University of Nebraska, Chapel Hill, NB.

177. April 2017 "The Modular Brain" , Imaging the The Mind and Brain: Roadmap to opportunities for UNMC, University of Nebraska Medical Center, Omaha, NE

178. November 2017 "Emerging brain imaging methods for assessing normal and abnormal cognitive function", Academy of Neurological Communication Disorders and Sciences Annual Meeting, Los Angeles, CA.

179. February, 2018 "The Modular Brain", Clinical Neuroscience Grand Rounds, Neurological Institute of Neurological Disorders and Stroke, Bethesda, MD.

180. February, 2018 "The Modular Brain", The 4th Annual Whistler Scientific Workshop on Brain Functional Organization, Connectivity and Behavior, Whistler, Canada.

181. May, 2018. "The Modular Brain". Invited Address. Association for Psychological Science. San Francisco, CA.

182. October, 2018. "The Modular Brain". Neuroscience Seminar Series. Santa Clara University, Santa Clara, CA.

183. March, 2019. "Where is the "top" in top-down executive control?". Invited Address. Institute for Mind and Brain Executive Function Conference, University of South Carolina, Columbia, SC.

184. March, 2019. "The Modular Brain". Keynote Speaker. The 6th Annual Mechanisms of Learning Forum, "Environmental and Developmental Potentiators of Learning, Emory University, Atlanta, GA.

185. June, 2019. "The Utility of Brain Modularity as an Imaging Biomarker". Brain Health and Performance Summit, Ohio State University, Columbus, OH.

186. July, 2019. "The Modular Brain". NeuroFutures Meeting, Oregon Health Sciences University, Portland, OR.

International

1. August, 1996 "Functional neuroimaging studies of working memory", Chair and symposium speaker, Theoretical and Experimental Neuropsychology Meeting, University of Quebec-Montreal, Montreal, Canada.

2. September, 1996 "The neural basis of working memory observed by functional MRI", Platform speaker, Tokyo Metropolitan Institute for Neuroscience, Tokyo, Japan.

3. November, 1997 "Functional MRI studies of prefrontal cortex and working memory", Rotman Research Institute, University of Toronto, Canada

4. May, 1998 "Functional neuroimaging studies of working memory", Banff Annual Seminar in Cognitive Science, Banff, Alberta, Canada.

5. July, 1998 "The neural correlates of component processes of working memory: evidence from neuropsychological and pharmacological studies", Attention & Performance XVIII Conference, Windsor, England.

6. December, 1998 "Dissecting working memory using functional MRI", Conference entitled, "Executive Control and Frontal Lobe: Current Issues", Hanse Institute for Advanced Study, Delmenhorst, Germany

7. April, 1999 "Experimental Design", American Academy of Neurology, Course entitled "Functional MRI, Toronto Canada

8. May, 1999 "Assessment of the cerebral cortex", American Academy of Neurology, Dinner Seminar entitled "Behavioral Neurology for the Practicing Neurologist", Course Director and Speaker, Toronto, Canada

9. March, 2000 "Prefrontal cortical contributions to working memory: evidence from event-related fMRI studies", Conference entitled "The Frontal Lobes" Rotman Research Institute, Toronto, CA.

10. July, 2000 "Executive Function", TuBBS 2000 – Tutorials in Behavioral and Brain Science – Cognitive Processing and its Functional Representation in the Brain, Max-Planck-Institute in Cognitive Neuroscience, Wörlitz, Germany.

11. January, 2001 "Functional MRI studies of cognition", Functional MRI Course, The Rudolf Magnus Institute for Neurosciences, University Medical Center, Utrecht, The Netherlands.

12. March, 2001 "Prefrontal cortical contributions to executive control", Invited Address, "12th World Congress of the International Society of Brain Electromagnetic Topography, Tochigi, Japan.

13. April, 2001 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI", Department of Neurology Grand Rounds, Kyoto School of Medicine, Kyoto, Japan

14. April, 2002 "Towards understanding the role of prefrontal cortex in working memory: evidence from functional MRI", Cognitive Neuroscience Seminar, Welcome Department of Cognitive Neurology, University College London, London, UK.

15. September, 2002 "Towards understanding the role of the frontal lobes in executive tcontrol: evidence from functional MRI", Keynote Lecture, International Conference on Cognitive Neuroscience (ICON-8), Porquelloes, France.

16. March, 2003 "Towards understanding the role of the frontal lobes in executive control: evidence from functional MRI", The 21st-Century Center of Excellence Program: Psychological Studies, The Third International Workshop, Executive Functions in Higher Cognitive Processes: Behavioral and Neural Correlates, Kyoto University, Kyoto, Japan

17. March, 2003 "The neural correlates of keeping information "in mind"", Conference entitled "Neuroimaging of Cognition" Rotman Research Institute, Toronto, CA.

18. August, 2004 "Neural mechanisms underlying executive control", The Second International Conference on Working Memory, Kyoto, Japan

19. July, 2005 "When bottom-up meets top-down: neural mechanisms of executive control", Plenary Talk, International Neuropsychological Society, Dublin, Ireland.

20. July, 2005 "Neural mechanisms underlying top-down control", Imaging the Mind, Tutorial Course in Cognitive Neuroscience, Mallorca, Spain.

21. October, 2005 "Where bottom-up meets top-down: neural mechanisms of cognitive control", Swammerdam Lecture, VU Medical Center, Amsterdam, The Netherlands

22. October, 2006 "From cognitive to neural models of working memory", Symposium entitled, Mental Processes in the Human Brain, The Royal Society, London, UK.

23. March, 2007 "Functional Reintegration of Frontal Neural Networks for Enhancing Recovery After Brain Injury", Department of Rehabilitation Medicine, Keynote Speaker, Annual Meeting of the Korean Society for Neurorehabilitation, Seoul, Korea.

24. March, 2007 " New directions for using functional MRI to study brain function", Gachon Neuroscience Research Institute, Gachon University Gil Medical Center, Seoul, Korea.

25. March, 2007 " Functional MRI network analyses of working memory", Department of Rehabilitation Medicine, Samsung Medical Center, Seoul, Korea.

26. May, 2007 "Human behavioral and functional MRI studies of dopamine", Dopamine 50 Years, Goteborg, Sweden.

27. September, 2007 "What is the role of dopamine in cognition?", Institute for Cognitive Neuroscience Seminar Series, University College London, London, UK.

28. September, 2007 "When bottom-up meets top-down: neural mechanisms of cognitive control", Center for Cognition and Neuroimaging Seminar Series, Brunel University West London, Uxbridge, UK..

29. September, 2007 "Pharmacology of Memory", Memory Disorders Research Society, Cambridge University, Cambridge, UK.

30. December, 2007 "A cognitive neuroscience approach towards developing cognitive interventions in healthy aging", Aging and Dementia Conference, Douglas Hospital, McGill University, Montreal, Canada.

31. June, 2008 "From cognitive to neural models of working memory", Satellite Symposium of the Organization for Human Brain Mapping entitled "Current Advances on Working Memory Systems and Functions", University of Melbourne, Australia.

32. June, 2008 "Where is the "top" in top-down control?" Keynote Speaker, Annual Meeting of the Organization for Human Brain Mapping, Melbourne, Australia.

33. March, 2008 "Age-related changes in the neural bases of memory and cognition". Keynote Speaker, 19th Annual Rotman Research Institute Conference entitled "Cognitive Aging: Research and Practice", Toronto, Canada.

34. October, 2009 "Cognitive Control, Aging, Dopamine and the Frontal Lobes" Center for Lifespan Psychology, Max-Planck Institute for Human Development, Berlin, Germany

35. March, 2010 "Remediating frontal lobe dysfunction: from bench to bedside" 20th Annual Rotman Research Institute Conference entitled "The Frontal Lobes", Toronto, Canada.

36. April, 2010 "The effect of focal lesions on cortical networks", Integrated Neuroscience Session, American Academy of Neurology Annual Meeting, Toronto, Canada.

37. June, 2010 "Meeting Highlights" Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain.

38. September, 2010 "How is working memory instantiated in the brain?", Keynote lecture, 5th European Working Memory Symposia, Civita Castellana, Italy.

39. September, 2011 "Where bottom up meets top-down: neural mechanisms underlying cognitive control", International Cognitive Neuroscience (ICON) Meeting, Mallorca, Spain.

40. December, 2011 "Cognitive and pharmacological therapies for cognitive control deficits", Current Issues in Cognitive Neuroscience Symposium, International Neuropsychological Society, Montreal, Canada.

41. July, 2012 "Revisiting dedifferentiation as a neural mechanism underlying cognitive aging", Gordon Research Conference on the Neurobiology of Cognition, Barga, Italy.

42. March, 2012 "Measuring intrinsic brain connectivity and modularity: implications for neurorehabilitation" 23rd Annual Rotman Research Institute Conference entitled "Brain Plasticity and Neurorehabilitation", Toronto, Canada.

43. July, 2014 "Revisiting the role of persistent neural activity during working memory". International Conference on Working Memory, Cambridge, England.

44. October, 2014 "The Modular Brain", Distinguished Lecture Series, Berlin Graduate School of Mind and Brain, Humboldt University, Berlin, Germany.

45. February, 2017 "A network view of working memory", Keynote Lecture, Visual Working Memory Conference, NYU Abu Dhabi, Abu Dhabi, United Arab Emirates.

46. October, 2017 "Where is the "top" in top-down executive control? Cognitive Neuroscience of Executive Functions International Meeting, Padua, Italy

47. October, 2017 "Where is the "top" in top-down control? Keynote Lecture, Cognitive Control Processes meeting, Amsterdam, Netherlands.

Media Presentations

1. September 14, 2012 Television interview on the topic of "Cognitive Neuroscience" on the show "Sane Society" hosted by Tom Palmer, http://www.youtube.com/watch?v=axgUQdG3rb0

2. March 2, 2018 Thrive Global website article entitled "The Real Social Network We Should Be Obsessed With? https://www.thriveglobal.com/stories/24769-the-real-social-network-we-should-be-obsessed-with-our-brain

3. May, 2019 The impact of focal lesions on brain organization. https://www.youtube.com/watch?v=zveUXG9MSzE&feature=youtu.be

Scientific Symposium and Courses Organized

May, 1997	Seminar entitled "Behavioral Neurology for the Practicing Neurologist", American Academy of Neurology, Boston, MA.
May, 1998	Seminar entitled "Behavioral Neurology for the Practicing Neurologist", American Academy of Neurology, Minneapolis, MN.
May, 1999	Seminar entitled "Behavioral Neurology for the Practicing Neurologist", American Academy of Neurology, Toronto, Canada.

May, 2000	Seminar entitled "Behavioral Neurology for the Practicing Neurologist", American Academy of Neurology, San Diego, CA.
April, 2000	Satellite symposium at the Cognitive Neuroscience Society meeting, "Issues and concerns in experimental design and analysis of fMRI data", San Francisco, CA.
April, 2001	Course entitled, "Behavioral Neurology: Issues in Cognitive Neuroscience, American Academy of Neurology, Philadelphia, PA.
April, 2002	Course entitled, "Behavioral Neurology: Issues in Cognitive Neuroscience, American Academy of Neurology, Denver, CO.
June, 2001	2001 Summer Institute in Cognitive Neuroscience, Course entitled "Imaging and Cognition", Dartmouth College, Hanover, NH.
April, 2003	Course entitled, "Behavioral Neurology: Issues in Cognitive Neuroscience, American Academy of Neurology, Honolulu, HI.
August, 2004	The Second International Conference on Working Memory, Kyoto, Japan.
October, 2004	Symposium entitled, "Neurochemical basis of memory systems", Memory Disorders Research Society Annual Meeting, NY, NY.
April, 2006	Symposium entitled, "Dopamine and Flexible Behavior", Cognitive Neuroscience Society Annual Meeting, San Francisco, CA
April, 2009	Symposium entitled, "Cognitive Neuroscience Highlights", Society for Behavioral and Cognitive Neurology Annual Meeting, Seattle, WA.
April, 2010	Symposium entitled, "Current Concepts in Cognitive Neuroscience: Implications for Neurological Disease: Integrated Neuroscience Series", American Academy of Neurology Annual Meeting, Toronto, Canada.
March, 2011	Symposium entitled, "Reprogramming the Human Brain: Cognitive Control: From Bench to Bedside, Co-sponsored by the UT Dallas Center for Brain Health and Helen Wills Neuroscience Institute, Berkeley, CA.
April, 2012	Symposium entitled, "Current Concepts in Cognitive Neuroscience: Non-Memory Systems in the Brain: Integrated Neuroscience Series", American Academy of Neurology Annual Meeting, New Orleans, LA.
March, 2013	Symposium entitled, "Reprogramming the Human Brain: The Cognitive Neuroscience of Decision-Making and Addiction, Co-sponsored by the UT Dallas Center for Brain Health and Helen Wills Neuroscience Institute, Berkeley, CA.
March, 2015	Symposium entitled, "Reprogramming the Human Brain: Emerging Brain Imaging Technologies", Co-sponsored by the UT Dallas Center for Brain Health and Helen Wills Neuroscience Institute, Berkeley, CA.
March, 2017	Symposium entitled, "Reprogramming the Human Brain: Brain Training", Co-sponsored by the UT Dallas Center for Brain Health and Helen Wills Neuroscience Institute, Berkeley, CA.

Bibliography

Books

D'Esposito M (Editor). Neurological Foundations of Cognitive Neuroscience, MIT Press, 2002.

Devinsky O & ***D'Esposito M***. The Neurology of Cognitive and Behavioral Disorders, Oxford University Press, 2003.

D'Esposito M (Editor). Functional MRI: Applications in Clinical Neurology and Psychiatry, Taylor & Francis, 2006.

Logie R, ***D'Esposito M*** (Editors), Working Memory in the Brain: Special Issue of Cortex, Masson, 2007.

Osaka N, Logie R, ***D'Esposito M*** (Editors), Working Memory: Behavioral and Neural Correlates, Oxford University Press, 2007

Jagust W, ***D'Esposito M*** (Editors), Imaging the Aging Brain, Oxford University Press, 2009.

D'Esposito M & Grafman J. The Frontal Lobes, Handbook of Neurology, Elsevier, in press.

Research publications

H-Index: **115**

Total Citations: **50,602**

1. ***D'Esposito M***, Albert M. The pharmacology of memory, In: Memory and Aging, Symposium of the National Foundation of Gerontology, Paris, France, 1991.

2. ***D'Esposito M***, McGlinchey-Berroth R, Alexander MP, Verfaellie M, Milberg, W: Dissociable cognitive and neural mechanisms of neglect. Neurology, 43:2638-2644, 1993.

3. Wolfe N, Linn RT, Babikian VL, Knoefel JE, ***D'Esposito, M***, Albert ML. Are multiple infarcts synergistic? Archives of Neurology, 51:211-215, 1994.

4. Grossman M, Armstrong C, Onishi K, Thompson H, Schaefer B, Robinson K, ***D'Esposito M***, Cohen J, Brennan D, Rostami A, Gonzalez-Scarano F, Kolson D, Constantinescu C, Silberberg, D. Patterns of cognitive impairment in relapsing-remitting and chronic-progressive multiple sclerosis, Neuropsychiatry, Neuropsychology & Behavioral Neurology, 7:194-210, 1994.

5. Fischer RS, Alexander MP, ***D'Esposito M***, Otto R. Neuropsychological and neuroanatomical correlates of confabulation. Journal of Experimental & Clinical Neuropsychology, 17:20-28, 1995.

6. ***D'Esposito M***, Alexander MP. Subcortical aphasia: distinct profiles following left putaminal hemorrhage, Neurology, 45:38-41, 1995.

7. ***D'Esposito M***, Alexander MP. The clinical profiles, recovery and rehabilitation of memory disorders, Neurorehabilitation, 5:141-159, 1995.

8. ***D'Esposito M***, Verfaellie M, Alexander MP, Katz DI. Amnesia following bilateral traumatic fornix transection, Neurology, 45:1546-1550,1995.

9. Grossman M, Peltzer L, ***D'Esposito M***, Alavi A, Reivich M. (1995) Recovery of function after focal cerebral insult: a PET activation study. In L. Cermak, Neuropsychological explorations of Memory and Cognition: Essays in Honor of Nelson Butters, New York, Plenum Press, pp. 201-214.

10. Grossman M, Robinson KM, Onishi K, Thompson H, Cohen J, ***D'Esposito M***. Sentence comprehension in multiple sclerosis. Acta Neurol Scand, 92:324-331, 1995.

11. ***D'Esposito M***. Profile of a neurology residency: what have we done? Archives of Neurology, 11:1123-1126, 1995.

12. ***D'Esposito M***, Detre AJ, Alsop DC, Shin RK, Atlas S, Grossman M. The neural basis of the central executive system of working memory, Nature, 378:279-281, 1995.

13. Biassou N, Grossman M, Onishi K, Mickanin J, Hughes E, Robinson K, ***D'Esposito M***. Phonological processing deficits in Alzheimer's disease. Neurology, 45:2165-2169, 1995.

14. ***D'Esposito M***, Grossman M, Onishi K, Thompson H, Robinson K, Armstrong C. Working memory impairments in multiple sclerosis: evidence from a dual-task paradigm, Neuropsychology, 10:1-6, 1996.

15. Grossman M, Galetta S, Ding XS, Morrison D, ***D'Esposito M***, Jaggi J, Alavi A, Reivich M. Clinical and positron emission tomography in visual apperceptive agnosia, Neuropsychiatry, Neuropsychology & Behavioral Neurology, 9:70-77, 1996.

16. Grossman M, Mickanin J, Onishi K, Hughes E, ***D'Esposito M***, Alavi A, Reivich, M. Progressive non-fluent aphasia: language, cognitive and PET measures contrasted with probable Alzheimer's disease, Journal of Cognitive Neuroscience, 8:135-154, 1996.

17. Atlas SW, Howard RW, Maldjian J, Alsop D, Detre JA, Listerud J, ***D'Esposito M***, Judy K, Zager E, Stecker M. Functional MRI of regional brain activity in patients with intracerebral gliomas: findings and implications for clinical management, Neurosurgery, 38:329-338, 1996.

18. Grossman M, Mickanin J, Onishi K, ***D'Esposito M***, Robinson K. Freehand drawing impairments in probable Alzheimer's disease, J International Neuropsych Soc, 2:226-235, 1996.

19. McGlinchey-Berroth R, Milberg WP, Verfaellie M, Grande L, ***D'Esposito M***, Alexander MP. Semantic processing and orthographic specificity in hemispatial neglect, Journal of Cognitive Neuroscience, 8:291-304, 1996.

20. Grossman M, Mickanin J, Onishi K, White-Devine T, Robinson KM, ***D'Esposito M***. Anomaly judgments of subject-predicate relations in Alzheimer's disease, Brain & Language, 54:216-232, 1996.

21. Maldjian J, Atlas SW, Howard RW, Alsop D, Detre JA, Listerud J, ***D'Esposito M***, Flamm E. Functional MRI of regional brain activity in patients with intracerebral arteriovenous malformations before surgical or endovascular therapy, Journal of Neurosurgery, 84:477-483, 1996.

22. Grossman M, ***D'Esposito M***, Hughes E, Onishi K, Biassou N, White-Devine T, Robinson KM. Language comprehension profiles in Alzheimer's disease, vascular dementia, and fronto-temporal degeneration, Neurology, 47:183-189, 1996.

23. Armstrong C, Onishi K, Robinson K, ***D'Esposito M***, Thompson H, Grossman M. Serial position and temporal cue effects in multiple sclerosis: two subtypes of defective memory mechanisms, Neuropsychologia, 9:853-862, 1996.

24. McGlinchey-Berroth R, Bullis DP, Milberg WP, Verfaellie M, Alexander M, ***D'Esposito M***. Assessment of neglect reveals dissociable behavioral but not neuroanatomical subtypes, J International Neuropsychological Society, 2:441-451, 1996.

25. Ween JE, Alexander MP, ***D'Esposito M***, Roberts M. Factors predictive of stroke outcome in a rehabilitation setting. Neurology,47:388-392, 1996.

26. White-Devine T, Robinson KM, Onishi K, Seidl A, Biassou N, ***D'Esposito M***, Grossman M. Verb confrontation naming and word-picture matching deficits in Alzheimer's disease, Neuropsychology, 10:495-503, 1996.

27. Robinson KM, White-Devine T, ***D'Esposito M***, Grossman M. Category-specific difficulty naming with verbs in Alzheimer's disease, Neurology, 47:178-82, 1996.

28. Alsop DC, Detre JA, ***D'Esposito M,*** Howard RS, Maldjian JA, Grossman M, Listerud J, Flamm ES, Judy K, Atlas S. Functional activation during an auditory comprehension task in patients with temporal lobe lesions, NeuroImage, 4:55-59, 1996.

29. Ween JE, Alexander MP, ***D'Esposito M,*** Roberts M. Incontinence after stroke in a rehabilitation setting: outcome associations and predictive factors. Neurology, 47:659-663, 1996.

30. Grande L, McGlinchey-Berroth R, Milberg W, ***D'Esposito M***. Facilitation of unattended semantic information in Alzheimer's disease: evidence from a selective attention task, Neuropsychology, 10:475-484,1996.

31. ***D'Esposito M,*** Grossman M. The physiological basis of executive functioning and working memory. The Neuroscientist, 2:345-352,1996.

32. Aguirre GK, Detre JA, Alsop DC, ***D'Esposito M***. The parahippocampus subserves topographical learning in man, Cerebral Cortex, 6:823-829, 1996.

33. Eyler-Zorilla LT, Aguirre GK, Zarahn E, Cannon TD, ***D'Esposito M***. Activation of prefrontal cortex during judgments of recency: a functional MRI study, NeuroReport, 7:2803-2806, 1996.

34. ***D'Esposito M,*** Alexander MP, Fischer R, McGlinchey-Berroth R, O'Connor M. Recovery of memory and executive function following anterior communicating aneurysm rupture, J International Neuropsych Soc, 2:565-570,1996.

35. Grossman M, Galetta S, ***D'Esposito M***. Object recognition difficulty in visual apperceptive agnosia, Brain & Cognition, 33:306-342, 1997.

36. ***D'Esposito M***, Detre J, Aguirre GK, Stallcup M, Alsop D, Tippett L, Farah MJ. A functional MRI study of mental image generation, Neuropsychologia, 35:725-730, 1997.

37. Kimberg DY, ***D'Esposito M,*** Farah MJ. (1997) The frontal lobes: cognitive neuropsychological aspects. In: Feinberg T, Farah MJ, Behavioral Neurology and Neuropsychology, New York, McGraw-Hill.

38. ***D'Esposito M***. (1997) Specific stroke syndromes. In: VM Mills, JW Cassidy, DI Katz, Neurologic Rehabilitation: A Guide to Diagnosis, Prognosis, and treatment planning, Cambridge, Blackwell Science, pp. 59-103.

39. Zarahn E, Aguirre GK, ***D'Esposito M***. Empirical analyses of BOLD fMRI statistics. I. Spatially unsmoothed data collected under null-hypothesis conditions, NeuroImage, 5:179-197, 1997.

40. Aguirre GK, Zarahn E, ***D'Esposito M***. Empirical analyses of BOLD fMRI statistics. II. Spatially smoothed data collected under null-hypothesis and experimental conditions, NeuroImage, 5:199-212, 1997.

41. Aguirre GK, ***D'Esposito M***. Environmental knowledge is subserved by separable dorsal/ventral neural areas, The Journal of Neuroscience, 17:2512-2518, 1997.

42. Grossman M, Payer F, Onishi K, White-Devine TW, Morrison D, ***D'Esposito M,*** Robinson K, Alavi A. Constraints on the cerebral basis for semantic processing from neuroimaging studies of Alzheimer's disease, Journal of Neurology, Neurosurgery, & Psychiatry, 63:152-158, 1997.

43. ***D'Esposito M,*** Zarahn E, Aguirre GK, Shin RK, Auerbach P, Alsop DC, Detre JA. The effect of pacing of experimental stimuli on observed functional MRI activity, NeuroImage, 6:113-121, 1997.

44. Zarahn E, Aguirre G, ***D'Esposito M***. A trial-based experimental design for functional MRI, NeuroImage, 6:122-138, 1997.

45. McDowell S, Whyte J, ***D'Esposito M***. Working memory impairments in traumatic brain injury: evidence from a dual-task paradigm, Neuropsychologia, 35:1341-1353, 1997.

46. Kimberg D, ***D'Esposito M***, Farah MJ. Effects of bromocriptine on human subjects depend on working memory capacity. NeuroReport, 8:3581-3585, 1997.

47. Armstrong C, Lewis T, ***D'Esposito M***, Freundlich B. Eosinophilia-myalgia syndrome: selective cognitive impairment, longitudinal effects, and neuroimaging findings, Journal of Neurology, Neurosurgery and Psychiatry, 63:633-641, 1997.

48. Grossman M, Mickanin J, Onishi K, Robinson K, ***D'Esposito M***. Lexical acquisition in probable Alzheimer's disease, Brain & Language, 60: 443-463, 1997.

49. Thompson-Schill SL, ***D'Esposito M***, Aguirre GK, Farah MJ. Role of left prefrontal cortex in retrieval of semantic knowledge: a re-evaluation, Proceedings of the National Academy of Sciences, 94:14792-14797, 1997.

50. Grossman M, Robinson K, Biassou N, White-Devine T, ***D'Esposito M***. Semantic memory in Alzheimer's disease: representativeness, ontologic category and material, Neuropsychology, 12:34-42, 1998.

51. Grossman M, Payer F, Onishi K, ***D'Esposito M***, Morrison D, Sadek A, Alavi A. Language comprehension and regional cerebral defects in frontotemporal degeneration and Alzheimer's diseas, Neurology, 50:157-163, 1998.

52. ***D'Esposito M***. (1998) Serotonin neurotoxicity: implications for cognitive neuroscience and neurology, Neurology, 51:1529-30.

53. Aguirre G, Zarahn E, ***D'Esposito M***. Neural components of topographical representation, Proceedings of the National Academy of Sciences, 95:839-846, 1998.

54. Aguirre GK, Zarahn E, ***D'Esposito M***. A critique of the use of the Kolmogorov-Smirnov (KS) for the analysis of BOLD fMRI data, Magnetic Resonance in Medicine, 39:500-505, 1998.

55. Detre JA, Macotta L, King D, Alsop DC, ***D'Esposito M***, Zarahn E, Aguirre GK, Glosser G, French JA. Functional MRI lateralization of memory in temporal lobe epilepsy, Neurology, 50:926-32, 1998.

56. ***D'Esposito M***, Aguirre G, Zarahn E, Ballard D, Shin R, Lease J. Functional MRI studies of spatial and non-spatial working memory, Cognitive Brain Research, 7:1-13, 1998.

57. McDowell S, Whyte J, ***D'Esposito M***,. Differential effects of a dopaminergic agonist on prefrontal function in head injury patients, Brain, 121:1155-1164, 1998.

58. Kimberg DY, ***D'Esposito M***, Farah MJ. Cognitive functions in the prefrontal cortex: working memory and executive control, Current Directions in Psychological Science6:185-192, 1998.

59. Aguirre G, Zarahn E, ***D'Esposito M***. A building sensitive area within medial fusiform gyrus: evidence and implications, Neuron, 21:373-383, 1998.

60. ***D'Esposito M***, Ballard D, Aguirre GK, Zarahn E. Human prefrontal cortex is not specific for working memory: an functional MRI study, NeuroImage, 8:274-282, 1998.

61. Aguirre G, Zarahn E, ***D'Esposito M***. The inferential impact of global signal covariates in functional neuroimaging analyses, NeuroImage, 8:302-306, 1998.

62. Aguirre G, Zarahn E, ***D'Esposito M***. The variability of human BOLD hemodynamic responses, NeuroImage, 8:360-369, 1998.

63. Nolde SF, Johnson MK, ***D'Esposito M***. Left prefrontal activation during episodic memory tests: and event-related fMRI study, NeuroReport, 26:3509-14, 1998.

64. Zarahn E, Aguirre G, ***D'Esposito M***. Temporal isolation of the neural correlates of spatial mnemonic processing with functional MRI, Cognitive Brain Research, 7:255-268, 1999.

65. Thompson-Schill SL, Swick D, Farah MJ, ***D'Esposito M***, Kan IP, Knight RT. Verb generation in patients with focal lesions: a neuropsychological test of neuroimaging findings, Proceedings of the National Academy of Sciences, 95:15855-60, 1998.

66. ***D'Esposito M***, Zarahn E, Aguirre G. Event-related fMRI: implications for cognitive psychology, Psychological Bulletin, 125:155-64, 1999.

67. Aguirre GK, ***D'Esposito M***. Experimental Design for Brain fMRI. In CTW. Moonen & PA Bandettini (Eds.), Functional MRI (pp. 369-380). Berlin: Springer Verlag, 1999.

68. ***D'Esposito M***. Cognitive aging: new answers to old questions, Current Biology, 9:R939-R941, 1999.

69. Aguirre GK, Singh R, ***D'Esposito M***. Stimulus inversion and the responses of face and object-sensitive cortical areas, NeuroReport, 10:189-94, 1999.

70. Thompson-Schill SL, Aguirre GK, ***D'Esposito M***, Farah MJ. A neural basis for category and modality specificity of semantic knowledge, Neuropsychologia, 37:671-676, 1999.

71. ***D'Esposito M***, Zarahn E, Aguirre GK, Rypma B. The effect of normal aging on the coupling of neural activity to the BOLD hemodynamic response, NeuroImage, 10:6-14, 1999.

72. Rypma B, ***D'Esposito M***. The roles of prefrontal brain regions in components of working memory: effects of memory load and individual differences, Proceedings of the National Academy of Sciences, 96:6558-6563, 1999.

73. ***D'Esposito M***, Postle BR, Jonides J, Smith EE. The neural substrate and temporal dynamics of inhibitory processes in working memory as revealed by event-related fMRI, Proceedings of the National Academy of Sciences, 96:7514-7519, 1999.

74. Thompson-Schill SL, ***D'Esposito M***, Kan IP. Effects of repetition and competition on prefrontal activity during word generation, Neuron, 23:513-526, 1999.

75. Postle BR, ***D'Esposito M***. Dissociation of human caudate nucleus activity in spatial and nonspatial working memory, Cognitive Brain Research, 8:107-115, 1999.

76. ***D'Esposito M,*** BR. The dependence of the mnemonic components of working memory on prefrontal cortex, Neuropsychologia, 37:1303-1315, 1999.

77. Aguirre GK, ***D'Esposito M***. Topographical disorientation: a synthesis and taxonomy, Brain, 122:1613-1628, 1999.

78. ***D'Esposito M***, Postle BR, Ballard D, Lease J. Maintenance versus manipulation of information held in working memory: an fMRI study, Brain & Cognition, 41:66-86, 1999.

79. Postle BR & ***D'Esposito M***. "What" – then – "Where" in visual working memory: an event-related fMRI study, Journal of Cognitive Neuroscience, 11:585-597, 1999.

80. Postle BR, Berger JS, ***D'Esposito M***. Functional neuroanatomical double dissociation of mnemonic and nonmnemonic processes contributing to working memory, Proceedings of the National Academy of Sciences, 96:12959-12964, 1999.

81. Zarahn E, Aguirre G, ***D'Esposito M***. Replication and further studies of neural mechanisms of spatial mnemonic processing in humans, Cognitive Brain Research, 9:1-17, 2000.

82. Postle BR, Zarahn E, ***D'Esposito M***. Using event-related fMRI to assess delay-period activity during performance of spatial and nonspatial working memory tasks, Brain Research Protocols, 5:57-66, 2000.

83. ***D'Esposito M***, Ballard D, Zarahn E, Aguirre GK. The role of prefrontal cortex in sensory memory and motor preparation: an event-related fMRI study, NeuroImage, 11:400-408, 2000.

84. Rypma B, ***D'Esposito M***. Isolating the neural mechanisms of age-related changes in human working memory, Nature Neuroscience, 3:509-515. 2000.

85. Postle BR, ***D'Esposito M***. Evaluating models of the topographical organization of working memory function in frontal cortex with event-related fMRI, Psychobiology, 28:132-135, 2000.

86. Raye CL, Johnson MK, Mitchell KJ, Nolde SF, ***D'Esposito M***. fMRI investigations of left and right PFC contributions to episodic remembering, Psychobiology, 28:197-206, 2000.

87. Mitchell KJ, Johnson MK, Raye CL, Mather M, ***D'Esposito M***. Aging and reflective processes of working memory: binding and test load deficits, Psychology & Aging, 15:527-554, 2000.

88. Kimberg DY, Aguirre GK, ***D'Esposito M.*** Neural activity associated with task switching, Cognitive Brain Research, 10:189-196, 2000.

89. Mitchell KJ, Johnson MK, Raye CL, Mather M, ***D'Esposito M***. fMRI evidence of age-related hippocampal dysfunction in feature binding in working memory, Cognitive Brain Research, 10:1197-206, 2000.

90. ***D'Esposito M***, Postle BR, Rypma B. Prefrontal cortical contributions to working memory: Evidence from event-related fMRI studies, Experimental Brain Research, 133:3-11, 2000.

91. ***D'Esposito M***. Functional neuroimaging studies of cognition, Seminars in Neurology, 20:487-498, 2000.

92. ***D'Esposito M***. Post-concussive syndrome. In: M. Stern, M. Brown. Penn Neurology 2000: Management of Common Neurological Problems, 2000.

93. ***D'Esposito M***. The neural basis of working memory: evidence from neuropsychological, pharmacological and neuroimaging studies. In: Connor L, Obler LK. Neurobehavior of Language and Cognition: Studies of Normal Aging and Brain Damage, Kluwer Academic Publishers, pp. 197-200, 2000.

94. Kimberg, DY, ***D'Esposito, M***. Frontal lobes II: Cognitive issues. In: Farah, Martha J. Martha J. Farah, Todd E. Feinberg, Ed. Patient-based approaches to cognitive neuroscience. pp. 317-326, The MIT Press: Cambridge, MA, 2000.

95. ***D'Esposito M,*** Weksler ME. Brain aging and memory: new findings help differentiate forgetfulness and dementia, Geriatrics, 55:55-62, 2000.

96. Ances BM, ***D'Esposito M***. Functional neuroimaging of recovery of function after stroke: implications for rehabilitation, Neurorehabilitation and Neural Repair, 14:171-179, 2000.

97. Ranganath C, Johnson MK, ***D'Esposito M***. Left anterior prefrontal activation increases with demands to recall specific perceptual information, Journal of Neuroscience, 20:RC108, 2000.

98. ***D'Esposito M***, Postle BR. Neural correlates of component processes of working memory: evidence from neuropsychological and pharmacological studies, Attention & Performance XVIII "Control of Cognitive Processes", (Eds. S. Monsell, J. Driver), 2000.

99. ***D'Esposito M***. Working Memory. In: R. Cabeza, A. Kingstone. Handbook of Functional Neuroimaging of Cognition, pp. 293-327, MIT Press, Cambridge, MA, 2001.

100. Rypma B, ***D'Esposito M***. Age-related changes in brain-behavior relationships: evidence from event-related functional MRI studies, In: U.Mayr, D.Spieler & R.Kliegl (Eds.). Ageing and executive control. Psychology Press, Hove, UK, 2001.

101. Johnson MK, Hayes SM, ***D'Esposito M***, Raye CL. Confabulation. In: L.S. Cermak (Ed). Handbook of Neuropsychology (2nd Edition, Vol. 2), Elsevier Science:Amsterdam, pp. 359-383, 2001.

102. Rypma B, ***D'Esposito M***. Age-related changes in brain-behavior relationships: evidence from event-related functional MRI studies, European Journal of Cognition, 13:235-256, 2001.

103. Postle BR, Berger JS, Taich AM, ***D'Esposito M***. Activity in human frontal cortex associated with spatial working memory and saccadic behavior, Journal of Cognitive Neuroscience, 12:2-14, 2001.

104. Kimberg DY, Aguirre GK, Lease J, ***D'Esposito M***. Cortical effects of bromocriptine, a d-2 dopamine receptor agonist, in human subjects, revealed by fMRI, Human Brain Mapping, 12:246-257, 2001.

105. Druzgal TJ, ***D'Esposito M.*** Activity in fusiform face area is modulated by working memory load, Cognitive Brain Research, 10:355-364, 2001.

106. Kounios J, Smith RW, Yang W, Bachman P, ***D'Esposito M***, Brain mechanisms of association formation in human memory revealed by spatiotemporal imaging, Neuron, 29:297-306, 2001

107. Postle BR, Berger JS, Goldstein JH, ***D'Esposito M***. Behavioral and neurophysiological correlates of episodic coding, proactive interference, and list length effects in a running span verbal working memory task, Cognitive, Affective and Behavioral Neuroscience, 10-21, 2001.

108. Ranganath C, ***D'Esposito M***. Medial temporal lobe activity associated with active maintenance of novel information, Neuron, 31:865-873, 2001.

109. Druzgal TJ, ***D'Esposito M***. A neural network reflecting decisions about faces, Neuron, 32:947-955, 2001.

110. ***D'Esposito M***. Dopamine in cerebral aging: the key to memory, Brochure. Servier International, France, 2002.

111. ***D'Esposito M***, Postle BR. The organization of working memory function in lateral prefrontal cortex: evidence from event-related functional MRI. In: DT Stuss & RT Knight (Eds.) Principles of Frontal Lobe Function. Oxford University Press, New York, 2002.

112. ***D'Esposito M,*** Postle BR. The neural basis of working memory storage, rehearsal and control processes: evidence from patient and functional MRI studies. In: L.S. Squire & D. Schacter (Eds.) Neuropsychology of Memory, Third Edition. Guilford, New York, 2002.

113. Polk TA, Stallcup M, Aguirre GK, Alsop DC, ***D'Esposito M***, Detre JA, Farah M. Neural specialization for letter recognition, Journal of Cognitive Neuroscience, 14:145-159, 2002.

114. Rypma B, ***D'Esposito M***. The influence of working memory demand and subject performance on prefrontal cortical activity, Journal of Cognitive Neuroscience, 14: 709-720, 2002

115. Schumacher EH, ***D'Esposito M***. Neural implementation of response selection in human cortex revealed by stimulus-response compatibility effects on brain activation, Human Brain Mapping, 17:193-201, 2002.

116. Thompson-Schill SL, Jonides J, Marshuetz, C, Smith EE, ***D'Esposito M***, Kan IP, Knight RT, Swick D. Effects of frontal lobe damage on interference effects in working memory, Cognitive, Affective and Behavioral Neuroscience, 2:109-120, 2002.

117. ***D'Esposito M***, Postle BR, Rypma B. The role of lateral prefrontal cortex in working memory: Evidence from event-related fMRI studies. In: Hirata, K., Koga, Y., Nagata, K. & Yamazaki, K. (Eds.), Recent Advances in Human Brain Mapping. New York: Elsevier, 2002.

118. Ranganath C, Lokendra S, ***D'Esposito, M***. A new view of the medial temporal lobes and the structure of memory. Technical Report. International Computer Science Institute, Berkeley, CA. 2002.

119. ***D'Esposito M.*** Executive Function and Frontal Systems. In: B. S. Fogel, R. B. Schiffer, & S. M. Rao (Eds.), Neuropsychiatry, Baltimore, MD: Williams and Wilkins, 2003.

120. Ranganath C, Johnson MK, ***D'Esposito M.*** Temporal dynamics of prefrontal activity during working and long-term memory, Neuropsychologia, 41:378-389, 2003.

121. Rypma B, ***D'Esposito M***. A subsequent memory effect in dorsolateral prefrontal cortex, Cognitive Brain Research, 16:162-166, 2003.

122. Kimberg DY, Lease J, ***D'Esposito M.*** Cognitive effects of the dopamine receptor agonist pergolide, Neuropsychologia, 41:1020-1027, 2003.

123. Curtis C, ***D'Esposito M.*** Activity in the human supplementary eye fields predicts later success suppressing reflexive saccades, Journal of Cognitive Neuroscience, 15:409-418, 2003.

124. Gazzaley A, ***D'Esposito M***. The contribution of functional brain imaging to our understanding of cognitive aging. Science's SAGE KE, http://sageke.sciencemag.org/cgi/content/full/sageke; 2003/4/pe2, 29 Jan 2003.

125. ***D'Esposito M***, Postle BR, Rypma, B. The role of the lateral prefrontal cortex in working memory: evidence from event-related fMRI studies. International Congress Series, 2003.

126. Druzgal TJ, ***D'Esposito M.*** Dissecting contributions of prefrontal cortex and fusiform face area to face working memory, Journal of Cognitive Neuroscience, 15:771-84, 2003.

127. Postle, BR, ***D'Esposito M***. Spatial working memory activity of the caudate nucleus is sensitive to frame of reference, Cognitive, Affective and Behavioral Neuroscience, 3:133-44, 2003.

128. Postle, BR, Druzgal, TJ, ***D'Esposito M***. Seeking the neural substrates of working memory storage, Cortex, 39:927-46, 2003.

129. Curtis C, ***D'Esposito M***. The meaning of persistent prefrontal activity during working memory delays: evidence from functional neuroimaging, Trends in Cognitive Science, 7:415-423, 2003

130. ***D'Esposito M***, Deouell L, Gazzaley A. Alterations in the BOLD fMRI signal with ageing and disease: A challenge for neuroimaging. Nature Reviews Neuroscience, 4:863-72, 2003.

131. Ranganath C, Yonelinas AP, Dy CJ, Tom S, ***D'Esposito M.*** Dissociable correlates for recollection and familiarity within the medial temporal lobes, Neuropsychologia, 42:2-13, 2004.

132. Schumacher EH, Elston PA, ***D'Esposito M***. Neural evidence for representation specific response selection, Journal of Cognitive Neuroscience, 15:1111-21, 2004

133. Sun FT, Miller LM, ***D'Esposito M.*** Measuring Inter-Regional Functional Connectivity Using Coherence and Partial Coherence Analyses of fMRI Data, NeuroImage, 21:647-58, 2004.

134. Handwerker DA, Ollinger JM, ***D'Esposito M***. Variation of BOLD hemodynamic responses across brain regions and subjects and their effects on statistical analyses, NeuroImage, 21:1639-51, 2004.

135. Curtis CC, Rao VY, ***D'Esposito M***. Maintenance of spatial and motor codes during oculomotor delayed response tasks, Journal of Neuroscience, 24:3944-52, 2004.

136. Ranganath C, Cohen MX, Dam C, ***D'Esposito M***. Inferior temporal, prefrontal, and hippocampal contributions to visual working memory maintenance and associative memory retrieval, Journal of Neuroscience, 24:3917-25, 2004

137. Landau SM, Schumacher EH, Garavan H, Druzgal TJ, ***D'Esposito M***, A functional MRI study of the influence of practice on component processes of working memory, NeuroImage, 22:211-21, 2004.

138. Ranganath C, Degutis J, ***D'Esposito M.*** Category-specific modulation of inferior temporal activity during working memory maintenance, Cognitive Brain Research, 20:37-35, 2004.

139. Postle, BR, Awh E, Jonides J, Smith E, ***D'Esposito M.*** The where and how of attention-based rehearsal in spatial working memory, Cognitive Brain Research, 20:194-205, 2004.

140. Yamaguchi S, Hale L, ***D'Esposito M***, Knight RT. Rapid prefrontal-hippocampal habituation to novel events, Journal of Neuroscience, 24:5356-63, 2004.

141. Rissman J, Gazzaley A, ***D'Esposito M***. Measuring functional connectivity during distinct stages of cognitive task, NeuroImage, 23:752-63, 2004.

142. Gazzaley A, Rissman J, ***D'Esposito M***. Functional connectivity during working memory maintenance, Cognitive, Affective and Behavioral Neuroscience, 4: 580-99, 2004.

143. Gazzaley A, ***D'Esposito M***. BOLD fMRI and Cognitive Aging. In: R. Cabezza, D. Park, L. Nyberg. Squire & D. Schacter (Eds.) Cognitive Neuroscience of Aging. Oxford University Press, New York, 2005.

144. Gazzaley A, Cooney J, McEvoy K, Knight RT, ***D'Esposito M.*** Top-down modulation of visual processing: converging fMRI and ERP evidence, Journal of Cognitive Neuroscience, 17:507-17, 2005.

145. Ranganath C, ***D'Esposito M.*** Directing the mind's eye: Prefrontal, inferior, and medial temporal mechanisms for visual working memory, Current Opinion in Neurobiology, 15:175-82, 2005.

146. Curtis CE, Sun FT, Miller LM, ***D'Esposito M***. Coherence between fMRI time-series distinguishes two spatial working memory networks, NeuroImage, 26:177-83, 2005.

147. Boettiger CA, ***D'Esposito M***, Frontal networks for learning and executing arbitrary stimulus-response associations, Journal of Neuroscience, 25:2723-32, 2005.

148. Gibbs SEB, ***D'Esposito M***. Individual capacity differences predict working memory performance and prefrontal activity following dopamine receptor stimulation, Cognitive, Affective and Behavioral Neuroscience, 5:211-221, 2005.

149. ***D'Esposito M***, Gazzaley A. Neurorehabilitation of Executive Function. In: M.E. Selzer, L. Cohen, F.H. Gage, S. Clarke, P.W. Duncan (Eds.) Textbook of Neural Repair and Rehabilitation, Cambridge University Press, Cambridge, U.K., pp. 475-487, 2005.

150. Curtis CE, Cole MW, Rao VY, ***D'Esposito M***. Canceling planned action: An fMRI study of countermanding saccades, Cerebral Cortex, 15: 1281-1289, 2005.

151. Rajah MN, ***D'Esposito M***. Region-specific changes in prefrontal function with age: Evidence from PET and fMRI studies of working and episodic memory, Brain, 128:1964-83, 2005.

152. Rypma B, Berger J, Genova HM, Rebbechi DM, ***D'Esposito M***. Dissociating age-related changes in cognitive strategy and neural efficiency using event-related fMRI, Cortex, 41:582-94, 2005

153. Sun FT, Miller LM, ***D'Esposito M.*** Measuring temporal dynamics of functional networks using phase spectrum of fMRI data. NeuroImage, 28:227-37, 2005.

154. Gazzaley A, Cooney J,Rissman J, ***D'Esposito M.*** Top-down suppression deficit underlies working memory impairment in normal aging, Nature Neuroscience, 8:1298-1300, 2005.

155. Ochsner KN, Beer JS, Robertson EA, Cooper J, Gabrieli JDE, Kihsltrom JF, ***D'Esposito M***. The neural correlates of direct and reflected self-knowledge, NeuroImage, 28:797-814, 2005.

156. Curtis CE, ***D'Esposito M.*** The effect of prefrontal lesions on working memory performance and theory, Cognitive, Affective and Behavioral Neuroscience, 4:528-39, 2005.

157. Schumacher EH, ***D'Esposito M***. Sustained involvement of a frontal-parietal network for response selection with practice of a spatial choice-reaction task, Neuropsychologia, 43:1444-55, 2005.

158. Miller LM, ***D'Esposito M***. Perceptual fusion and stimulus coincidence in the crossmodal integration of speech, Journal of Neuroscience, 25:5884-93, 2005.

159. Stelzel C, Schumacher EH , Schubert T, ***D'Esposito M***. The neural effect of stimulus-response modality compatibility on dual-task performance, Psychological Research, 21:1-12, 2005.

160. Miller BT, ***D'Esposito M***. Searching for the "top" in top-down control?" Neuron, 48:535-8, 2005.

161. Mitchell JM, Fields HL, ***D'Esposito M***, Boettiger CA. Impulsive Responding in Alcoholics, Alcoholism: Clinical and Experimental Research, 29:2158-69, 2005.

162. Yoon JH, Curtis CE, ***D'Esposito M***. Differential effects of distraction during working memory on delay-period activity in the prefrontal cortex and the visual association cortex, NeuroImage, 29:1117-26, 2005.

163. Miller LM, Sun FT, Curtis CE, ***D'Esposito M***. Functional interactions supporting inhibitory control during an oculomotor task, Human Brain Mapping, 26:119-27, 2005.

164. Postle BR, ***D'Esposito M***, Corkin S. Effects of verbal and nonverbal interference on spatial and object visual working memory, Memory & Cognition, 33, 203-212, 2005.

165. Gibbs SEB, ***D'Esposito M***. A functional MRI study of the effects of bromocriptine, a dopamine receptor agonist, on component processes of working memory, Psychopharmacology, 180:644-653, 2005.

166. Chen AJW, Abrams GM, ***D'Esposito M***. Functional re-integration of prefrontal neural networks for enhancing recovery after brain injury, Journal of Head Trauma Rehabilitation, 21:107-118, 2006.

167. Gibbs SEB, ***D'Esposito M***. A functional MRI study of the effects of pergolide, a dopamine receptor agonist, on component processes of working memory, Neuroscience, 139:359-71, 2006.

168. ***D'Esposito M***, Cooney JW, Gazzaley A, Gibbs SEB, Postle BR. Is the prefrontal cortex necessary for delay task performance? Evidence from lesion and fMRI data, Journal of the International Neuropsychological Society, 12:248-60, 2006.

169. Curtis CE, ***D'Esposito M***. Working Memory. In: R. Cabeza, A. Kingstone. Handbook of Functional Neuroimaging of Cognition, 2nd Edition, MIT Press, Cambridge, MA, 2006.

170. Boettiger CA, ***D'Esposito M***. Addiction. In: Feinstein, S. (Ed.) Encyclopedia of the Brain and Learning. Greenwood Publishing Group, 2006.

171. ***D'Esposito M,*** Chen, AJW. Neural mechanisms of prefrontal cortical function: Implications for cognitive rehabilitation. In: Aage R. Møller, Sandra Bond Chapman and Stephen G. Lomber. "Reprogramming the Human Brain," Progress in Brain Research, 2006.

172. Fiebach CJ, Jesse Rissman J, ***D'Esposito M***. Modulation of the inferotemporal cortex activation during verbal working memory maintenance, Neuron, 51:251-61, 2006.

173. Landau SM, ***D'Esposito M***, Sequence learning in pianists and non-pianists: an fMRI study of motor expertise, Cognitive, Affective & Behavioral Neuroscience, 6:246-59, 2006.

174. Curtis CE, ***D'Esposito M***. Selection and maintenance of saccade goals in the human frontal eye fields, Journal of Neurophysiology, 6:3923-7, 2006.

175. Gazzaley A, ***D'Esposito M.*** Neural Networks: An empirical neuroscience approach toward understanding cognition, Cortex, 42:1037-1040, 2006.

176. Millman KJ, ***D'Esposito M.*** Data and Analysis Management for Functional Magnetic Resonance Imaging Studies, Proceedings of the 2nd International Advanced Database Conference, M. Amin et al., Eds., US Education Service, June 2006, pp. 24–28.

177. ***D'Esposito M***. Functional MRI: Cognitive Neuroscience Applications. In: SH Faro & FB Mohamed (Eds.) Functional MRI. Springer-Verlag, Berlin, 468-495, 2006.

178. Gazzaley A, ***D'Esposito M***. Unifying the prefrontal Cortex: executive control, neural networks and top-down modulation. In: Miller B., Cummings JL. The Human Frontal Lobes, 2nd Edition, Guilford Publications, New York, NY, 187-206, 2006.

179. Cools R, Altamirano L, ***D'Esposito M.*** Reversal learning in Parkinson's disease depends on medication status and outcome valence, Neuropsycholgia, 44:1663-1673, 2006.

180. Cools R, Ivry R, ***D'Esposito M.*** The human striatum is necessary for responding to changes in stimulus relevance, Journal of Cognitive Neuroscience, 18:1973-1983, 2006.

181. Rypma B, Berger JS, Prabhakaran V, Bly BM, Kimberg DY, Biswal BB, ***D'Esposito M***. Neural correlates of cognitive efficiency. Neuroimage, 33:969-797, 2006.

182. Yoon JH, ***D'Esposito M***, Carter CS. Preserved function of the fusiform face area in schizophrenia as revealed by fMRI. Psychiatry Research: Neuroimaging, 148: 205-216, 2006.

183. Hooker CI, Germine LT, Knight RT, ***D'Esposito M***. Amygdala response to facial expressions reflects emotional learning, Journal of Neuroscience, 26: 8915-8922, 2006.

184. Beer JS, Knight RT, ***D'Esposito M***. Controlling the integration of emotion and cognition: The role of frontal cortex in distinguishing helpful from hurtful emotional information, Psychological Science, 17:448-453, 2006.

185. Handwerker DA, Gazzaley A, Inglis BA, ***D'Esposito M***. Reducing vascular variability of fMRI data across aging populations using a breath holding task, Human Brain Mapping, 28:846-859, 2006.

186. Gazzaley A, ***D'Esposito M.*** Top-down modulation and normal aging, Annals of the New York Academy of Sciences, 1097: 67-83, 2007.

187. Gazzaley, A, ***D'Esposito M***. Considerations for the application of BOLD fMRI to neurological impaired populations, In: Deluca J., Hillary F. Functional Neuroimaging of Neurological Disorders, Guilford Publications, New York, NY, 2007.

188. Gazzaley A, ***D'Esposito M.*** Top-down modulation in visual working memory. In: Osaka N, Logie R, ***D'Esposito M*** (Editors), Working Memory: Behavioral and Neural Correlates, Oxford University Press, 2007.

189. Bentin S, DeGutis J, ***D'Esposito M***, Robertson LC. Too Many Trees to See the Forest: Performance, Event-related Potential, and Functional Magnetic Resonance Imaging Manifestations of Integrative Congenital Prosopagnosia, Journal of Cognitive Neuroscience, 19:132-146, 2007.

190. Sun FT, Miller LM, Rao AA, ***D'Esposito M***. Functional connectivity of cortical networks involved in bimanual motor sequence learning, Cerebral Cortex, 17:1227-34, 2007.

191. Hester R, ***D'Esposito M***, Cole M, Garavan H. Neural mechanisms for response selection: comparing selection of items and responses from working memory, NeuroImage, 4:446-454, 2007.

192. Mitchell JM, Tavares VC, Fields HL, ***D'Esposito M,*** Boettiger CA. Endogenous Opioid Blockade and Impulsive Responding in Alcoholics and Healthy Controls, Neuropsychopharmacology, 32: 439-49, 2007.

193. Fuhrmann-Alpert G, Sun FT, Handwerker D, ***D'Esposito M***, Knight, RT. Spatio-temporal information analysis of event-related BOLD responses, NeuroImage, 34:1545-1561, 2007.

194. Schumacher EH, Cole MW, ***D'Esposito, M.*** Selection and maintenance of stimulus-response rules during preparation and performance of a spatial choice-reaction task, Brain Research, 1136:77-87, 2007.

195. Krawczyk DC, Gazzaley A, ***D'Esposito M***. Reward modulation of prefrontal and visual association cortex during an incentive working memory task, Brain Research,1141:168-177, 2007.

196. ***D'Esposito M***. From cognitive to neural models of working memory, Phil. Trans. Biol. Sc., 362: 761-72, 2007.

197. Cools R, Sheridan M, Jacobs EC, ***D'Esposito M***. Impulsive personality predicts dopamine-dependent changes in fronto-striatal activity during component processes of working memory, Journal of Neuroscience, 27:5506-14, 2007.

198. Johnson MR, Mitchell KJ, Raye CL, ***D'Esposito M***, Johnson MK. Perceptual vs. reflective processing of visual stimuli in posterior regions of cortex, NeuroImage, 37:290-9, 2007.

199. Gazzaley A, Sheridan MA, Cooney JW, ***D'Esposito M***, Age-related deficits in component processes of working memory, Neuropsychology, 21:532-9, 2007.

200. Badre D, ***D'Esposito M***. FMRI evidence for a hierarchical organization of the prefrontal cortex, Journal of Cognitive Neuroscience, 19:2082-2099, 2007.

201. Boettiger CA, Mitchell JM, Tavares VC, Robertson M, Joslyn G, ***D'Esposito M***, Fields HL. Immediate reward bias in humans: fronto-parietal networks and a role for the COMT $158^{Val/Val}$ genotype, Journal of Neuroscience, 27:14383-91, 2007.

202. Klein HE, ***D'Esposito M***. Neurocognitive inefficacy of the strategy process, Annals of the New York Academy of Science, 1118: 163–185, 2007.

203. Degutis J, ***D'Esposito M***. Distinct mechanisms in visual category learning, Cognitive, Affective & Behavioral Neuroscience, 7:251-259, 2007.

204. Gazzaley A,Rissman J, Cooney J, Rutman A, Seibert T, Clapp W, ***D'Esposito M.*** Functional interactions between prefrontal and visual association cortex contribute to top-down modulation of visual processing, Cerebral Cortex, 17:125-135, 2007.

205. Sheridan M, Hinshaw S, ***D'Esposito M***. Efficiency of the prefrontal cortex during working memory in attention deficit hyperactivity disorder, Journal of Child and Adolescent Psychiatry, 46:1357-66, 2007.

206. Deouell LY, Heller A, Malach R, ***D'Esposito M***, Knight RT. Cerebral responses to unattended change in spatial location of sounds, Neuron, 55:985-96, 2007.

207. Landau SM, Garavan H, Schumacher EH, ***D'Esposito M***. Region specificity and practice: dynamic changes in object and spatial working memory, Brain Research, 1180:78-89, 2007.

208. DeGutis J, Bentin S, Robertson L, and ***D'Esposito M***. Functional plasticity in ventral temporal cortex following configural training with faces in a congenital prosopagnosic, Journal of Cognitive Neuroscience, 11:1790-1802, 2007.

209. ***D'Esposito M.*** Attention, please! How your brain manages its need to heed. In *Mind Matters*, the *Scientific American* blog on science and mind. http://www.scientificamerican.com/blog/post.cfm?id=attention-how-your-brain-manages-it , Oct 16, 2007.

210. ***D'Esposito M.*** Working Memory. In: M. Aminoff, F. Boller, R. Swaab, Handbook of Clinical Neurology, 3rd Ed., Neuropsychology and Behavioral Neurology (B. Miller, G. Goldenberg, series editors), Elsevier, U.K., 88:237-247, 2008.

211. Buchsbaum BR. ***D'Esposito M***. Short term and working memory systems. In: J.H Byrne, Editor. Learning and Memory: A Comprehensive Reference, Elsevier, Oxford, U.K., Vol 3:237-260, 2008.

212. Cools R, Gibbs SE, Myiakawa A, Jagust W, ***D'Esposito M***. Working memory capacity predicts dopamine synthesis in the human striatum, Journal of Neuroscience, 28:1208-1212, 2008

213. Miller BT, Verstynen T, Johnson MK, ***D'Esposito M***. Prefrontal and parietal contributions to refreshing: an rTMS Study, NeuroImage, 39:436-40, 2008.

214. Buchsbaum BR, ***D'Esposito M***. The search for the phonological store: from loop to convolution, Journal of Cognitive Neuroscience, 20:762-768, 2008.

215. Rajah MN, Ames BJ, ***D'Esposito M***. Dissociating prefrontal contributions to domain-general executive control processes during recency retrieval, Neuropsychologia, 7:1088-1103, 2008.

216. Rissman J, Gazzaley A, ***D'Esposito M***. Dynamic adjustments in frontal, hippocampal, and inferior temporal interactions with increasing visual working memory load, Cerebral Cortex, 18:1618-1629, 2008.

217. Yoon JH, Hoffman JN, ***D'Esposito M***, Carter CS. Segregation of function in the lateral prefrontal cortex during visual object working memory, Brain Research, 1184:217-225, 2008.

218. Hooker CI, Verosky SC, Miyakawa A, Knight RT, ***D'Esposito M***. The influence of personality on neural activity during observational fear and reward learning, Neuropsychologia, 46:2709-2724, 2008.

219. Samenez-Larking GR, ***D'Esposito M.*** Group comparisons: imaging the aging brain, Social, Cognitive and Affective Neuroscience, 3:290-297, 2008.

220. Gazzaley A, Clapp W, Kelley J, McEvoy K, Knight RT, ***D'Esposito M.*** Age-related top-down suppression deficit in the early stages of cortical visual memory processing, Proceeding of the National Academy of Sciences, 105:13122-13126, 2008.

221. Miller BT, Deouell LY, Dam C, Knight RT, ***D'Esposito M.*** Spatio-Temporal Dynamics of Neural Mechanisms Underlying Component Operations in Working Memory, Brain Research, 1206:61-75, 2008.

222. Hooker CI, Verosky SC, Germine LT, Knight RT, **D'Esposito M**. Mentalizing about emotion and its relationship to empathy. Social, Cognitive and Affective Neuroscience. 3:204-17, 2008

223. Curtis C, ***D'Esposito M.*** The inhibition of unwanted actions. In: E Morsella, J Bargh, P Gollwitzer, Oxford Handbook of Action, Oxford University Press, UK, 2008.

224. Nagel IE, Schumacher EH , Goebel R, ***D'Esposito M***. Functional MRI Investigations of verbal selection mechanisms in lateral prefrontal cortex, NeuroImage, 43:801-7,2008.

225. Bartrés-Faz D, Serra-Grabulosa JM, Sun FT, Solé-Padullés C, Molinuevo JL, Rami L, Bosch B, Mercader JM, Bargalló N, Moya A, Junqué C, ***D'Esposito M***. Functional connectivity of the hippocampus in elders with memory dysfunction carrying the APOE ε4 allele, Neurobiology of Aging, 29:1644-53, 2008.

226. Silver MA, Shenhav A, ***D'Esposito M***. Cholinergic enhancement reduces spatial spread of visual responses in human early visual cortex, Neuron, 60:904-14, 2008.

227. ***D'Esposito M.*** From cognitive to neural models of working memory, In: J.Driver, P Haggard, T Shallice, Editors. Mental Processes in the Human Brain, Oxford University Press, Oxford, U.K., 2008.

228. Cools R, Frank MJ, Gibbs SE, Miyakawa A, Jagust W, ***D'Esposito M.*** Striatal dopamine predicts outcome-specific learning and its sensitivity to dopaminergic drug, Journal of Neuroscience, 29:1538-43, 2009.

229. Badre D, Hoffman J, Cooney JW, ***D'Esposito M.*** Hierarchical cognitive control deficits following damage to the human frontal lobe, Nature Neuroscience, 12:515-22, 2009.

230. Rissman J, Gazzaley A, ***D'Esposito M***. The effect of non-visual working memory load on top-down modulation of visual processing, Neuropsychologia, 47:1637-46, 2009.

231. Buchsbaum BR, ***D'Esposito M***. Repetition suppression and reactivation in auditory-verbal short-term memory, Cerebral Cortex, 19:1474-85, 2009.

232. Kayser AS, Sun FT, ***D'Esposito M***, A comparison of Granger causality with other multivariate techniques in fMRI analysis of the motor system, Human Brain Mapping, 30:3475-94, 2009.

233. Badre D, ***D'Esposito M.*** Is the rostro-caudal axis of the frontal lobe hierarchical? Nature Reviews Neuroscience, 10:659-69, 2009.

234. ***D'Esposito M***, Kayser A, Chen A. Functional MRI: Applications in Cognitive Neuroscience. In: M. Filippi (Ed.) Functional MRI Techniques and Protocols. Humana Press, 2009.

235. Buchsbaum BR, ***D'Esposito M***. Is there anything special about working memory? In: F Rösler, C Ranganath, B Röder, RH Kluwe (Eds.) Neuroimaging and Psychological Theories of Human Memory, Oxford University Press, Oxford, U.K., 2009.

236. Cools R, ***D'Esposito M.*** Dopaminergic modulation of flexible cognitive control in humans. Björklund A., Dunnett S.B, Iversen L.L., Iversen S.D. Dopamine Handbook, Oxford University Press, Oxford, 2009.

237. Rajah MN, Bastianetto S, Bromley-Brits K, Cools R, ***D'Esposito M***, Grady CL, Poirier J, Quirion R, Raz N, Rogaeva E, Song EW, Pruessner J. Biological changes associated with healthy versus pathological aging: a symposium review, Aging Research Reviews, 8:140-6, 2009.

238. Boettiger CA, Kelley EA, Mitchell JM, ***D'Esposito M***, Fields HL. Now or Later? An fMRI study of the effects of endogenous opioid blockade on a decision-making network, Pharmacology, Biochemistry and Behavior, 93:291-9, 2009.

239. Lauritzen TZ, ***D'Esposito M,*** Heeger DJ, Silver MA. Top-down flow of visual spatial attention signals from parietal to occipital cortex, Journal of Vision, 9:1-4, 2009.

240. Degutis, J, ***D'Esposito, M***. Networks supporting naïve and expert visual categorization, Frontiers in Neuroscience, 3:44, 2009.

241. Van Boven RW, Harrington GS, Hackney DB, Ebel A, Gauger G, Bremmer JD, ***D'Esposito M***, Detre JA, Haacke EM, Jack CR, Jagust WJ, Le Bihan D, Mathis CA, Mueller S, Mukherjee P, Schuff N, Chen, AJW, Weiner M. Advances in neuroimaging of traumatic brain injury and posttraumatic stress disorder, Journal of Rehabilitation Research and Development, 46:717-57, 2009.

242. Chen AJ, ***D'Esposito, M***. Traumatic brain injury: from bench to bedside to society, Neuron, 66:11-14, 2010.

243. Cools R, Miyakawa A, Sheridan M, ***D'Esposito M***. Enhanced frontal function in Parkinson's disease, Brain, 133:225-33, 2010.

244. Hooker CI, Verosky SC, Germine LT, Knight RT, ***D'Esposito M***. Neural activity during social perception correlates with self-reported empathy, Brain Research, 1308:100-113, 2010.

245. ***D'Esposito M.*** Why methods matter in the study of the biological basis of the mind: a behavioral neurologist's perspective. Reuter-Lorenz P.A., Baynes K, Mangun G.R., Phelps E.A. The Cognitive Neursocience of Mind: A Tribute to Michael Gazzaniga, MIT Press, Cambridge, MA, 2010.

246. Badre D, Kayser AS, Buchsbaum B, Erickson D, ***D'Esposito M***. Frontal cortex and the discovery of abstract action rules, Neuron, 66:315-326, 2010.

247. Kayser AS, Buchsbaum B, Erickson D, ***D'Esposito M***. The functional anatomy of a perceptual decision in the human brain, Journal of Neurophysiology, 103:1179-94, 2010.

248. Kayser AS, Erickson DT, Buchsbaum BR, ***D'Esposito M***. Neural representations of relevant and irrelevant features in perceptual decision making, Journal of Neuroscience, 30:15778-89, 2010.

249. Finn AS, Sheridan MA, Hinshaw S, Hudson-Kam CL, ***D'Esposito M.*** Longitudinal evidence for functional specialization of the neural circuit supporting working memory in the human brain, Journal of Neuroscience, 30:11062-7, 2010.

250. Sheridan MA, Hinshaw S, ***D'Esposito M***. Stimulant medication and prefrontal functional connectivity during working memory in ADHD: a preliminary report, Journal of Attention Disorders, 14:69-78, 2010.

251. Nomura EM, Gratton C, Visser R, Kayser A, ***D'Esposito M***. Double dissociation of two cognitive control networks in patients with focal brain lesions, Proceedings of the National Academy of Sciences, 107:12017-22, 2010.

252. Miller BT, Fegen D, Vytlacil J, Pradhan S, ***D'Esposito M.*** The prefrontal cortex modulates category selectivity in human extrastriate cortex, Journal of Cognitive Neuroscience, 23:1-10, 2011.

253. ***D'Esposito M,*** Badre D. Combining the insights derived from lesion and fMRI studies to understand the function of prefrontal cortex. In: Levine, B. Craik, F.I.M. Mind and the Frontal Lobes: Cognition, Behavior, and Brain Imaging. Oxford University Press, New York, 2011.

254. Turner GR, ***D'Esposito, M***. Functional Neuroimaging of Aging. In: Knoefel J, Albert ML. Clinical Neurology of Aging, 3rd Edition, Oxford University Press, Oxford, CA, 2011.

255. Cools R, ***D'Esposito M.*** Inverted-U shaped dopamine actions on human working memory and cognitive control, Biological Psychiatry, 69(12):e113-125, 2011.

256. Kuo BC, Yeh YY, Chen AJW, ***D'Esposito M.*** Functional connectivity during top-down modulation of visual short term memory representations, Neuropsychologia, 49(6):1589-1596, 2011.

257. Willems RM, Labruna L, ***D'Esposito M***, Ivry R, Casasanto D. A functional role for the motor system in language understanding: evidence from theta burst TMS, Psychological Science, 22(7): 849-854, 2011.

258. Jacobs E, ***D'Esposito M.*** Estrogen shapes dopamine-dependent cognitive processes: implications for women's health, Journal of Neuroscience, 31(14):5286-5293, 2011.

259. Chen AJW, Novakovic-Agopian T, Nycum TJ, Song S, Turner G, Rome S, Abrams G, ***D'Esposito M***. Training of goal-directed attention regulation enhances control over neural processing for individuals with brain injury, Brain, 134(5):1541-1554, 2011.

260. Wallace DL, Vytlacil JJ, Nomura EM, Gibbs SEB, ***D'Esposito M.*** The dopamine agonist bromocriptine differentially affects fronto-striatal functional connectivity during working memory, Frontiers in Human Neuroscience, 5:32, 2011.

261. Buchsbaum B, ***D'Esposito M***. Recency effects in the inferior parietal lobe during verbal recognition memory, Frontiers in Human Neuroscience, 5:59, 2011.

262. Altamirano LJ, Fields HL, ***D'Esposito M***, Boettiger CA. Interaction between family history of alcoholism and locus of control in the opioid regulation of impulsive responding under the influence of alcohol, Alcoholism:Clinical and Experimental Research,35:1905-14, 2011.

263. ***D'Esposito M***, Kayser A, Chen A. Functional MRI: Cognitive Neuroscience Applications. In: SH Faro, FB Mohamed, M Law, JT Ulmer (Eds.) Functional Neuroradiology: Principles and Clinical Applications. Springer-Verlag, Berlin, 2011.

264. Novakovic-Agopian T, Chen AJW, Rome S, Abrams G, Castelli H, Rossi A, McKim R, Hills N, ***D'Esposito M***. Rehabilitation of executive functioning with training in attention regulation applied to individually defined goals: a pilot study bridging theory, assessment and treatment, Journal of Head Trauma Rehabilitation, 26:325-38, 2011.

265. ***D'Esposito M***., Gazzaley A. Can age-associated memory decline be treated? New England Journal of Medicine, 365:1346-7, 2011.

266. Buchsbaum BR, Baldo J, Okada K, Berman KF, Dronkers N, ***D'Esposito M***, Hickok G. Conduction aphasia, sensory-motor integration, and phonological short-term memory - an aggregate analysis of lesion and fMRI data, Brain & Language, 119:119-28, 2011.

267. Rokem A, Landau A, Prinzmetal W, Wallace D, Silver MA, ***D'Esposito M***. Modulation of inhibition of return by the dopamine D2 receptor agonist bromocriptine depends on individual DAT1 genotype, Cerebral Cortex, 22:1133-38, 2012.

268. Handwerker DA, Gonzalez-Castillo J, ***D'Esposito,*** Bandettini PA. The continuing challenge of understanding and modeling hemodynamic variation in fMRI, Neuroimage, 62:1017-23, 2012.

269. Miller BT, ***D'Esposito M.*** Spatial and temporal dynamics of cortical networks engaged in memory encoding and retrieval, Frontiers in Human Neuroscience, 6:109, 2012.

270. Chen AJW, Britton M, Turner G, Vytlacil J, Thompson TW, ***D'Esposito M.*** Goal-directed attention alters the tuning of object-based representations in extrastriate cortex, Frontiers in Human Neuroscience, 6:187, 2012.

271. Gratton C, Nomura E, Perez F, ***D'Esposito M.*** Focal brain lesions cause widespread disruption of the modular organization of the brain, Journal of Cognitive Neuroscience, 24(6):1275-85, 2012.

272. Sheridan MA, Sarsour K, Jutte D, ***D'Esposito M***, Boyce WT. The impact of social disparity on prefrontal function in childhood, PLOS One, 7(4):e35744, 2012.

273. Sadaghiani S, Scheeringa R, Lehonge K, Morillon B, Giraud A-L, ***D'Esposito M***, Kleinschmidt A. Alpha-band phase synchrony is related to activity in the fronto-parietal adaptive control network, Journal of Neuroscience, 32:14305-14310, 2012.

274. Lee TG, **D'Esposito M**. The dynamic nature of top-down signals originating from prefrontal cortex: A combined fMRI-TMS study, Journal of Neuroscience, 32:15458-66, 2012.

275. Voytek B, ***D'Esposito M,*** Crone N, Knight RT. A method for event-related phase/amplitude coupling, Neuroimage, 64C:4-16-424, 2012.

276. Kayser AS, ***D'Esposito M***. Neurotechnologies. In: V.S. Ramachandran, Editor. Encyclopedia of Human Behavior, 2nd Edition, Elsevier, Oxford, UK, 2012.

277. Wittmann B, ***D'Esposito M***. Functional Magnetic Resonance Imaging. In: H. Cooper, Editor, APA Handbook of Research Methods in Psychology, American Psychological Association, Washington, DC, 2012.

278. Krawczyk DC, ***D'Esposito M***. Modulation of working memory function by motivation through loss aversion, Human Brain Mapping, 34:762-74, 2013.

279. Kayser AS, ***D'Esposito M.*** Abstract rule learning: The effects of lesions in frontal cortex, Cerebral Cortex, 23:230-40, 2013.

280. ***D'Esposito M***, Chen AJW. Remediating frontal lobe dysfunction: from bench to bedside. In: DT Stuss & RT Knight (Eds.) The Oxford Handbook of Frontal Lobe Functions. Oxford University Press, New York, 2013.

281. Buchsbaum BR, ***D'Esposito M***. Working Memory. In: K. Ochsner, S. Kosslyn, Editors. Oxford Handbook of Cognitive Neuroscience, Oxford University Press, Oxford, U.K., 2013.

282. Blumenfeld RS, Nomura EM, Gratton C, ***D'Esposito M.*** Lateral prefrontal cortex is organized into parallel dorsal and ventral streams along the rostral-caudal axis, Cerebral Cortex, 23:2457-2466, 2013.

283. Yoon JH, Minzenberg MJ, Raouf S, ***D'Esposito M*** , Carter CS. Impaired prefrontostriatonigral functional connectivity and substantia nigra hyperactivity in schizophrenia, Biological Psychiatry, 74:122-129, 2013.

284. Chiong W, Wilson SM, ***D'Esposito M***, Zhou J, Grossman SN, Poorzand P, Miller BL, Rankin KP. Decreased default mode network activation during abnormally utilitarian moral judgment in frontotemporal dementia, Brain 136:1929-1941, 2013.

285. Gratton C, Sreenivasan KK, Silver MA, ***D'Esposito M.*** Attention selectively modifies the representation of individual faces in the human brain, Journal of Neuroscience, 33:6979-6989, 2013.

286. Hooker CI, Bruce L, Fisher M, Verosky SC, Miyakawa A, D'Esposito M, Vinogradov S. The influence of combined cognitive plus social-cognitive training on amygdala response during face emotion recognition in schizophrenia, Psychiatry Research: Neuroimaging, 213:99-107, 2013.

287. Lee T, Blumenfeld RS, ***D'Esposito M.*** Disruption of dorsolateral but not ventrolateral prefrontal cortex improves unconscious perceptual memories, Journal of Neuroscience, 33:13233-13237, 2013.

288. Sneve MH, Magnussen S, Alnæs D, Endestad T,, ***D'Esposito M***. Top-down modulation from inferior frontal junction to frontal eye fields and intraparietal sulcus during short-term memory for visual features, Journal of Cognitive Neuroscience, 25:1944-1956, 2013.

289. Finn AS,Hudson Kam CL, Ettlinger M, Vytlacil J, ***D'Esposito M***. Learning language with the wrong neural scaffolding: The cost of neural commitment to sounds, Frontiers in Human Neuroscience, 7:85, 2013.

290. Postle BR, Awh E, Serence JT, ***D'Esposito M.*** The positional-specificity effect reveals a passive-trace contribution to visual short-term memory, PloS One, 8:e83483, 2013.

291. Stelzel C, Fiebach CJ, Cools R, Tafazoli S, ***D'Esposito M.*** Dissociable fronto-striatal effects of dopamine D2 receptor stimulation on cognitive vs. motor flexibility, Cortex, 49:2799-811, 2013.

292. Gratton C, Lee TG, Nomura EM, ***D'Esposito M***. The effect of theta-burst TMS on cognitive control networks, Frontiers in Systems Neuroscience, 7:124, 2013.

293. Cohen JR, Sreenivasan KK, ***D'Esposito M***. Correspondence between stimulus- encoding and maintenance-related activity underlies successful working memory, Cerebral Cortex, 24:593-9, 2014.

294. Blumenfeld RS, Bliss DP, Perez P, ***D'Esposito M***. CoCoTools: Open-source software for building connectomes using the CoCoMac anatomical database, Journal of Cognitive Neuroscience, 26:722-45, 2014.

295. Blumenfeld RS, Lee T, ***D'Esposito M.*** The effects of lateral prefrontal cortex transcranial magnetic stimulation on item memory encoding, Neuropsychologia, 53:197-202, 2014.

296. Sreenivasan KK, Curtis CE, ***D'Esposito M***. Revising the role of persistent neural activity in working memory, Trends in Cognitive Science, 18:82-89, 2014.

297. Vytlacil J, Kayser AK, Miyakawa A, ***D'Esposito M.*** Identification of brainstem dopaminergic pathways using resting state functional MRI, PLoS ONE, 9:e87109, 2014.

298. Novakovic-Agopian T, Chen AJW, Rome S, Rossi A, Abrams G, ***D'Esposito M***, Turner G, McKim R, McKim R, Muir J, Hills N, Kennedy MS, Garfinkle, Murphy M, Binder D, Castelli H. Assessment of Sub-Components of Executive Functioning in Ecologically Valid Settings: The Goal Processing Scale, Journal of Head Trauma Rehabilitation, 29-136-146, 2014.

299. Turner GR, **D*'Esposito M***. Neurorehabilitation of Executive Functions. In: M.E. Selzer, S. Clarke, Kwakkel, Miller (Eds.) Textbook of Neural Repair and Rehabilitation, Cambridge University Press, Cambridge, U.K., 2014.

300. Cohen JR, Jacobs E, ***D'Esposito M***. Quantifying the reconfiguration of intrinsic networks during working memory, PLoSOne, 9:e106636, 2014.

301. Gratton C, Lee TG, ***D'Esposito M***. Perfusion MRI indexes variability in the functional brain effects of theta burst transcranial magnetic stimulation, PLoSOne, Jul 3;9(7):e101430, 2014.

302. Sreenivasan KK, Gratton C, , Vytlacil J, ***D'Esposito M***. Evidence for working memory storage operations in perceptual cortex, Cognitive, Affective and Behavioral Neuroscience, 14:117-28, 2014.

303. Sreenivasan KK, Vytlacil J, ***D'Esposito M***. Distributed and dynamic storage of working memory information, Journal of Cognitive Neuroscience, 26:1141-53, 2014.

304. Fegen D, Buchsbaum BR, ***D'Esposito M.*** The effect of rehearsal rate and memory load on verbal working memory, NeuroImage, 105:120-31, 2014.

305. Aarts E, Cools R, Wallace DL, Dang L, Jagust W, ***D'Esposito M***. Dopamine and the cognitive downside of a promised bonus, Psychological Science, 25:1003-9, 2014.

306. Chen AJW, ***D'Esposito M***. Plasticity in prefrontal cortical networks after brain injury: finding the optimal paths. In: J.I. Tracy, B. Hampstead, K. Sathian (Eds.) Cognitive Plasticity in Neurological Disorders, Oxford University Press, Oxford, U.K., 2015.

307. Arnemann KL, Chen AJ, Novakovic-Agopian T, Gratton C, Nomura EM, ***D'Esposito M***. Functional brain network modularity predicts response to cognitive training after brain injury. Neurology, 84:1568-74, 2015.

308. Launer LJ, Lewis CE, Schreiner PE, Sidney S, Battapady H, Jacobs DR; Lim KO, MD; ***D'Esposito M***, Reis J, Zhang Q, Reis J, Davatzikos C, Bryan RN, Vascular factors and multiple measures of early brain health: CARDIA Brain Study, PLoS One, 10(3):e0122138, 2015.

309. Bahlmann J, Aarts E, ***D'Esposito M.*** Influence of motivation on control hierarchy in the human frontal cortex, Journal of Neuroscience, 35:3207-17, 2015.

310. Bioemendaal M, van Schouwenburg MR, Miyakawa A, Aarts E, ***D'Esposito M***, Cools R. Dopaminergic modulation of distractor resistance and prefrontal delay period activity, Psychopharmacology, 232:1061-70, 2015.

311. ***D'Esposito M***, Postle BR. The cognitive neuroscience of working memory, Annual Reviews of Psychology, 66:115-42, 2015.

312. Van Vleet TM, Chen A, Novakovic-Agopian, ***D'Esposito M***, Tonic and phasic alertness training: a novel treatment for executive control dysfunction following traumatic brain injury, NeuroCase, 21:489-98, 2015.

313. **D'Esposito M**, Sreenivasan K, Kayser A. Functional MRI: Cognitive Neuroscience Applications. In: K. Ugurbil, K. Uludag, L.J. Berliner, Editors. FMRI: From Nuclear Spins to Brain Function, Springer, New York, 2015.

314. Wittmann BC, ***D'Esposito M***. Levodopa administration modulates striatal processing for punishment-associated items in healthy participants, Psychopharmacology, 232:135-44, 2015.

315. Bahlmann J, Blumenfeld RS, ***D'Esposito M.*** The rostro-caudal axis of frontal cortex is sensitive to the domain of stimulus information, Cerebral Cortex, 25:1815-26, 2015.

316. Sadaghiani S, ***D'Esposito M***. Functional characterization of the cingulo-opercular network in the maintenance of intrinsic alertness, Cerebral Cortex, 25:2763-73, 2015.

317. Wallace DL, Aarts E, Linh LC, Greer SM, Jagust WJ, ***D'Esposito M***. Dorsal striatal dopamine, food preference, and health perception in humans, PLoS One, 92:74-80, 2015

318. Haight TJ, Bryan RN, Erus G, Davatzikos C, acobs DR, ***D'Esposito, M***, Lewis CE, Launer LJ. Vascular risk factors, cerebrovascular reactivity, and the default-mode brain network: Findings from the Coronary Artery Risk Development in Young Adults (CARDIA) Brain MRI Sub-Study, NeuroImage, 115:7-16, 2015.

319. Wallace DL, Aarts E, d'Oleire Uquillas F, Dang LC, Greer SM, Jagust WJ, ***D'Esposito M***. Genotype status of the dopamine-related catechol-O-methyltransferase (COMT) gene corresponds with desirability of "unheathy" foods, Appetite, 92:74-80, 2015.

320. Sadaghiani S, Kleinschmidt A, ***D'Esposito M.*** Dynamic intrinsic connectivity predicts perception, Proceedings of the National Academy of Sciences, 112:8463-8, 2015.

321. Voytek B, Badre D, Kayser AS, Fegen D, Chang EF, Crone NE, Parvizi J, Knight RT, ***D'Esposito M.*** Oscillatory dynamics coordinating human frontal networks in support of goal maintenance, Nature Neuroscience, 18:1318-24, 2015.

322. Cole MA, Muir JJ, Gans JJ, Shin LM, ***D'Esposito M,*** Harel BT, Schembri A. Simultaneous Treatment of Neurocognitive and Psychiatric Symptoms in Veterans with Post-Traumatic Stress Disorder and History of Mild Traumatic Brain Injury: A Pilot Study of Mindfulness-Based Stress Reduction. Military Medicine, 180:956-63, 2015.

323. Bertolero MA, Yeo BTT, ***D'Esposito, M***. The modular and integrative functional architecture of the human brain, Proceedings of the National Academy of Sciences, 112:E6798-807, 2015.

324. Rahnev D, Koizumi A, McCurdy LY, ***D'Esposito M***, Lau H. Confidence leak in perceptual decision-making, Psychological Science, 26:1664-80, 2015.

325. Cameron I.G.M., Riddle J.M., ***D'Esposito M.*** The effect of theta burst TMS to frontal eye fields on oculomotor network function, Frontiers in Human Neuroscience, 16:169, 2015.

326. Lorenc ES, Lee TG, Chen AJW, ***D'Esposito M***. The effect of disruption of prefrontal cortical function with transcranial magnetic stimulation on visual working memory, Frontiers in Systems Neuroscience, 16:169, 2015.

327. Daffner KR, Gale SA, Barrett AM, Boeve BF, Chatterjee A, Coslett HB, ***D'Esposito M***, Finney GR, Gitelman DR, Hart JJ Jr, Lerner AJ, Meador KJ, Pietras AC, Voeller KS, Kaufer DI. Improving clinical cognitive testing: report of the AAN Behavioral Neurology Section Workgroup. Neurology. 85:910-8, 2015.

328. Nee, DE, ***D'Esposito, M.*** Working memory. In A.W. Toga (Ed.), Brain Mapping: An Encyclopedic Reference. Academic Press: Elsevier, 2015.

329. Smith CT, Wallace DL, Dang LC, Aarts E, Jagust WJ, ***D'Esposito M***, Boettiger CA. Modulation of Impulsivity and Reward Sensitivity in Intertemporal Choice by Striatal and Midbrain Dopamine in Healthy Adults, J Neurophysiology, 115(3):1146-56, 2016.

330. Nee DE, ***D'Esposito M.*** The hierarchical organization of the lateral prefrontal cortex, ELife, e12112, 2016.

331. Rahnev D, Nee DE, Riddle J, Larson, A ***D'Esposito M***. Causal evidence for frontal organization for perceptual decision-making, Proceedings of the National Academy of Sciences, 113:6059-64, 2016.

332. Gallen CL, Turner, GR, Areeba A, ***D'Esposito M.*** Reconfiguration of intrinsic brain network architecture to support executive control in normal aging, Neurobiology of Aging, 44:42-52, 2016.

333. Chapman SB, Aslan S, Spence JS, Keebler MW, DeFina LF, Didehbani N, Perez AM, Lu H[4] ***D'Esposito M.*** Distinct Brain and Behavioral Benefits from Cognitive versus Physical Training: A Randomized Trial in Aging Adults, Frontiers in Human Neuroscience, 10:338, 2016.

334. ***D'Esposito M***, Kayser A, Chen A. Functional MRI: Applications in Cognitive Neuroscience. In: M. Filippi (Ed.) Functional MRI Techniques and Protocols, 2nd Edition. Springer, New York, 2016.

335. Nee DE, ***D'Esposito M.*** The representational basis of working memory. In: Clark RE, Martin S (Eds.) Behavioral Neuroscience of Learning and Memory, Springer Berlin Heidelberg, New York, 2016.

336. Peters J. ***D'Esposito M.*** Effects of medial orbitofrontal cortex lesion on self-control on inter temporal choice, Current Biology, 26:2625-2628, 2016

337. Cole MA, Soda CN, ***D'Esposito M.*** History of Functional Brain Imaging. In: B. Barr, L. Bielauskas (Eds.) The Oxford Handbook of the History of Clinical Neuropsychology, Oxford University Press, Oxford, 2016.

338. Kayser AS, ***D'Esposito M***. Neurotechnologies. In: Reference Module in Neuroscience and Biobehavioral Psychology**,** Elsevier, Oxford, UK, 2017.

339. Cohen JR, ***D'Esposito M***. Segregation and integration of distinct brain networks and their relationship to cognition, Journal of Neuroscience, 36:12083-12094, 2017.

340. Gallen CL, Baniqued PL, Chapman SB, Aslan S, Keebler M, Didehbani N, ***D'Esposito M.*** Modular brain network organization predicts response to cognitive training in older adults, PLoS One, 11:.e0169015, 2017.

341. Buchsbaum BR, ***D'Esposito M.*** Short Term and Working Memory. In: H. Eichenbaum (ed.) Learning and Memory: A Comprehensive Reference, 2nd Edition, J.H. Byrne (ed.), Oxford:Academic Press, UK, 263-274, 2017

342. Gazzaley A, Lee TG, ***D'Esposito M***. The Frontal Lobes and Executive Control. In: Miller B., Cummings JL. The Human Frontal Lobes, 3rd Edition, Guilford Publications, New York, NY, 2017.

343. Gratton C, Yousef S, Aarts E, Wallace DL, ***D'Esposito M***, Silver MA. Cholinergic, but not dopaminergic or noradrenergic, enhancement sharpens visual spatial perception in humans, Journal of Neuroscience, 37:4405-4415, 2017.

344. Hwang K, Bertolero M, Liu W, ***D'Esposito M.*** The human thalamus is an integrative hub for functional brain networks, Journal of Neuroscience, 37:5594-5607, 2017.

345. Adnan A., Chen A.J.W., Novakovic-Agopian T, ***D'Esposito M***, Turner GR. Brain changes following attention regulation training in older adults, Neurorehabilitation and Neural Repair, 31:910-922, 2017.

346. Nee DE, ***D'Esposito M.*** Causal evidence for lateral prefrontal cortex dynamics supporting cognitive control, eLife, e28040, 2017.

347. Bertolero MA, Yeo BTT, ***D'Esposito, M***. The Diverse Club: The Integrative Core of Complex Networks, Nature Communications, 8:1277, 2017.

348. Bliss DR, Sun JJ, ***D'Esposito M***. Synaptic augmentation in a cortical circuit model reproduces serial dependence in visual working memory, PloSOne, 12:e0188927, 2017

349. Bliss DR, Sun JJ, ***D'Esposito M***. Serial dependence is absent at the time of perception but grows in visual working memory, Scientific Reports, 7:14739, 2018.

350. Scimeca JM, Kiyonaga A, **D'Esposito M**. Reaffirming the Sensory Recruitment Account of Working Memory. Trends in Cognitive Science. 22:190-192, 2018.

351. Cameron IGM., Wallace DL., Al-Zugoul A, Kayser AK, ***D'Esposito M.*** Effect of tolcapone and bromocriptine on cognitive stability and flexibility, Psychopharmacology, 235:1295-1305, 2018.

352. Nee, DE, & ***D'Esposito, M***. Working memory: An evolving concept. In J.T. Wixted (Ed.), The Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, 4th Edition. John Wiley and Sons, 2018.

353. Tambini A, Nee DE, ***D'Esposito M.*** Hippocampal-targeted theta-burst stimulation enhances associative memory formation, Journal of Cognitive Neuroscience, 30:1452-1472, 2018.

354. Haight T., Bryan R.N., Erus G, Davatzikos C, Hsieh M-K, Nasrallah I, **D'Esposito M**, Jacobs D.R., Lewis C, Schreiner P, Sidney S, Meirelles O, Launer L. White matter structure, white matter lesions and hypertension: an examination of early surrogate markers of vascular-related brain change in midlife , NeuroImage: Clinical, 18:753-761, 2018.

355. Lorenc, ES, Sreenivasan KK, Nee DE, Vandenbroucke ARE, ***D'Esposito M***. Flexible coding of visual working memory representations during distraction, Journal of Neuroscience, 38:5267-5276, 2018.

356. Novakovic-Agopian T, Kornblith E, Abrams G, Burciaga-Rosales J, Loya F, **D'Esposito M**, Chen AJW. Training in goal-oriented attentional self-regulation improves executive functioning in veterans with chronic TBI, Journal of Neurotrauma, 35:2784-2795, 2018.

357. Vogelsang DA, ***D'Esposito M.*** Is there evidence for a rostral-caudal gradient in fronto-striatal loops and what role does dopamine play?, Frontiers in Decision Neuroscience, 12:242, 2018.

358. Bertolero MA, Yeo BTT, Bassett DS, ***D'Esposito, M***. A mechanistic model of connector hubs, modularity, and cognition, Nature Human Behavior, 2:765-777, 2018.

359. Baniqued PL, Gallen CL, Voss MW, Burzynska AZ, Wong CN, Cooke GE, Duffy K, Fanning J, Ehlers D, Salerno EA, Aguinaga S, McAuley E, Kramer AF, ***D'Esposito M***. Brain network modularity predicts exercise-related executive function gains in older adults, Frontiers in Aging Neuroscience, 9:246, 2018.

360. Blumenfeld RS, Bliss DP, ***D'Esposito M***, Turner GR. Quantitative anatomical evidence for dorsoventral and rostrocaudal segregation within the nonhuman primate frontal cortex, Journal of Cognitive Neuroscience, 30:353-364, 2018.

361. Berry AS, Shah VD, Furman DK, White RL, Baker SL, O'Neil JP, Janabi M, ***D'Esposito M***, Jagust WJ. Dopamine synthesis capacity is associated with D2/3 receptor binding but not dopamine release, Neuropsychopharmacology, 43:1201-1211, 2018.

362. Cameron I.G.M., Riddle J.M., ***D'Esposito M.*** Compensatory mechanisms underlying focal brain disruption: importance of the ipsilesional hemisphere, Psychopharmacology, 235:1295-1305, 2018.

363. Hwang K, Shine JM, Jagadeesh A, ***D'Esposito M.*** Fronto-parietal activity interacts with task-evoked changes in functional connectivity, Cerebral Cortex, 29:802-813, 2019.

364. Turner GR, Novakovic-Agopian T, Kornblith E, Adnan A, Madore M, Chen AJW, ***D'Esposito M.*** Goal-oriented attention regulation (GOALS) training in older adults, Aging and Mental Health, in press.

365. Kornblith E, Abrams G, Chen AJW, Burciaga J, ***D'Esposito M***, Novakovic-Agopian T. Impact of baseline neurocognitive functioning on outcomes following rehabilitation of executive function training for veterans with history of traumatic brain injury, Applied Neuropsychology:Adult, in press.

366. Gallen CL, ***D'Esposito M***. Brain Modularity: a biomarker of intervention-related plasticity, Trends in Cognitive Sciences, 23:293-304, 2019.

367. Berry AS, White RL, Furman DK, Naskolnakorn JR, Shah VD, ***D'Esposito M***, Jagust WJ. Dopaminergic mechanisms underlying normal variation in trait anxiety, Journal of Neuroscience, 39:2735-2744, 2019.

368. Buchsbaum BR, **D'Esposito M**. A sensorimotor view of working memory, Cortex, 112:134-148, 2019.

369. Riddle J.M., Hwang K, Cellier D, Dhanani S, ***D'Esposito M.*** Causal evidence for the role of neuronal oscillations in top-down and bottom-up attention, Journal of Cognitive Neuroscience, 31:768-779, 2019.

370. Baniqued PL, Gallen CL, Kranz MB, Kramer AF, ***D'Esposito M***. Brain network modularity predicts cognitive training-related gains in young adults, Neuropsychologia, 131:205-215, 2019.

371. ***D'Esposito M***, Kayser A, Chen A. Functional MRI: Cognitive Neuroscience Applications. In: SH Faro, FB Mohamed, M (Eds.) Functional Neuroradiology: Principles and Clinical Applications (2nd Edition). Springer-Verlag, Berlin, in press.

372. Sreenivasan KK, ***D'Esposito M***. The what, where and how of delay activity, Nature Reviews Neuroscience, in press.

373. Sadaghiani S, Pascasie L. Dombert PL, Lovstad M, Funderud I, Meling TR, Endestad T, Robert T. Knight RT, Solbakk AK, ***D'Esposito M***. Lesions to the fronto-parietal network impact alpha-band phase synchrony and cognitive control, Cerebral Cortex, in press.

374. Ballard ME, Kayser AS, ***D'Esposito M.*** Working Memory and Traumatic Brain Injury. In: T Packiam Alloway (Ed.) Working Memory and Developmental Disorders, Taylor & Francis, Oxon, UK, in press.

375. White Rl, ***D'Esposito M.*** Working Memory. In: B.C. Dickerson, D.A. Wolk (Eds.) Cognitive and Behavioral Neurology: An Introduction with Illustrative Cases in Neurodegenerative Disorders, Springer, New York, in press.

376. Kimbrough A, Lurie DJ, Collazo A, Kreifeldt M, Sidhu H, Renier N, ***D'Esposito M***, Contet C, Olivier G. Brain-wide functional architecture remodeling by alcohol dependence and abstinence, submitted for publication.

377. Eichenbaum, A, Scimeca, J, ***D'Esposito, M***. Lateral frontal cortex and cinguo-opercular regions support learning to learn via transfer of hierarchical task structure, submitted for publication.

378. Kiyonaga A, ***D'Esposito M***. Competition and control during working memory, submitted for publication.

379. Miller JA, Kiyonaga A, Ivry R, and ***D'Esposito M***. Prioritized working memory content biases ongoing action, submitted for publication.

380. Hwang K, Shine JM, Cellier C, ***D'Esposito M***. The human intraparietal sulcus modulates task-evoked functional connectivity, submitted for publication.

381. Novakovic-Agopian T, Kornblith E, Abrams G, Burciaga J, Loya F, ***D'Esposito M***, Chen AJW. Long term effects of executive function training among veterans with chronic TBI, Brain Injury, in press.

382. Toker D, Sommer FT, ***D'Esposito M***. The Chaos Decision Tree Algorithm: A fully automated tool for the experimental study of chaotic dynamics, submitted for publication.

383. Kornblith E, Posecion L, Abrams G, Chen AJW, Burciaga-Rosales J, ***D'Esposito M***. Novakovic-Agopian T. Long-term effect of cognitive rehabilitation regardless of pre-rehabilitation cognitive status for veterans with TBI, submitted for publication.

384. Furman DJ, White, RL, Naskolnakorn J, Ye S, Kayser AS, ***D'Esposito M***. Effects of dopaminergic drugs on cognitive control processes vary by genotype, submitted for publication.

385. Peters J, ***D'Esposito M***. The drift diffusion model as the choice rule in inter-temporal and risky choice: a case study in medial orbitofrontal cortex lesion patients and controls, submitted for publication.

Scientific Meeting Presentations

1. ***D'Esposito M***, Alexander MP, McGlinchey-Berroth R, Milberg W. Mechanisms of unilateral visual neglect: evidence from a lexical decision task. Neurology, 42:223, 1992. (Presented at the American Academy of Neurology Meeting, San Diego, CA, May 1992)

2. Fischer RS, ***D'Esposito M***, Roberts MB, Messner S, Bugg F. Neuroanatomical and neuropsychological factors underlying unilateral neglect. Journal Clinical & Experimental Neuropsychology, (Presented at the International Neuropsychological Society Meeting, Galveston, TX, February 1993)

3. Fischer RS, Otto R, ***D'Esposito M***, Leavell C. Neuropsychological and neuroanatomical correlates of the anterior communicating aneurysm syndrome. Journal Clinical & Experimental Neuropsychology, 15:92, 1993. (Presented at the International Neuropsychological Society Meeting, Galveston, TX, February,1993)

4. ***D'Esposito M***, Alexander MP. Subcortical aphasias: the several profiles of left hemorrhage. Neurology, 43:404,1993. (Presented at the American Academy of Neurology Meetings, New York, NY, May 1993)

5. Moscovitch, L, ***D'Esposito M***, Albert, ML. Amnesia following hippocampal area arteriovenous malformation resection. Neurology, 43:297. (Presented at the American Academy of Neurology Meetings, New York, May 1993).

6. Mimura M, Kato M, Asai M, ***D'Esposito M***, Kashima H. Semantic encoding deficits following anterior communicating artery aneurysm rupture. Journal Clinical & Experimental Neuropsychology, 15:387, 1993. (Presented at the International Neuropsychological Society Meetings, Portugal, July 1993).

7. ***D'Esposito M***, McGlinchey-Berroth R, Alexander MP, Fischer RS, O'Connor M, Walbridge M. Cognitive recovery following anterior communicating artery aneurysm rupture. J International Neuropsychological Society, 1:364, 1995. (Presented at the International Neuropsychological Society Meetings, Cincinnati, OH, February 1994).

8. McGlinchey-Berroth R, Verfaellie M, Milberg W, Grande L, Bolton E, **D'Esposito *M***. Semantic processing from lexical information in hemispatial neglect. J International Neuropsychological Society, 1:353, 1995. (Presented at the International Neuropsychological Society Meetings, Cincinnati, February 1994).

9. Verfaellie M, McGlinchey-Berroth R, , Milberg W, Grande L, ***D'Esposito M***: Cross-field matching of visual stimuli in hemispatial neglect. J International Neuropsychological Society, 1:353, 1995 (Presented at the International Neuropsychological Society Meetings, Cincinnati, February, 1994).

10. Fischer RS, ***D'Esposito M***, Alexander MP. Neuroanatomical and neuropsychological correlates of confabulation. J International Neuropsychological Society, 1:363, 1995. (Presented at the International Neuropsychological Society Meetings, Cincinnati, OH, February,1994).

11. Hughes L, Grossman M, Mickanin J, Ding XS, ***D'Esposito M***, Alavi A, Reivich M: PET activation studies of semantic decisions in Alzheimer's disease, Neurology, 44:A382, 1994. (Presented at the American Academy of Neurology Meetings, Washington, DC, May,1994)

12. ***D'Esposito M***, Alexander MP, Verfaillie M, McGlinchey-Berroth R, O'Connor M, Walbridge M. The mechanism of retrograde amnesia depends on the region of brain injury, Neurology, 44:A383, 1994. (Presented at the American Academy of Neurology Meetings, Washington, DC, 1994).

13. Alexander MP, ***D'Esposito M***, Ween JE. Multiple risk factors affect the outcome of stroke rehabilitation, Neurology, 44:A185, 1994. (Presented at the American Academy of Neurology Meetings, Washington, DC, 1994).

14. Grande L, McGlinchey-Berroth R, Milberg W, ***D'Esposito M***. The role of selective attention in the semantic and lexical processing of Alzheimer's patients. (Presented at the Rotman Research Institute Conference, Toronto, Canada, March, May 1994).

15. Grande L, McGlinchey-Berroth R, Milberg W, ***D'Esposito M***. The role of selective attention in the semantic and lexical processing of Alzheimer's patients. (Presented at the Massachusetts Neuropsychological Society, Boston, MA, May 1994).

16. Armstrong C, Onishi K, Robinson K, ***D'Esposito M***, Thompson H, Grossman M. Consolidation of semantic learning in multiple sclerosis as a function of the predictive value of five trial learning for retrieval. (Presented at the Third Annual Practical Aspects of Memory Conference, University of Maryland, July 1994).

17. Libon DJ, Grossman M, Mickanin J, Hughes E, Onishi K, Biassou N, ***D'Esposito M***, Ding XS, Alavi, A. Apractic agraphia and ideomotor apraxia for tools: neuropsychological and PET studies. Brain & Language 47:320, 1994. (Presented at the Academy of Aphasia, Boston, MA, October 1994).

18. Biassou N, Grossman M, Onishi K, Mickanin J, Lloyd SP, Carvel S, Hughes L, Robinson K, ***D'Esposito M***. Phonological processing deficits in Alzheimer's disease. Brain & Language 47:322, 1994. (Presented at the Academy of Aphasia, Boston, MA, October 1994).

19. Robinson K, Onishi K, ***D'Esposito M***:, Grossman M. Sentence comprehension in multiple sclerosis. Brain & Language 47:319, 1994. (Presented at the Academy of Aphasia, Boston, MA, October 1994).

20. Grossman M, Hughes E, Mickanin J, Onishi K, Biassou M, ***D'Esposito M***, Robinson K, Ding XS, Alavi A, Reivich M. Grammatical processing difficulty in progressive dementia: cognitive and PET activation studies. Brain & Language 47:322, 1994. (Presented at the Academy of Aphasia, Boston, MA, October 1994).

21. ***D'Esposito M***, Detre JA, Alsop DC, Listerud J, Atlas SW, Grossman M. Activation of dorsolateral prefrontal cortex during a dual-task working memory paradigm using functional MRI. Society of Neuroscience Abstracts, 20:6, 1994. (Presented at the Society for Neuroscience Meeting, Miami, FL, November 1994).

22. Kimberg DY, ***D'Esposito M***, Farah MJ. The effects of bromocriptine, a D2 dopamine receptor agonist, on the cognitive abilities of human subjects with different working memory capacities. Society of Neuroscience Abstracts, 20:1271, 1994.(Presented at the Society for Neuroscience Meeting, Miami, FL, November 1994)

23. Grossman M, Hughes E, Onishi K, Biassou N, ***D'Esposito M***, Robinson KM, Ding XS, Alavi A, Reivich M. PET activation in Alzheimer's disease demonstrating the role of left angular gyrus in semantic memory. Society of Neuroscience Abstracts, 20:1271, 1994. (Presented at the Society for Neuroscience Meeting, Miami, FL, November 1994)

24. O'Connor M, Walbridge M, ***D'Esposito M***, McGlinchey-Berroth R, Alexander M. An investigation of the remote memory abilities of patients with rupture and surgical repair on ACoA aneurysms. J

International Neuropsychological Society 1:152, 1995. (Presented at the International Neuropsychological Society Meeting, Seattle, WA, February 1995).

25. Robinson K, Onishi K, Thompson H, ***D'Esposito M***, Grossman M. Impaired grammatical processing during sentence comprehension in multiple sclerosis. J International Neuropsychological Society, 1;182, 1995. (Presented at the International Neuropsychological Society Meeting, Seattle, WA, February 1995).

26. Armstrong C, Onishi K, ***D'Esposito M***, Robinson K, Grossman M. Memory encoding versus retrieval impairment in multiple sclerosis. J International Neuropsychological Society 1;183, 1995. (Presented at the International Neuropsychological Society Meeting, Seattle, WA, February, 1995).

27. Howard RS, Maldjian J, van Buchem M, Alsop D, Detre J, ***D'Esposito M***, Listerud J, Judy K, Atlas SW. Anatomical and semiquantiative analysis of speech and motor cortex activity using BOLD functional MRI in patients with infiltrative gliomas. (Presented at the American Society of Neuroradiology, Chicago, IL, April 1995.

28. Robinson K, Thompson H, Onishi K, ***D'Esposito M***, Grossman M. Text comprehension difficulty and slowed information processing in multiple sclerosis. (Presented at TENNET VI meeting, Montreal, Canada, May 1995).

29. Robinson K, Devine T, ***D'Esposito M***, Grossman M. Category-specific difficulty naming with verbs in Alzheimer's disease. (Presented at TENNET VI meeting, Montreal, Canada, May 1995).

30. White-Devine T, Robinson K, Onishi K, Seidl A, ***D'Esposito M***, Grossman M. Recognition naming of nouns and verbs in Alzheimer's disease. (Presented at TENNET VI meeting, Montreal, Canada, May 1995).

31. Biassou N, Onishi K, Hughes E, ***D'Esposito M***, Grossman M. The interaction between phonological articulation and sentence processing in Alzheimer's disease. (Presented at TENNET VI meeting, Montreal, Canada, May 1995).

32. Seidl A, Onishi K, White T, ***D'Esposito M***, Grossman M. Resource limitations and grammatical complexity in the sentence comprehension of patients with Parkinson's disease. (Presented at TENNET VI meeting, Montreal, Canada, May 1995).

33. Ween J, Alexander MP, ***D'Esposito M***. Predicting recovery of urinary incontinence in patients admitted for stroke rehabilitation. Neurology, 45:A223, 1995. (Presented at the American Academy of Neurology Meeting, Seattle, WA, May 1995).

34. Seidel A, Grossman M, ***D'Esposito M***, Onishi K, Robinson K, Stern M, Hurtig H. Sentence comprehension and working memory in Parkinson's disease. Neurology, 45:A264, 1995. (Presented at the American Academy of Neurology Meeting, Seattle, WA, May 1995).

35. ***D'Esposito M***, Detre JA, Shin RK, Alsop DC, Atlas SW, Grossman M. Functional magnetic resonance imaging of working memory during a dual-task paradigm. Neurology, 45:A264, 1995. (Presented at the American Academy of Neurology Meeting, Seattle, WA, May 1995).

36. Shin RK, ***D'Esposito M***, Detre JA, Alsop DC, Atlas SW, Grossman M. Functional magnetic resonance imaging activation during a visuospatial/mental rotation task. Neurology, 45:A267, 1995. (Presented at the American Academy of Neurology Meeting, Seattle, WA, May 1995).

37. Grossman M, ***D'Esposito M***, Detre JA, Alsop DC, Shin RK. Lexical semantic decisions about words with functional MRI. Neurology, 45:A372, 1995. (Presented at the American Academy of Neurology Meeting, Seattle, WA, May 1995).

38. Grossman M, Onishi H, ***D'Esposito M,*** Armstrong C, Cohen J. Neuropsychological performance during a double-blind, placebo-controlled trial of copolymer-1 in relapsing-remitting multiple sclerosis. J Neuroimmunology, suppl 1:37, 1995. (Presented at the 11th European Congress on Multiple Sclerosis, Jerusalem, Israel, September 1995).

39. Shin RK, ***D'Esposito M,*** Detre JA, Aguirre GK, Grossman M, Alsop DC. Effects of difficulty on functional MRI activation during a cognitive task. Society for Neuroscience Abstracts, 21:1764, 1995. (Presented at the Society of Neuroscience Meeting, San Diego, CA, November 1995).

40. ***D'Esposito M,*** Shin RK, Detre JA, Incledon S, Annis D, Aguirre GK, Grossman M, Alsop DC. Object and spatial working memory activates dorsolateral prefrontal cortex: a functional MRI study. Society for Neuroscience Abstracts, 21:1498, 1995. (Presented at the Society of Neuroscience Meeting, San Diego, CA, November 1995).

41. Farah MJ, ***D'Esposito M,*** Shin RK, Stallcup M, Aguirre GK, Alsop DC, Grossman M, Tippet LJ, Detre JA. Functional MRI study of mental image generation. Society for Neuroscience Abstracts, 21:1498, 1995. (Presented at the Society of Neuroscience Meeting, San Diego, CA, November 1995).

42. Aguirre GK, Detre JA, ***D'Esposito M,*** Alsop DC, Rosenquist A. Maze navigation activates the hippocampal formation. Society for Neuroscience Abstracts, 21:272, 1995. (Presented at the Society of Neuroscience Meeting, San Diego, CA, November 1995).

43. McDowell SK, ***D'Esposito M***. Working memory impairments in traumatic brain injury patients: evidence from a dual-task paradigm. (Presented at the 16th Annual Braintree Hospital Brain Injury Conference, Boston, MA, November 1995).

44. Devine TW, Robinson K, Onishi K Seidl A, ***D'Esposito M,*** Grossman M. Verb naming and recognition impairments in Alzheimer's disease. Brain & Language 51:34-36, 1995. (Presented at the Academy of Aphasia, San Diego, CA, November 1995).

45. Seidl A, Onishi K, White H, ***D'Esposito M,*** Grossman M. Resource limitations and grammatical complexity in the sentence comprehension of patients with Parkison's disease. Brain & Language 51:106-108, 1995. (Presented at the Academy of Aphasia, San Diego, CA, November 1995).

46. Grossman M, Onishi K, Hughes E, ***D'Esposito M,*** Biassou N, Seidl A, White H, Devine TW, Robinson K. Comprehension deficits in Alzheimer's disease, vascular dementia and frontal dementia. Brain & Language 51:144-146, 1995. (Presented at the Academy of Aphasia, San Diego, CA, November 1995).

47. Kalmanson J, Onishi K, White-Devine T, LaGuardia J, Hughes E, ***D'Esposito M***, Grossman M. Natural history and prognostic value of language deterioration in Alzheimer's disease, frontotemporal degeneration, and vascular dementia. Neurology, 46:A187, 1996. (Presented at the American Academy of Neurology Meeting, San Francisco, March 1996).

48. White-Devine T, Hughes, LaGuardia J, Kalmanson J, Onishi K, ***D'Esposito M***, Grossman M. Language profiles in Alzheimer's disease, frontotemporal degeneration, and vascular dementia. Neurology, 46:A292, 1996. (Presented at the American Academy of Neurology Meeting, San Francisco, March 1996).

49. ***D'Esposito M***, Shin RK, Aguirre GK, Zarahn E, Thompson C, Grossman M, Detre JA, Alsop D. Distinct dorsolateral prefrontal regions subserve verbal and spatial working memory: a functional MRI study. Neurology, 46:A213, 1996. (Presented at the American Academy of Neurology Meeting, San Francisco, March 1996).

50. Zarahn E, ***D'Esposito M***. Identification of frontal regions involved in self-monitoring and response production: a functional MRI study. Neurology, 46:A214, 1996. (Presented at the American Academy of Neurology Meeting, San Francisco, March 1996).

51. Shin RK, ***D'Esposito M***, Detre JA, Zarahn E, Aguirre GK, Grossman M, Alsop DC. Functional MRI correlates of cognitive task difficulty. Neurology, 46:A422, 1996. (Presented at the American Academy of Neurology Meeting, San Francisco, March 1996).

52. Maccotta L, Zarahn E, Aguirre GK, ***D'Esposito M***, Alsop DC, Detre JA. Regional variation in transit rates for functional activation using BOLD imaging data. Proceedings of the International Society for Magnetic Resonance in Medicine, 3: 1767, 1996. (Presented at the SMRM, New York, May, 1996)

53. Zarahn E, Aguirre GK, ***D'Esposito M***, Detre JA, Alsop DC. Statistical analysis of resting BOLD fMRI data. Proceedings of the International Society for Magnetic Reonance in Medicine, 3: 1805, 1996. (Presented at the SMRM, New York, May 1996)

54. Zarahn E, Aguirre GK, Detre JA, Alsop DC, ***D'Esposito M***. Relationship between response rate and BOLD signal in a sensorimotor task. Proceedings of the International Society for Magnetic Reonance in Medicine, 3: 1806, 1996. (Presented at the SMRM, New York, May 1996)

55. ***D'Esposito M***, Zarahn E, Aguirre GK, Shin RK, P Auerbach, C Thompson, DC Alsop, JA Detre. Effects of cognitive processing time on fMRI activity. NeuroImage, 3: S207. (Presented at Human Brain Mapping, Boston, MA, June 1996)

56. Maccotta L, Aguirre GK, Zarahn E, Alsop DC, ***D'Esposito M***, Detre JA. Transit time analysis of BOLD imaging data. NeuroImage, 3: S77. (Presented at Human Brain Mapping, MA, Boston, June 1996)

57. Aguirre GK, Zarahn E, Detre JA, Alsop DC, ***D'Esposito M***. Empirical analysis of SPM for functional MRI. NeuroImage, 3: S46. (Presented at Human Brain Mapping, Boston, MA, June 1996)

58. Zarahn E, Aguirre GK, Detre JA, Alsop DC, ***D'Esposito M***. Analysis of multi-subject "noise" fMRI data with SPM. NeuroImage, 3: S109. (Presented at Human Brain Mapping, Boston, MA, June 1996)

59. Zarahn E, Aguirre GK, Detre JA, Alsop DC, ***D'Esposito M***. The shape of the fMRI response in primary sensori-motor regions to varying rates of a simple reaction time task. NeuroImage, 3: S424. (Presented at Human Brain Mapping, Boston, MA, June 1996)

60. Aguirre GK, Detre JA, ***D'Esposito M***, Alsop DC. The parahippocampus subserves topographical learning in man. NeuroImage, 3: S527. (Presented at Human Brain Mapping, Boston, MA, June 1996)

61. Aguirre GK, Zarahn E, ***D'Esposito M***. Recall of topographic appearance and position: a dissociation demonstrated with fMRI. Society for Neuroscience Abstracts, 22:968. (Presented at the Society of Neuroscience Meeting, Washington, DC, November 1996)

62. Zarahn E, Aguirre GK, ***D'Esposito M***. Delay-specific activity within prefrontal cortex demonstrated during a working memory task: a functional MRI study. Society for Neuroscience Abstracts, 22:968. (Presented at the Society of Neuroscience Meeting, Washington, DC, November 1996)

63. ***D'Esposito M***, Aguirre GK, Zarahn E, C Thompson. Activation of identical prefrontal regions by delay and non-delay components of a working memory task. Society for Neuroscience Abstracts, 22:968. (Presented at the Society of Neuroscience Meeting, Washington, DC, November 1996)

64. Eyler Zorilla LT, ***D'Esposito M***, Aguirre GK, Zarahn E. Episodic retrieval of content and temporal context activate similar regions of the prefrontal cortex: a functional MRI study. Society for Neuroscience Abstracts, 22:719. (Presented at the Society of Neuroscience Meeting, Washington, DC, November 1996)

65. Farah MJ, Polk TA, Stallcup M, Aguirre GK, Alsop DC, ***D'Esposito M***, Detre JA, Zarahn E. Localization of a fine-grained category of shape: an extrastriate letter area revealed by fMRI. Society for Neuroscience Abstracts, 22:723. (Presented at the Society of Neuroscience Meeting, Washington, DC, November 1996)

66. Polk TA, Stallcup M, Aguirre GK, Alsop DC, ***D'Esposito M***, Detre JA, Zarahn E, Farah MJ. Abstract, not visual, orthographic knowledge encoded in extrastriate cortex: an fMRI study. Society for Neuroscience Abstracts, 22:723. (Presented at the Society of Neuroscience Meeting, Washington, DC, November 1996)

67. Aguirre GK, Zarahn E, ***D'Esposito M***. A test of the relationship between hippocampal activity and correct word recognition with trial-based fMRI . Cognitive Neuroscience Society Abstracts, 4:63. (Presented at the Cognitive Neuroscience Society Meeting, Boston MA, March 1997)

68. Zarahn E, Aguirre GK, ***D'Esposito M***. Examination of the neural substrates of short-term spatial memory with BOLD fMRI . Cognitive Neuroscience Society Abstracts, 4:94. (Presented at the Cognitive Neuroscience Society Meeting, Boston MA, March 1997)

69. Zarahn E, Aguirre GK, ***D'Esposito M***. Examination of the neural substrates of short-term spatial memory with BOLD fMRI . Cognitive Neuroscience Society Abstracts, 4: 94. (Presented at the Cognitive Neuroscience Society Meeting, Boston MA, March 1997)

70. ***D'Esposito M***, Ballard D, Tang J, Lease J, Zarahn E, Aguirre G. Maintenance and manipulation of information held in working memory: an fMRI study. Society for Neuroscience Abstracts, 23:1679. (Presented at the Society of Neuroscience Meeting, New Orleans, LA, November 1997)

71. Farah MJ, ***D'Esposito M***, Aguirre GK, Thompson-Schill SL. Bold fMRI signal in left prefrontal cortex depends on specificity of semantic retrieval. Society for Neuroscience Abstracts, 23:1054. (Presented at the Society of Neuroscience Meeting, New Orleans, LA, November 1997)

72. Thompson-Schill SL, ***D'Esposito M***, Aguirre GK, Farah MJ. Role of left prefrontal cortex in retrieval of semantic knowledge: a re-evaluation. Society for Neuroscience Abstracts, 23:2227. (Presented at the Society of Neuroscience Meeting, New Orleans, LA, November 1997)

73. Kimberg DK, Armstrong M, ***D'Esposito M***. Cortical effects of a dopamine agonist on working memory and prefrontal function revealed by fMRI. Cognitive Neuroscience Society Abstracts, 5:81. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, CA, April 1998)

74. Postle BR, ***D'Esposito M***. Analysis of spatial and object delayed response with event-related fMRI. Cognitive Neuroscience Society Abstracts, 5:85. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, CA, April 1998)

75. ***D'Esposito M,*** Postle BR, Jonides J, Smith EE. Isolating the neural correlates of maintenance and inhibitory processes using event-related fMRI. Cognitive Neuroscience Society Abstracts, 5:86. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, CA, April 1998)

76. Ballard D, Zarahn E, ***D'Esposito M***. Isolating the neural correlates of maintenance and processes and motor set using event-related fMRI. Cognitive Neuroscience Society Abstracts, 5:86. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, CA, April 1998)

77. Rypma B, ***D'Esposito M***. Age differences in components of working memory detected by event-related fMRI. Cognitive Neuroscience Society Abstracts, 5:88. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, CA, April 1998)

78. Thompson-Schill SL, Swick D, ***D'Esposito M***, Knight RT, Kan I, Farah MJ. Lesions of the left inferior frontal gyrus impair selection, not retrieval of semantic knowledge. Cognitive Neuroscience Society Abstracts, 5:53. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, CA, April 1998)

79. Rypma B, Zarahn E, ***D'Esposito M***. Age differences in the coupling of neural activity to BOLD fMRI hemodynamic response: spatial extent, signal intensity, and noise. NeuroImage, 7: S521. (Presented at Human Brain Mapping, Montreal, Canada, June 1998)

80. Aguirre GK, Zarahn E, ***D'Esposito M***. The variability ofhuman BOLD hemodynamic responses. NeuroImage, 7: S574. (Presented at Human Brain Mapping, Montreal, Canada, June 1998)

81. Thompson-Schill SL, ***D'Esposito M***, Kan IP. Effects of Repetition and Competition in Left Prefrontal Cortex During Word Generation. Society for Neuroscience Abstracts, 24:760. (Presented at the Society of Neuroscience Meeting, Los Angeles, CA, November 1998)

82. Rypma B, Zarahn E, ***D'Esposito M***. Areas of Cortical Activity Related to Memory Set-Size Vary With Processing Stage: An Event Related fmri Study. Society for Neuroscience Abstracts, 24:1251. (Presented at the Society of Neuroscience Meeting, Los Angeles, CA, November 1998)

83. Postle BR, ***D'Esposito M***. Homologous cognitive mechanisms and neural substrates underlie dissociable components of set-Shifting and task-switching phenomena. Society for Neuroscience Abstracts, 24:507. (Presented at the Society of Neuroscience Meeting, Los Angeles, CA, November 1998)

84. ***D'Esposito M***, Postle BR. Response of prefrontal cortex to varying load and processing demands during a working memory task: an event-related fMRI study. Society for Neuroscience Abstracts, 24:1251. (Presented at the Society of Neuroscience Meeting, Los Angeles, CA, November 1998)

85. Zarahn E, ***D'Esposito M***, Aguirre GK, Armstrong M, Lease J, Kimberg DY. Cortical effects of bromocriptine, a D-2 dopamine receptor agonist, on working memory and prefrontal function revealed by fMRI. Society for Neuroscience Abstracts, 24:1251. (Presented at the Society of Neuroscience Meeting, Los Angeles, CA, November, 1998)

86. Jonides J, Marshuetz C, Smith EE, ***D'Esposito M***, Postle BR. Recency and recognition memory: neuroimaging and behavioral evidence. (Presented at the 39th Annual The Psychonomic Society Meeting, Dallas, TX, November 1998).

87. Postle BR, ***D'Esposito M***. Homologous mechanisms underlie dissociable components of set-shifting and task-switching. (Presented at the 39th Annual The Psychonomic Society Meeting, Dallas, TX, November 1998).

88. Aguirre GK, Singh R, ***D'Esposito M***. Timing and intensity of fusiform face area (FFA) responses to upright and inverted faces. Society for Neuroscience Abstracts, 24:898. (Presented at the Society of Neuroscience Meeting, Los Angeles, CA, November 1998)

89. Thompson-Schill SL, ***D'Esposito M***, Kan I. Double dissociations of frontal and temporal lobe contributions to semantic memory. Cognitive Neuroscience Society Abstracts, 6:23. (Presented at the Cognitive Neuroscience Society Meeting, Washington, DC, April 1999)

90. Raye CL, Nolde S, Mitchell KJ, ***D'Esposito M***, Johnson MJ. Activation of left prefrontal cortex during episodic memory tests: an fMRI study. Cognitive Neuroscience Society Abstracts, 6:23. (Presented at the Cognitive Neuroscience Society Meeting, Washington, DC, April 1999)

91. Postle BR, Berger JS, Taich AM, ***D'Esposito M***. Frontal cortical activity associated with spatial working memory and saccades: an event-related fMRI study. Cognitive Neuroscience Society Abstracts, 6:25. (Presented at the Cognitive Neuroscience Society Meeting, Washington, DC, April 1999)

92. Berger JS, Goldstein J, Postle BR, ***D'Esposito M*** . Updating task reveals episodic coding in working memory. Cognitive Neuroscience Society Abstracts, 6:35. (Presented at the Cognitive Neuroscience Society Meeting, Washington, DC, April 1999)

93. Kimberg D, Aguirre GK, ***D'Esposito M***. Neural activity associated with task-switching: an fMRI study. Cognitive Neuroscience Society Abstracts, 6:63. (Presented at the Cognitive Neuroscience Society Meeting, Washington, DC, April 1999)

94. Mitchell KJ, Druzghal J, Raye CL, Mather M, Johnson MJ, ***D'Esposito M***. Age-related memory binding deficits: behavioral and fMRI studies. Cognitive Neuroscience Society Abstracts, 6:71. (Presented at the Cognitive Neuroscience Society Meeting, Washington, DC, April 1999)

95. ***D'Esposito M***, Zarahn E, Aguirre GK, Rypma B. The variability of BOLD hemodynamic responses in young and elderly subjects: implications for fMRI studies of normal aging. Cognitive Neuroscience Society Abstracts, 6:72. (Presented at the Cognitive Neuroscience Society Meeting, Washington, DC, April 1999)

96. Rypma B, ***D'Esposito M***. The effects of age and processing speed in components of working memory. Cognitive Neuroscience Society Abstracts, 6:72. (Presented at the Cognitive Neuroscience Society Meeting, Washington, DC, April 1999)

97. Postle BR, Wheeler EZ, Awh E, Jonides J, Smith EE, ***D'Esposito M***. Lateralized modulation of visual perception by spatial working memory: evidence for the spatial attention model of spatial rehearsal from event-related fMRI. NeuroImage, 7: S895. (Presented at Human Brain Mapping, Düsseldorf, Germany, June 1999)

98. ***D'Esposito M***, Postle BR, Berger JS. The neural basis of the functional components of working memory: An event related fMRI study. Neurology, 52:305, 1999. (Presented at the American Academy of Neurology Meeting, Toronto, Canada, April 1999).

99. ***D'Esposito M,*** Postle BR, Berger JS, Taich AM. Quantitative analysis of prefrontal & parietal cortical activity, as measured with event-related fmri, during discrete components of delayed-response tasks. (Presented at the Society of Neuroscience Meeting, Miami, FL, November 1999).

100. Druzgal TJ, ***D'Esposito M.*** Modulation of prefrontal cortex and fusiform face area responses to increased working memory demand for faces. (Presented at the Society of Neuroscience Meeting, Miami, FL, November 1999).

101. Postle BR, ***D'Esposito M.*** Caudate nucleus mnemonic activity is greater during egocentric than allocentric spatial delayed response: evidence from event-related fmri and implications for cognitive models of working memory. (Presented at the Society of Neuroscience Meeting, Miami, FL, November 1999).

102. Rypma B, ***D'Esposito M.*** Age-differential prefrontal cortical activity in components of working memory. (Presented at the Society of Neuroscience Meeting, Miami, FL, November 1999).

103. Schumacher EH, ***D'Esposito M***. Neural correlates of executive processing in perceptual-motor task performance. (Presented at the Rotman Research Institute Conference, Toronto, Canada, March 2000).

104. Druzgal TJ, ***D'Esposito M***. Working memory for faces: an fMRI study of prefrontal and extrastriate visual cortex. (Presented at the Rotman Research Institute Conference, Toronto, Canada, March 2000).

105. Schumacher EH, ***D'Esposito M***. Neural mechanisms for stimulus encoding and response selection processing in the performance of a perceptual-motor task. Cognitive Neuroscience Abstracts, 7:113. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, April 2000).

106. Druzgal J, ***D'Esposito M***. Variation in working memory load for faces affects both the prefrotnal cortex (PFC) and fusiform face area (FFA): an event-related fMRI study. Cognitive Neuroscience Abstracts, 7:142. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, April 2000).

107. Schumacher EH, ***D'Esposito M***. The neural effect of practice on stimulus encoding and response selection processing for a visual-motor choice reaction task. Society for Neuroscience Abstracts, 26:1852. (Presented at the Society for Neuroscience Meeting, New Orleans, November 2000).

108. Druzgal TJ, ***D'Esposito M***. Behavioral relevance biases fusiform face area activity during a face recognition task: an fMRI study. Society for Neuroscience Abstracts, 26:283. (Presented at the Society for Neuroscience Meeting, New Orleans, November 2000).

109. Postle BR, Druzgal J, ***D'Esposito M***. Retention of the mnemonic representation of faces across delays in the ABBA working memory task in PFC and FFA. Society for Neuroscience Abstracts, 26:1337. (Presented at the Society for Neuroscience Meeting, New Orleans, November 2000).

110. ***D'Esposito M***. Postle BR. An evaluation of models of topographical organization of working memory function in frontal cortex with event-related fMRI. (Presented at the Society for Neuroscience Meeting, New Orleans, November 2000).

111. Rypma B, Berger JS, ***D'Esposito M***. The effects of increasing mnemonic demand and subject performance on prefrontal activity. (Presented at the Society for Neuroscience Meeting, New Orleans, November 2000).

112. Landau SM, Schumacher EH, Hazeltine E, Ivry R, ***D'Esposito M***. Frontal contributions to response competition and response selection during task switching. Cognitive Neuroscience Abstracts, 8:70. (Presented at the Cognitive Neuroscience Society Meeting, New York, March 2001).

113. List A, Schumacher EH, Robertson LC, ***D'Esposito M***. A fMRI study of object-and space-based visual attention. Cognitive Neuroscience Abstracts, 8:118 (Presented at the Cognitive Neuroscience Society Meeting, New York, March 2001).

114. Rypma B, Berger JS, McClintock C, ***D'Esposito M***. Relationships between neural activity and processing speed: FMRI activityduring performance of the Digit-Symbol Substitution Test. (Presented at the Cognitive Neuroscience Society Meeting, New York, March 2001).

115. Schumacher EH, ***D'Esposito M***. Practice affects information processing forperceptual-motor task performance. Cognitive Neuroscience Abstracts, 8:70. (Presented at the Cognitive Neuroscience Society Meeting, New York, March 2001).

116. Druzgal TJ, ***D'Esposito M***. Anterior cingulate cortex and fusiform face area: a neural network reflecting decisions about faces. Cognitive Neuroscience Abstracts, 8:90. (Presented at the Cognitive Neuroscience Society Meeting, New York, March 2001).

117. Curtis CE, ***D'Esposito M***. Event-related functional magnetic resonance imaging of antisaccade task performance. Cognitive Neuroscience Society Abstracts, 8:71. (Presented at the Cognitive Neuroscience Society Meeting, New York, NY, April 2001)

118. Schumacher EH, List A, Robertson LC, ***D'Esposito M***. Object- and spaced-based visual attention in the Human Brain. NeuroImage, 13, S356. (Presented at the Organization for Human Brain Mapping Meeting, Brighton, England, June 2001).

119. Gibbs, SEB, Schumacher, EH, ***D'Esposito, M***. The effects of stimulus discriminability and memory load on prefrontal activity during a working memory task. (Presented at the Society for Neuroscience Meeting, San Diego, November 2001).

120. Druzgal TJ, Ranganath C, ***D'Esposito M***. Interactions Between familiarity and decision-making in prefrontal and anterior cingulate Cortex. (Presented at the Society for Neuroscience Meeting, San Diego, November 2001).

121. Ranganath C, Druzgal TJ, ***D'Esposito M***. Temporal dynamics of prefrontal activity across working and long-term memory tasks. (Presented at the Society for Neuroscience Meeting, San Diego, November 2001).

122. Degutis JM, Druzgal TJ, ***D'Esposito M***. Face working memory modulates stimulus specific and nonspecific regions of visual cortex. (Presented at the Society for Neuroscience Meeting, San Diego, November 2001).

123. Landau SM, Schumacher, EH, Druzgal TJ, Garavan H, ***D'Esposito, M***. Practice affects different stages of working memory processes: an fMRI study learning-related changes in the prefrontal cortex. (Presented at the Society for Neuroscience Meeting, San Diego, November 2001).

124. Schumacher, EH, ***D'Esposito, M***. Parametric manipulation of response-selection processing in the human brain. (Presented at the Society for Neuroscience Meeting, San Diego, November 2001).

125. Curtis CE, ***D'Esposito, M***. Dorsal frontal cortical contributions to inhibitory control: fMRI evidence from an antisaccade task. (Presented at the Society for Neuroscience Meeting, San Diego, November 2001).

126. Rypma B, Duncan J, Berger JS, McClintock CM, ***D'Esposito, M***. Neural correlates of individual differences in executive control: an event-related fMRI study of processing speed and learning. (Presented at the Society for Neuroscience Meeting, San Diego, November 2001).

127. Schumacher EH, Hazeltine E, Brodsky KL, Elston PA, Landau SM, Ivry R, ***D'Esposito M.*** Dissociating response selection, response competition, and other processes involved in task switching. (Presented at the Cognitive Neuroscience Society meeting, San Francisco, CA, April 2002).

128. Schumacher EH, Hazeltine E, Ivry R, ***D'Esposito M***. Identifying distinct cognitive processes during task switching. (Presented at the Society for Neuroscience Meeting, Orlando, November 2002).

129. Handwerker DA, Ollinger JM, Curtis CE, ***D'Esposito M***. Effects of regional and subject variability of the hemodynamic response function on modeling fMRI signals. (Presented at the Society for Neuroscience Meeting, Orlando, November 2002).

130. Sun FT, Miller LM, Curtis CE, ***D'Esposito M***. Using coherence of inter-regional fMRI time-series as an index of functional connectivity. (Presented at the Society for Neuroscience Meeting, Orlando, November 2002).

131. Boettiger CA, Alexander HR, Schumacher EH, ***D'Esposito M***. Neural Correlates of learning arbitrary stimulus-response associations. (Presented at the Society for Neuroscience Meeting, Orlando, November 2002).

132. Miller LM, Sun FT, Curtis CE, ***D'Esposito M***. Prefrontal and parietal interactions with oculomotor control centers differ during pro- and antisaccades. (Presented at the Society for Neuroscience Meeting, Orlando, November 2002).

133. Gibbs SEB, ***D'Esposito M***. Effects of a dopaminergic agonist on working memory performance assessed with fMRI. (Presented at the Society for Neuroscience Meeting, Orlando, November 2002)

134. Gibbs SEB, ***D'Esposito M***. Effects of a dopaminergic agonist on working memory performance assessed with fMRI. (Presented at the Society for Neuroscience Meeting, Orlando, November 2002)

135. Deouell LY, Heller A, ***D'Esposito M,*** Knight RT.MRI BOLD responses to changes in sound location, (Presented at MMN03 - Third International Workshop on Mismatch Negativity and Auditory Functions and Dysfunctions, Lyon, France, May 2003)

136. Fiebach CJ, ***D'Esposito M***. A neural mechanism for phonological maintenance in verbal working memory: Involvement of bottom-up phonological speech areas in verbal working memory. (Presented at the Cognitive Neuroscience Society Meeting, New York, NY, April 2005).

137. Gazzaley A, Cooney JW, ***D'Esposito M***. Cholinergic regulation of top-down modulation in visual processing. (Presented at the Cognitive Neuroscience Society Meeting, New York, NY, March 2005)

138. Rajah, MN, ***D'Esposito M***. Age-related differences in prefrontal involvement during temporal order memory and strategic organization. (Presented at Cognitive Neuroscience Society meeting, New York, NY, April 2005).

139. Duverne S, ***D'Esposito M***. Prefrontal and parietal network mediating strategy use in arithmetic problem solving. (Presented at the Cognitive Neuroscience Society meeting, New York, NY, April 2005).

140. Krawczyk DC, Modi RH, Bendig B, ***D'Esposito M.*** An fMRI study of working memory and reward in orbital and lateral prefrontal cortex. (Presented at the Cognitive Neuroscience meeting, New York, NY, April 2005).

141. Sheridan M, Moshkovich J, Hinshaw S, ***D'Esposito M***. Working Memory on and off Stimulant Medication in Adolescents with ADHD. (Presented at the Cognitive Neuroscience Society meeting, New York City, NY, April 2005).

142. Bentin S, Degutis, J, ***D'Esposito M***, Robertson LC. What is the function of the FFA? The case of K**.** (Presented at the Cognitive Neuroscience Society meeting, New York City, NY, April 2005).

143. Postle BR, Awh E, Serences JT, ***D'Esposito M***. fMRI evidence for a cue-based component of the overlap effect in object working memory. (Presented at the Cognitive Neuroscience Society meeting, New York City, NY, April 2005).

144. Hooker CI, Germine LT, Knight RT, ***D'Esposito M***. Neural mechanisms mediating the flexible representations of cognitive and affective associations. (Presented at the Cognitive Neuroscience Society meeting, New York City, NY, April 2005).

145. Hoffman JN, Yoon JH, ***D'Esposito M***. Modulation of Working Memory by Emotionally Valenced Stimuli (Presented at the Cognitive Neuroscience meeting, New York, NY, April 2005).

146. Yoon JH, Hong T, ***D'Esposito M***. Maintenance of Mnemonic Information in the Dorsolateral Prefrontal Cortex (Presented at the Cognitive Neuroscience meeting, New York, NY, April 2005).

147. Chen AJW, Thompson TW, Chu E, Swain S, Lee J, Wang K, Gazzaley A, ***D'Esposito M***. "fMRI-based neural learning curves show increasing top-down modulation during attention practice." Presented at the Society for Neuroscience Annual Conference, Washington, DC, November 2005.

148. Cools R, Jacobs EC, Altamirano L, Sheridan M, Kelley E, ***D'Esposito M***. Dopamine D2 Receptor Stimulation Potentiates BOLD Activity in the Striatum During Attentional Switching in Visual Working Memory. (Presented at the Society for Neuroscience conference, Washington DC, November 2005)

149. Cooney JW, Gazzaley A, ***D'Esposito M***. Frontal Lobe Lesions Impair Top-Down Modulation of Visual Processing: fMRI Evidence (Presented at the Society for Neuroscience meeting, Washington, DC, November 2005).

150. Hoffman JN, Gazzaley A, Gibbs SEB, ***D'Esposito M***. Effects of Dopaminergic Stimulation on Top-Down Processing of Visual Information (Presented at the anual conference of the Society for Neuroscience. Washington DC, November 2005).

151. Kane A, Gazzaley A, ***D'Esposito M***. Influence of working memory load on top-down modulation of visual processing (Presented at the Society for Neuroscience meeting, Washington DC, November 2005).

152. Krawczyk DC, Modi RH, ***D'Esposito M***. The influence of motivation through loss-aversion on human visual working memory (Presented at the Society for Neuroscience Meeting, Washington, DC, November 2005).

153. Gazzaley A, ***D'Esposito M***. The Effect of Non-visual Working Memory Load on Top-down Modulation of Visual Processing. (Presented at the Society for Neuroscience meeting, Washington, DC, November 2005).

154. ***D'Esposito M.*** Neural mechanisms underlying cognitive control. (Presented at the Interdisciplinary Conference on Human Performance, San Diego, CA).

155. Chen AJW, Thompson TW, La C, Sedley J, Sheng T, Nir T, Gazzaley A, ***D'Esposito M***. Dissociable effects of attention practice on prefrontal and visual cortex activity. (Presented at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA, April 2006).

156. Chen, AJW, Thompson TW, Lee J, Gazzaley A, ***D'Esposito M***. "Neural changes induced by cognitive task practice: An fMRI model for studying cognitive rehabilitation." Presented at the American Academy of Neurology Annual Conference, April 2006.

157. Thompson TW, Chen AJW, Wang K, Gazzaley A, **D'Esposito M**. Connectivity analyses demonstrate changes in functional integration during practice of a selective attention task. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, April 2006).

158. Krawczyk DC, ***D'Esposito M***. Regional representations of incentives in a working memory task (Presented at the Cognitive Neuroscience Meeting, San Francisco, CA, April 2006).

159. ***D'Esposito M.*** Where is the "top" in top down-control? (Presented at the Interdisciplinary Conference on Human Performance, Orlando, FL, March 2006).

160. Millman J, ***D'Esposito M*** Data and Analysis Management for Functional Magnetic Resonance Imaging Studies. (2nd Presented at the International Conference on Data Management for Real-Life Problems in Biomedicine (DMRB 2006, San Diego, CA, June 2006)

161. Altamirano LJ, Kelley EA, Fields HL, ***D'Esposito M***, Boettiger CA. Opioid regulation of impulsive responding under the influence of alcohol (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

162. Boettiger CA, Mitchell JM, Tavares VC, ***D'Esposito M***, Fields HL. Alcoholism and the neural circuits underlying impulsive choice selection and suppression (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

163. Badre D, ***D'Esposito M***. FMRI evidence for a hierarchic organization of control in prefrontal cortex (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

164. Krawczyk DC, Jiang J, ***D'Esposito M***. Reward Modulation of Visual Working Memory through Timing. (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

165. Gazzaley A, ***D'Esposito M***. A capacity-limited working memory control mechanism in the posterior frontolateral cortex Reward Modulation of Visual Working Memory through Timing. (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

166. Gibbs SEB, Cools R, Miyakawa A, ***D'Esposito M.*** Bromocriptine modulates prefrontal activity during working memory encoding and retrieval. (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

167. Silver MA, Shenhav A, ***D'Esposito, M.*** Cholinergic enhancement decreases spatial spread of visual responses in human primary visual cortex. (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

168. Kayser AS, Sun FT, ***D'Esposito M***. Granger causality, coherency, and mutual information in fMRI analyses: a comparison. (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

169. Buchsbaum B, ***D'Esposito M***. Repetition suppression and reactivation in verbal short-term memory. (Presented at the Society for Neuroscience meeting, Atlanta GA, November 2006).

170. Fegen D, Chen A, Koralek A, Hoffman J, Gazzaley A, ***D'Esposito M.*** Cholinergic Enhancement Increases Representation Selectivity in Visual Association Cortex (To be presented at the Cognitive Neuroscience Society Meeting, New York NY, May 2007).

171. Miller BT, Badre D, Konkel A, Cohen NJ, ***D'Esposito M***. Prefrontal and Hippocampal Contributions to the Active Maintenance of Item and Relational Representations in Working Memory (Presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY, 2007)

172. Chen AJW, Britton M, Thompson TW, ***D'Esposito M***. Sharpening of neural representations: a mechanism of top-down control over information processing by selective attention. (Presented at the Cognitive Neuroscience Society, New York City, NY, May 2007).

173. Badre D, ***D'Esposito M***. Temporal dynamics and representational selection in frontal polar cortex. (Presented at the Cognitive Neuroscience Society meeting, New York, NY, May 2007).

174. Lauritzen T, Shenhav A, ***D'Esposito M***, Silver M. Functional magnetic resonance imaging (fMRI) coherency analysis reveals feedforward progression of visual responses in human early visual cortex. (Presented at the Optical Society of America, Berkeley, CA, September 2007).

175. Koralek A, Badre D, Miller BT, Konkel A, Cohen NJ, ***D'Esposito M***. Prefrontal and hippocampal contributions to relational versus item memory: short-term and long-term effects. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2007).

176. Kayser A, ***D'Esposito M***. An fMRI study of early learning with minimal practice. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2007).

177. Badre D, Krienen F, ***D'Esposito M***. Cognitive control in frontal polar cortex: Abstract representations versus the temporal organization of behavior. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2007).

178. Bressler D, Badre D, and ***D'Esposito M***. A new technique for analyzing the informational content of activity patterns in the brain. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2007)

179. Miller BT, ***D'Esposito M***. Prefrontal Contributions to Category Selectivity in Visual Association Cortex: A Combined rTMS/fMRI Study. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2007).

180. Van Veen V, Loharuka S, ***D'Esposito M***. Frontal and posterior corticalregions in the control of attention and speed-accuracy tradeoff. (Presented at the Society for Neuroscience meeting, San Diego CA, November, 2007).

181. Chen, AJW, Nir TM, Britton M, ***D'Esposito M***. Functional MRI correlates of extended selective working memory training. (Presented at Society for Neuroscience, San Diego, CA, November 2007)

182. Britton M, Chen AJW, Hoffman J, Gibbs S, ***D'Esposito M***. Modulation of dopamine function alters attentional control of visual processing. (Presented at Society for Neuroscience, San Diego, CA, November 2007)

183. Fegen DA, Buchsbaum B, Chen AJW, Cooney J, ***D'Esposito M***. Acetylcholine increases the distinctiveness of distributed cortical representations. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2007).

184. Novakovic-Agopian T, Rome S, Britton, M. ***D'Esposito M***, Chen AJW. Rehabilitation of Executive Functioning with Goal Self Management Training: Pilot neuropsychological, functional and fMRI data. (Presented at the International Neuropsychological Society Meeting, February 2008)

185. Koralek A, Badre D, & ***D'Esposito M***. Benefiting from Hierarchy: Interactions Between Levels of Control in the Prefrontal Cortex. (Presented at the Cognitive Neuroscience Society meeting, San Francisco, CA, April 2008).

186. Turner GR, Chen AJW, Song S, Nycum T, ***D'Esposito M***. Learning to ignore the irrelevant: behavioral and neural correlates of targeted practice on a novel selective attention task. (Presented at the Cognitive Neuroscience Society Meeting, San Francisco, CA, April 2008).

187. Jacobs E, Cools R, ***D'Esposito M.*** Hormonal and genetic influences on prefrontal cortical function. (Presented at the Cognitive Neuroscience Society meeting, San Francisco, CA, April 2008).

188. Chen AJW, Nycum T, Britton MS, ***D'Esposito M***. Neural bases of goal-directed selection of information for working memory. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, April 2008).

189. Cools R, Gibbs S, Miyakawa A, Jagust W, ***D'Esposito M***. Predicting individual differences in dopamine-induced reward and punishment biases. A psychopharmacological PET study. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, April 2008).

190. Erickson D, Buchsbaum B, Kayser A, ***D'Esposito M***. Accumulating Evidence for an Accumulator: an fMRI study. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, April 2008).

191. Finn A, Nycum T, Britton MS, ***D'Esposito M***. Neural bases of goal-directed selection of information for working memory. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, April 2008).

192. Pradhan S, Fegen D, ***D'Esposito M***. The effect of prefrontal cortical lesions on category selectivity in visual association cortex. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, April 2008).

193. Sheridan M, Sarsour K, ***D'Esposito M,*** Boyce WT. Establishing a relationship between prefrontal cortex function, socioeconomic status and cortisol reactivity in children. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, April 2008).

194. Finn A, Sheridan M., Hinshaw S, ***D'Esposito M***. Developmental changes in prefrontal and hippocampal connectivity during working memory: a longitudinal fMRI study. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, April 2008).

195. Novakovic-Agopian T, Rome S, Song S, McKim R, Castelli H, Britton M, Rossi A, Abrams G, ***D'Esposito, M***, Chen A. Rehabilitation of executive functioning with goal self management training: theory, application and pilot study results. (Presented at the National Polytrauma System of Care Conference, San Diego, CA, June 2008).

196. Kayser AS, Badre D, Sakanaka K, Erickson DT, ***D'Esposito M***. The rostro-caudal axis of the frontal lobe and learning of hierarchical rules. (Presented at the Society for Neuroscience meeting, Washington DC, November 2008).

197. Finn AS, Buchsbaum BR, Hudson Kam CL, ***D'Esposito M***. Neural mechanisms underlying implicit, auditory-verbal sequence learning in children. (Presented at the Society for Neuroscience meeting, Washington, DC, November 2008).

198. Erickson DT, Buchsbaum, B, Kayser AS ***D'Esposito M***. Diffusion, accumulation, and decisions - an fMRI study. (Presented at the Society for Neuroscience meeting, Washington, DC, November 2008).

199. Purmann S, Fiebach CJ., ***D'Esposito M***. Suppression of task irrelevant information as a mechanism of task-set induced attentional control in the Stroop task. (Presented at the Cognitive Neuroscience Society, San Francisco, CA, March, 2009)

200. Nomura EM, Gratton C, ***D'Esposito M***. Effect of TMS on Coherence of Resting State Networks. (Presented at the Organization for Human Brain Mapping, San Francisco, CA, June 2009)

201. Vytlacil, J, Gibbs, S, Chen, A, ***D'Esposito, M.*** Dopamine levels modulate the effects of attention on activation patterns in visual association cortex (presented at the Organization for Human Brain Mapping, San Francisco, CA, June 2009)

202. Wallace DL, Vytlacil, J., Gibbs, S., Nomura, E., ***D'Esposito, M.*** The effect of dopamine on functional connectivity, working memory and individual differences (presented at the Organization for Human Brain Mapping, San Francisco, CA, June 2009)

203. Jacobs E, ***D'Esposito M.*** Individual differences in cognition: How a person's hormonal state and genetic background impacts prefrontal cortical function. (Presented at the Organization for Human Brain Mapping, San Francisco, CA, June 2009)

204. Song S, Turner G, Jacobs E, Nycum T, ***D'Esposito M***, Chen A. Attention reduces variability of goal-relevant perceptual representations within visual association cortex. (Presented at the Organization for Human Brain Mapping, San Francisco, CA, June 2009)

205. Jacobs EC, ***D'Esposito M***. Estrogen shapes dopamine-dependent cognitive processes in prefrontal cortex. (Presented at the Society for Neuroscience meeting, Chicago, IL, October 2009).

206. Nomura EM, Visser RM, Gratton C, ***D'Esposito M***. Altered resting state functional connectivity following focal brain lesions: support fro the dual-networks hypothesis of top-down control. (Presented at the 39th Annual Society for Neuroscience meeting, Chicago, IL, October 2009)

207. Blumenfeld RS, ***D'Esposito, M***. Distinguishing the roles of prefrontal subregions during long-term memory encoding. (Presented at the Society for Neuroscience meeting, Chicago, IL, October 2009)

208. Fegen D, Buchsbaum B, ***D'Esposito M***. Network Dynamics Responsible for Maintaining Task-Relevant Information. (Presented at the Society for Neuroscience meeting, Chicago, IL October 2009)

209. Miyakawa A, Cools R, Vytlacil J, Wallace DL, ***D'Esposito M***. Dopaminergic modulation of distractor-resistance during working memory performance as a function of trait impulsivity as a function of trait impulsivity; a pharmacological fMRI study. (Presented at the Society for Neuroscience meeting, Chicago, IL, October 2009).

210. Cohen JR, Sreenivasan KK, ***D'Esposito, M***. Successful working memory maintenance recruits regions involved in encoding. (Presented at the Organization for Human Brain Mapping meeting, Barcelona, Spain, June 2010)

211. Miyakawa A, Klemfuss N, Wallis JD, Cools R, ***D'Esposito M***, Ivry RB Neural Correlates of Well-Learned Choices. (Presented at the Human Brain Mapping meeting, Barcelona, Spain, June 2010)

212. Nomura EM, Gratton C, Perez F, ***D'Esposito M***. Dissociable Effects of Focal Brain Lesions on Cognitive Control Networks. (Presented at the Organization for Human Brain Mapping, Barcelona, Spain, June 2010)

213. Gratton C, Nomura E, Perez F, ***D'Esposito M***. Effects of frontal lesions on distal cortical network properties. (Presented at the Organization for Human Brain Mapping meeting, Barcelona, Spain, June 2010)

214. Vytlacil J, Asako M, ***D'Esposito M***. Dopamine levels mediate resting connectivity between midbrain ROIs and prefrontal cortex (Presented at the Organization for Human Brain Mapping meeting, Barcelona, Spain, June 2010)

215. Novakovic--Agopian T, Chen AJW, Rome S, Rossi A, McKim R, Turner G, Garfinkle J, Kennedy C, Castelli H, Abrams G, Muir M, ***D'Esposito M.*** Assessment of Sub Assessment of Sub--components of Executive Functioning in Ecologically Valid Setting components of Executive Functioning in Ecologically Valid SettingGoal Processing Scale Goal Processing Scale (Presented at the American Neurological Association Meeting, San Francisco, CA, October 2010)

216. Cohen JC, Jacobs EC, ***D'Esposito M***. The connectivity of intrinsic, task-independent networks during working memory. (Presented at the Society for Neuroscience meeting, San Diego CA, November 2010).

217. Willems RM, Labruna, L ***D'Esposito M***, Ivry R & Casasanto D. A functional role for the motor system in language understanding. (Presented at the Society for Neuroscience meeting, San Diego CA, October 2010)

218. Lee, T., ***D'Esposito, M***. TMS Induced Deactivation of Prefrontal Cortex Alters Enhancement of Task-Relevant Representation in Extrastriate Cortex. (Presented at the Society for Neuroscience Meeting, San Diego, CA, October 2010)

219. Nomura EM, Gratton C, Lee T, Yousef S, ***D'Esposito M***. TMS induced deactivation of PFC alters category selectivity in extrastriate cortex. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2010)

220. Sreenivasan KK, Gratton C, Vytlacil J, ***D'Esposito M***. Contributions of prefrontal and extrastriate cortex to visual working memory maintenance. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2010).

221. Wallace DL, Vytlacil JJ, Motes M, Rypma B, Kayser AK, and ***D'Esposito M***. The relationship between body mass index and cognitive efficiency: a dopaminergic fMRI pharmacological study. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2010).

222. Brozinsky CJ, Yee LTS, Cohen NJ, ***D'Esposito M***. Hippocampal and behavioral contributions to recollection at short delays. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2010).

223. Kayser AS, Badre D, ***D'Esposito M***. Effects of prefrontal lesions on the acquisition of abstract action rules. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2010).

224. Novakovic-Agopian T, Chen A, Rome S, Rossi A, Murphy M, Abrams G, ***D'Esposito M***. Long term effects of executive functioning training in attention regulation applied to individually defined goals. (Presented at the Palo Alto VA TBI Research Meeting, Palo Alto, CA, March 2011).

225. Novakovic-Agopian t, Chen A, Rome S, Rossi A, Abrams G, ***D'Esposito M***. Assessment of sub-components of executive functioning in ecologically valid setting: the goal processing scale. (Presented at the American Academy of Neurology Annual Meeting, Honolulu, HI, April 2011).

226. Blumenfeld, R.S. Lee, T., Fidalgo, A. and ***D'Esposito, M***. The effects of lateral prefrontal theta-burst stimulation on item memory encoding. (Presented at Cognitive Neuroscience Society meeting, San Francisco, April 2011).

227. Sreenivasan KK, Gratton C, Vytlacil JJ, and ***D'Esposito M***. Contributions of prefrontal cortex, basal ganglia, and extrastriate cortex to visual working memory maintenance. (Presented at the Cognitive Neuroscience Society meeting, San Francisco, CA, April 2011).

228. Fegen, D., Buchsbaum, B., and **D'Esposito, M.** Role of Individual Cortical Areas and Network Dynamics in Maintaining Task-Relevant Information. (Poster presented at Cognitive Neuroscience Society meeting, San Francisco, CA., 2011)

229. Nomura EM, Gratton C, Perez F, ***D'Esposito M***. Changes in the composition of modules following focal brain lesions. (Presented at the Organization for Human Brain Mapping meeting, Quebec City Canada, June 2011)

230. Blumenfeld, R.S., Nomura, E.M., Gratton, C. and ***D'Esposito, M***. Distinct dorsal and ventral rostro-caudal gradients evident in resting-state connectivity (Presented at Organization for Human Brain Mapping meeting, Quebec City, July 2011)

231. Cameron IG, **D'Esposito M**, and Munoz DP. Task-related top-down control in response switching from Granger Causality Mapping of fMRI data. (Presented at the Organization for Human Brain Mapping meeting, Quebec City, QC,June 2011).

232. Brozinsky, CJ, ***D'Esposito, M***. Prefrontal and medial temporal contributions to recognition over short retention intervals. (Presented at the Organization for Human Brain Mapping meeting, Quebec City, Quebec, Jun, 2011)

233. Blumenfeld, R.S. Lee, T., Fidalgo, A. and ***D'Esposito, M***. The effects of lateral prefrontal theta-burst stimulation on item memory encoding. (Presented at Bay Area Memory Meeting, Berkeley, August 2011)

234. Cameron IG, ***D'Esposito M***, and Munoz DP. Task-related top-down control in response switching from Granger Causality Mapping of fMRI data. (Presented at the Organization for Human Brain Mapping meeting, Quebec City, QC, November 2011).

235. Cohen JR and ***D'Esposito M***. The comparison of task-related networks and resting state networks during working memory. (Presented at Organization for Human Brain Mapping meeting, Quebec City, Canada, June 2011).

236. Bahlmann J, Blumenfeld RS, and ***D'Esposito M***. The rostro-caudal gradient of the lateral PFC is sensitive to the input domain. (Presented at the Societyfor Neuroscience meeting, Washington, DC, November 2011).

237. Gratton C, Sreenivasan, KK, Silver, M, ***D'Esposito M***. Effects of feature-based attention on voxel tuning curves for individual faces. (Presented at the Society for Neuroscience meeting, Washington, DC,November 2012).

238. Lee TG, Blumenfeld RS, **D'Esposito M**. Disruption of Prefrontal Cortical Function Improves Memory Performance Without Awareness. (Presented at the Society for Neuroscience meeting, Washington, DC, November 2011).

239. Fegen, D., Buchsbaum, B., ***D'Esposito, M***. Separating the Effects of Memory Load and Rehearsal Rate in Verbal Working Memory. (Poster presented at Society for Neuroscience meeting, Washington DC, 2011).

240. Vytlacil J, Sreenivasan K, and ***D'Esposito M***. Decoding reveals the temporal evolution of working memory representations in prefrontal and extrastriate cortices (Presented at the Society for Neuroscience meeting, Washington, DC, November 2011).

241. Sreenivasan KK, Vytlacil JJ, and ***D'Esposito M***. Functional and temporal characteristics of intra- and inter-regional working memory activity. (Presented at the Society for Neuroscience meeting, Washington, DC, November 2011).

242. Chiong W, Wilson SM, ***D'Esposito M***, Zhou J, Grossman SN, Poorzand P, Miller BL, Rankin KP. Decreased default mode network activation during personal moral judgment in frontotemporal dementia. (Presented at the Society for Neuroscience meeting, Washington, DC, November 2011).

243. Yee, L.T.S., Brozinsky, C.J., ***D'Esposito, M.***, & Cohen, N.J. (*accepted).* Relational memory retrieval at short delays under interference from recently encountered associations. (Presented at the Society for Neuroscience Conference, Washington, D.C, Nov, 2011)

244. Novakovic-Agopian T, Chen A, Rome S, Rossi A, Murphy M, Binder D, Abrams G, Muir J, Castelli H, Fitzsimmons R, ***D'Esposito, M***, Long Term Effects of Executive Functioning Training in Attention Regulation Applied to Individually Defined Goals. (Presented at the Santa Clara Valley Brain Injury Conference, San Jose, CA, February, 2012.

245. Gratton C, Sreenivasan, KK, Silver, M, ***D'Esposito M***. Effects of feature-based attention on voxel tuning curves for individual faces. (Presented at the Vision Science Society meeting, Naples, FL, May 2012)

246. Novakovic-Agopian t, Chen A, Abrams G, Rossi A, Binder D, Muir J, Murphy M, Carlin G, McKim R, Fitzsimons R. ***D'Esposito M***. Goal-oriented attention regulation training in veterans with chronic TBI. (Presented at the American Academy of Neurology Annual Meeting, Chicago, Il, May, 2012).

247. Cohen JR, Gratton C, and ***D'Esposito, M***. Variability in brain modularity is related to variability in behavior. (Presented at the Society for Neuroscience meeting, New Orleans, LA, October 2012).

248. Gallen CL, Gratton C, Nomura EM, Turner GR, and ***D'Esposito M***. Changes in the modular organization of the brain in healthy aging. (Presented at the Society for Neuroscience meeting, New Orleans, LA, October 2012).

249. Sadaghiani S, ***D'Esposito M***. Dissociating brain networks for alertness and selective attention. (Presented at the Society for Neuroscience meeting, Washington, DC, November 2011).

250. Sreenivasan KK, Vytlacil JJ, and ***D'Esposito M***. Distractor-resistant working memory representations revealed by decoding analysis. (Presented at the Society for Neuroscience meeting, New Orleans, LA, November 2012).

251. Begany K, Nomura E, Gratton C, Chen A, ***D'Esposito M***. Individual differences in response of brain injury patients to cognitive rehabilitation: evidence from analyses of functional brain networks. (Presented at the Society for Neuroscience meeting, New Orleans, LA, October 2012).

252. Gratton, C., Lee, T., Nomura, EM., ***D'Esposito, M***. The effect of theta-burst TMS on cognitive control networks. (Presented at the Society for Neuroscience meeting, Washington DC, October 2012)

253. Vytlacil JJ, Sreenivasan KK, ***D'Esposito M***.. Dopamine improves working memory by enhancing extrastriate cortical representations of memory items. (Presented at the Society for Neuroscience meeting, New Orleans, LA. October 2012)

254. Wallace DL, Aarts E, Dang L, Greer SM, Jagust WJ, ***D'Esposito M***. The effects of striatal dopamine on body mass index and decision-making related to food choice. (Presented at the Society for Neuroscience meeting, New Orleans, LA, October 2012).

255. White RL, Aarts E, and ***D'Esposito M***. Dopamine-dependent changes in resting state brain network modularity predict differences in working memory response variability (Presented at the Society for Neuroscience meeting, New Orleans, LA, October 2012)

256. Novakovic-Agopian t, Chen A, Abrams G, Murphy M, Rossi A, Binder D, Muir J, ***D'Esposito M***. Training in attention regulation applied to individually defined goals in veterans with chronic TBI. (Presented at the International Neuropsychological Society Meeting, Oahu, HI, Feb, 2013).

257. White RL, Aarts E, and ***D'Esposito M***. Interactions of Resting State Brain Networks, Dopamine, and Working Memory Behavior: A Resting State Functional MRI Study (Presented at the Annual Meeting of the American Academy of Neurology, San Diego, CA, March 2013).

258. Shah M, Chen A, Begany K, Nycum T, Vas A, Yang FG, Krawczyk D, ***D'Esposito M***, Chapman S. Targeted Cognitive Training Improves the Clarity of Neural Representation of Goal-Relevant Stimuli in Individuals with Traumatic Brain Injury (Presented at the Annual Meeting of the American Academy of Neurology, San Diego, CA, March 2013).

259. Blumenfeld, R.S., Bliss, D.P., Perez, F. and ***D'Esposito, M***. Building connectomes from the CoCoTools database using CoCoTools. (Poster presented at Cognitive Neuroscience Society meeting, San Francisco, CA, 2013).

260. Fegen, D., Buchsbaum, B., and ***D'Esposito, M***. Timing and Functional Connectivity of Cortical Regions Subserving Verbal Encoding and Rehearsal. (Poster presented at Cognitive Neuroscience Society meeting, San Francisco, CA., 2013).

261. Novakovic-Agopian T, Chen A, Abrams G, Rome S, Rossi A, Murphy M, Binder D, Muir J, Carlin G, Fitzsimmons R, Loya F, Burhns M, Rodriquez N, ***D'Esposito, M***, Long Term Effects of Executive Functioning Training in Chronic Brain Injury. (Presented at the National Academy of Neuropsychology, San Diego CA, October, 2013.

262. Cohen, JR., Barber AD., Nebel MB., ***D'Esposito, M***, Mostofsky, SH. Global brain organization is disrupted in children with ADHD. (Presented at the Society for Neuroscience meeting, San Diego CA, November 2013.

263. Dombert, PL., Sadaghiani, S., Løvstad, M., Funderud, I., Knight, RT., Solbakk, A-K., ***D'Esposito, M***. Lesion to the fronto-parietal adaptive control network impacts alpha-band phase synchrony. (Presented at the Society for Neuroscience meeting, Washington DC, October 2012)

264. Gratton C., Galen, C., ***D'Esposito, M***. Focal lesions lead to functional plasticity in the roles of individual brain regions within large-scale networks. (Presented at the Society for Neuroscience meeting, San Diego, CA, November 2013)

265. Gallen CL, Turner GR, Gratton C, Novakavic-Agopian T, Chen AJW, ***D'Esposito, M***. Changes in functional brain network organization after executive control training in older adults. (Presented at the Society for Neuroscience Meeting, San Diego CA, November 2013)

266. Chiong, W., Wood, KA., Kayser, AS., ***D'Esposito, M***., Rosen, HJ., Miller, BL., Kramer, JH. Neuroeconomic and clinical correlates of impulsivity in frontotemporal dementia. (Presented at the Society for Neuroscience meeting, San Diego CA, November 2013).

267. Rahnev, D., Larson, A., ***D'Esposito, M***. Causal mapping of lateral prefrontal regions to separate stages of perceptual decision-making. (Presented at the Society for Neuroscience meeting, San Diego, November 2013)

268. Novakovic-Agopian t, Chen A, Abrams G, Murphy M, Rossi A, Binder D, Muir J, Carlin G, Loya F, Madore M. Fitzsimmons R. Rodriguez N, Pool E, Kiely T. Kossman A, ***D'Esposito M***. Short and long term outcome of GOALs executive function training in veterans with chronic TBI. (Presented at the International Neuropsychological Society Meeting, Seattle, WA, Feb, 2014).

269. Chiong W, Wood KA, Kayser AS, ***D'Esposito, M***, Rosen H, Miller BL, Kramer. Neuroeconomic Measures of Impaired Decision-Making in Frontotemporal Dementia. (Presented at the Annual Meeting of the American Academy of Neurology, Philadelphia, April, 2014).

270. Rahnev, D., Larson, A., ***D'Esposito, M***. Distinguishing three prefrontal processes in perceptual decision-making: A TMS-fMRI study. (Poster presented at Cognitive Neuroscience Society meeting, Boston, MA., April, 2014).

271. Nee, D.E. ***D'Esposito, M***. The Organization of Prefrontal Cortex by Content and Control. (Poster presented at the Cognitive Neuroscience Society meeting, Boston, MA, 2014)

272. Bertolero, M.A., ***D'Esposito, M***. There Is No "Best" Brain Parcellation for Complex Brain Networks —One Parcellation Is Not Sufficient. (Presented at the Society for Neuroscience Meeting, Washington DC, November 2014)

273. Gallen CL, Turner GR, Adnan A, ***D'Esposito, M.*** Task-based reorganization of brain networks in healthy aging. (Presented at the Society for Neuroscience Meeting, Washington DC, November 2014)

274. Sreenivasan KK, Vytlacil J, ***D'Esposito M***. Electrocorticographic correlates of high-precision working memory maintenance. (Presented at the Society for Neuroscience Meeting, Washington DC, November 2014).

275. Riddle JM, Cameron IGM, Rahnev D, ***D'Esposito M***. Investigation of network connectivity with simultaneous TMS-fMRI. Presented at the Society for Neuroscience Meeting, Washington DC, November 2014

276. Rahnev D, Koizumi A, Lau H, and ***D'Esposito M***. Confidence leak between independent tasks. Presented at the Vision Science Society meeting, St. Pete Beach, FL, May 2015.

277. Lorenc ES, Lee TG, Chen A, ***D'Esposito M***. Disruption of prefrontal cortical function with TMS disrupts goal-directed visual processing. (Presented at the Organization for Human Brain Mapping Meeting, Honolulu, HI, June 2015)

278. Nee DE, ***D'Esposito M***. Evidence for a hierarchical functional organization of the lateral prefrontal cortex. (Presented at the Organization for Human Brain Mapping Meeting, Honolulu HI, June 2015)

279. Hwang, K, ***D'Esposito M***. (2015). Cortical connectomal diaschisis in patients with subcortical thalamic or striatal lesions. (Presented at the Organization for Human Brain Mapping Meeting, Honolulu, HI, June 2015).

280. Sreenivasan KK, Vytlacil J, ***D'Esposito M***. Electrocorticographic correlates of high-precision working memory maintenance. (Presented at the Society for Neuroscience Meeting, Washington DC, November 2014).

281. Lorenc ES, Sreenivasan KK, Vandenbroucke ARE, Nee DE, ***D'Esposito M.*** Distractor resistance for precise visual working memory. (Presented at the Society for Neuroscience Meeting, Chicago, IL, October 2015).

282. Furman D, ***D'Esposito M***. Dopaminergic modulation of resting functional connectivity depends on individual differences in dopamine system function. (Presented at the Society for Neuroscience Meeting, Chicago IL, October 2015).

283. White RL, ***D'Esposito M***. Dopamine-dependent functional network reorganization in Parkinson's disease and its relationship to working memory. (Presented at the Society for Neuroscience Meeting, Chicago, IL, October 2015).

284. Rahnev J, Riddle J, Sheltraw D, Inglis B, **D'Esposito M**. Investigating brain connectivity with simultaneous TMS-fMRI. (Presented at the Society for Neuroscience Meeting, Chicago, IL, October 2015).

285. Gallen CL, Hwang K, Chen AJW, Jacobs EG, Lee TG, **D'Esposito M**. Influence of selective attention on brain network reconfiguration during working memory. (Presented at the Society for Neuroscience Meeting, Chicago IL, October 2015).

286. Tambini A, ***D'Esposito M***. Post-encoding theta-burst TMS to lateral occipital cortex impairs associative memory retention. (Presented at the Society for Neuroscience Meeting, Chicago, IL, October 2015).

287. Cameron IG, Wallace D, Al-Zughoul A, Kayser AS, ***D'Esposito M***. Effects of tolcapone and bromocriptine on cognitive flexibility in an anti-saccade task. (Presented at the Society for Neuroscience Meeting, Chicago IL, October 2015).

288. Bertolero MA, Yeo BTT, ***D'Esposito M***. Dynamic Modularity and Integration during Spontaneous Neural Activity. (Presented at the Society for Neuroscience Meeting, Chicago, October 2015.

289. Nee, D.E. & ***D'Esposito, M.*** Causal evidence for the organization of the lateral prefrontal cortex by content and control. (Presented at the Society for Neuroscience Meeting, Chicago, IL, October 2015).

290. Hwang, K, Bertolero M, ***D'Esposito, M***. Functional organization of the human thalamus and thalamocortical connectivity estimated by intrinsic functional connectivity (Presented at the Society for Neuroscience Annual Meeting, Chicago, IL, October 2015).

291. Baniqued PL, Gallen CL, Kranz MB, Kramer AF, ***D'Esposito M***. Brain network predictors of cognitive training-related gains in young adults. (Presented at the Society for Neuroscience Meeting, Chicago, IL, October 2015).

292. Vandenbroucke ARE, Lorenc ES, Nee DE, de Lange FP, ***D'Esposito M***. The neural correlates of unattended working memory representations. (Presented at the Society for Neuroscience Meeting, Chicago, October 2015).

293. Peters J, ***D'Esposito M***. Parcellating effects of medial orbitofrontal cortex lesions on temporal discounting. (Presented at the Society for Neuroscience Meeting, Chicago, October 2015).

294. Vandenbroucke A., Rahnev D., ***D'Esposito, M***. TMS to primary occipital cortex decreases feature-specific neural activity for orientation tuning. (Poster presented at Cognitive Neuroscience Society meeting, New York, NY., April 2016)

295. Hwang, K., Jagadeesh A., Yang R., ***D'Esposito, M***. Goal-directed attention suppresses multivoxel pattern representation and reduces inter-regional coupling during distractor inhibition. (Poster presented at Cognitive Neuroscience Society meeting, New York, NY., April 2016)

296. Lorenc, E., Sreenivasan, K., Nee, D., Vandenbroucke, A., ***D'Esposito, M.*** Effects of distractors on visual working memory representations. (Poster presented at Vision Sciences Society meeting, St Pete Beach, FL., May, 2016).

297. Bertolero MA, Yeo BTT, ***D'Esposito M***. Connector and local hub connectivity predicts modularity and performance in multiple cognitive tasks. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

298. Eichenbaum A, Yousef SM, Gallen C, Pool ES, Chen AJW, Silver MA, ***D'Esposito M***. Effects of attention state regulation training on resting-state functional connectivity. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

299. Tambini A, Nee DE, ***D'Esposito M.*** Hippocampal-targeted theta-burst TMS stimulation enhances associative memory. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

300. Hwang K, Shine MJ, Jagadeesh A, ***D'Esposito M.*** Neural substrates for modulating task-adaptive functional connectivity patterns. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

301. Bliss DP, ***D'Esposito M***. Serial dependence in spatial working memory: Attraction not swaps. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

302. Riddle J, ***D'Esposito M***. Beta frequency TMS disrupts top-down cognitive control. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

303. Furman DJ, White R, Berry A, Jagust W, ***D'Esposito M***. Dopaminergic modulation of intrinsic striatal functional connectivity varies with dopamine synthesis capacity. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

304. Baniqued PL, Gallen CL, Voss MW, Wong CN, Cooke GE, Burzynska AZ, Duffy K, Fanning J, Ehlers D, Awick E, McAuley E, Kramer AF, ***D'Esposito M***. Brain network predictors of training-related gains in older adults after exercise intervention. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

305. Nee DE, Vandenbroucke ARE, Lorenc ES, ***D'Esposito M***. Forward modeling in fMRI: efficacy and limits. (Presented at the Society for Neuroscience meeting, San Diego, November 2016).

306. Lurie DJL, Tambini A, Gratton C, ***D'Esposito M.*** Effects of continuous theta-burst transcranial magnetic stimulation on hemodynamic lag measured by BOLD fMRI. (Presented at the Society for Neuroscience Meeting, San Diego, November 2016).

307. Vandenbroucke, A. R. E., Nee, D. E., Lorenc, E. S., **D'Esposito, M**. Reading out future-relevant working memory representations with fMRI. (Poster presented at Cognitive Neuroscience Society meeting, San Francisco, CA, April 2017).

308. Muse-Fisher, C., Riddle, J., Scimeca, J., **D'Esposito, M.** Identification of frontal-striatal circuits with simultaneous TMS-fMRI. (Poster presented at Cognitive Neuroscience Society meeting, San Francisco, CA., March 2017)

309. Scimeca, J. M., Miller, J. A., ***D'Esposito, M.*** The effects of content-dependent competition on working memory capacity limits. (Poster presented at Vision Sciences Society meeting, St. Pete Beach, FL, May 2017).

310. Kiyonaga, A., Manassi, M., ***D'Esposito, M***., & Whitney, D. Context transitions modulate perceptual serial dependence. (Poster presented at the Annual Meeting of the Vision Sciences Society, St., Pete Beach, FL, May 2017).

311. Lorenc, E. S., ***D'Esposito, M***. The neural mechanisms of precision in visual working memory for faces. (Poster presented at Vision Sciences Society Annual Meeting, St Pete's Beach, FL, May 2017).

312. Miller, J. A., Kiyonaga, A., Ivry, R., ***D'Esposito, M.*** Modulating the cortico-striatal output gate of working memory. (Poster presented at Society for Neuroscience Annual Meeting, Washington, D.C., November 2017).

313. Kiyonaga, A., Lurie, D.J., & ***D'Esposito, M.*** Network competition and reconfiguration during working memory processing. (Dynamic poster presented at Society for Neuroscience Annual Meeting, Washington, DC, November 2017).

314. Tambini, A., Lurie, D.J., Lapate, R.C., ***D'Esposito, M***. Large-scale network connectivity changes underlying successful memory formation. (Poster presented at the Society for Neuroscience Conference, Washington, DC, November 2017).

315. Lapate, R.C., Hwang, K., Lurie, D. J., Bertolero, M., Tambini, A., **D'Esposito, M**. Topographic properties of the centromedial amygdala: Lateral prefrontal contributions and relevance to psychopathology. (Poster presented at the Society for Neuroscience Annual Meeting, Washington D.C., November 2017).

316. Riddle, J., Cellier, D., Dhanani, S., ***D'Esposito, M***. Reactivation and suppression of working memory representations using frequency specific TMS. (Poster presented at annual meeting for the Society for Neuroscience, Washinton D.C, Novemeber 2017).

317. Naskolnakorn, R. J., Furman, J. D., White, L. R., ***D'Esposito, M***. Taq1A genotype predicts dopamine's effects on amygdala-PFC functional connectivity. (Poster presented at the Society for Neuroscience Annual Meeting, Washington, DC, November 2017).

318. Vogelsang, DA, Furman, DF, Nee, DE, ***D'Esposito, M.*** Dopaminergic modulation of rostro-caudal fronto-striatal loops. (Poster presented at Cognitive Neuroscience Society meeting, Boston, MA, March 2018).

319. Lorenc, E., ***D'Esposito, M***. Neural mechanisms of precision in visual working memory. (Poster presented at Cognitive Neuroscience Society meeting, Boston, MA., March 2018).

320. Eichenbaum, A., Scimeca, J., ***D'Esposito, M***. Frontal Cortex Supports the Transfer of Hierarchical Task Structure to Novel Environments. (Poster presented at Cognitive Neuroscience Society meeting, Boston, MA., March 2018)

321. Lapate, R. C., Heckner, M., Martin, J., Wu, J., ***D'Esposito, M***. LPFC representations support goal-oriented responses during emotional processing. (Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA, November 2018).

322. Kiyonaga, A., Miller, J.A., Ivry, R.B., ***D'Esposito, M***. Cortico-striatal control over working memory output gating. (Talk presented at the annual meeting of the Society for Neuroscience, San Diego, CA, November 2018).

323. Scimeca, J. M., Vafai, Y., Huerta, W., Miller, J. A., ***D'Esposito, M***. Feature-based attentional control over the contents of visual working memory. (Presented at the annual meeting for the Society for Neuroscience, San Diego, CA, November 2018).

324. Eichenbaum, A., Scimeca, J., ***D'Esposito, M***. Learning to learn: Lateral frontal and cingulo-opercular cortex support the learning and transfer of hierarchical task structure. (Poster presented at the annual meeting for the Society for Neuroscience, San Diego, CA, November 2018).

325. Miller, J. A., Scimeca, J. M., Rose, N. S., ***D'Esposito, M***. Attentional effects on working memory representations: comparing information-detection techniques and metrics. (Poster presented at the annual meeting for the Society for Neuroscience, San Diego, CA, November 2018).

326. Furman, D.J., ***D'Esposito, M.*** Human habenula tracks task and motivational context. (Poster presented at annual meeting for the Society for Neuroscience, San Diego, CA, November 2018).

327. Lurie, D. J., ***D'Esposito, M***. (2018). Functional and structural network connectivity explain regional differences in intrinsic activity dynamics measured with resting fMRI. (Poster presented at the 48th annual meeting of the Society for Neuroscience, San Diego, CA, USA, November 2018).

328. Cookson, S. L., Lurie, D., ***D'Esposito, M***. Different patterns of multiple network membership underly regions of the rostrocaudal hierarchy. (Poster presented at the annual meeting for the Society for Neuroscience, San Diego, November 2018).

329. Vogelsang, D. A., Riddle, J., Hwang, K., Cellier, D., D'Esposito, M. Dissociable roles for theta and beta frequency oscillations in cognitive control. (Poster presented at annual meeting for the Society for Neuroscience, San Diego, November 2018).

330. Lorenc, E., ***D'Esposito, M***. Respective roles of frontoparietal and stimulus-selective visual regions in visual working memory for complex objects. (Talk presented at annual meeting for the Society for Neuroscience, San Diego, CA, November 2018).

331. Hwang, K., Shine, J.M., ***D'Esposito, M***. The human intraparietal sulcus modulates task-evoked functional connectivity for cognitive control. Society for Neuroscience Annual Meeting. (Poster presented at annual meeting for the Society for Neuroscience, San Diego CA, November 2018).