

CURRICULUM VITAE
Randy Lee Buckner

PERSONAL:

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Home Address: 15 Hobart Terrace
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Birthdate: June 15, 1970, New Haven, Connecticut

Citizenship: USA

PRESENT POSITION:

Professor of Psychology and of Neuroscience, Center for Brain Science, Harvard University

Neuroscientist in Psychiatry and Radiology, Massachusetts General Hospital

Director, Psychiatric Neuroimaging Research Program, Massachusetts General Hospital

EDUCATION:

09/1988 – 06/1991 Washington University, St. Louis
B.A. in Psychology, Magna cum laude

06/1991 – 08/1993 Washington University, St. Louis
M.A. in Psychology (Experimental)

09/1993 – 12/1995 Washington University School of Medicine, St. Louis
Ph.D. in Neuroscience

01/1996 – 02/1996 Washington University School of Medicine, St. Louis
Charles A. Dana Foundation Postdoctoral Fellow, Department of Neurology

03/1996 – 01/1997 Harvard Medical School, Boston
Research Fellow in Radiology

03/1996 – 01/1997 Massachusetts General Hospital, Boston
Research Fellow in Radiology

ACADEMIC POSITIONS:

01/1997 – 06/2001 Instructor of Radiology Harvard Medical School

01/1997 – 06/2001 Assistant in Neuroscience Massachusetts General Hospital

12/1997 – 06/2001 Assistant Professor, Psychology and Neurobiology Washington University, St. Louis

01/1998 – 06/2001 Assistant Professor of Radiology Washington University, St. Louis

09/2000 – 12/2004 Assistant Investigator Howard Hughes Medical Institute

07/2001 – 10/2005 Associate Professor, Psychology, Neurobiology and Radiology Washington University, St. Louis

01/2005 – 12/2012	Investigator	Howard Hughes Medical Institute
10/2005 – present	Professor of Psychology and of Neuroscience	Harvard University Center for Brain Science
10/2005 – present	Neuroscientist in Radiology	Massachusetts General Hospital
06/2008 – present	Director, Psychiatric Neuroimaging Research Program	Massachusetts General Hospital
07/2009 – present	Professor of Psychology	Harvard Medical School

HONORS AND AWARDS:

1995	Named Olin Fellow for Achievements in Biomedical Research
1995	James L. O’Leary Prize for Accomplishments in Neuroscience
1999	Wiley Young Investigator Award for Human Brain Mapping
2002	Young Investigator Award, Cognitive Neuroscience Society
2004	Fellow, American Psychological Association
2006	Fellow, Society of Experimental Psychologists
2007	Troland Research Award, National Academy of Sciences
2007	Fellow, Association for Psychological Science
2010	MetLife Award for Medical Research, MetLife Foundation
2012	Fellow, American Association for the Advancement of Science

MEMBERSHIP:

Cognitive Neuroscience Society
Memory Disorders Research Society
Organization for Human Brain Mapping
Psychonomic Society
Society for Neuroscience

EDITORIAL RESPONSIBILITIES:

2000 - 2006	<i>NeuroImage</i>
2000 - present	<i>Journal of Cognitive, Affective, and Behavioral Neuroscience</i>
2001 - 2010	<i>Nature Reviews Neuroscience</i> , Highlight Section Editor
2001 - present	<i>Cortex</i>
2001 - present	<i>Neuropsychologia</i>
2002 - present	<i>Behavioral Neuroscience</i>
2003 - 2006	<i>The Journal of Neuroscience</i> , Reviewing Editor
2003 - present	<i>Psychology and Aging</i>
2003 - present	<i>Neuron</i>
2004 - present	<i>Journal of Cognitive Neuroscience</i>

SELECTED SERVICE:

2001 – 2003	Treasurer, Organization for Human Brain Mapping
2002 – 2005	Program Committee (Chair of Theme E), Society for Neuroscience

- 2006 – 2012 Program Committee, Cognitive Neuroscience Society
 2011 – present Scientific Advisor Board, One Mind for Research
 2012 – present Medical Committee, Ryan Licht Sang Bipolar Foundation

INVITED PROFESSORSHIPS AND LECTURES:

- 1995 Society for Neuroscience, Mexico City, Mexico – June
- 1996 Cognitive Neuroscience Society, San Francisco, California – March
 International Neuropsychology Symposium, Santorini, Greece – June
- 1997 American Academy of Neurology, Boston, Massachusetts – April
 National Academy of Sciences Colloquium, May 1997 Irvine, California – May
 American Society of Neuroradiology, Toronto, Canada – May
 Oxford/Harvard fMRI Workshop, Oxford, England – July
 Sixth Conference on the Neurobiology of Learning and Memory, Irvine, California – October
 BrainMap '97, San Antonio, Texas – December
- 1998 Keystone Symposia on The Hippocampus, Silverthorne, Colorado – March
 Plenary Address International Society for Magnetic Resonance in Medicine, Sidney, Australia – April
 Keynote Address Australian Functional Brain Mapping Symposium, Melbourne, Australia – April
 Plenary Symposium American Society of Neuroradiology, Philadelphia, Pennsylvania – May
 Human Brain Mapping, Montreal, Canada – June
 McDonnell Summer Institute in Cognitive Neuroscience, Lake Tahoe, California – July
 Houston Neuropsychological Society Workshop, Houston, Texas – September
 Michigan State University Conference on Functional Neuroimaging, East Lansing, Michigan – October
- 1999 Human Brain Mapping Conference, Dusseldorf, Germany – June
 National Institute of Health Conference on Pediatric Neuroimaging, Bethesda, Maryland – October
 Dynamical Neuroscience Meeting, Delray Beach, Florida – October
- Memory Disorders Research Society, Tuscon, Arizona - November
 Neural Information Processing Systems, Breckenridge, Colorado - December
- 2000 Cognitive Neuroscience Society, San Francisco, California – March
 Human Brain Mapping, San Antonio, Texas – June
 American Psychological Association Advanced Training Institute in fMRI, Boston, Massachusetts – June
 XXVII International Congress of Psychology, Stockholm, Sweden – July
 American Psychological Association, Washington D.C. – July
- 2001 25th Annual Winter Conference on the Neurobiology of Learning & Memory, Park City, Utah – January
 International Neuropsychological Society, Chicago, Illinois – January
 Drug Information Association Conference on Medical Imaging, Washington, DC – March
 Cognitive Neuroscience Society, New York, NY – March
 Human Brain Mapping, Brighton, United Kingdom – June
 American Psychological Association Advanced Training Institute in fMRI, Boston, Massachusetts – June
 McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth, New Hampshire – June
 Advanced Systems Neuroscience Course, Milwaukee, Wisconsin – September
 UCSD Neuroscience Graduate Program Seminar Series, San Diego, California – October
 Memory Disorders Research Society, Boston, Massachusetts – October

- 2002 AAAS Annual Meeting, Boston, Massachusetts – February
Washington University Century Club, St. Louis, Missouri – March
Cognitive Neuroscience Society, San Francisco, California – April
Singapore General Hospital, Singapore, Japan – June
National University of Singapore, Singapore, Japan – June
American Psychological Association Advanced Training Institute in fMRI, Boston, Massachusetts – June
Dartmouth Summer Institute in Cognitive Neuroscience, Hanover, NH – July
Brainstorm 2002, Athens, Greece – September
Umea University, Sweden – September
Memory Disorders Research Society, San Francisco, California – October
Washington University Salon, Houston, Texas – December
- 2003 University of San Diego California, San Diego, California - March
Johns Hopkins University Colloquium, Baltimore, Maryland - March
Massachusetts General Hospital, Cambridge, Massachusetts - March
Human Brain Mapping, New York, New York – June
American Psychological Association – Summer Science Institute, St. Louis, Missouri – June
American Psychological Association Advanced Training Institute in fMRI, Boston, Massachusetts – June
McDonnell Summer Institute in Cognitive Neuroscience, Dartmouth, New Hampshire – July
Umea University, Sweden – August
150th Washington University Celebration, St. Louis, Missouri – September
University of New Mexico, Albuquerque, New Mexico – October
University of Illinois, Champaign-Urbana, Illinois – November
Brown University, Providence, Rhode Island – December
- 2004 CIMIT Forum, Boston, Massachusetts – January
Columbia University, New York, New York – March
Stanford University, Palo Alto, California – July
Fidelity Foundation, Bar Harbor, Maine – August
Plenary Address Society for Research in Psychopathology, St. Louis, Missouri – October
Swammerdam Lecture, Amsterdam, The Netherlands – October
University of Iowa, Iowa City, Iowa – November
- 2005 Hilgard Fellow, Stanford University, Palo Alto, California – January
University of California, San Diego, La Jolla, California – February
Psychiatry Grand Rounds, Baylor College of Medicine, Houston, Texas – March
University of California, Davis, California – March
Distinguished Speakers Series, Michigan State University, East Lansing, Michigan – March
Guest Lectureship in Cognitive Neuroscience, Ohio State University Medical Center, – May
Alzheimer’s Association, St. Louis Chapter, Biannual Seminar, St. Louis, Missouri – May
Neuroscience Seminar Series - University of North Carolina, Chapel Hill, North Carolina – May
American Psychological Association Advanced Training Institute in fMRI, Boston, Massachusetts – June
American Psychological Association Annual Meeting, Washington, DC – August
5th Leonard Berg Symposium, St. Louis, Missouri – October
University of Pittsburgh, Pittsburgh, Pennsylvania – October

- 2006 AAAS Annual Meeting, St. Louis, Missouri – February
 Plenary Lecture, International Conference on Alzheimer's Disease, Madrid, Spain – July
 CSAIL Seminar Series - Massachusetts Institute of Technology, Cambridge, Massachusetts – September
 Neurobiology Seminar Series - Harvard Medical School, Boston, Massachusetts – September
 Society for Neuroscience Conference, Atlanta, Georgia – October
- 2007 Martin Weiner Colloquium Series - Brandeis University, Waltham, Massachusetts – January
 Rotman Rounds, Rotman Research Institute, Toronto, Canada – February
 Alzheimer's Disease Center, Research Seminar, Boston University, Boston, Massachusetts – February
 Rotman Research Conference, Rotman Research Institute, Toronto, Canada – March
 American Philosophical Association Central Division, Chicago, Illinois – April
 Cognitive Neuroscience Society Annual Meeting, New York City, New York – May
 Cognitive Ageing Conference, Sydney, Australia – July
 Society for Neuroeconomics, Hull, Massachusetts – September
 Cognitive Aging Summit, Washington DC – October
 Society for Neuroscience, San Diego, California – November
- 2008 University of Michigan, Ann Arbor, Michigan – February
 Wayne State University, Detroit, Michigan – February
 Xaun Wu Hospital, Capital Medical University, Beijing, China - March
 Tsinghua University, Beijing, China - March
 Institute of Automation, Chinese Academy of Sciences, Beijing, China – March
 Mayo Clinic College of Medicine, Rochester, Minnesota – June
 Society for Neuroscience, Washington, DC – November
 University of California, Institute for Brain Aging & Dementia, Irvine, California – December
- 2009 University of Texas, The Center for Brain Health, Dallas, Texas – March
 University of California, Neuroscience Seminar Series, San Diego, California – March
 University of Massachusetts Life Science Keynote Lecture, Amherst, Massachusetts – April
 Prospective Brain Conference, Cambridge, Massachusetts – May
 International Conference on Alzheimer's Disease, Alzheimer's Association, Vienna, Austria – July
 NIA Nathan Shock Symposium, Biomedical Research Center, Baltimore, Maryland – September
 Memory Disorders Research Society 2009, Chapel Hill, North Carolina – September
 Princeton University, Social Decision Making Series, Princeton, New Jersey – September
 William James Distinguished Lecture, Association for Psychological Science, Massachusetts – October
 University of Rochester, Elizabeth Doty Lectureship, Rochester, New York - November
- 2010 Neuroscience Colloquium, Duke University, Durham, North Carolina – March
 Keynote Speaker, Pediatric Bipolar Disorder Conference, Cambridge, Massachusetts – March
 NIDA Neuroscience Seminar, Johns Hopkins Bayview Hospital, Baltimore, Maryland – March
 Cognitive & Brain Science Colloquium, Tufts University, Medford, Massachusetts – April
 Training Grant Day, Department of Physiology, Northwestern University, Chicago, Illinois – April
 Department of Neuroscience Seminar Series, Brown University, Providence, Rhode Island – April
 American Society of Neuroradiology Symposium, Boston, Massachusetts – May
 Keynote Speaker, Organization for Human Brain Mapping, Barcelona, Spain – June
 Cognitive Aging Summit, Bethesda, Maryland – October

Society for Neuroscience, San Diego, California – November
Sippican Philosophical Society, Marion, Massachusetts – December

- 2011 Keynote Speaker, Human Amyloid Imaging Meeting, Miami Beach, Florida – January
Plenary Speaker, International Neuropsychological Society, Boston, Massachusetts – January
Dallas Aging And Cognition Conference, Dallas, Texas – February
Spring Brain Conference, Tucson, Arizona – March
McDonnell Systems Neuroscience Lecture, Washington University, St. Louis, Missouri – March
Rotman Rounds, Rotman Research Institute, Toronto, Canada – May
One Mind: Next Frontier of the Brain Forum, Boston, Massachusetts – May
Neuroinformatics 2011, Boston, Massachusetts – September
- 2012 Johns Hopkins University Psychiatry Grand Rounds, Baltimore, Maryland – April
Baylor College of Medicine Neuroscience Seminar Series, Houston, Texas – May
4th Annual Tufts Neuroscience Symposium, Boston, Massachusetts – October
University of Illinois Neuroscience Seminar, Urbana-Champaign, Illinois – November
Yale University Psychiatry Ground Rounds, New Haven, Connecticut – December
- 2013 University of Utah, Neuroscience Seminar Series, Salt Lake City, Utah – January
University of California, Neuroscience Seminar Series, San Diego, California – February
Princeton University, Neuroscience Seminar Series, Princeton, New Jersey – February
George Washington University, Neuroscience Seminar Series, Washington DC – April
Massachusetts Institute of Technology Colloquium Series, Boston, Massachusetts – April
16th Annual Brenda Milner Lecture in Cognitive Neuroscience, Montreal, Canada – April
Rotman Rounds, Rotman Research Institute, Toronto, Canada – October
Cell Symposia: The Networked Brain, San Diego, California – November
- 2014 Simons Foundation Biotech Symposia, New York, New York – January
Columbia University Italian Academy for Advanced Studies, New York, New York – February
University of Pennsylvania Neuroscience Lecture Series, Philadelphia -- September
Resting State Conference Plenary, Boston, Massachusetts -- September
Stanford University Neuroscience Series, Palo Alto, California -- October

BIBLIOGRAPHY (PEER REVIEWED):

- Buckner, R.L., Green, L., Myerson, J. (1993) Short-term and long-term effects of reinforcers on choice. *Journal of the Experimental Analysis of Behavior*, 59: 293-307.
- Buckner, R.L., Petersen, S.E., Ojemann, J.G., Miezin, F.M., Squire, L.R., Raichle, M.E. (1995) Functional anatomical studies of explicit and implicit memory retrieval tasks. *Journal of Neuroscience*, 15: 12-29.
- Buckner, R.L., Raichle, M.E., Petersen, S.E. (1995) Dissociation of human prefrontal cortical areas across different speech production tasks and gender groups. *Journal of Neurophysiology*, 74: 2163-2173.
- Buckner, R.L., Corbetta, M., Schatz, J., Raichle, M.E., Petersen, S.E. (1996) Preserved speech abilities and compensation following prefrontal damage. *Proceedings of the National Academy of Sciences USA*, 93: 1249-1253.
- Hunton, D.L., Miezin, F.M., Buckner, R.L., van Mier, H.I., Raichle, M.E., Petersen, S.E. (1996) An assessment of functional-anatomical variability in functional neuroimaging studies. *Human Brain Mapping*, 4: 122-139.
- Buckner, R.L., Bandettini, P.A., O'Craven, K.M., Savoy, R.L., Petersen, S.E., Raichle, M.E., Rosen, B.R. (1996) Detection of cortical activation during averaged single trials of a cognitive task using functional magnetic resonance imaging. *Proceedings of the National Academy of Sciences USA*, 93: 14878-14883.
- Breiter, H.C., Etcoff, N.L., Whalen, P.J., Kennedy, W.A., Rauch, S.L., Buckner, R.L., Strauss, M.M., Hyman, S.E., Rosen, B.R. (1996) Response and habituation of the human amygdala during visual processing of facial

- expression. *Neuron*, 17: 875-887.
- Buckner, R.L., Raichle, M.E., Miezin, F.M., Petersen, S.E. (1996) Functional anatomic studies of memory retrieval for auditory words and visual pictures. *Journal of Neuroscience*, 16: 6219-6235.
- Shulman, G.L., Corbetta, M., Buckner, R.L., Raichle, M.E., Fiez, J.A., Miezin, F.M., Petersen, S.E. (1997) Top-down modulation of early sensory cortex. *Cerebral Cortex*, 7: 193-206.
- Dale, A.M., Buckner, R.L. (1997) Selective averaging of rapidly presented individual trials using fMRI. *Human Brain Mapping*, 5:329-340.
- Shulman, G.L., Corbetta, M., Buckner, R.L., Fiez, J.A., Miezin, F.M., Raichle, M.E., Petersen, S.E. (1997) Common blood flow changes across visual tasks: I. Increases in subcortical structures and cerebellum but not in nonvisual cortex. *Journal of Cognitive Neuroscience*, 9: 624-647.
- Shulman, G.L., Fiez, J.A., Corbetta, M., Buckner, R.L., Miezin, F.M., Raichle, M.E., Petersen, S.E. (1997) Common blood flow changes across visual tasks: II. Decreases in cerebral cortex. *Journal of Cognitive Neuroscience*, 9: 648-663.
- Schacter, D.L., Buckner, R.L., Koutstaal, W., Dale, A.M., Rosen, B.R. (1997) Late onset of anterior prefrontal activity during true and false recognition: An event-related fMRI study. *NeuroImage*, 6: 259-269.
- Buckner, R.L., Goodman, J., Burock, M., Rotte, M., Koutstaal, W., Schacter, D., Rosen, B., Dale, A.M. (1998) Functional-anatomic correlates of object priming in humans revealed by rapid presentation event-related fMRI. *Neuron*, 20: 285-296.
- MacLeod, A.K., Buckner, R.L., Miezin, F.M., Petersen, S.E., Raichle, M.E. (1998) Right anterior prefrontal cortex activation during semantic monitoring and working memory. *NeuroImage*, 7: 41-48.
- Buckner, R.L., Koutstaal, W., Schacter, D.L., Wagner, A.D., Rosen, B.R. (1998) Functional-anatomic study of episodic retrieval using fMRI: I. Retrieval effort versus retrieval success. *NeuroImage*, 7: 151-162.
- Buckner, R.L., Koutstaal, W., Schacter, D.L., Dale, A.M., Rotte, M., Rosen, B.R. (1998) Functional-anatomic study of episodic retrieval: II. Selective averaging of event-related fMRI trials to test the retrieval success hypothesis. *NeuroImage*, 7: 163-175.
- Kelley, W.M., Miezin, F.M., McDermott, K.B., Buckner, R.L., Raichle, M.E., Cohen, N.J., Ollinger, J.M., Akbudak, E., Conturo, T.E., Snyder, A.Z., Petersen, S.E. (1998) Hemispheric specialization in human dorsal frontal cortex and medial temporal lobe for verbal and nonverbal memory encoding. *Neuron*, 20: 927-936.
- Wagner, A.D., Schacter, D.L., Rotte, M., Koutstaal, W., Maril, A., Dale, A.M., Rosen, B.R., Buckner, R.L. (1998) Building memories: Remembering and forgetting of verbal experiences as predicted by brain activity. *Science*, 281: 1188-1191.
- Ojemann, J.G., Buckner, R.L., Akbudak, E., Snyder, A.Z., Ollinger, J.M., McKinstry, R.C., Rosen, B.R., Petersen, S.E., Raichle, M.E., Conturo, T.E. (1998) Functional MRI studies of word-stem completion: Reliability across laboratories and comparison to blood flow imaging with PET. *Human Brain Mapping*, 6: 203-215.
- Burock, M.A., Buckner, R.L., Woldorff, M.G., Rosen, B.R., Dale, A.M. (1998) Randomized event-related experimental designs allow for extremely rapid presentation rates using functional MRI. *NeuroReport*, 9: 3735-3739.
- Chee, M.W.L., Buckner, R.L., Savoy, R.L. (1998) Right hemisphere language in a neurologically normal dextral: A fMRI study. *NeuroReport*, 9: 3499-3502.
- McDermott, K.B., Buckner, R.L., Petersen, S.E., Kelley, W.M., Sanders, A.L. (1999) Set- and Code-specific activation in the frontal cortex: An fMRI study of encoding and retrieval of faces and words. *Journal of Cognitive Neuroscience*, 11: 631-640.
- Dale, A.M., Liu, A.K., Fischl, B.R., Buckner, R.L., Belliveau, J.W., Lewine, J.D., Halgren, E. (2000) Dynamic statistical parametric mapping: Combining fMRI and MEG for high-resolution imaging of cortical activity. *Neuron*, 26: 55-67.
- Buckner, R.L., Koutstaal, W., Schacter, D.L., Rosen, B.R. (2000) Functional MRI evidence for a role of frontal and inferior temporal cortex in amodal components of priming. *Brain*, 123: 620-640.
- Miezin, F.M., Maccotta, L., Ollinger, J.M., Petersen, S.E., Buckner, R.L. (2000) Characterizing the hemodynamic response: Effects of presentation rate, sampling procedure, and the possibility of ordering brain activity based on relative timing. *NeuroImage*, 11: 735-759.
- Konishi, S., Wheeler, M.E., Donaldson, D.I., Buckner, R.L. (2000) Neural correlates of episodic retrieval success.

- NeuroImage*, 12: 276-286.
- Wagner, A.D., Koutstaal, W., Maril, A., Schacter, D.L., Buckner, R.L. (2000) Task-specific repetition priming in left inferior prefrontal cortex. *Cerebral Cortex*, 10: 1176-1184.
- Wheeler, M.E., Petersen, S.E., Buckner, R.L. (2000) Memory's echo: Vivid remembering reactivates sensory-specific cortex. *Proceedings of the National Academy of Sciences USA*, 97:11125-11129.
- Buckner, R.L., Snyder, A.Z., Sanders, A.L., Raichle, M.E., Morris, J.C. (2000) Functional brain imaging of young, nondemented, and demented older adults. *Journal of Cognitive Neuroscience*, 12 (Suppl. 2): 24-34.
- Koutstaal, W., Wagner, A.D., Rotte, M., Maril, A., Buckner, R.L., Schacter, D.L. (2001) Perceptual specificity in visual object priming: fMRI evidence for a laterality difference in fusiform cortex. *Neuropsychologia*, 39: 184-199.
- Donaldson, D.I., Petersen, S.E., Ollinger, J.M., Buckner, R.L. (2001) Dissociating state and item components of recognition memory using fMRI. *NeuroImage*, 13: 129-142.
- Buckner, R.L., Wheeler, M.E., Sheridan, M. (2001) Encoding processes during retrieval tasks. *Journal of Cognitive Neuroscience*, 13: 406-415.
- Zacks, J.M., Braver, T.S., Sheridan, M.S., Donaldson, D.I., Snyder, A.Z., Ollinger, J.M., Buckner, R.L., Raichle, M.E. (2001) Human brain activity time-locked to perceptual event boundaries. *Nature Neuroscience*, 4: 651-655.
- Dhond, R.P., Buckner, R.L., Dale, A.M., Marinkovic K., Halgren, E. (2001) Spatiotemporal maps of brain activity underlying word generation and their modification during repetition priming. *Journal of Neuroscience*, 21: 3564-3571.
- Konishi, S., Donaldson, D.I., Buckner, R.L. (2001) Transient activation during block transition. *NeuroImage* 13: 364-374.
- Baker, J.T., Sanders, A.L., Maccotta, L., Buckner, R.L. (2001) Neural correlates of verbal memory encoding during semantic and structural processing tasks. *NeuroReport*, 12: 1251-1256.
- Palmer, E.D., Rosen, H.J., Ojemann, J.G., Buckner, R.L., Kelley, W.M., Petersen, S.E. (2001) An event-related fMRI study of overt and covert word stem completion. *NeuroImage*, 14: 182-193.
- Braver, T.S., Barch, D.M., Kelley, W.M., Buckner, R.L., Cohen, N.J., Miezin, F.M., Snyder, A.Z., Ollinger, J.M., Akbudak, E., Conturo, T.E., Petersen, S.E. (2001) Direct comparison of prefrontal cortex regions engaged by working and long-term memory tasks. *NeuroImage*, 14: 48-59.
- Donaldson, D.I., Petersen, S.E., Buckner, R.L. (2001) Dissociating memory retrieval processes using fMRI: Evidence that priming does not support recognition memory. *Neuron*, 31: 1047-1059.
- Maccotta, L., Zacks, J.M., Buckner, R.L. (2001) Rapid self-paced event-related functional MRI: Feasibility and implications of stimulus- versus response-locked timing. *NeuroImage*, 14: 1105-1121.
- Golland, P., Fischl, B., Spiridon, M., Kanwisher, N., Buckner, R.L., Shenton, M.E., Kikinis, R., Dale, A., Grimson, W.E.L. (2002) Discriminative analysis for image-based studies. *Medical Image Computing and Computer-Assisted Intervention-MICCAI 2002*. 2488: 508-515.
- Logan, J.M., Sanders, A.L., Snyder, A.Z., Morris, J.C., Buckner, R.L. (2002) Under-Recruitment and nonselective recruitment: Dissociable neural mechanisms associated with aging. *Neuron*, 33: 827-840.
- Gold, B.T., Buckner, R.L. (2002) Common prefrontal regions coactivate with dissociable posterior regions during controlled semantic and phonological tasks. *Neuron*, 35: 803-812.
- Burgund, E.D., Kang, H.C., Kelly, J.E., Buckner, R.L., Snyder, A.Z., Petersen, S.E., Schlaggar, B.L. (2002) The feasibility of a common stereotactic space for children and adults in fMRI studies of development. *NeuroImage*, 17: 184-200.
- Cortese, M.J., Balota, D.A., Sergent-Marshall, S.D, Buckner, R.L. (2003) Spelling via semantics and phonology: exploring the effects of age, Alzheimer's disease, and primary semantic impairment. *Neuropsychologia*, 41: 952-967.
- Wheeler, M.E., Buckner, R.L. (2003) Functional dissociation among components of remembering: Control, perceived oldness, and content. *Journal of Neuroscience*, 23: 3869-3880.
- Finger, S., Buckner, R.L., Buckingham, H. (2003) The Barlow Case of 1877: Does the right hemisphere take over after damage to Broca's area? The Barlow case of 1877 and its history. *Brain and Language*, 85: 385-395.
- Visscher, K.M., Miezin, F.M., Kelly, J.E., Buckner, R.L., Donaldson, D.I., McAvoy, M.P., Bhalodia, V.M.,

- Petersen, S.E. (2003) Mixed blocked/event-related designs separate transient and sustained activity in fMRI. *NeuroImage*, 19: 1694-1708.
- Barch, D.M., Mathews, J.R., Buckner, R.L., Maccotta, L., Csernansky, J.G., Snyder, A.Z. (2003) Hemodynamic responses in visual, motor, and somatosensory cortices in schizophrenia. *NeuroImage*, 20: 1884-1893.
- Velanova, K., Jacoby, L.L., Wheeler, M.E., McAvoy, M.P., Petersen, S.E., Buckner, R.L. (2003) Functional-anatomic correlates of sustained and transient processing components engaged during controlled retrieval. *Journal of Neuroscience*, 23: 8460-8470.
- Lustig, C., Snyder, A.Z., Bhakta, M., O'Brien, K.C., McAvoy, M., Raichle, M.E., Morris, J.C., Buckner, R.L. (2003) Functional deactivations: Change with age and dementia of the Alzheimer type. *Proceedings of the National Academy of Sciences USA*, 100: 14504-14509.
- Michelon, P., Snyder, A.Z., Buckner, R.L., McAvoy, M., Zacks, J.M. (2003) Neural correlates of incongruous visual information: An event-related fMRI study. *NeuroImage*, 19: 1612-1626.
- Head, D., Buckner, R.L., Shimony, J.S., Williams, L.E., Akbudak, E., Conturo, T.E., McAvoy, M., Morris, J.C., Snyder, A.Z. (2004) Differential vulnerability of anterior white matter in nondemented aging with minimal acceleration in dementia of the Alzheimer type: Evidence from diffusion tensor imaging. *Cerebral Cortex*, 14: 410-423.
- Kohler, S., Paus, T., Buckner, R.L., Milner, B. (2004) Effects of left inferior prefrontal stimulation on episodic memory formation: A two stage fMRI-rTMS study. *Journal of Cognitive Neuroscience*, 16: 178-188.
- Wheeler, M.E., Buckner, R.L. (2004) Functional-anatomic correlates of remembering and knowing. *NeuroImage*, 21: 1337-1349.
- Salat, D.H., Buckner, R.L., Snyder, A.Z., Greve, D.N., Desikan, R.S.R., Busa, E., Morris, J.C., Dale, A.M., Fischl, B. (2004) Thinning of the cerebral cortex in aging. *Cerebral Cortex*, 14: 721-730.
- Lustig, C., Buckner, R.L. (2004) Preserved neural correlates of priming in old age and dementia. *Neuron*, 42: 865-875.
- Buckner, R.L., Head, D., Parker, J., Fotenos, A.F., Marcus, D., Morris, J.C., Snyder, A.Z. (2004) A unified approach for morphometric and functional data analysis in young, old, and demented adults using automated atlas-based head size normalization: Reliability and validation against manual measurement of total intracranial volume. *NeuroImage*, 23: 724-738.
- Maccotta, L., Buckner, R.L. (2004) Evidence for neural effects of repetition that directly correlate with behavioral priming. *Journal of Cognitive Neuroscience*, 16: 1625-1632.
- Shannon, B.J., Buckner, R.L. (2004) Functional-anatomic correlates of memory retrieval that suggest nontraditional processing roles for multiple distinct regions within posterior parietal cortex. *Journal of Neuroscience*, 24: 10084-10092.
- Gold, B.T., Balota, D.A., Cortese, M.J., Sergent-Marshall, S.D., Snyder, A.Z., Salat, D.H., Fischl, B., Dale, A.M., Morris, J.C., Buckner, R.L. (2005) Differing neuropsychological and neuroanatomical correlates of abnormal reading in early-stage semantic dementia and dementia of the Alzheimer type. *Neuropsychologia*, 43: 833-846.
- Fotenos, A.F., Snyder, A.Z., Girton, L.E., Morris, J.C., Buckner, R.L. (2005) Normative estimates of cross-sectional and longitudinal brain volume decline in aging and AD. *Neurology*, 64: 1032-1039.
- Head, D., Snyder, A.Z., Girton, L.E., Morris, J.C., Buckner, R.L. (2005) Frontal-hippocampal double dissociation between normal aging and Alzheimer's disease. *Cerebral Cortex*, 15: 732-739.
- Gold, B.T., Balota, D.A., Kirchoff, B.A., Buckner, R.L. (2005) Common and dissociable activation patterns associated with controlled semantic and phonological processing: Evidence from fMRI adaptation. *Cerebral Cortex*, 15: 1438-1450.
- Buckner, R.L., Snyder, A.Z., Shannon, B.J., LaRossa, G., Sachs, R., Fotenos, A.F., Sheline, Y.I., Klunk, W.E., Mathis, C.A., Morris, J.C., Mintun, M.A. (2005) Molecular, structural, and functional characterization of Alzheimer's disease: Evidence for a relationship between default activity, amyloid, and memory. *Journal of Neuroscience*, 25: 7709-7717.
- Kirchoff, B.A., Schapiro, M.L., Buckner, R.L. (2005) Orthographic distinctiveness and semantic elaboration provide separate contributions to verbal memory. *Journal of Cognitive Neuroscience*, 17: 1841-1854.
- Burns, J.M., Church, J.A., Johnson, D.K., Xiong, C., Marcus, D., Fotenos, A.F., Snyder, A.Z., Morris, J.C., Buckner, R.L. (2005) White matter lesions are prevalent but differentially related with cognition in aging and early Alzheimer disease. *Archives of Neurology*, 62: 1870-1876.

- Wheeler, M.E., Shulman, G.L., Buckner, R.L., Miezin, F.M., Velanova, K., Petersen, S.E. (2006) Evidence for separate perceptual reactivation and search processes during remembering. *Cerebral Cortex*, 16: 949-959.
- Persson, J., Nyberg, L., Lind, J., Larsson, A., Nilsson, L.G., Ingvar, M., Buckner, R.L. (2006) Structure-function correlates of cognitive decline in aging. *Cerebral Cortex*, 16: 907-915.
- Desikan R.S., Segonne F., Fischl B., Quinn, B.T., Dickerson, B.C., Blacker, D., Buckner, R.L., Dale, A.M., Maguire, R.P., Hyman, B.T., Albert, M.S., Killiany, R.J. (2006) An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest. *Neuroimage*, 31: 968-980.
- Kirchhoff, B.A., Buckner, R.L. (2006) Functional-anatomic correlates of individual differences in memory. *Neuron*, 51: 263-274.
- Vincent, J.L., Snyder, A.Z., Fox, M.D., Shannon, B.J., Andrews, J.R., Raichle, M.E., Buckner R.L. (2006) Coherent spontaneous activity identifies a hippocampal-parietal memory network. *Journal of Neurophysiology*, 6: 3517-3531.
- Marcus, D.S., Olsen, T., Ramaratnam, M., Buckner, R.L. (2007) The extensible neuroimaging archive toolkit (XNAT): An informatics platform for managing, exploring, and sharing neuroimaging data. *Neuroinformatics*, 1: 11-34.
- Maccotta, L., Buckner, R.L., Gilliam, F.G., Ojemann, J.G. (2007) Changing frontal contributions to memory before and after medial temporal lobectomy. *Cerebral Cortex*, 2: 443-456.
- Yu, P., Grant, P.E., Qi, Y., Han, X., Segonne, F., Pienaar, R., Busa, E., Pacheco, J., Makris, N., Buckner, R.L., Golland, P., Fischl, B. (2007) Cortical surface shape analysis based on spherical wavelets. *IEEE Transactions on Medical Imaging*, 4: 582-597.
- Velanova, K., Lustig, C., Jacoby, L.L., Buckner, R.L. (2007) Evidence for frontally mediated controlled processing differences in older adults. *Cerebral Cortex*, 5: 1033-1046.
- Marcus, D.S., Wang, T.H., Parker, J., Csernansky, J.G., Morris, J.C., Buckner, R.L. (2007) Open access series of imaging studies (OASIS): Cross-sectional MRI data in young, middle aged, nondemented and demented older adults. *Journal of Cognitive Neuroscience*. 19: 1498-1507.
- Satterthwaite, T.D., Green, L., Myerson J., Parker, J., Ramaratnam, M., Buckner, R.L. (2007) Dissociable but inter-related systems of cognitive control and reward during decision making: Evidence from pupillometry and event-related fMRI. *Neuroimage*, 3: 1017-1031.
- Andrews-Hanna, J.R., Snyder, A.Z., Vincent, J.L., Lustig, C., Head, D., Raichle, M.E., Buckner, R.L. (2007) Disruption of large-scale brain systems in advanced aging. *Neuron*, 56: 924-935.
- Fotenos, A.F., Mintun, M.A., Snyder, A.Z., Morris, M.D., Buckner, R.L. (2008) Brain volume decline in aging: Evidence for a relation between socioeconomic status, preclinical Alzheimer's disease, and reserve. *Archives of Neurology*, 65: 113-120.
- Vincent, J.L., Kahn I., Snyder, A.Z., Raichle, M.E., Buckner, R.L. (2008) Evidence for a frontoparietal control system revealed by intrinsic functional connectivity. *Journal of Neurophysiology*. 100: 3328-3342.
- Kahn, I., Andrews-Hanna, J.R., Vincent, J.L., Snyder, A.Z., Buckner, R.L. (2008) Distinct cortical anatomy linked to subregions of the medial temporal lobe revealed by intrinsic functional connectivity. *Journal of Neurophysiology*, 100: 129-139.
- Nishida, M., Pearsall, J., Buckner, R.L., Walker, M.P. (2009) REM sleep, prefrontal theta, and the consolidation of human emotional memory. *Cerebral Cortex*, 19: 1158-1166.
- Dickerson, B.C., Feczko, E., Augustinack, J.C., Pacheco, J., Morris, J.C., Fischl, B., Buckner, R.L. (2009) Differential effects of aging and Alzheimer's disease on medial temporal lobe cortical thickness and surface area. *Neurobiology of Aging*, 3: 432-440.
- Dickerson, B.C., Bakkour, A., Salat, D.H., Feczko, E., Pacheco, J., Greve, D.N., Grodstein, F., Wright, C.I., Blacker, D., Rosas, H.D., Sperling, R.A., Atri, A., Growdon, J.H., Hyman, B.T., Morris, J.C., Fischl, B., Buckner, R.L. (2009) The cortical signature of Alzheimer's disease: Regionally specific cortical thinning relates to symptom severity in very mild to mild ad dementia and is detectable in asymptomatic amyloid-positive individuals. *Cerebral Cortex*, 3: 497-510.
- Salat, D.H., Greve, D.N., Pacheco, J.L., Quinn, B.T., Helmer, K.G., Buckner, R.L., Fischl, B. (2009) Regional white matter volume differences in nondemented aging and Alzheimer's disease. *NeuroImage*, 44(4): 1247-1258.
- Buckner, R.L., Sepulcre J., Talukdar T., Krienen, F.M., Liu, H., Hedden, T., Andrews-Hanna, J.R., Sperling, R.A., Johnson, K.A. (2009) Cortical hubs revealed by intrinsic functional connectivity: Mapping, assessment of

- stability, and relation to Alzheimer's disease. *Journal of Neuroscience*, 6: 1860-1873.
- Hirst, W., Phelps, E.A., Buckner, R.L., Budson, A.E., Cuc, A., Gabrieli, J.D., Johnson, M.K., Lustig, C., Lyle, K.B., Mather, M., Meksin, R., Mitchell, K.J., Ochsner, K.N., Schacter, D.L., Simons, J.S., Vaidya, C.J. (2009) Long-term memory for the terrorist attack of September 11: Flashbulb memories, event memories, and the factors that influence their retention. *Journal of Experimental Psychology: General*. 138: 161-176.
- Krienen, F.M., Buckner, R.L. (2009) Segregated fronto-cerebellar circuits revealed by intrinsic functional connectivity. *Cerebral Cortex*, 19: 2485-2497.
- Fischl, B., Stevens, A.A., Rajendran, N., Yeo, B.T., Greve, D.N., Van Leemput, K., Polimeni, J.R., Kakunoori, S., Buckner, R.L., Pacheco, J., Salat, D.H., Melcher, J., Frosch, M.P., Hyman, B.T., Grant, P.E., Rosen, B.R., van der Kouwe, A.J., Wiggins, G.C., Wald, L.L., Augustinack, J.C. (2009) Predicting the location of entorhinal cortex from MRI. *NeuroImage*, 47(1): 8-17.
- Liu, H., Buckner, R.L., Talukdar, T., Naoaki, T., Madsen, J.R., Stuffelbeam, S.M. (2009) Task-free presurgical mapping using functional magnetic resonance imaging intrinsic activity. *Journal of Neurosurgery*, 111(4): 746-754.
- Wig, G.S., Buckner, R.L., Schacter, D.L. (2009) Repetition priming influences distinct brain systems: Evidence from task-evoked data and resting-state correlations. *Journal of Neurophysiology*, 101(5): 2632-2648.
- Desikan, R.S., Cabral, H.J., Hess, C.P., Dillon, W.P., Glastonbury, C.M., Weiner, M.W., Schmansky, N.J., Greve, D.N., Salat, D.H., Buckner, R.L., Fischl, B. (2009) Automated MRI measures identify individuals with mild cognitive impairment and Alzheimer's disease. *Brain*, 132: 2048-2057.
- Sperling, R.A., Laviolette, P.S., O'Keefe, K., O'Brien J., Rentz, D.M., Pihlajamaki, M., Marshall, G., Hyman, B.T., Selkoe, D.J., Hedden, T., Buckner, R.L., Becker, J.A., Johnson, K.A. (2009) Amyloid deposition is associated with impaired default network function in older persons without dementia. *Neuron*, 63(2): 178-188.
- Hedden, T., Van Dijk, K.R.A., Becker, J.A., Mehta, A., Sperling, R.A., Johnson, K.A., Buckner, R.L. (2009) Disruption of functional connectivity in clinically normal older adults harboring amyloid burden. *Journal of Neuroscience*, 29(40): 12686-12694.
- Van Dijk, K.R., Hedden, T., Venkataraman, A., Evans, K.C., Lazar, S.W., Buckner, R.L., (2010) Intrinsic functional connectivity as a tool for human connectomics: Theory, properties, and optimization. *Journal of Neurophysiology*, 103(1): 297-321.
- Liu, H., Stuffelbeam, S.M., Sepulcre, S., Hedden, T., Buckner, R.L. (2009) Evidence from intrinsic activity that asymmetry of the human brain is controlled by multiple factors. *Proceedings of the National Academy of Sciences USA*, 106(48):20499-20503.
- Marcus, D.S., Fotenos, A.F., Csernansky, J.G., Morris, J.C., Buckner, R.L. (2009) Open access series of imaging studies: Longitudinal MRI data in nondemented and demented older adults. *Journal of Cognitive Neuroscience*, 22(12): 2677-2684.
- Stevens, W.D., Buckner, R.L., Schacter, D.L. (2010) Correlated low-frequency BOLD fluctuations in the resting human brain are modulated by recent experience in category-preferential visual regions. *Cerebral Cortex*, 20(8): 1997-2006.
- Andrews-Hanna, J.R., Reidler, J.S., Sepulcre, J., Poulin, R., Buckner, R.L. (2010) Functional-anatomic fractionation of the brain's default network. *Neuron*, 65(4): 550-562.
- Vincent, J.L., Kahn, I., Van Essen, D.C., Buckner, R.L. (2010) Functional connectivity of the macaque posterior parahippocampal cortex. *Journal of Neurophysiology*, 103(2):793-800.
- Biswal, B.B., Mennes, M., Zuo, X.N., Gohel, S., Kelly, C., Smith, S.M. et al. (2010) Toward discovery science of human brain function. *Proceedings of the National Academy of Sciences USA*, 107(10):4734-4739.
- Tu, P., Buckner, R.L., Zollei, L., Dyckman, K.A., Goff, D.C., Manoach, D.S. (2010) Reduced functional connectivity in a right-hemisphere network for volitional ocular motor control in schizophrenia. *Brain*, 133(2): 625-637.
- Andrews-Hanna, J.R., Reidler, J.S., Huang, C., Buckner, R.L. (2010) Evidence for the default network's role in spontaneous cognition. *Journal of Neurophysiology*, 104(1): 322-335.
- Sepulcre, J., Liu, H., Talukdar, T., Martincorena, I., Yeo, B.T., Buckner, R.L. (2010) The organization of local and distant functional connectivity in the human brain. *PLoS Computational Biology*, 6(6): e1000808.
- Rentz, D.M., Locascio, J.J., Becker, J.A., Moran, E.K., Eng, E., Buckner, R.L., Sperling, R.A., Johnson, K.A. (2010) Cognition, reserve, and amyloid deposition in normal aging. *Annals of Neurology*, 67(3):353-364.

- Krienen, F.M., Tu, P.-C., Buckner, R.L. (2010) Clan mentality: Evidence that medial prefrontal cortex responds to close others. *Journal of Neuroscience*, 30(41): 13906-13915.
- Desai, M., Kahn, I., Knoblich, U., Bernstein, J., Atallah, H., Yang, A., Kopell, N., Buckner, R.L., Graybiel, A.M., Moore, C.I., Boyden, E.S. (2011) Mapping brain networks in awake mice using combined optical neural control and fMRI. *Journal of Neurophysiology*, 105(3): 1393-1405.
- Becker, J.A., Hedden, T., Carmasin, J., Maye, J., Rentz, D.M., Putcha, D., Fischl, B., Greve, D.N., Marshall, G.A., Salloway, S., Marks, D., Buckner, R.L., Sperling, R.A., Johnson, K.A. (2011) Amyloid- β associated cortical thinning in clinically normal elderly. *Annals of Neurology*, 69(6): 1032-1042.
- Stufflebeam, S.M., Liu, H., Sepulcre, J., Tanaka, N., Buckner, R.L., Madsen, J.R. (2011) Localization of focal epileptic discharges using functional connectivity magnetic resonance imaging. *Journal of Neurosurgery*, 114(6): 1693-1697.
- Yeo, B.T., Krienen, F.M., Sepulcre, J., Sabuncu, M.R., Lashkari, D., Hollinshead, M., Roffman, J.L., Smoller, J.W., Zollei, L., Polimeni, J.R., Fischl, B., Liu, H., Buckner, R.L. (2011) The organization of the human cerebral cortex estimated by intrinsic functional connectivity. *Journal of Neurophysiology*, 106(3): 1125-1165.
- Mantini, D., Gerits, A., Nelissen, K., Durand, J.-B., Joly, O., Simone, L., Sawamura, H., Wardak, C., Orban, G.A., Buckner, R.L., Vanduffel, W. (2011) Default mode of brain function in monkeys. *Journal of Neuroscience*, 31(36): 12954-12962.
- Lu, J., Liu, H., Zhang, M., Wang, D., Cao, Y., Ma, Q., Rong, D., Wang, X., Buckner, R.L., Li, K. (2011) Focal pontine lesions provide evidence that resting-state functional connectivity reflects polysynaptic anatomical pathways. *Journal of Neuroscience*, 31(42): 15065-15071.
- Kahn, I., Desai, M., Knoblich, U., Bernstein, J., Henninger, M., Graybiel, A., Boyden, E., Buckner, R.L., Moore, C. (2011) Characterization of the functional MRI response temporal linearity via optical control of neocortical pyramidal neurons. *Journal of Neuroscience*, 31(42): 15086-15091.
- Buckner, R.L., Krienen, F.M., Castellanos, A., Diaz, J.C., Yeo, B.T. (2011) The organization of the human cerebellum estimated by intrinsic functional connectivity. *Journal of Neurophysiology*, 106(5): 2322-2345.
- Eldaief, M.C., Haiko, M.A., Buckner, R.L., Pascual-Leone, A. (2011) Transcranial magnetic stimulation modulates the brain's intrinsic resting activity in a frequency dependent manner. *Proceedings of the National Academy of Sciences USA*, 108(52): 21229-21234.
- Van Dijk, K.R., Sabuncu, M.R., Buckner, R.L. (2012) The influence of head motion on intrinsic connectivity MRI. *NeuroImage*, 59(1): 431-438.
- Hedden, T., Van Dijk, K.R., Shire, E.H., Sperling, R.A., Johnson, K.A., Buckner, R.L. (2012) Failure to modulate attentional control in advanced aging linked to white matter pathology. *Cerebral Cortex*, 22(5): 1038-1051.
- Sabuncu, M.R., Buckner, R.L., Smoller, J.W., Lee, P.H., Fischl, B., Sperling, R.A. (2012) The association between polygenic Alzheimer score and cortical thickness in clinically normal subjects. *Cerebral Cortex*, 22(11): 2653-2661.
- Fox, M.D., Buckner, R.L., White, M.P., Greicius, M.D., Pascual-Leone, A. (2012) Efficacy of transcranial magnetic stimulation targets for depression is related to intrinsic functional connectivity with the subgenual cingulate. *Biological Psychiatry*, 72(7): 595-603.
- Choi, E.Y., Yeo, B.T.T., Buckner, R.L. (2012) The organization of the human striatum estimated by intrinsic functional connectivity. *Journal of Neurophysiology*, 108(8): 2242-2263.
- Hedden, T., Mormino, E., Amariglio, R., Younger, A., Schultz, A., Becker, J., Buckner, R.L., Johnson, K.A., Sperling, R.A., Rentz, D. (2012) Cognitive profile of amyloid burden and white matter hyperintensities in cognitively normal older adults. *Journal of Neuroscience*, 32(46): 16233-16242.
- Holmes, A.J., Lee, P.H., Hollinshead, M., Bakst, L., Roffman, J.L., Smoller, J.W., Buckner, R.L. (2012) Individual differences in amygdala-prefrontal anatomy link negative affect, impaired social functioning, and polygenic depression risk. *Journal of Neuroscience*, 32(50): 18087-18100.
- Stein, J.L., Medland, S.E., Arias-Vasquez A., Hibar, D.P., Senstad, R.E. et al. (2012) Common genetic polymorphisms are associated with human hippocampal and intracranial volumes. *Nature Genetics*, 44(5): 552-561.
- Wang, D., Buckner, R.L., Liu, H. (2013) Cerebellar asymmetry and its relation to cerebral asymmetry estimated by intrinsic functional connectivity. *Journal of Neurophysiology*, 109(1): 46-57.
- Baker, J.T., Holmes, A.J., Masters, G.A., Yeo, B.T.T., Krienen, F.M., Buckner, R.L., Öngür, D. (2013) Disruption of cortical association networks in schizophrenia and psychotic bipolar disorder. *JAMA Psychiatry*, 71(2): 109-118.

- Yeo, B.T., Krienen, F.M., Buckner, R.L. (2014) Estimates of segregation and overlap of functional connectivity networks in the human cerebral cortex. *Neuroimage*, 88: 212-227.
- Smoller, J.W., Gallagher, P.J., Duncan, L.E., McGrath, L.M., Haddad, S.A., Holmes, A.J., et al. (2014) The human ortholog of acid-sensing ion channel gene ASIS1a is associated with panic disorder and amygdala structure and function. *Biological Psychiatry*, Epub doi: 10.1016/j.biopsych.2013.12.018.
- Owen, J.P., Chang, Y.S., Pojman, N.J., Bukshpun, P., Wakahiro, M.J., Marco, E.J., Berman, J.I., Spiro, J.E., Chung, W.K., Buckner, R.L., Roberts, T.P.L., Nagarajan, S.S., Sherr, E.H., Mukherjee, P. (2014) Aberrant white matter microstructure in children with 16.11.2 deletions. *Journal of Neuroscience*, 34(18): 6214-6223.
- Zeng, L.L., Wang, D., Fox, M.D., Sabuncu, M., Hu, D., Ge, M., Buckner, R.L., Liu, H. (2014) Neurobiological basis of head motion in brain imaging. *Proceedings of the National Academy of Sciences USA*, 111(16): 6058-6062.
- Krienen, F.M., Yeo, B.T., Buckner, R.L. (2014) Reconfigurable state-dependent functional coupling modes cluster around a core functional architecture. *Philosophical Transactions of the Royal Society B*. 369(1653): doi: 10.1098/rstb.2013.0536.
- Yeo, B.T.T., Krienen, F.M., Eickhoff, S.B., Yaakub, S.N., Fox, P.T., Buckner, R.L., Asplund, C.L., Chee, M.W.L. (2014) Functional specialization and flexibility in human association cortex. *Cerebral Cortex*.
- Qureshi, A.Y., Mueller, S., Snyder, A.Z., Mukherjee, P., Berman, J.I., Roberts, T.P.L., Nagarajan, S.S., Spiro, J.E., Chung, W.K., Sherr, E.H., Buckner, R.L. (2014) Opposing brain differences in 16p11.2 deletion and duplication carriers. *Journal of Neuroscience*, 34(34): 11199-11211.
- Shenhav, A., Buckner, R.L. (2014) Neural correlates of dueling affective reactions to win-win choices. *Proceedings of the National Academy of Sciences USA*, 111(30): 10978-10983.
- Ripke, S., Neale, B.M., Corvin, A., Walters, J.T.R., Farh, K.-H., et al. Psychiatric Genomics Consortium. (2014) Biological insights from 108 schizophrenia-associated genetic loci. *Nature*, 511(7510): 421-427.
- Wang, D., Buckner, R.L., Liu, H. (2014) Functional specialization in the human brain estimated by intrinsic hemispheric specialization. *Journal of Neuroscience*, 34(37): 12341-12352.
- Fox, M.D., Buckner, R.L., Liu, H., Chakravarty, M.M., Lozano, A.M., Pascual-Leone, A. (2014) Resting state networks link invasive and noninvasive brain stimulation across diverse psychiatric and neurological diseases. *Proceedings of the National Academy of Sciences USA*, 111(41): 4367-4375.
- Hedden T, Schultz AP, Rieckmann A, Mormino EC, Johnson KA, Sperling RA, Buckner RL. (in press) Multiple brain markers linked to age-related variation in cognition. *Cerebral Cortex*.
- Fan, Q., Nummenmaa, A., Witzel, T., Zanzonico, R., Keil, B., et al. (in press) Investigating the capability to resolve complex white matter structures with high b-value diffusion MRI on the MGH-USC connectom scanner. *Brain Connectivity*.
- Hibar, D.P., Stein, J.L., Renteria, M.E., Arias-Vasquez, A., Desrivieres et al. (in press) Common genetic variants influence human subcortical structures. *Nature*.
- Ge, T., Nichols, T., Lee, P.H., Holmes, A.J., Roffman, J.L., Buckner, R.L., Sabuncu, M., Smoller, J.W. (under revision) Massively expedited genome-wide heritability analysis (MEGHA). *Proceedings of the National Academy of Sciences USA*.

BIBLIOGRAPHY (REVIEW ARTICLES AND COMMENTARIES):

- Buckner, R.L. (1996) Beyond HERA: Contributions of specific prefrontal brain areas to long-term memory retrieval. *Psychonomic Bulletin & Review*, 3:149-158.
- Buckner, R.L., Petersen, S.E. (1996) What does neuroimaging tell us about the role of prefrontal cortex in memory retrieval? *Seminars in the Neurosciences*, 8: 47-55.
- Shulman, G.L., Corbetta, M., Fiez, J.A., Buckner, R.L., Miezin, F.M., Raichle, M.E., Petersen, S.E. (1997) Searching for activations that generalize over tasks. *Human Brain Mapping*, 5: 317-322.
- Ojemann, J.G., Buckner, R.L., Corbetta, M., Raichle, M.E. (1997) Imaging Studies of Memory and Attention. *Neurosurgery Clinics of North America*, 8: 307-319.
- Buckner, R.L., Koutstaal, W. (1998) Functional neuroimaging studies of encoding, priming, and explicit memory retrieval. *Proceedings of the National Academy of Sciences USA*, 95: 891-898.
- Rosen, B.R., Buckner, R.L., Dale, A.M. (1998) Event-related fMRI: Past, present, and future. *Proceedings of the National Academy of Sciences USA*, 95: 773-780.
- Schacter, D.L., Buckner, R.L. (1998) Priming and the brain. *Neuron*, 20: 185-195.
- Schacter, D.L., Buckner, R.L. (1998) On the relations among priming, conscious recollection, and intentional

- retrieval: Evidence from neuroimaging research. *Neurobiology of Learning and Memory*, 70: 284-303.
- Schacter, D.L., Buckner, R.L., Koutstaal, W. (1998) Memory, consciousness, and neuroimaging. *Philosophical Transactions of the Royal Society London B*, 353: 1861-1878.
- Buckner, R.L. (1998) Event-Related fMRI and the Hemodynamic Response. *Human Brain Mapping*, 6: 373-377.
- Buckner, R.L., Kelley W.M., Petersen, S.E. (1999) Frontal cortex contributes to human memory formation. *Nature Neuroscience*, 2: 311-314.
- Donaldson, D.I., Buckner, R.L. (1999) Trying versus succeeding: Event-related designs dissociate memory processes. *Neuron*, 22: 412-414.
- Buckner, R.L., Logan, J., Donaldson, D.I., Wheeler, M.E. (2000) Cognitive neuroscience of episodic memory encoding. *Acta Psychologica*, 105: 127-139.
- Buckner, R.L. (2000) Neural origins of 'I remember'. *Nature Neuroscience*, 3: 1068-1069.
- Buckner, R.L., Wheeler, M.E. (2001) The cognitive neuroscience of remembering. *Nature Reviews Neuroscience*, 2: 624-634.
- Buckner, R.L. (2002) Frontally mediated control processes contribute to source memory retrieval. *Neuron*, 35: 817-818.
- Lee, B.C., Mintun, M., Buckner, R.L., Morris, J.C. (2003) Imaging of Alzheimer's Disease. *Journal of Neuroimaging*, 13: 199-214.
- Buckner, R.L. (2003) The hemodynamic inverse problem: Making inferences about neural activity from measured MRI signals. *Proceedings of the National Academy of Sciences USA*, 100: 2177-2179.
- Buckner, R.L. (2003) Functional-anatomic correlates of control processes in memory. *Journal of Neuroscience*, 23: 3999-4004.
- Buckner, R.L. (2004) The Potion's Magic. *Neuron*, 42: 526-527.
- Buckner, R.L. (2004) Memory and executive function in aging and AD: Multiple factors that cause decline and reserve factors that compensate. *Neuron*, 44: 195-208.
- Wagner, A.D., Shannon, B.J., Kahn, I., Buckner, R.L. (2005) Parietal lobe contributions to episodic memory retrieval. *Trends in Cognitive Science*, 9: 445-453.
- Buckner, R.L. Carroll, D.C. (2007) Self-projection and the brain. *Trends in Cognitive Science*, 11: 49-57.
- Buckner, R.L. (2007) Prospecction and the brain. *The Behavioral and Brain Sciences*. 30(3): 318-319.
- Buckner, R.L., Vincent, J.L. (2007) Unrest at rest: Default activity and spontaneous network correlations. *NeuroImage*, 37: 1091-1096.
- Schacter, D.L., Addis, D.R., Buckner, R.L. Remembering the past to imagine the future: the prospective brain. (2007) *Nature Reviews Neuroscience*, 8(9): 657-661.
- Buckner, R.L., Andrews-Hanna, J.R., Schacter, D.L. (2008) The brain's default network: Anatomy, function, and relevance to disease. *Annals of the New York Academy of Sciences*, 1124: 1-38.
- Schacter, D.L., Addis, D.R., Buckner, R.L. (2008) Episodic simulation of future events: concepts, data, and applications. *Annals of the New York Academy of Sciences*, 124: 39-60.
- Buckner, R.L. (2010) The role of the hippocampus in prediction and imagination. *Annual Review of Psychology*, 61: 27-48, C1-8.
- Buckner, R. L. (2010) Human functional connectivity: new tools, unresolved questions. *Proceedings of the National Academy of Sciences USA*, 107(24): 10769.
- Buckner, R.L. (2012) The serendipitous discovery of the brain's default network. *NeuroImage*, 62(2): 1137-1145.
- Buckner, R.L. (2013) The brain's default network: Origins and implications for the study of psychosis. *Dialogues in Clinical Neuroscience*, 15(3): 351-358.
- Buckner, R.L., Krienen, F.M., Yeo, B.T.T. (2013) Opportunities and limitations of intrinsic functional connectivity MRI. *Nature Neuroscience*, 16(7): 832-837.
- Buckner, R.L. (2013) The cerebellum and cognitive function: 25 years of insight from anatomy and neuroimaging. *Neuron*, 80(3): 807-815.
- Buckner, R.L., Krienen, F.M. (2013) The evolution of distributed association networks in the human brain. *Trends in Cognitive Science*, 17(12): 648-665.
- Buckner, R.L., Yeo, B.T.T. (2014) Borders, maps clusters, and supra-areal organization in visual cortex.

BIBLIOGRAPHY (BOOK CHAPTERS):

- Buckner, R.L., Tulving, E. (1995) Neuroimaging studies of memory: Theory and recent PET results. In Boller, F., and Grafman, J. (Eds) *Handbook of Neuropsychology Volume 10*, pp. 439-466. Amsterdam: Elsevier.
- Buckner, R.L., Petersen, S.E. (1998) Applications of neuroimaging to the study of memory. In Bechtel, W., and Graham, G. (Eds) *A Companion to Cognitive Science*, pp. 413-425. Oxford: Blackwell.
- Roediger, H.L., Buckner, R.L., McDermott, K.B. (1998) Components of processing. In Foster, J.K. and Jelicic, M. (Eds) *Unitary versus multiple systems accounts of memory*, pp. 31-65. New York: Oxford University Press.
- Buckner, R.L., Braver, T.S. (1999) Event related functional MRI. In Bandettini, P., and Moonen, C. (Eds) *Functional MRI*, pp. 441-450. Germany: Springer-Verlag.
- Buckner, R.L. (1999) Dual effect theory of episodic encoding. In Tulving, E. (Ed) *Memory, Consciousness, and the Brain: The Tallinn Conference*, pp. 278-292. Philadelphia: Psychology Press.
- Schacter, D.L., Wagner, A.D., Buckner, R.L. (2000) Memory systems of 1999. In Tulving, E., and Craik, F.I.M. (Eds) *The Oxford Handbook of Memory*, pp. 627-643. New York: Oxford University Press.
- Buckner, R.L. (2000) Neuroimaging of memory. In Gazzaniga, M.S. (Ed) *The New Cognitive Neurosciences, 2nd Edition*, pp. 817-828. Cambridge: MIT Press.
- Buckner, R.L. (2000) Functional brain imaging techniques. *Encyclopedia of Psychology*. Washington, D.C.: American Psychological Association Books.
- Buckner, R.L., Petersen, S.E. (2000) Neuroimaging of functional recovery. In Levin A., and Grafman, J. (Eds) *Cerebral reorganization of function after brain damage*, pp. 318-330. New York: Oxford University Press.
- Buckner, R.L., Logan, J.M. (2001) Functional neuroimaging methods: PET and fMRI. In Kingstone, A., and Cabeza, R. (Eds) *Handbook of Functional Neuroimaging of Cognition*. pp. 27-48. Cambridge: MIT Press.
- Donaldson, D.I., Buckner, R.L. (2001) Effective paradigm design. In Jezzard, P., Matthews, P.M., and Smith, S.M. (Eds) *Functional MRI: An Introduction to Methods*, pp. 177-196. Cambridge: Oxford University Press.
- Buckner, R.L., Logan, J.M. (2002) Frontal contributions to episodic encoding in the young and elderly. In Parker, A.E., Wilding, E.L., and Bussey, T. (Eds) *The Cognitive Neuroscience of Memory Encoding and Retrieval*, pp. 59-81. New York: Psychology Press.
- McDermott, K.B., Buckner, R.L. (2002) Functional anatomic correlates of human memory retrieval. In Squire, L.R., and Schacter, D.L. (Eds) *Neuropsychology of memory*, Third Edition, pp. 166-173. New York: Guilford Press.
- Buckner, R.L. (2004) Three principles for cognitive aging research: Multiple causes and sequelae, variance in expression and response, and the need for integrative theory. In Cabeza, R., Nyberg L., Park, D. (Eds) *Cognitive Neuroscience of Aging*, pp. 265-283. New York: Oxford University Press.
- Buckner, R.L., Schacter, D.L. (2004) Neural Correlates of Memory's Successes and Sins. In Gazzaniga, M. (Ed) *The Cognitive Neurosciences, Third Edition*, pp. 739-752. Cambridge: MIT Press.
- Buckner, R.L., Martin, T.A., Keating, J.G., Fiez, J.A. (2005) Throwing in a world shifted by prisms: A demonstration of visual-motor learning. In Silverthorn, D.U., Johnson, B.R., Mills, A.C. (Eds) *Laboratory Manual for Physiology*. pp. 77-92. Benjamin Cummings.
- Keating, J.G., Martin, T.A., Fiez, J.A., Buckner, R.L. (2005) Altered limb position sense by muscle vibration. In Silverthorn, D.U., Johnson, B.R., and Mills, A.C. (Eds) *Laboratory Manual for Physiology*. pp. 485-495. Benjamin Cummings.
- Fiez, J.A., Buckner, R.L., Keating, J.G., Martin, T.A. (2005) The human brain and memory: Using behavioral measures to study cognitive functions. In Silverthorn, D.U., Johnson, B.R., and Mills, A.C. (Eds) *Laboratory Manual for Physiology*. pp. 231-258. Benjamin Cummings.
- Buckner, R.L., Head, D., Lustig, C. (2005) Brain changes in aging: A lifespan perspective. In Craik, F.I.M., and Bialystok, E. (Eds) *Lifespan Cognition: Mechanisms of Change*. New York: Oxford University Press.