

## Curriculum Vita

Jeffrey D. Schall

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Address Department of Psychology Phone (615) 322-0868 voice  
Wilson Hall (615) 343-8449 FAX  
Vanderbilt University  
Nashville, TN 37240 Email [jeffrey.d.schall@vanderbilt.edu](mailto:jeffrey.d.schall@vanderbilt.edu)  
ORCID [orcid.org/0000-0002-5248-943X](http://orcid.org/0000-0002-5248-943X)

### Education

1986 Ph.D., Anatomy, University of Utah, Salt Lake City, Utah.  
1982 B.S.Chem., Chemistry, University of Denver, Denver, Colorado.

### Scholastic and Professional Distinction

2014 Fellow, American Association for the Advancement of Science  
2009 Chancellor's Research Award, Vanderbilt University  
2004 Fellow, Association of Psychological Science  
2002 Elected, International Neuropsychology Symposium  
2001 Ellen Gregg Ingalls Award for Excellence in Classroom Teaching  
1998 Troland Research Award, National Academy of Sciences  
1997-2000 Investigator Award, McKnight Endowment Fund for Neuroscience  
1990-1992 Alfred P. Sloan Research Fellow  
1987 Association of Anatomy Chairmen Outstanding Dissertation Award Finalist, American Association of Anatomists.  
1986 James W. Prahl Memorial Award for the Outstanding Graduate Student, University of Utah School of Medicine.  
1986 Phi Kappa Phi, University of Utah.  
1984 Graduate Research Fellow, University of Utah.  
1982 Phi Beta Kappa, University of Denver.  
1980 University Scholar, University of Denver.

### Professional Experience

2003 - E. Bronson Ingram Professor of Neuroscience, Vanderbilt University  
2000- Director, Center for Integrative & Cognitive Neuroscience  
1999- Professor, Department of Psychology, Vanderbilt University  
1998-2015 Director, Vanderbilt Vision Research Center  
1998-2019 Director, Vision Training Program  
1995-1999 Associate Professor, Department of Psychology, Vanderbilt University  
1990- Kennedy Center Investigator  
1989-1995 Assistant Professor, Department of Psychology, Vanderbilt University  
1986-1989 Postdoctoral Fellow, Department of Brain & Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts, P.H. Schiller, Ph.D.  
1982-1986 Research Associate, Department of Anatomy, University of Utah, Salt Lake City, Utah, A.G. Leventhal, Ph.D.  
1981-1982 Research Assistant, Brain Research Laboratory, National Jewish Hospital and Asthma Center, Denver, Colorado, D.W. Shucard, Ph.D.

1980-1982 Research Assistant, Physiological Psychology Laboratory, Department of Psychology, University of Denver, Denver, Colorado, J.A. Trowill, Ph.D., and M.L. Laudenslager, Ph.D.

### **Funding**

1986-1989 National Research Service Award, National Eye Institute, EY05959, The Role of the Supplementary Motor Area in Eye Movements, \$63,996 total costs for 3 years.

1990-1992 Alfred P. Sloan Research Fellowship, \$25,000 total costs

1991-1993 P.I., McDonnell-Pew Program in Cognitive Neuroscience, 90-39, Neural Correlates of Directed Visual Attention in Visuomotor Cortex of Macaque Monkeys, \$60,000 total costs

1991-1996 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex, \$554,169 total costs

1993 P.I., University Research Council, Support for Behavioral Physiology Experiments, \$6,013

1993-1996 Sponsor, Kirk Thompson, NRSA F32-EY06495, National Eye Institute, Thalamocortical Transformations: Visuomotor Thalamus, \$75,900 total costs

1993-1996 Sponsor, Kirk Thompson, McDonnell-Pew Program in Cognitive Neuroscience, Neural Correlates of Visual Awareness, \$90,000 total costs

1994-1995 Preceptor, Doug P. Hanes, T32-EY07135 National Eye Institute, Training Grant in Vision Research.

1995-1998 Sponsor, Doug Hanes, NRSA F31-MH11178, National Institute of Mental Health, Regulation of Saccade Initiation: Frontal Cortex \$39,024

1995-1996 Neuroscience module director, Howard Hughes Medical Institute Undergraduate Biological Sciences Education Program (71195-513803), \$76,100 direct costs (supplemented by \$32,000 from College of Arts & Sciences)

1996-2000 P.I., National Eye Institute, R01-EY08890 renewal, Saccade Target Selection: Frontal Cortex, \$722,735 total costs

1996-2001 P.I., National Institute of Mental Health, R01-MH55806, Neural Control of Voluntary Movement, \$838,792 total costs

1997-2000 Investigator Award, McKnight Endowment Fund for Neuroscience, Neural Selection and Control of Visually Guided Action \$150,000 total costs

1998-2003 P.I., National Eye Institute, T32-EY07135, Training Grant in Vision Research, \$828,258 total direct costs

1998-2003 P.I., National Eye Institute, P30-EY08126, Core Grant in Vision Research, \$1,892,148 total costs

2000-2005 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex, \$1,868,460 total costs

2001-2006 P.I., National Institute of Mental Health, R01-MH55806, Neural Control of Voluntary Movement, \$1,756,946 total costs

2002-2005 Sponsor, Stephanie Shorter-Jacobi, NRSA F32-EY14502, National Eye Institute, Neural Control of Orienting by Macaque Frontal Eye Field

2002-2005 coP.I. (with Gordon Logan and Tom Palmeri), National Science Foundation BCS0218507, Stochastic Models of Executive Control in Monkeys and Humans, Joint NSF/NIH Initiative to Support Collaborative Research in Computational Neuroscience, \$756,181 total costs

2003-2006 Sponsor, Geoff Woodman, NRSA F32 EY015043, National Eye Institute, Neural Correlates of Visual Object-Substitution Masking

2004-2007 coSponsor (with Tom Palmeri), Leanne Boucher, NRSA F32EY016679, National Eye

- Institute, Modeling Interactive Motor Processes
- 2004-2009 P.I., National Eye Institute, T32-EY07135, Training Grant in Vision Research, \$2,832,395 total costs
- 2004-2009 P.I., National Eye Institute, P30-EY08126, Core Grant in Vision Research, \$3,020,000 total costs
- 2005-2010 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex, \$1,868,460 total costs
- 2006-2008 Sponsor, Melanie Leslie, NRSA F32EY017765, National Eye Institute, Ensemble Neural Monitoring and Saccadic Control
- 2006-2011 P.I., National Institute of Mental Health, R01-MH55806, Neural Control of Voluntary Movement, \$1,726,688 total costs
- 2007-2010 coPI with Gordon Logan, Air Force Office of Scientific Research, FA9550-07-1-0192, Modeling the Role of Priming in Executive Control: Cognitive and Neural Constraints, \$707,000 total costs
- 2007-2010 PI, MacArthur Law and Neuroscience Project, Neurons, Actions, Reasons and Crimes - A Dialogue between Law and Neuroscience, \$10,000 total costs
- 2008-2011 coSponsor (with Sohee Park), Katherine Thakkar, NRSA F31MH085405, National Institute of Mental Health, Control of action in schizophrenia: Countermanding saccades and ERP
- 2009-2011 Sponsor, Richard Heitz, , NRSA F32EY019851, National Eye Institute, Neurophysiological Correlates Of Decision Formation
- 2010-2015 P.I., National Eye Institute, T32-EY07135, Training Grant in Vision Research, \$2,832,395 total costs
- 2010-2015 P.I., National Eye Institute, P30-EY08126, Core Grant in Vision Research, \$3,875,000 total costs
- 2011-2015 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex, \$1,558,750 total costs
- 2011-2014 multi-PI with Tom Palmeri & Gordon Logan, National Eye Institute, 1R01EY21833, Stochastic Models of Visual Search
- 2012-2017 P.I., National Institute of Mental Health, R01-MH55806, Neural Control of Voluntary Movement, \$390,000 total costs
- 2013-2015 coSponsor (with Geoff Woodman), Joshua Cosman, NRSA, F32EY023922, National Eye Institute, The Role of Long-Term Contextual Memory in Attentional Control
- 2013-2015 Sponsor, Paul Middlebrooks, NRSA F32EY23526, National Eye Institute, Neuronal mechanisms of response inhibition during decision making
- 2014-2018 multi-PI with Tom Palmeri & Gordon Logan, National Eye Institute, 1R01EY21833, Stochastic Models of Visual Decision Making and Visual Search
- 2015-2020 coPI (with Geoff Woodman), National Eye Institute, T32-EY07135, Training Grant in Vision Research
- 2015-2016 P.I., National Eye Institute, P30-EY08126, Core Grant in Vision Research  
Principal Investigator transferred to David Calkins
- 2015-2016 Co-Investigator (with Charles Caskey), Focused Ultrasound Surgery Foundation, High-Risk Track, Noninvasive targeted neuromodulation and functional imaging in behaving macaques
- 2015-2018 P.I., National Eye Institute, R01-EY08890, Saccade Target Selection: Frontal Cortex
- 2016-2018 Co-Investigator (with Charles Caskey), National Institute of Mental Health, R24-MH109105, Neuron selective modulation of brain circuitry in non-human primates
- 2015-2017 Co-Sponsor, Brent Miller, NRSA F32EY025538, National Eye Institute, Ensemble

accumulator modeling of speed-accuracy tradeoff in visual search**Teaching Experience**

Neuroscience & Law (with Owen Jones of VU Law School), College Scholars Program: Neuroethics, Methods in Behavioral Neuroscience, Movement, Introduction to Neuroscience, Seminar in Physiological Psychology: Psychology of Human Motor Control, Brain & Behavior, Freshman Seminar, Seminar in Physiological Psychology: Current Issues in Neuroscience, Seminar in Physiological Psychology: Eye Movements and Attention, Brain & Behavior, College Scholars Program: Seminar in Neuroscience

**Graduate students supervised**

- 1991-1997 Doug Hanes, Department of Psychology Graduate Program.  
Intramural fellow with Robert Wurtz in the Laboratory for Sensorimotor Research, NIH  
Currently Divisional Vice President and General Manager, GMAC Insurance
- 1994-1999 Narcisse Bichot, Department of Psychology Graduate Program  
Currently Research Scientist, Massachusetts Institute of Technology
- 1999-2003 Takashi Sato, Department of Psychology Graduate Program  
Currently Assistant Professor, Centre for Integrative Neuroscience, University of Tubingen
- 2001-2003 Shigehiko Ito, Department of Psychology Graduate Program  
Currently Legal Associate, White & Case LLP
- 2004 - 2009 Jeremiah Cohen, Neuroscience Graduate Program  
Currently Assistant Professor, Department of Neuroscience, Johns Hopkins University School of Medicine.
- 2003-2006 Corrie Camalier (with Gordon Logan and Tom Palmeri), Neuroscience Graduate Program  
Currently Postdoctoral Fellow, Laboratory of Neuropsychology, NIMH
- 2002 - 2010 Erik Emeric, Neuroscience Graduate Program  
Currently Research Associate with Veit Stuphorn, Zanvyl Krieger Mind-Brain Institute, Johns Hopkins University
- 2006 - 2011 Matthew Nelson, California Institute of Technology Graduate Program  
Currently postdoctoral research associate with Stan Dehaene, INSERM-CEA Cognitive Neuroimaging Unit
- 2006 - 2012 Katherine Thakkar (with Sohee Park), Psychological Sciences Graduate Program  
Currently Assistant Professor of Psychology, Michigan State University
- 2007 - 2013 Braden Purcell (with Tom Palmeri and Gordon Logan), Psychological Sciences Graduate Program  
Currently postdoctoral fellow with Roozbeh Kiani and XJ Wang, Center for Neural Science, New York University
- 2008 - 2013 David Godlove, Neuroscience Graduate Program

- Currently postdoctoral fellow with David Leopold, Section on Cognitive Neurophysiology and Imaging, NIMH
- 2010 - Robert Reinhart (with Geoff Woodman), Psychological Sciences Graduate Program
- 2011 Masters Thesis advisor for Mirjam Bloemendaal, MSc in Brain and Cognitive Sciences, University of Amsterdam, Cognitive Science
- 2013 - 2014 Dylan Morrow-Jones, Neuroscience Graduate Program
- 2014 - 2016 Siyuan Yin, Psychological Sciences Graduate Program
- 2015 - Kaleb Lowe, Psychological Sciences Graduate Program

**Postdoctoral fellows and associates supervised**

- 1992-2000 Kirk G. Thompson, NEI Research Fellow, Research Assistant Professor currently Scientific Review Officer, CSR, NIH, Bethesda, Maryland
- 1997-2000 Chenchal Rao Subraveti, Research Associate currently computer programmer, Vanderbilt University Medical Center
- 1998-2000 Tracy Taylor, NSERC Fellow currently Professor, Department of Psychology, Dalhousie University
- 1998-2003 Veit Stuphorn, Research Fellow, DFG Forschungsstipendium currently Associate Professor, Department of Psychological and Brain Sciences, The Johns Hopkins University
- 1998-2001 Aditya Murthy, Research Associate currently Associate Professor, Centre for Neuroscience, Indian Institute of Science
- 2000-2001 Joshua Brown, Research Associate currently Associate Professor, Department of Psychological and Brain Sciences, Indiana University
- 2002 -2003 Chi-Hung Juan, Research Associate currently Professor, Institute of Cognitive Neuroscience, National Central University, Taiwan
- 2001 - 2006 Stephanie Shorter, NEI Research Fellow currently Director of Research and Publications for the Yoga Care Foundation, Austin, Texas.
- 2002 - 2007 Geoff Woodman, NEI Research Fellow currently Associate Professor, Department of Psychology, Vanderbilt University
- 2005 - 2008 Melanie Leslie, NEI Research Fellow

- currently Research Coordinator, Department of Neurology, Vanderbilt University
- 2004 - 2008 Pierre Pouget, Research Associate  
currently Faculty Member, Université Pierre et Marie Curie, Institut du Cerveau et de la Moelle épinière (ICM), Paris, France
- 2003 - 2009 Leanne Boucher, NEI Research Fellow  
currently Associate Professor, Nova Southeastern University
- 2007 - 2009 Supriya Ray, Research Associate  
currently Assistant Professor and Wellcome Trust DBT Intermediate Fellow, Centre of Behavioural and Cognitive Sciences (CBCS), University of Allahabad
- 2009 - 2010 Claudia Wilimzig, Research Associate  
currently Medical Writer for Carl Zeiss Meditec, Berlin, Germany
- 2007 - 2014 Richard Heitz, NEI Research Fellow  
currently Senior Scientist, Abbott Laboratories, Chicago, IL
- 2011 – 2014 Bram Zandbelt, Postdoctoral research associate (with Gordon Logan & Tom Palmeri)  
currently Research Associate with Roshan Cools, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Nijmegen, Netherlands.
- 2013 - 2015 Taihei Ninomiya, Postdoctoral research associate  
currently Program-Specific Researcher, Primate Research Institute, Kyoto University
- 2011 - 2016 Josh Cosman, NEI research fellow (with Geoff Woodman)  
currently Associate Director of Translational Neuromedicine, Pfizer Inc., Cambridge MA
- 2011 - 2016 Kiesuke Fukuda, Postdoctoral research associate (with Geoff Woodman)  
Assistant Professor, Department of Psychology, University of Toronto Mississauga
- 2011 - Paul Middlebrooks, NEI research fellow (with Gordon Logan & Tom Palmeri)
- 2013 - Wolf Zinke, Postdoctoral research associate (with Geoff Woodman)
- 2014 - Brent Miller, NEI research fellow (with Tom Palmeri & Gordon Logan)
- 2016 - Mathieu Servant, Postdoctoral research associate (with Gordon Logan, Tom Palmeri & Geoff Woodman)
- 2016 - Thomas Reppert, Postdoctoral research associate
- 2016 - Amir Sajad, Postdoctoral research associate

#### **Professional Service - Manuscript Review**

- 2010- Editorial Board for *Frontiers in Neuroscience*  
2009- Advisory Board for *Faculty of 1000 Biology Reports*

2002- Editorial Board, *Journal of Neurophysiology*  
 2001-2006 Associate Editor, *Journal of Neuroscience*  
 2001- Abstract Review Committee, Vision Science Society  
 Reviewer for *Cerebral Cortex*, *Cognitive Psychology*, *European Journal of Neuroscience*, *Experimental Brain Research*, *Journal of Experimental Psychology: General*, *Journal of Experimental Psychology: Human Perception and Performance*, *Nature*, *Nature Neuroscience*, *Neuroimage*, *Neuron*, *Proceedings of the National Academy of Sciences*, *Public Library of Science*, *Science*, *Trends in Cognitive Science*

#### Professional Service - Grant Review

2015 National Eye Institute Board of Scientific Counselors (ad hoc)  
 2013 National Institutes of Health, special emphasis panel review: Neurobiology of active vision (Chair)  
 2012 National Eye Institute, Special Emphasis Panel to review P30 grants  
 2010, 2011 National Eye Institute, Special Emphasis Panel to review T32 grants (2010 Chair)  
 2007 - 2009 Chair, NIH Central Visual Processing Study Section  
 2005 - NIH Central Visual Processing Study Section  
 2003, 2004 National Eye Institute, Special Emphasis Panel to review R01 grants  
 2002 National Eye Institute, Special Emphasis Panel to review Core Grants.  
 2000, 2001 National Institute of Mental Health, Neuroscience and Behavioral Science Review Branch, Silvio Conte Center Grants  
 1999, 2001 National Eye Institute, Special Emphasis Panel to review T32 grants.  
 1999, 2001 National Science Foundation, Sensory Systems  
 1998 National Eye Institute, Mentored Clinical Scientist Development Award  
 1998 National Science Foundation, Division of Integrative Biology and Neuroscience  
 1997 National Science Foundation, Behavioral Neuroscience  
 1996 The Wellcome Trust  
 1996 The Israel Science Foundation  
 1996 Department of Veterans Affairs Merit Review application for the VA Medical Research Service  
 1993 NIH Neurological Disorders Program Project Review B Committee  
 1993 Ad hoc, NIH Behavioral and Neurosciences Study Section 1

#### Professional Service – Other

2017, 2019 Co-Chair, Gordon Research Conference on Eye Movements  
 2015-2019 Vision Science Society Board of Directors, Treasurer  
 2013- International Scientific Advisory Board for the Brain and Mind Institute (BMI), University of Western Ontario  
 2003 Advisory Panel for 5 year Strategic Plan for Strabismus, Amblyopia and Visual Processing, National Eye Institute  
 2003 Advisory Board, Silvio O. Conte Center for Neuroscience Research: Cognitive and Neural Mechanisms of Conflict and Control, Princeton University  
 2001 I-RITE, Stanford University  
 2001- Program committee, Vision Science Society  
 1992 Judge for 43rd International Science and Engineering Fair, Nashville, TN  
 1988 Participated in the Science-by-Mail program for school children, Boston Science Museum.  
 1984, '85, '86 Judge for Intermountain Junior Science and Humanities Symposium, University of Utah

### **Department, College & University Service**

- 2014- Institutional Animal Care & Use Committee
- 2008-2009 Task Force on Graduate Education, Vanderbilt University
- 2006-2008 Board of Advisors for the Vanderbilt University Center for Ethics
- 2004 Internal Advisory Committee, Vanderbilt University Institute of Imaging Science
- 2003-2004 Committee on Moral Reasoning, Vanderbilt University
- 2003- Kennedy Center Core Advisory Committee
- 2002 *Ad hoc* committee on Undergraduate Research, Vanderbilt University
- 2002- Advisory Committee for Interdisciplinary Major in Communication of Science, Engineering and Technology, Vanderbilt University
- 2001- Faculty Advisory Committee for Large Animals, Vanderbilt University
- 2001 Search committee for the Chair, Department of Ophthalmology & Visual Science, Vanderbilt University
- 2001- Discovery Grant Review Committee, Vanderbilt University
- 2000- Director, *Center for Integrative & Cognitive Neuroscience*
- 2000-2001 Search committee, Division of Animal Care clinical veterinarian
- 1999-2003 Director, Sensory Sciences and Neural Plasticity program, Kennedy Center
- 1999- Neuroscience Council, Advisory Committee for Vanderbilt Brain Institute
- 1999- Neuroscience Graduate Program Faculty Advisory Committee
- 1999-2001 Organizing Committee for Vanderbilt University Conference on Genomics, May 2001
- 1999-2000 Kennedy Center Research Associate Review Committee
- 1999 College of Arts & Science, Admissions Committee
- 1998-1999 Chair, Committee to recommend a Center for Integrative and Cognitive Neuroscience, Vanderbilt University
- 1998-1999 Search Committee for Associate Provost for Research, Vanderbilt University
- 1998 Transinstitutional Research Committee, Vanderbilt University
- 1998- 2003 Kennedy Center Coordinating Committee
- 1998 Participant in workshop “Worlds Apart - Chronicling Discovery”, organized by Rick Chappell and Jim Hartz, sponsored by the First Amendment Center and the Office for Media Relations, Vanderbilt University
- 1996-1997 Committee to Develop Undergraduate Neuroscience Major, College of Arts & Sciences, Vanderbilt University
- 1996-1997 Vanderbilt University Research Strategy and Policy Committee
- 1994-2000 Vanderbilt University Animal Care Committee
- 1993-2000 Director of Department of Psychology Animal Facility, Vanderbilt University.
- 1993 Department of Psychology ad hoc Committee on Faculty Recruitment
- 1990- Graduate Studies Committee, Department of Psychology, Vanderbilt University.

### **Professional Affiliations**

- 2007- Society for Evolutionary Analysis in Law
- 2003- Association of Psychological Science
- 2002- American Physiological Society
- 2001- 2003 International Neuropsychology Symposium
- 1995- Neural Control of Movement
- 1993- Cognitive Neuroscience Society



- 1986- American Association for the Advancement of Science  
 1984- Association for Research in Vision and Ophthalmology  
 1983- Society for Neuroscience

#### Books

Owen D. Jones, Jeffrey D. Schall, Francis X. Shen (2014) *LAW AND NEUROSCIENCE*. Wolters Kluwer Law & Business. June 16, 2014. <http://www.psy.vanderbilt.edu/courses/neurolaw/>

Owen D. Jones, Jeffrey D. Schall, Francis X. Shen (2015) *LAW AND NEUROSCIENCE: A Teachers Manual*. Wolters Kluwer Law & Business.

David Calkins, Vivien Casagrande, Jeffrey D Schall, Geoffrey F Woodman (Editors) *THE VISUAL SYSTEM*. Sinauer (to appear 2017).

#### Peer-reviewed Publications

- 1) Leventhal, A.G. & **J.D. Schall** (1983) Structural basis of orientation sensitivity in cat retinal ganglion cells. *Journal of Comparative Neurology* 220:465-475.
- 2) Leventhal, A.G., **J.D. Schall** & W. Wallace (1984) Relationship between preferred orientation and receptive field position of neurons in extrastriate cortex (area 19) in the cat. *Journal of Comparative Neurology* 222:445-451.
- 3) Vitek, D.J., **J.D. Schall** & A.G. Leventhal (1985) Morphology, central projections and dendritic field orientation of retinal ganglion cells in the ferret. *Journal of Comparative Neurology* 241:1-11.
- 4) **Schall, J.D.**, V.H. Perry & A.G. Leventhal (1986) Retinal ganglion cell dendritic fields in old-world monkeys are oriented radially. *Brain Research* 368:18-23.
- 5) **Schall, J.D.**, D.J. Vitek & A.G. Leventhal (1986) Retinal constraints on orientation specificity in cat visual cortex. *Journal of Neuroscience* 6:823-836.
- 6) **Schall, J.D.** & A.G. Leventhal (1987) Relationships between ganglion cell dendritic structure and retinal topography in the cat. *Journal of Comparative Neurology* 257:149-159.
- 7) **Schall, J.D.**, V.H. Perry & A.G. Leventhal (1987) Ganglion cell dendritic structure and retinal topography in the rat. *Journal of Comparative Neurology* 257:160-165.
- 8) Leventhal, A.G., **J.D. Schall** & S.J. Ault (1988) Extrinsic determinants of retinal ganglion cell morphology in the cat. *Journal of Neuroscience* 8:2028-2038.
- 9) Leventhal, A.G., **J.D. Schall**, S.J. Ault, J.M. Provis & D.J. Vitek (1988) Class specific cell death shapes the distribution and pattern of central projection of cat retinal ganglion cells. *Journal of Neuroscience* 8:2011-2027.
- 10) **Schall, J.D.**, S.J. Ault, D.J. Vitek & A.G. Leventhal (1988) Experimental induction of an ipsilateral visual field representation in the visual pathway of normally pigmented cats. *Journal of Neuroscience* 8:2039-2048.
- 11) Logothetis, N.K. and **J.D. Schall** (1989) Neuronal correlates of subjective visual perception. *Science* 245:761-763
- 12) Logothetis, N.K. and **J.D. Schall** (1990) Binocular motion rivalry in macaque monkeys: Eye dominance and tracking eye movements. *Vision Research* 30:1409-1419.
- 13) Garraghty, P.E., **J.D. Schall** and J.H. Kaas (1990) Normal somatotopy in SI of tyrosinase-negative albino cats. *Brain Research* 536:315-317.
- 14) **Schall, J.D.** (1991) Neuronal activity related to visually guided saccadic eye movements in the supplementary motor area of rhesus monkeys. *Journal of Neurophysiology* 66:530-558.
- 15) **Schall, J.D.** (1991) Neuronal activity related to visually guided saccades in the frontal eye fields of rhesus monkeys: Comparison with supplementary eye fields. *Journal of Neurophysiology* 66:559-579.

- 16) Parthasarathy, H.B., **J.D. Schall** and A.M. Graybiel (1992) Distributed but convergent ordering of striatal projections: The frontal eye field and the supplementary eye field in the monkey. *Journal of Neuroscience* 12:4468-4488.
- 17) **Schall, J.D.**, A. Morel and J. Kaas (1993) Topography of supplementary eye field afferents to frontal eye field in macaque: Implications for mapping between saccade coordinate systems. *Visual Neuroscience* 10:385-393.
- 18) **Schall, J.D.**, M.R. Nawrot, R. Blake, K.P. Yu (1993) Visually guided attention is neutralized when informative cues are visible but unperceived. *Vision Research* 33:2057-2064.
- 19) **Schall, J.D.** and D.P. Hanes (1993) Neural basis of saccade target selection in frontal eye field during visual search. *Nature* 366:467-469.
- 20) Hanes, D.P., Thompson, K.G. and **J.D. Schall** (1995) Relationship of presaccadic activity in frontal eye field and supplementary eye field to saccade initiation in macaque: Poisson spike train analysis. *Experimental Brain Research* 103:85-96.
- 21) **Schall, J.D.**, A. Morel, D. King and J. Bullier (1995) Topography of visual cortical afferents to frontal eye field in macaque: Convergence and segregation of processing streams. *Journal of Neuroscience* 15:4464-4487.
- 22) Hanes, D.P. and **J.D. Schall** (1995) Countermanding saccades in macaque. *Visual Neuroscience* 12:929-937.
- 23) **Schall, J.D.**, D.P. Hanes, K.G. Thompson and D.J. King (1995) Saccade target selection in frontal eye field of macaque. I. Visual and premovement activation. *Journal of Neuroscience* 15:6905-6918.
- 24) Bichot, N.P., **J.D. Schall** and K.G. Thompson (1996) Visual feature selectivity in frontal eye fields induced by experience in mature macaques. *Nature* 381:697-699.
- 25) Hanes, D.P. and **J.D. Schall** (1996) Neural control of voluntary movement initiation. *Science* 274:427-430.
- 26) Thompson, K.G., D.P. Hanes, N.P. Bichot and **J.D. Schall** (1996) Perceptual and motor processing stages identified in the activity of macaque frontal eye field neurons during visual search. *Journal of Neurophysiology* 76:4040-4055.
- 27) Thompson, K.G., N.P. Bichot and **J.D. Schall** (1997) Dissociation of target selection from saccade planning in macaque frontal eye field. *Journal of Neurophysiology* 77:1046-1050.
- 28) Hanes, D.P., W.F. Patterson, **J.D. Schall** (1998) The role of frontal eye field in countermanding saccades: Visual, movement and fixation activity. *Journal of Neurophysiology* 79:817-834.
- 29) Schmolesky, M.T. Y.-C. Wang, D.P. Hanes, K.G. Thompson, S. Leutgeb, **J.D. Schall** and A.G. Leventhal (1998) Signal timing across the macaque visual system. *Journal of Neurophysiology* 79:3272-3278.
- 30) Bichot, N.P. and **J.D. Schall** (1999) Saccade target selection in macaque during feature and conjunction visual search. *Visual Neuroscience* 16:81-89.
- 31) Thompson, K.G. and **J.D. Schall** (1999) The detection of visual signals by macaque frontal eye field during masking. *Nature Neuroscience* 2:283-288.
- 32) Bichot, N.P. and **J.D. Schall** (1999) Effects of similarity and history on neural mechanisms of visual selection. *Nature Neuroscience* 2:549-554.
- 33) Thompson, K.G. and **J.D. Schall** (2000) Antecedents and correlates of visual detection and awareness in macaque prefrontal cortex. *Vision Research* 40:1523-1538.
- 34) Stuphorn V, Taylor TL, **Schall JD** (2000) Performance monitoring by supplementary eye field. *Nature* 408:857-860.
- 35) Bichot NP, Thompson KG, Rao SC, **Schall JD** (2001) Reliability of frontal eye field neurons signaling saccade targets during visual search. *Journal of Neuroscience* 21:713-725.
- 36) Bichot NP, Rao SC, **Schall JD** (2001) Continuous processing in macaque frontal cortex during visual

- search. *Neuropsychologia* 39:972-982.
- 37) Sato T, **Schall JD** (2001) Pre-excitatory pause in frontal eye field responses. *Experimental Brain Research* 139:53-58.
  - 38) Sato T, Murthy A, Thompson KG, **Schall JD** (2001) Effect of search efficiency but not response interference on visual selection in frontal eye field. *Neuron* 30:583-591.
  - 39) Murthy A, Thompson KG, **Schall JD** (2001) Dynamic dissociation of visual selection from saccade programming in frontal eye field. *Journal of Neurophysiology* 86:2634-2637.
  - 40) Bichot NP, **Schall JD** (2002) Priming in macaque frontal cortex during popout visual search: feature-based facilitation and location-based inhibition of return. *Journal of Neuroscience* 22:4675-4685.
  - 41) Sato T, Watanabe K, Thompson KG, **Schall JD** (2003) Effect of target-distractor similarity on FEF visual selection in the absence of the target. *Experimental Brain Research* 151:356-363.
  - 42) Sato T, **Schall JD** (2003) Effects of stimulus-response compatibility on neural selection in frontal eye field. *Neuron* 38:637-648.
  - 43) Ito S, Stuphorn V, Brown JW, **Schall JD** (2003) Performance monitoring by the anterior cingulate cortex during saccade countermanding. *Science* 302:120-122.
  - 44) **Schall JD** (2004) On the role of frontal eye field in guiding attention and saccades. *Vision Research* 44:1453-1467.
  - 45) **Schall JD**, Sato TR, Thompson KG, Vaughn AA, Juan C-H. (2004) Effects of search efficiency on surround suppression during visual selection in frontal eye field. *Journal of Neurophysiology* 91:2765-2769.
  - 46) Ray S, **Schall JD**, Murthy A (2004) Programming of double-step saccade sequences: Modulation by cognitive control. *Vision Research* 44:2707-2718.
  - 47) Juan C-H, Shorter-Jacobi SM, **Schall JD** (2004) Dissociation of spatial attention and saccade preparation. *Proceedings of the National Academy of Sciences* 101:15541-15544.
  - 48) Pouget P, Emeric EE, Stuphorn V, Reis K, **Schall JD** (2005) Chronometry of visual responses in frontal eye field, supplementary eye field and anterior cingulate cortex. *Journal of Neurophysiology* 94:2086-2092.
  - 49) Royal DW, Sary G, **Schall JD**, Casagrande VA. (2005) Correlates of motor planning and postsaccadic fixation in the macaque monkey lateral geniculate nucleus. *Experimental Brain Research* Sep 168:62-75.
  - 50) Ruiz O, Royal DW, Sary G, Chen X, **Schall JD**, Casagrande VA. (2006) Low-threshold  $Ca^{2+}$ -associated bursts are rare events in the LGN of the awake behaving monkey. *Journal of Neurophysiology* 95:3401-3413
  - 51) Stuphorn V, **Schall JD**. (2006) Executive control of countermanding saccades by the supplementary eye field. *Nature Neuroscience* 9:925-931.
  - 52) Emeric EE, Brown JW, Carpenter RHS, Hanes DP, Harris R, Logan GD, Mashru RN, Paré M, Pouget P, Stuphorn V, Taylor TL, **Schall JD** (2007) Influence of history on saccade countermanding performance by humans and macaque monkeys. *Vision Research* 47:35-49. PMID: PMC1815391.
  - 53) Murthy A, Ray S, Shorter-Jacobi SM, **Schall JD**, Thompson KG (2007) Frontal eye field contributions to rapid corrective saccades. *Journal of Neurophysiology* 97:1457-1469. PMID: 17135479.
  - 54) Boucher L, Logan GD, Palmeri TJ, **Schall JD** (2007) Inhibitory control in mind and brain: An interactive race model of countermanding saccades. *Psychological Review* 114:376-397. PMID: 17500631.
  - 55) Camalier, CR, A.Gotler, A.Murthy, K.G.Thompson, **J.D.Schall**, T.J.Palmeri, G.D.Logan. (2007) Dynamics of saccade target selection: Race model analysis of double step and search step saccade

- production in human and macaque. *Vision Research* 47:2187-2211. PMID: PMC2041801.
- 56) Boucher L, Stuphorn V, Logan GD, **Schall JD**, Palmeri TJ (2007) Stopping eye and hand movements: Are the processes independent? *Perception & Psychophysics* 69:785-801. PMID: 17929700.
- 57) Woodman GF, Luck SJ, **Schall JD** (2007) The role of working memory representations in the control of attention. *Cerebral Cortex*. 17 Suppl 1:i118-24. (Invited for special issue on prefrontal cortex, working memory and flexible behavior, based on the May symposium in honor of Patricia Goldman-Rakic). PMID: PMC2094040.
- 58) Woodman GF, Kang M-S, Rossi, AF, **Schall JD** (2007) Nonhuman primate event-related potentials indexing covert shifts of attention. *Proceedings of the National Academy of Sciences* 104:15111-15116. PMID: PMC1986621.
- 59) Cohen JY, Pouget P, Woodman GF, Subraveti CR, **Schall JD**, Rossi AF (2007) Difficulty of visual search modulates neuronal interactions and response variability in the frontal eye field. *Journal of Neurophysiology* 98:2580-2587. PMID: 17855586.
- 60) Emeric EE, Brown JW, Leslie M, Pouget P, Stuphorn V, **Schall JD** (2008) Error-related local field potentials in the medial frontal cortex of primates: Anterior cingulate cortex. *Journal of Neurophysiology* 99:759-772. PMID: PMC2675936.
- 61) Woodman GF, Kang M-S, Thompson KG, **Schall JD** (2008) The effect of visual search efficiency on response preparation: Neurophysiological evidence for discrete flow. *Psychological Science* 19:128-136. PMID: PMC18271860.
- 62) Nelson MJ, Pouget P, Nilsen EA, Patten CD, **Schall JD** (2008) Signal distortion through metal microelectrode recording circuits and filters. *Journal of Neuroscience Methods* 169:141-157. PMID: PMC2292115.
- 63) Brown JW, Hanes DP, Ruch KD, **Schall JD**, Stuphorn V (2008) Relation of frontal eye field activity to saccade initiation during a countermanding task. *Experimental Brain Research* 190:135-151. PMID: PMC2748998.
- 64) Cohen JY, Pouget P, Heitz RP, Woodman GF, **Schall JD** (2009) Biophysical support for functionally distinct cell types in the frontal eye field. *Journal of Neurophysiology* 101:912-916. PMID: PMC2657052.
- 65) Cohen JY, Heitz RP, Woodman GF, **Schall JD** (2009) Neural basis of the set-size effect in frontal eye field: Timing of attention during visual search. *Journal of Neurophysiology* 101:1699-1704. PMID: PMC2695643.
- 66) Murthy A, Ray S, Shorter SM, **Schall JD**, Thompson KG (2009) Neural control of visual search by frontal eye field: Effects of unexpected target displacement on visual selection and saccade preparation. *Journal of Neurophysiology* 101:2485-2506. PMID: PMC2681430.
- 67) Jones OD, Buckholtz JW, **Schall JD**, Marois R (2009) Brain imaging for legal thinkers: A guide for the perplexed. *Stanford Technology Law Review* <http://stlr.stanford.edu/pdf/author-article.pdf>  
Jones OD, Buckholtz JW, **Schall JD**, Marois R (2014) Brain imaging for judges: An introduction to law and neuroscience. *Court Review: The Journal of the American Judges Association*. 50:44-51.
- 68) Purcell, B.A., Schall, J.D., Palmeri, T.J. (2009) Discrete versus continuous flow of information: Relating neural activity and the drift diffusion model. *Proceedings of the 31<sup>st</sup> Annual Meeting of the Cognitive Science Society* (peer - reviewed proceedings paper), Amsterdam, The Netherlands.
- 69) Ray S, Pouget P, **Schall JD** (2009) Functional distinction between visuomovement and movement neurons in macaque frontal eye field during saccade countermanding. *Journal of Neurophysiology* 102:3091-3100. PMID: PMC2804409.
- 70) Cohen JY, Heitz RP, **Schall JD**, Woodman GF. (2009) On the origin of event-related potentials indexing covert attentional selection during visual search. *Journal of Neurophysiology*

- 102:2375-2386. PMID: PMC2775385.
- 71) Lo CC, Boucher L, Paré M, **Schall JD**, Wang X-J (2009) Proactive inhibitory control and attractor dynamics in countermanding action: a spiking neural circuit model. *Journal of Neuroscience* 29:9059-9071. PMID: PMC2756461.
- 72) Pouget P, Stepniewska, Crowder EA, Leslie MW, Emeric EE, Nelson MJ, **Schall JD** (2009) Visual and motor connectivity and the distribution of calcium-binding proteins in macaque frontal eye field: implications for saccade target selection. *Frontiers of Neuroanatomy* 3:2. PMID: PMC2691655.
- 73) Stuphorn V, Brown JW, **Schall JD** (2010) Role of supplementary eye field in saccade initiation: Executive not direct control. *Journal of Neurophysiology* 103:801-816. PMID: PMC2822692.
- 74) Cohen JY, Crowder EA, Heitz RP, Thompson KG, Rao SC, **Schall JD** (2010) Cooperation and competition among frontal eye field neurons during visual target selection. *Journal of Neuroscience* 30:3227-3238. PMID: PMC2844339.
- 75) Nelson MJ, Boucher L, Logan GD, Palmeri TJ, **Schall JD** (2010) Nonindependent and nonstationary response times in stopping and stepping saccade tasks. *Attention, Perception & Psychophysics* 72:1913-1929. PMID: PMC3237060.
- 76) Emeric EE, Leslie M, Pouget P, **Schall JD** (2010) Performance monitoring local field potentials in the medial frontal cortex of primates: Supplementary eye field. *Journal of Neurophysiology* 104:1523-1537. PMID: PMC2944693.
- 77) Purcell BA, Heitz RP, Cohen JY, Logan GD, **Schall JD**, Palmeri TJ (2010) Neurally constrained modeling of perceptual decision making. *Psychological Review* 117:1113-1143. PMID: PMC2979343.
- 78) Thakkar KN, **Schall JD**, Boucher L, Logan GD, Park S. (2010) Response inhibition and response monitoring in a saccadic countermanding task in schizophrenia. *Biological Psychiatry* 69:55-62. PMID: PMC3006077.
- 79) Heitz RP, Cohen JY, Woodman GF, **Schall JD**. (2010) Neural correlates of correct and errant attentional selection revealed through N2pc and frontal eye field activity. *Journal of Neurophysiology* 104:2433-2441. PMID: PMC2997024.
- 80) Godlove DC, Garr AK, Woodman GF, Schall JD. (2011) Measurement of the extraocular spike potential during saccade countermanding. *Journal of Neurophysiology* 106:104-114. PMID: PMC3129738.
- 81) Pouget P, Logan GD, Palmeri TJ, Boucher L, Paré M, **Schall JD** (2011) Neural basis of adaptive response time adjustment during saccade countermanding. *Journal of Neuroscience* 31:12604-12612. PMID: PMC3173043.
- 82) Godlove DC, Emeric EE, Segovis CM, Young MS, Schall JD, Woodman GF (2011) Event-related potentials elicited by errors during the stop-signal task. I. Macaque monkeys. *Journal of Neuroscience* 31:15640-15649. PMID: PMC3241968.
- 83) Purcell BA, **Schall JD**, Logan GD, Palmeri TJ (2012) From salience to saccades: Multiple-alternative gated stochastic accumulator model of visual search. *Journal of Neuroscience* 32:3433-46. PMID: PMC3340913.
- 84) Reinhart RMG, Heitz RP, Purcell BA, Weigand PK, **Schall JD**, Woodman GF (2012) Homologous mechanisms of visuospatial working memory maintenance in macaque and human: Properties and sources. *Journal of Neuroscience* 32:7711-7722. PMID: PMC3373257.
- 85) Purcell BA, Weigand PK, **Schall JD** (2012). Supplementary eye field during visual search: Salience, cognitive control, and performance monitoring. *Journal of Neuroscience* 32:10273-10285. PMID: PMC3417208.
- 86) Purcell BA, Heitz RP, Cohen JY, **Schall JD**. (2012) Response variability of frontal eye field neurons modulates with sensory input and saccade preparation but not visual search salience. *Journal of*

- Neurophysiology* 108:2737-2750. PMID: PMC3545114.
- 87) Heitz RP, **Schall JD** (2012). Neural mechanisms of speed-accuracy tradeoff. *Neuron* 76:616-628. PMID: PMC3576837.
- 88) Purcell BA, **Schall JD**, Woodman GF. (2013) On the origin of event-related potentials indexing covert attentional selection during visual search: Timing of selection during pop-out search. *J Neurophysiol.* 109:557-569. PMID: PMC3545467.
- 89) Heitz RP, Schall JD. (2013) Neural chronometry and coherency across speed-accuracy demands reveal lack of homomorphism between computational and neural mechanisms of evidence accumulation. *Philosophical Transactions of the Royal Society of London B* 9;368:20130071. PMID: PMC3758212
- 90) Middlebrooks PG, **Schall JD**. (2014) Response inhibition during perceptual decision making in humans and macaques. *Attention, Perception & Performance* 76(2):353-366 PMID In Process
- 91) Zandbelt BB, Purcell BA, Palmeri TJ, Logan GD, **Schall JD**. (2014) Response times from ensembles of accumulators. *Proceeding of the National Academy of Sciences, USA* 111:2848-2853. PMID: PMC3932860
- 92) Godlove DC, Maier A, **Schall JD**, Woodman GF (2014) Functional evidence for a canonical cortical microcircuit in agranular cortex. *Journal of Neuroscience* 34:5355-5369. PMID: PMC3983808
- 93) Godlove DC, **Schall JD** (2014) Microsaccade production during saccade cancelation in a stop-signal task. *Vision Research* pii: S0042-6989(14)00258-2. doi: 10.1016/j.visres.2014.10.025. [Epub ahead of print] PMID: PMC4422788
- 94) Thakkar KN, **Schall JD**, Logan GD, Park S. (2014) Cognitive control of gaze in bipolar disorder and schizophrenia. *Psychiatry Research* 225:254-262. PMID: PMC4361560
- 95) Neggers SF, Zandbelt BB, Schall MS, **Schall JD**. (2015) Comparative diffusion tractography of cortico-striatal motor pathways reveals differences between humans and macaques. *Journal of Neurophysiology* 113:2164-2172. PMID: PMC4416585
- 96) Thakkar KN, **Schall JD**, Logan GD, Park S. (2015) Response inhibition and response monitoring in a saccadic double-step task in schizophrenia. *Brain & Cognition.* 95:90-98. PMID: PMC4396187
- 97) Ninomiya T, Dougherty K, Godlove DC, **Schall JD**, Maier A. (2015) Microcircuitry of agranular frontal cortex: contrasting laminar connectivity between occipital and frontal areas. *Journal of Neurophysiology* 113:3242-3255. PMID: PMC4440241
- 98) Logan GD, Yamaguchi M, **Schall JD**, Palmeri TJ. (2015) Inhibitory control in mind and brain 2.0: Blocked-input models of saccadic countermanding. *Psychological Review* 122:115-47. PMID: PMC4556000
- 98) Thakkar KN, **Schall JD**, Heckers S, Park S. (2015) Disrupted saccadic corollary discharge in schizophrenia. *Journal of Neuroscience* 35:9935-45. PMID: PMC4495243
- 99) Nelson MJ, Murthy A, **Schall JD**. (2016) Neural control of visual search by frontal eye field: Chronometry of neural events and race model processes. *Journal of Neurophysiology* 115:1954-1969. PMID: PMC4869503

#### Reviews, Commentaries, & Chapters

- 1) **Schall, J.D.** (1986) review of *Pattern Recognition Mechanisms*, 1985, C. Chagas, R. Gattass & C. Gross (eds.) for *Journal of Electrophysiological Techniques* 14:77-78.
- 2) Leventhal, A.G. and **J.D. Schall** (1989) Extrinsic determinants of retinal ganglion cell development in cats and monkeys, in *Development of Vertebrate Retina*, B. Finlay & D.R. Sengelaub (eds.), Plenum Press, New York, pp 173-195.
- 3) Logothetis, N.K. and **J.D. Schall** (1989) Neuronal activity related to motion perception in the middle temporal visual area (MT) of the macaque, in *Proceedings of the Retina Research Foundation, vol 2. Neural Mechanisms of Visual Perception*. M.K. Lam and C.D. Gilbert (eds.), Portfolio, The

- Woodlands, Texas, pp 199-222.
- 4) **Schall, J.D.** (1991) Neuronal basis of saccadic eye movements, in *Vision and Visual Dysfunction. Volume 4: The Neural Basis of Visual Function*, A.G. Leventhal (ed.), Macmillan Press, London. pp 388-442.
  - 5) **Schall, J.D.** and D.P. Hanes (1993) Saccade latency in context: Regulation of gaze behavior by supplementary eye field. Commentary on "Express saccades and visual attention" by B. Fischer & H. Weber *Behavioral and Brain Sciences* 16:588-589.
  - 6) **Schall, J.D.** (1995) Neural basis of saccade target selection. *Reviews in the Neurosciences* 6:63-85.
  - 7) **Schall, J.D.** (1995) Racing to explain procrastination. *Nature* 377:14-15.
  - 8) Bullier, J., **J.D. Schall** and A. Morel (1996) Functional streams in occipital-frontal connections in the monkey. *Behavioral Brain Research* 76:89-97.
  - 9) **Schall, J.D.** and D.P. Hanes (1997) Neurons and Reaction Times, reply to letters from M.G.H. Coles, from J.C. Lynch and from F. Richer & A. Achim regarding "Neural control of voluntary movement initiation". *Science* 275:144-145.
  - 10) **Schall, J.D.** (1997) Visuomotor areas of the frontal lobe. in *Extrastriate Cortex of Primates, Volume 12 of Cerebral Cortex*, K. Rockland, A. Peters, J. Kaas (eds.) New York: Plenum Press. pp 527-638.
  - 11) **Schall, J.D.** and N.P. Bichot (1998) Neural correlates of visual and motor decision processes. *Current Opinion in Neurobiology* 8:211-217.
  - 12) **Schall, J.D.** and D.P. Hanes (1998) Neural signals for the control of behavior. *Neural Networks* 11:1241-1251.
  - 13) **Schall, J.D.** and K.G. Thompson (1999) Neural selection and control of visually guided eye movements. *Annual Review of Neuroscience* 22:241-259.
  - 14) **Schall, J.D.** (1999) Weighing the evidence: How the brain makes decisions. *Nature Neuroscience* 2:108-109.
  - 15) **Schall, J.D.**, D.P. Hanes, and T.L. Taylor (1999) Neural control of behavior: Countermanding eye movements. *Psychological Research* 63:299-307.
  - 16) **Schall, JD** (2000) Investigating neural correlates of consciousness with ambiguous stimuli. Commentary on "The unconscious homunculus" by F. Crick and C. Koch. *Neuro-Psychoanalysis*. 2:32-35.
  - 17) **Schall, JD** (2000) Decision making: From sensory evidence to a motor command. *Current Biology* 10:R404-R406.
  - 18) **Schall, JD** (2001) Neural basis of deciding, choosing and acting. *Nature Reviews Neuroscience* 2:33-42.
  - 20) Thompson, K.G., N.P. Bichot, **J.D. Schall** (2001) From attention to action in frontal cortex. In *Visual Attention and Cortical Circuits*, Edited by J Braun, C Koch, J Davis, MIT Press, Cambridge, MA pp. 137-157.
  - 21) **Schall JD** (2001) Cutting Edge. *Times Higher Education Supplement* January 26, 2001, No. 1471, page 22.
  - 22) **Schall JD** (2002) The neural selection and control of saccades by frontal eye field. *Philosophical Transactions of the Royal Society of London: Series B Biological Sciences*. 357:1073-1082.
  - 23) Stuphorn V, **Schall JD** (2002) Neural control and monitoring of the initiation of movement. *Muscle and Nerve* 26:326-339.
  - 24) **Schall JD**, Stuphorn V, Brown J (2002) Monitoring and control of gaze by the frontal lobes. *Neuron* 36:309-322. (invited for special review issue on reward and decision).
  - 25) **Schall JD** (2003) Decision making: Neural correlates of response time. *Current Biology* 12(23):R800-801.
  - 26) **Schall JD** (2003) Selection of targets for saccadic eye movements. In *The Visual Neurosciences*.

- Edited by L Chalupa, JS Werner. MIT Press, Cambridge, MA. Pages 1369-1390.
- 27) **Schall JD**, Thompson KG, Bichot NP, Murthy A, Sato TR (2003) Visual processing in the frontal eye field. In *The Primate Visual System*. Edited by J Kaas, C Collins. CRC Press, Boca Raton, FL. Pages 205-230.
  - 28) Munoz DP, **Schall JD** (2003) Concurrent distributed control of saccades. In *The Oculomotor System: New Approaches for Studying Sensorimotor Integration*. Edited by WC Hall, AK Moschovakis. CRC Press, Boca Raton, FL. Pages 55-82.
  - 29) **Schall JD** (2003) Neural selection and control of action. In *Attention & Performance XX*. Edited by N Kanwisher, J Duncan. Oxford University Press, New York, NY.
  - 30) **Schall JD** (2003) Neural correlates of decision processes: Neural and mental chronometry *Current Opinion in Neurobiology* 13:182-186.
  - 31) **Schall JD** (2004) On building bridges between brain and behavior. *Annual Review of Psychology* 55:23-50
  - 32) Bichot NP, **Schall JD** (2005) Prefrontal selection and control of covert and overt orienting. In *Neurobiology of Attention*. Edited by L Itti, G Rees and J Tsotsos. Elsevier, San Diego, CA
  - 33) **Schall, JD** (2005) Decision making: Primer. *Current Biology* 15:R9-R11.
  - 34) **Schall JD**, Boucher L (2007) Executive control of gaze by the frontal lobes. *Cognitive Affective and Behavioral Neuroscience* 7:396-412. (invited for special edition devoted to the role of medial frontal cortex in cognitive control). PMID:
  - 35) **Schall JD**, Paré M, Woodman GF (2007) Comment on "Top-Down Versus Bottom-Up Control of Attention in the Prefrontal and Posterior Parietal Cortices". *Science* 5 October 2007: 318(5847):44.
  - 36) **Schall, JD** (2009) Frontal eye fields. In *Encyclopedia of Neuroscience*. DOI 10.1007/978-3-540-29678-2\_1861. Edited by Marc D. Binder, Nobutaka Hirokawa and Uwe Windhorst. Springer-Verlag GmbH Berlin Heidelberg. Pages 1635-1638
  - 37) **Schall, JD** (2009) Supplementary eye fields. In *Encyclopedia of Neuroscience*. DOI 10.1007/978-3-540-29678-2\_5765. Edited by Marc D. Binder, Nobutaka Hirokawa and Uwe Windhorst. Springer-Verlag GmbH Berlin Heidelberg. Pages 3904-3906.
  - 38) **Schall, JD** (2009) Cingulate cortex - Role in eye movements. In *Encyclopedia of Neuroscience*. DOI 10.1007/978-3-540-29678-2\_1039 Edited by Marc D. Binder, Nobutaka Hirokawa and Uwe Windhorst. Springer-Verlag GmbH Berlin Heidelberg. Pages 721-722
  - 39) **Schall, JD** (2009) Frontal Eye Fields. In: Squire LR (ed.) *Encyclopedia of Neuroscience*, volume 4, pp. 367-374. Oxford: Academic Press.
  - 40) **Schall JD** (2009) Executive Function and Higher-Order Cognition: Assessment in Animals. In: Squire LR (ed.) *Encyclopedia of Neuroscience*, volume 4, pp. 87-92. Oxford: Academic Press.
  - 41) **Schall JD** (2009) Actions, reasons, neurons and causes. for *Neuroscience and Religion: Hierarchy, Brain, Self, Religion* edited by Volney Gay. Lexington Books (June 28, 2009)
  - 42) **Schall JD**, Emeric EE. (2010) Conflict in Cingulate Cortex Function between Humans and Macaque Monkeys: More Apparent than Real. Commentary on Cole MW, Yeung N, Freiwald WA, Botvinick M (2009): Cingulate Cortex: Diverging Data from Humans and Monkeys. *Trends Neurosci* 32:566-574. *Brain Behavior and Evolution* 75:237-238.
  - 43) **Schall JD**, Cohen JY (2011) The neural basis of saccade target selection. *Oxford Handbook on Eye Movements*. Edited by Simon P. Liversedge, Iain P. Gilchrist, Stefan Everling. Oxford University Press. Pages 357-382.
  - 44) **Schall JD**, Purcell BA, Heitz RP (2011) Neural mechanisms of saccade target selection: Gated accumulator model. *European Journal of Neuroscience* – special issue “Saccade, Search & Orient”, 33:1991-2002
  - 45) **Schall JD**, An Alternative Hypothesis for Orientation Columns in the Visual Cortex, *Science* (E-



- Letter, 19 April 2011) [www.sciencemag.org/content/330/6007/1113/reply](http://www.sciencemag.org/content/330/6007/1113/reply). Comment on “Universality in the Evolution of Orientation Columns in the Visual Cortex” Science 19 November 2010: 1113-1116.
- 46) **Schall JD**, Woodman GF (2012) A stage theory of attention and action. *Neuroscience of Attention*. Edited by George R. Mangun, Oxford University Press. Pages 187-208
- 47) **Schall JD**, Thompson KG (2012) Neural mechanisms of saccade target selection: Evidence for a stage theory of attention and action. *Cognitive Neuroscience of Attention*, Edited by Michael Posner, Guilford Press. Pages 242-256.
- 48) K.N. Thakkar, S. Park, **J.D. Schall** (2012) Control of action and monitoring in schizophrenia. In *Phenomenological Neuropsychiatry: How Patient Experience Bridges Clinic with Clinical Neuroscience* Editors: Aaron Mishara, Phil Corlett, Paul Fletcher, and Michael Schwartz. Springer Science.
- 49) **Schall JD**, Godlove DC (2012) Current advances and pressing problems in stopping. Invited for *Current Opinion in Neurobiology: Decision Making 2012*. Edited by M Shadlen and K Doya. 22:1012-1021. PMID: PMC3496825
- 50) **Schall JD** (2012) Personal Responsibility: The Brain Has It. We Know When We Did What We Meant to Do. [www.beinghuman.org](http://www.beinghuman.org) 08/27/2012 03:30
- 51) **Schall JD** (2013) Macrocircuits: Decision Networks. Invited for *Current Opinion in Neurobiology: Macrocircuits 2013*. Edited by W. Singer and S. Petersen. 23:269-274. PMID: PMC3606280
- 52) **Schall JD** (2013) Production, control and visual guidance of saccadic eye movements. *ISRN Neurology* Oct 23; 2013:752384.
- 53) GD Logan, TP Palmeri, **JD Schall** (2015). Framework for neuro-cognitive modeling with converging constraints. *Model-Based Cognitive Neuroscience: An Introduction*. Edited by BU Forstmann, EJ Wagenmakers. Springer Neuroscience
- 54) TP Palmeri, **JD Schall**, GD Logan (2015). Neurocognitive Modeling of Perceptual Decision Making. *Oxford Handbook of Computational and Mathematical Psychology*. Edited by J.R. Busemeyer, Z.J. Wang, J.T. Townsend & A. Eidels. Oxford University Press
- 55) **Schall JD**, AK Garr (2014) Performance monitoring reconciles intentional reasons with neural causes. Commentary on “The neural antecedents to voluntary action: a conceptual analysis” by Parashkev Nachev, Peter Hacker. *Cognitive Neuroscience*. 5:214-216.
- 56) **Schall JD** (2015) Visuomotor functions in the frontal lobe. *Annual Review of Vision Science* 1:469–498.
- 57) Maier, A, **Schall JD**, Woodman GF (2016) Neural recordings at multiple scales. Invited for *The Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience. V. Methodology*. : Edited by E.J. Wagenmakers (University of Amsterdam).

#### Abstracts

- 1) **Schall, J.D.** & A.G. Leventhal (1983) Structural basis of orientation sensitivity in the cat visual system. *Society for Neuroscience Abstracts* 9:475. 13th Annual Meeting of the Society for Neuroscience. Boston, Massachusetts.
- 2) Leventhal, A.G. & **J.D. Schall** (1983) Systematic relationship between preferred orientation and receptive field position of neurons in cat striate cortex. *Society for Neuroscience Abstracts* 9:475. 13th Annual Meeting of the Society for Neuroscience. Boston, Massachusetts.
- 3) **Schall, J.D.**, D.J. Vitek & A.G. Leventhal (1984) Retinal ganglion cell classes in the pigmented ferret. *Investigative Ophthalmology and Visual Science* 25:S204. Annual Meeting of the Association for Research in Vision and Ophthalmology. Sarasota, Florida.
- 4) **Schall, J.D.**, A.G. Leventhal and D.J. Vitek (1984) Retinal constraints on orientation sensitivity in cat visual cortex. *Society for Neuroscience Abstracts* 10:519. 14th Annual Meeting of the Society for

- Neuroscience. Anaheim, California.
- 5) **Schall, J.D.**, S.J. Ault & A.G. Leventhal (1985) Relationships between ganglion cell dendritic field structure and retinal topography in the cat. *Society for Neuroscience Abstracts* 11:14 15th Annual Meeting of the Society for Neuroscience. Dallas, Texas.
  - 6) Ault, S.J., **J.D. Schall** & A.G. Leventhal (1985) Experimental alteration of cat retinal ganglion cell dendritic field structure. *Society for Neuroscience Abstracts* 11:15 15th Annual Meeting of the Society for Neuroscience. Dallas, Texas.
  - 7) **Schall, J.D.**, S.J. Ault, D.J. Vitek & A.G. Leventhal (1986) Experimental induction of an ipsilateral visual field representation in the visual pathway of normally pigmented cats. *Society for Neuroscience Abstracts* 12:591. 16th Annual Meeting of the Society for Neuroscience. Washington, D.C.
  - 8) Leventhal, A.G., **J.D. Schall**, S.J. Ault, J.M. Provis & D.J. Vitek (1987) Class specific cell death during development shapes the distribution and pattern of central projections of cat retinal ganglion cells. *Society for Neuroscience Abstracts* 13:590. 17th Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
  - 9) **Schall, J.D.**, S.E. Mann & P.H. Schiller (1987) Investigation of the roles of dorsomedial and ventrolateral premotor regions and the frontal eye fields in visually guided movements. *Society for Neuroscience Abstracts* 13:1095. 17th Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
  - 10) **Schall, J.D.** (1988) Saccade latency and preparatory neuronal activity in the supplementary and frontal eye fields. *Society for Neuroscience Abstracts* 14:159. 18th Annual Meeting of the Society for Neuroscience. Toronto, Ontario.
  - 11) Logothetis, N.K. and **J.D. Schall** (1988) Motion rivalry used to study the neuronal activity underlying motion perception. *Society for Neuroscience Abstracts* 14:458. 18th Annual Meeting of the Society for Neuroscience. Toronto, Ontario.
  - 12) **Schall, J.D.** (1989) Neuronal correlates of visual search in the frontal eye fields of monkeys. *Society for Neuroscience Abstracts* 15:162 19th Annual Meeting of the Society for Neuroscience. Phoenix, Arizona.
  - 13) Logothetis, N.K. and **J.D. Schall** (1990) Neuronal correlates of motion perception in the middle temporal visual area during binocular rivalry in monkey. *Perception: 12th European Conference on Visual Perception* A31
  - 14) Parthasarathy, H.B., **J.D. Schall** and A.M. Graybiel (1990) Dual-tracer comparison of the corticostriatal projections of the frontal eye field and the supplementary eye field in the primate. *Society for Neuroscience Abstracts* 16:1231. 20th Annual Meeting of the Society for Neuroscience. St. Louis, Missouri.
  - 15) **Schall, J.D.**, A. Morel, D.J. King and C. Whalley (1991) Topography of connections between cortical visuomotor areas in macaque. *Society for Neuroscience Abstracts* 17:857. 21st Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
  - 16) Hanes, D.H., F.F. Tu and **J.D. Schall** (1992) Effects of temporal context (conditional probability) on saccade latency in macaque. *Society for Neuroscience Abstracts* 18:698. 22nd Annual Meeting of the Society for Neuroscience. Anaheim, California.
  - 17) Thompson, K.G., D.P. Hanes, F.F. Tu and **J.D. Schall** (1993) Evolution of saccade target selection signal in frontal eye field during visual search. *Society for Neuroscience Abstracts* 19:27. 23rd Annual Meeting of the Society for Neuroscience. Washington, D.C.
  - 18) Hanes, D.P. and **J.D. Schall** (1993) Relation of presaccadic discharge in frontal and supplementary eye fields to saccade initiation. *Society for Neuroscience Abstracts* 19:426. 23rd Annual Meeting of the Society for Neuroscience. Washington, D.C.
  - 19) **Schall, J.D.**, D.J. King and A. Morel (1993) Topography of afferents to frontal eye field (FEF) from

- the superior temporal sulcus (STS). *Society for Neuroscience Abstracts* 19:1592. 23rd Annual Meeting of the Society for Neuroscience. Washington, D.C.
- 20) **Schall, J.D.**, D.P. Hanes and K.G. Thompson (1994) Supplementary eye field role in regulating saccade initiation. 1st Annual Meeting of the Cognitive Neuroscience Society. San Francisco, CA.
  - 21) Hanes, D.P. and **J.D. Schall** (1994) Behavioral inhibition of saccades: A study using the countermanding paradigm. *Society for Neuroscience Abstracts* 20:1401. 24th Annual Meeting of the Society for Neuroscience. Miami, Florida
  - 22) Thompson, K.G. and **J.D. Schall** (1994) Macaque oculomotor thalamus: Temporal characteristics of visual and saccade related activity. *Society for Neuroscience Abstracts* 20:145. 24th Annual Meeting of the Society for Neuroscience. Miami, Florida.
  - 23) **Schall, J.D.** and K.G. Thompson (1994) Macaque oculomotor thalamus: Saccade target selection. *Society for Neuroscience Abstracts* 20:145. 24th Annual Meeting of the Society for Neuroscience. Miami, Florida.
  - 24) Thompson, K.G., D.P. Hanes and **J.D. Schall** (1995) Timecourse of target selection in macaque frontal eye field during visual search. *Society for Neuroscience Abstracts* 21:1270. 25th Annual Meeting of the Society for Neuroscience. San Diego, California.
  - 25) Bichot, N.P., K.G. Thompson and **J.D. Schall** (1995) Effects of feature expectancy on target selection in macaque frontal eye field. *Society for Neuroscience Abstracts* 21:1270. 25th Annual Meeting of the Society for Neuroscience. San Diego, California.
  - 26) Hanes, D.P. and **J.D. Schall** (1996) Role of frontal eye field neurons in regulating saccade initiation in macaque. *Neural Control of Movement Poster Abstracts* 1:22. Marco Island, Florida.
  - 27) Thompson, K.G. and **J.D. Schall** (1996) Dissociation of saccade initiation and target selection in macaque frontal eye field. *Neural Control of Movement Poster Abstracts* 1:25. Marco Island, Florida.
  - 28) Bichot, N.P., K.G. Thompson and **J.D. Schall** (1996) Dissociation of target selection from saccade planning in macaque frontal eye field. *Society for Neuroscience Abstracts* 22:1456. 26th Annual Meeting of the Society for Neuroscience. Washington, D.C.
  - 29) Hanes, D.P. and **J.D. Schall** (1996) Neural basis of saccade reaction time: Frontal eye field. *Society for Neuroscience Abstracts* 22:1457. 26th Annual Meeting of the Society for Neuroscience. Washington, D.C.
  - 30) **Schall, J.D.** and D.P. Hanes (1996) Neural control of saccade initiation studied with the countermanding paradigm: Frontal eye field. *Society for Neuroscience Abstracts* 22:418. 26th Annual Meeting of the Society for Neuroscience. Washington, D.C.
  - 31) Thompson, K.G. and **J.D. Schall** (1997) A neural activation threshold for visual awareness in macaque frontal eye field. *Investigative Ophthalmology and Visual Science* 38:S460. Annual Meeting of the Association for Research in Vision and Ophthalmology.
  - 32) **Schall, J.D.**, K. Thompson, D. Hanes, N. Bichot, W. Patterson (1997) Single cells and psychological stages. Fourth Annual Meeting of the Cognitive Neuroscience Society. Boston, Massachusetts.
  - 33) Patterson, W.F. and **J.D. Schall** (1997). Supplementary eye field studied with the countermanding paradigm *Society for Neuroscience Abstracts* 23:474. 27th Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
  - 34) Thompson, K.G. and **J.D. Schall** (1997). Neural correlates of visual awareness in prefrontal cortex. *Society for Neuroscience Abstracts* 23:303. 27th Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
  - 35) Schmolesky, M.T. Y.-C. Wang, D.P. Hanes, K.G. Thompson, S. Ludwig, **J.D. Schall** and A.G. Leventhal (1997) Speed of information transfer in the macaque visual system. *Society for Neuroscience Abstracts* 23:1396. 27th Annual Meeting of the Society for Neuroscience. New

- Orleans, Louisiana.
- 36) Bichot, N.P. and **J.D. Schall** (1998) Saccade latency and target selection in macaque during a color-shape conjunction visual search. *Investigative Ophthalmology and Visual Science* 39:S324 Annual Meeting of the Association for Research in Vision and Ophthalmology.
  - 37) Bichot, N.P. and **J.D. Schall** (1998) Saccade target selection in macaque frontal eye field during a color-shape conjunction visual search. *Society for Neuroscience Abstracts* 24:1140. 28th Annual Meeting of the Society for Neuroscience. Los Angeles, California.
  - 38) Rao SC, Thompson KG, **Schall JD** (1998) Visual selection and motor preparation in simultaneously recorded neurons in frontal eye field of macaque monkeys. *Society for Neuroscience Abstracts* 24:1146. 28th Annual Meeting of the Society for Neuroscience. Los Angeles, California.
  - 39) Thompson KG, Rao SC, **Schall JD** (1998) Effects of visual salience on target selection in frontal eye field of macaque monkeys. *Society for Neuroscience Abstracts* 24:1146. 28th Annual Meeting of the Society for Neuroscience. Los Angeles, California.
  - 40) **Schall JD** and TL Taylor (1998) Sequential effects in countermanding performance of macaque monkeys. *Society for Neuroscience Abstracts* 24:172. 28th Annual Meeting of the Society for Neuroscience. Los Angeles, California.
  - 41) Murthy A, Thompson KG, **Schall JD** (1999) Neural control of saccade target selection during visual search. *Society for Neuroscience Abstracts* 25:806. 29th Annual Meeting of the Society for Neuroscience. Miami Beach, Florida.
  - 42) Bichot, NP, Rao, SC, **Schall JD** (1999) Information processing in macaque frontal eye field (FEF) during visual search: Continuous or discrete? *Society for Neuroscience Abstracts* 25:367. 29th Annual Meeting of the Society for Neuroscience. Miami Beach, Florida.
  - 43) **Schall JD**, Hanes DP, Ruch KD (1999) Routes to threshold: Frontal eye field activity before eye movements. *Society for Neuroscience Abstracts* 25:368. 29th Annual Meeting of the Society for Neuroscience. Miami Beach, Florida.
  - 44) Stuphorn, V, Taylor TL, **Schall JD** (1999) Performance monitoring by supplementary eye field. *Society for Neuroscience Abstracts* 25:368. 29th Annual Meeting of the Society for Neuroscience. Miami Beach, Florida.
  - 45) Stuphorn V, **Schall JD** (2000) Anterior cingulate cortex: Performance monitoring in the countermanding paradigm. *Society for Neuroscience Abstracts* 26:1075. 30th Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
  - 46) Bichot NP, Rao SC, Thompson KG, **Schall JD** (2000) Reliability of frontal eye field neurons in signaling visual search targets. *Society for Neuroscience Abstracts* 26:669. 30th Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
  - 47) Murthy A, Thompson KG, **Schall JD** (2000) Neural control of saccade target selection: A comparison of search-step and double-step tasks. *Society for Neuroscience Abstracts* 26:966. 30th Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
  - 48) Bichot NP, Thompson KG, Rao SC, **Schall JD** (2000) Reliability of frontal eye field neurons in signaling saccade targets during visual search. *European Journal of Neuroscience Supplement* 12: 489.
  - 49) Sato, T., Murthy, A., Thompson, K.G., & **Schall, J.D.** (2001). Effects of perceptual load and response interference on target selection in macaque frontal eye field [Abstract]. *Journal of Vision*, 1(3), 264a, <http://journalofvision.org/1/3/264>, DOI 10.1167/1.3.264. *Vision Science Society*. Sarasota, Florida.
  - 50) Sa'ry, G., Xu, X., Shostak, Y., Royal, D., **Schall, J.**, & Casagrande, V. (2001). Behavioral relevance influences LGN neurons of macaque monkey in the absence of receptive field stimulation [Abstract]. *Journal of Vision*, 1(3), 30a, <http://journalofvision.org/1/3/30>, DOI 10.1167/1.3.30. *Vision Science Society*. Sarasota, Florida.

- 51) Sary Gy, Xu X., Shostak Y, Royal D, **Schall J**, Casagrande V (2001) Behavioral relevance influences LGN neurons of macaque monkey in the absence of receptive field stimulation. *Society for Neuroscience Abstracts* 27:000. 31st Annual Meeting of the Society for Neuroscience. San Diego, California.
- 52) Royal D, Sary Gy, Xu X., Shostak Y, Ichida J, **Schall J**, Casagrande V (2001) Evidence for suppression of activity in both parvocellular and magnocellular lateral geniculate nucleus cells during saccadic eye movements. *Society for Neuroscience Abstracts* 27:000. 31st Annual Meeting of the Society for Neuroscience. San Diego, California.
- 53) Brown, JW, Stuphorn V, **Schall JD** (2001) Reliability of macaque FEF but not SEF movement neurons predicting saccade initiation. *Society for Neuroscience Abstracts* 27:000. 31st Annual Meeting of the Society for Neuroscience. San Diego, California.
- 54) Stuphorn V, Brown, JW, **Schall JD** (2001) Effects of supplementary eye field microstimulation on performance in the countermanding paradigm. *Society for Neuroscience Abstracts* 27:000. 31st Annual Meeting of the Society for Neuroscience. San Diego, California.
- 55) Sato T, **Schall JD** (2001) Saliency coding by frontal eye field in macaque monkeys. *Society for Neuroscience Abstracts* 27:000. 31st Annual Meeting of the Society for Neuroscience. San Diego, California.
- 56) Vaughn A, Sato T, Gauthier I, **Schall JD** (2001) Effects of saliency on spatial suppression during target selection by frontal eye field in macaque monkeys. *Society for Neuroscience Abstracts* 27:000. 31st Annual Meeting of the Society for Neuroscience. San Diego, California.
- 57) Bichot NP, Rossi AF, **Schall JD**, Ungerleider LG, Desimone R (2002) Neuronal mechanisms of priming during popout visual search. *Vision Science Society*. Sarasota, Florida.
- 58) Shorter-Jacobi SM, Murthy A, Thompson KD, **Schall JD** (2002) Neural correlates of divided orienting in frontal eye field in a search-step task. *Vision Science Society*. Sarasota, Florida.
- 59) Shorter-Jacobi, SM, A.Murthy, K.G.Thompson, **J.D.Schall**. (2002) Concurrent saccade preparation in a search - step task. *Program No. 57.5. 2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2002. CD-ROM.
- 60) Sato T, H.Qi, **J.D.Schall**. (2002) Dissociation of target selection and saccade preparation using pro - and antisaccade visual search. *Program No. 418.7. 2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2002. CD-ROM.
- 61) Stuphorn V., **J.D.Schall**. (2002) Effects of microstimulation during the countermanding paradigm: comparison of frontal and supplementary eye field. *Program No. 464.5. 2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2002. CD-ROM.
- 62) Ito S., V.Stuphorn, J.Brown, **J.D.Schall**. (2002) Anterior cingulate cortex: error - related activity in the countermanding paradigm. *Program No. 464.6. 2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2002. CD-ROM.
- 63) Royal D, Sary Gy, **Schall J**, Casagrande V (2002) Is there a relationship between spike bursts in the lateral geniculate nucleus (LGN) and behavioral events? *Vision Science Society*. Sarasota, Florida.
- 64) Sato, T, **J.D.Schall**.(2003) The effect of visual search difficulty on saccade - related activity in FEF. *Program No. 72.8. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience
- 65) Boucher, L., G.D.Logan, T.J.Palmeri, **J.D.Schall**. (2003) An interactive race model of countermanding saccades. *Program No. 72.10. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience
- 66) Emeric, E.E., V.Stuphorn, **J.D.Schall**. (2003) Error - related local field potentials in medial frontal lobe of macaques during saccade countermanding. *Program No. 79.20. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience

- 67) Juan, C., S.M.Shorter-Jacobi, **J.D.Schall**. (2003) Microstimulation of frontal eye field during visual search with variable stimulus - response mapping: 1. Dissociation of visual and saccade selection. *Program No. 180.4. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience
- 68) Shorter-Jacobi, S.M., C.Juan, **J.D.Schall**. (2003) Microstimulation of frontal eye field during visual search with variable stimulus - response mapping: 2. Dynamics of compensation. *Program No. 180.3. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience
- 69) Stuphorn, V., J Brown, **J.D.Schall**. (2003) Supplementary eye field does not initiate visually - guided saccades. *Program No. 187.15. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience
- 70) Royal, DW, G.Sary, **J.Schall**, V.Casagrande. (2003) Are spike bursts and pseudo - bursts in the lateral geniculate nucleus (LGN) related to behavioral events? *Program No. 699.16. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience
- 71) Ichida, JM, D.Royal, G.Sary, **J.Schall**, V.Casagrande. (2003) Are there significant onset latency differences between LGN cells that carry S cone signals compared to those that carry M or L cone signals? *Program No. 699.17. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience
- 72) G.F. Woodman, L. Boucher, **J.D. Schall**, S.J. Luck. Do the contents of visual working memory automatically bias attentional selection during visual search? *Program No. 81.7. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004.
- 73) C.R. Camalier, L. Boucher, **J.D. Schall**. Influence of nontarget stimulus features on saccade target selection during visual search *Program No. 176.12. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004.
- 74) E.E. Emeric, V. Stuphorn, **J.D. Schall**. Evidence for supervisory control of countermanding saccades. *Program No. 211.11. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004.
- 75) L. Boucher, V. Stuphorn, G.D. Logan, T.J. Palmeri, **J.D. Schall**. Dissecting the stop process: eye-hand coordination in a stop task. *Program No. 313.6. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004
- 76) A. Murthy, S. Ray, **J.D. Schall**. Programming of double-step saccade sequences: modulation by cognitive control. *Program No. 313.7. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004.
- 77) D.W. Royal, G. Sry, **J.D. Schall**, V.A. Casagrande. Spatial attention in the lateral geniculate nucleus (lgn): are effects across hemifields the same as within a hemifield? *Program No. 331.9. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004.
- 78) M.W. Mebane, S.M. Shorter-Jacobi, J.M. Sherwood, **J.D. Schall**. Dissociation of spatial attention and saccade preparation during visual search. *Program No. 332.4. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004.
- 79) M. Kang, R. Blake, **J.D. Schall**. What causes alternations during binocular rivalry? *Program No. 865.1. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004.
- 80) P. Pouget, L. Boucher, **J.D. Schall**. Orbital position effects on countermanding saccades. *Program No. 990.2. 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004.
- 81) Camalier, CR, A.Gotler, A.Murthy, K.G.Thompson, **J.D.Schall**, T.J.Palmeri, G.D.Logan. Race analysis of double step and search step saccade performance. *Program No. 165.4. 2005 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience.
- 82) Ray, S, S.M.Shorter-Jacobi, A.Murthy, K.G.Thompson, **J.D.Schall**. Predictive error correction in macaque frontal eye field. *Program No. 166.12. 2005 Abstract Viewer/Itinerary Planner*.

- Washington, DC: Society for Neuroscience.
- 83) Pouget, P, L. James, V. Stuphorn, J. W. Brown, S. Chenchal Rao, **J.D. Schall**. Coincident activity in supplementary eye field and anterior cingulate cortex of macaque monkeys. Program No. 166.13. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience.
  - 84) Leslie, MW, P.Pouget, **J.D.Schall**, J.W.Brown, V.Stuphorn. Analysis of error - related neural unit activity in macaque SEF and ACC during saccade countermanding. Program No. 166.15. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience
  - 85) Mebane, M.W., T.J.Palmeri, **J.D.Schall**, G.D.Logan. Testing the neural theory of visual attention: Mixture distributions of neural activity. Program No. 286.19. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience
  - 86) Emeric, EE, V.Stuphorn, J.W.Brown, **J.D.Schall**. Absence of post - error slowing of countermanding saccades. Program No. 412.3. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience
  - 87) Ruiz, O., D.W.Royal, X.Chen, **J.Schall**, V.A.Casagrande. Another look at the impact of bursting in the lateral geniculate nucleus ( LGN ) of awake - behaving monkeys. Program No. 506.5. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience
  - 88) Sherwood JM, P.Pouget, K.Thompson, S.Chenchal Rao, **J.D.Schall**. Evidence for ensemble coding in the macaque frontal eye field revealed through particle - clustering analysis. Program No. 590.7. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience
  - 89) Woodman GF, M.Kang, A.F.Rossi, **J.D.Schall**. Comparative psychophysiology: macaque event - related potentials reveal anticipatory and stimulus - evoked components similar to those observed in humans. Program No. 821.1. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience
  - 90) Woodman GF, Kang M, Sato TR, Thompson KG, **Schall JD**. (2006) Neurophysiological evidence for the discrete flow of information between stages of processing. Psychonomic Society, 47th Annual Meeting, Houston, Texas
  - 91) G.F. Woodman, M. Kang, T.R. Sato, K.G. Thompson, **J.D. Schall** Visual search efficiency modulates the onset of response preparation in the frontal-eye field: neurophysiological evidence for discrete information flow between processing stages. Program No. 15.1. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
  - 92) L. Boucher, G.D. Logan, T.J. Palmeri, **J.D. Schall** Modeling trial history of saccade countermanding. Program No. 48.8. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
  - 93) M. Kang, **J.D. Schall**, G.F. Woodman. Electroencephalographic and local-field potential gamma band activity is not reliably observed during spatial working memory maintenance in macaque monkeys. Program No. 160.13. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
  - 94) D.W. Royal, P. Pouget, O. Ruiz, **J. Schall**, V. Casagrande. Receptive field mapping with local field potentials (LFPs) and single-unit activity (SUA) in macaque lateral geniculate nucleus (LGNd). Program No. 241.6. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
  - 95) P. Pouget, E.E. Emeric, M.T. Leslie, **J.D. Schall**. Dynamic relationship between spikes and field potentials in supplementary eye field of macaque monkeys during saccade countermanding. Program No. 439.18. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
  - 96) M.W. Leslie, E. Emeric, P. Pouget, **J.D. Schall** Supplementary eye field and adaptive control of saccade countermanding in macaque monkey. Program No. 439.19. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.

- 97) J.Y. Cohen, P. Pouget, G.F. Woodman, C. Rao, **J.D. Schall**, A.F. Rossi. Multivariate analysis of frontal eye field activity during visual search. Program No. 548.14. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
- 98) E.E. Emeric, P. Pouget, M. Leslie, M. Kang, G.F. Woodman, **J.D. Schall**. Anterior cingulate local field potential delta and theta frequency bands are modulated by countermanding errors. Program No. 571.11. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
- 99) M.J. Nelson, P. Pouget, **J.D. Schall**. Effect of electrode impedance on measurement of local field potentials in the supplementary eye field. Program No. 835.14. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
- 100) L. Boucher, G.D. Logan, T.J. Palmeri, **J.D. Schall**. Interactive race model of the stopping mechanism for combined eye and hand movements. Program No. 618.2. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
- 101) P. Pouget, I. Stepniewska, M.W. Leslie, E.E. Emeric, M.J. Nelson, **J.D. Schall**. A neuroanatomical test of premotor theory of attention Program No. 19.1. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
- 102) M.W. Leslie, E. Emeric, P. Pouget, **J.D. Schall**. Local field potentials in supplementary eye field of macaque monkeys during a saccade stop signal task: Presaccadic potentials Program No. 398.10. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
- 103) E.E. Emeric, M. Leslie, P. Pouget, **J.D. Schall**. Local field potentials in supplementary eye field of macaque monkeys during a saccade stop signal task: Performance monitoring. Program No. 398.9. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
- 104) M.J. Nelson, L. Boucher, A. Murthy, K.G. Thompson, G.D. Logan, T.J. Palmeri, **J.D. Schall**. Executive control of search-step saccade performance investigated through trial history. Program No. 527.9. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
- 105) L.R. Pearson, **J.D. Schall**, G.D. Logan, T.J. Palmeri. Comparative accumulator modeling of the role of stopping in saccade behavioral switching Program No. 558.9. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
- 106) J.Y. Cohen, P. Pouget, G.F. Woodman, C.R. Subraveli, **J.D. Schall**, A.F. Rossi. Visual search difficulty modulates the variability of spike timing in the frontal eye field. Program No. 717.3. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
- 107) Heitz, R. P., Woodman, G. F., Pouget, P., Cohen, J. Y., & Schall, J. D. (2008) Effects of luminance contrast on visual responses in frontal eye field. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL.
- 108) Purcell, B. A., Heitz, R. P., Cohen, J. Y., Logan, G. D., Schall, J. D., & Palmeri, T. J. (2008) Modeling interactions between visually-responsive and movement-related neurons in FEF during saccade visual search. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL.
- 109) Cohen, J. Y., Heitz, R. P., Schall, J. D., & Woodman, G. F. (2008) Attention in visual cortex occurs earlier than target selection in the frontal eye field. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL.
- 110) J.Y. Cohen, R.P. Heitz, G.F. Woodman, **J.D. Schall**. Timing of target selection between visual cortex and frontal eye field. Program No. 616.7 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
- 111) E.E. Emeric, **J.D. Schall**. Executive control of countermanding saccades by anterior cingulate cortex. Program No. 515.6 2008 Neuroscience Meeting Planner. Washington, DC: Society for



- Neuroscience, 2008. Online.
- 112) A.K. Garr, E.E. Emeric, **J.D. Schall** Extracranial error-related potential in macaque monkeys during saccade countermanding. Program No. 770.10 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
  - 113) M. J. Nelson, L. Boucher, G. D. Logan, T. J. Palmeri, **J. D. Schall**. Nonstationarity of saccade response time in stopping and stepping tasks. Program No. 770.11 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
  - 114) P. Pouget, G. D. Logan, T. J. Palmeri, L. Boucher, M. Paré, **J. D. Schall**. Neural basis of adaptive response time adjustment. Program No. 855.10 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
  - 115) S. Ray, P. Pouget, **J. D. Schall**. Relation of visuomovement activity in macaque frontal eye field to response time during saccade countermanding. Program No. 855.14 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
  - 116) R.P. Heitz, J.Y. Cohen, G.F. Woodman, **J. D. Schall**. The effects of set size on neural selection time in frontal eye field. Program No. 855.12 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
  - 117) K.N. Thakkar, **J. D. Schall**, L. Boucher, G. D. Logan, S. Park. Response inhibition and response monitoring of saccades in a stop signal task in schizophrenia. Program No. 54.11 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
  - 118) E. A. Crowder, J. Haitas, J.Y. Cohen, R.P. Heitz, K. G. Thompson, S. C. Rao, **J. D. Schall**. Analysis of spike synchrony among macaque frontal eye field neurons during visual search. Program No. 855.9 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
  - 119) L. Boucher, G.D. Logan, T.J. Palmeri, **J.D. Schall**. The effect of instruction on response inhibition. Program No. 770.9. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
  - 120) Thakkar, K.N., **Schall, J.D.**, Boucher, L., Logan, G.D., Park, S. (2009) Response inhibition and response monitoring of saccades in a stop signal task in schizophrenia and bipolar disorder. poster presented at International Congress on Schizophrenia Research. *Schizophrenia Bulletin* 35: s270.
  - 121) Purcell, B. A., Cohen, J. Y., Heitz, R. P., **Schall, J. D.**, Logan, G. D. & Palmeri, T. J. (2009) Developing a neuromimetic accumulator model of perceptual decisions. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL.
  - 122) Cohen, J. Y., Heitz, R. P., Woodman, G.F., **Schall, J. D.** (2009) Frontal eye field activity before form visual search errors. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL.
  - 123) Godlove DC, Emeric EE, Boucher L, **Schall JD** (2009) Express saccade production in a stop signal task. Program No. 71.6 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
  - 124) Heitz RP, Nelson MJ, Ferguson KE, Cohen JY, Woodman GF, **Schall JD** (2009) Coherence of neurons and networks in frontal eye field. Program No.263.3 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
  - 125) Ferguson KE, Heitz RP, Cohen JY, Woodman GF, **Schall JD** (2009) Saccade endpoint scatter during form visual search Program No. 263.21 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
  - 126) Nelson MJ, **Schall JD** (2009) Late onset but faster completion of motor processes following a change in planned saccade endpoint Program No. 356.18 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

- 127) Emeric EE, **Schall JD** (2009) Biophysical support for functionally distinct cell types in the supplementary eye field. Program No. 455.9 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
- 128) Cohen JY, Heitz RP, Woodman GF, **Schall JD** (2009) Neural variability in frontal eye field during visual search Program No. 758.26 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
- 129) Purcell BP, Heitz RP, Cohen JY, Woodman GF, **Schall JD** (2010) Timing of attentional selection in frontal eye field and event-related potentials over visual cortex during pop-out search. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL. *J Vis* August 2, 2010 10(7): 97; doi:10.1167/10.7.97
- 130) Wilimzig C, Palmeri TJ, Logan GD, **Schall JD**. (2010) Toward an interactive race model of double-step saccades. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL. *J Vis* August 2, 2010 10(7): 210; doi:10.1167/10.7.210
- 131) A. K. Garr, D. C. Godlove, G. F. Woodman, **J. D. Schall** (2010) Pre-saccadic spike potentials in a saccade countermanding task. Program No. 77.14 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- 132) D. C. Godlove, **J. D. Schall** (2010) Saccade countermanding with asymmetric reward. Program No. 201.19 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- 133) M. S. Howell Young, R. P. Heitz, **J. D. Schall**, G. F. Woodman (2010) Modeling the neural generators of monkey event-related potentials indexing covert shift of attention. Program No. 304.1 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- 134) R. P. Heitz, M. J. Nelson, J. Y. Cohen, **J. D. Schall** (2010) Functional role of gamma-band spike-field coherence in frontal eye field during visual target selection. Program No. 582.3 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- 135) C. M. Segovis, D. C. Godlove, M. H. Young, J. Haitas, G. F. Woodman, **J. D. Schall** (2010) Cranial and cerebral locations of the 10-20 electrode system in the Macaque. Program No. 818.1 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- 136) B. Purcell, R. P. Heitz, **J. D. Schall**, G. D. Logan, T. J. Palmeri (2010) Multiple-accumulator model of decision making during visual search. Program No. 893.12 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- 137) C. Wilimzig, T. J. Palmeri, G. D. Logan, **J. D. Schall** (2010) An interactive race model of saccade target selection: Dynamics of visual selection and inhibition. Program No. 893.22 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
- 138) M. S. Howell Young, R. P. Heitz, B. Purcell, **J. D. Schall**, G. F. Woodman (2011) Source localization of an event-related potential indexing covert shifts of attention in macaques. Poster presented at the annual meeting of the *Vision Sciences Society*, Naples, FL.
- 139) R.P. Heitz, **J.D. Schall** (2011). Neural basis of speed-accuracy tradeoff in frontal eye field. Program No. 17.01. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 140) B. Purcell, P.K. Weigand, **J.D. Schall** (2011). Supplementary eye field during visual search: Local field potentials. Program No. 176.03. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 141) P.K. Weigand, B. Purcell, **J.D. Schall** (2011). Supplementary eye field during visual search: Single-unit activity. Program No. 176.07. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 142) N. Kim, D.C. Godlove, G.F. Woodman, **J.D. Schall** (2011). Current source density analysis of

- visual and saccadic activity in supplementary eye field during saccade countermanding. Program No. 272.03. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 143) D.C. Godlove, N. Kim, G.F. Woodman, **J.D. Schall** (2011). Current source density analysis of error and feedback signals in macaque supplementary eye field during saccade countermanding. Program No. 515.25. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 144) J. Haitas, D.C. Godlove, **J.D. Schall**, G.F. Woodman (2011). Automated placement of cranial surface electrodes in the 10-20 system for macaque monkeys. Program No. 619.24. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 145) M.S. Howell Young, D.C. Godlove, E.E. Emeric, C.M. Segovis, R.M.G. Reinhart, **J.D. Schall**, G.F. Woodman (2011). Error processing during a saccade stop signal task in macaque monkeys: Source estimation. Program No. 930.02. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- 146) B. B. Zandbelt, B. A. Purcell, T. J. Palmeri, G. D. Logan, **J. D. Schall** (2012). E pluribus unum: out of many accumulators one response time. Program No. 79.29. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
- 147) D. C. Godlove, A. V. Maier, G. F. Woodman, **J. D. Schall** (2012). Laminar microcircuitry supporting error and reward processing in medial frontal cortex. Program No. 129.14. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
- 148) P. Middlebrooks, G. D. Logan, **J. D. Schall** (2012). Response inhibition during saccade decision making in macaques and humans. Program No. 198.06. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
- 149) B. Purcell, P. Weigand, R. Heitz, J. Cohen, **J. Schall** (2012). Response variability of frontal eye field neurons modulates with sensory input and saccade preparation but not visual salience. Program No. 370.08. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
- 150) **J.D. Schall**, D.C. Godlove (2012). Microsaccade production during saccade cancellation in a stop-signal task. Program No. 372.13. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
- 151) S. F. Negggers, M. S. Young, B. B. Zandbelt, **J. D. Schall** (2012). Comparing the human and macaque fronto-striatal oculomotor network. Program No. 419.03. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
- 152) A. V. Maier, L. Chen, A. Mishra, F. Wang, D. C. Colvin, A. T. Newton, M. Young, J. C. Gore, **J. D. Schall** (2012). Resting state functional connectivity of the frontal and parietal lobe in new world and old world primates. Program No. 419.04. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
- 153) R.P. Heitz, **J.D. Schall** (2012). Integrated accumulator model of speed-accuracy tradeoff. Program No. 730.07. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
- 154) K. N. Thakkar, **J. D. Schall**, G.D. Logan, S. Park (2013) Inhibition and monitoring of saccades in a double-step task in schizophrenia. 14<sup>th</sup> International Congress on Schizophrenia Research.
- 155) K. N. Thakkar, **J. D. Schall**, S. Heckers, S. Park (2013) Altered corollary discharge in the saccadic eye movement system of patients with schizophrenia. 14<sup>th</sup> International Congress on Schizophrenia Research.
- 156) R.P. Heitz, **J.D. Schall** (2013). Network configuration for task preparation in prefrontal cortex. Program No. 263.03. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.

- 156) T. Ninomiya, D. C. Godlove, K. Dougherty, A. Maier, **J. D. Schall** (2013). Laminar cross-frequency coupling in agranular frontal cortex. Program No. 326.05. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.
- 157) B. B. Zandbelt, **J. D. Schall**, T. J. Palmeri, G. D. Logan (2013). Modeling response time and accuracy during a stop-signal task: Stimulus-response choices. Program No. 663.01. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.
- 158) P. Middlebrooks, B. B. Zandbelt, **J. D. Schall**, T. J. Palmeri, G. D. Logan (2013). Modeling response time and accuracy during a stop-signal task: Perceptual discrimination choices. Program No. 663.06. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.
- 159) Young M, Neggers S, Zandbelt B, **Schall J** (2014) Comparative diffusion tractography of cortico-striatal motor pathways reveals differences between humans and macaques. Society for the Neural Control of Movement, 24th Annual Meeting, Amsterdam, The Netherlands.
- 160) Cosman, J, **Schall J**, Woodman G (2014) Macaque monkeys exhibit event-related potentials indexing distractor suppression during visual search. *J Vis* August 22, 2014 14(10): 518; doi:10.1167/14.10.518. 14<sup>th</sup> *Vision Sciences Society* St. Pete Beach, FL
- 161) R Heitz, **J Schall** (2014) Neurophysiological investigations of speed-accuracy tradeoff. *J Vis* August 22, 2014 14(10): 905; doi:10.1167/14.10.905 14<sup>th</sup> *Vision Sciences Society* St. Pete Beach, FL
- 162) P Middlebrooks, B Zandbelt, **J Schall**, T Palmeri, G Logan (2014) Modeling response time and accuracy during a visual discrimination stop-signal task *J Vis* August 22, 2014 14(10): 841; doi:10.1167/14.10.841 14<sup>th</sup> *Vision Sciences Society* St. Pete Beach, FL
- 163) M Young, B Neggers, B Zandbelt, **J Schall** (2014) Comparative connectivity of frontal eye field and striatum between humans and macaques *J Vis* August 22, 2014 14(10): 1217; doi:10.1167/14.10.1217 14<sup>th</sup> *Vision Sciences Society* St. Pete Beach, FL
- 164) D Morrow-Jones, R Heitz, **J Schall** (2014) Saccade Endpoint Variability During Efficient and Inefficient Visual Search. *J Vis* August 22, 2014 14(10): 749; doi:10.1167/14.10.749 14<sup>th</sup> *Vision Sciences Society* St. Pete Beach, FL
- 165) T. Ninomiya, K. Dougherty, D. C. Godlove, **J. D. Schall**, A. Maier (2014). Microcircuitry of agranular frontal and granular occipital cortex: Testing the generality of the canonical cortical microcircuit with cross-frequency phase-amplitude coupling during resting-state. Program No. 60.11 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
- 166) J. D. Cosman, **J. D. Schall**, G. F. Woodman (2014) Frontal eye field correlates of salient distractor suppression during visual search. Program No. 263.15 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
- 167) M.S. Howell Young, **J.D. Schall**, B. Zandbelt, S.F.W. Neggers (2014) Comparative diffusion tractography of cortico-striatal motor pathways reveals differences between humans and macaques. Program No. 442.27 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
- 168) W. Zinke, R.P. Heitz, B.A. Purcell, **J.D. Schall** (2014) Neurons that fire together select together: Reduced variability of visual search target selection times for simultaneously as compared to sequentially recorded neurons. Program No. 624.13 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
- 169) P. Middlebrooks, **J.D. Schall** (2014) Neuronal correlates of choosing and stopping in macaque frontal eye field. Program No. 651.01 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
- 170) K. Fukuda, **J.D. Schall**, G.F. Woodman (2014) Event-related potentials and oscillatory activity indexing visual working memory capacity limits in nonhuman primates. Program No. 843.05

- 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
- 171) K. Fukuda, **J.D. Schall**, G.F. Woodman (2015) Dissociable electrophysiological correlates of proactive and reactive control during response inhibition. Program No. 80.20 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015. Online.
- 172) P. Middlebrooks, **J.D. Schall** (2015) Effects of choice errors versus response inhibition on response times. Program No. 176.25 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015. Online.
- 173) W. Zinke, J.D. Cosman, G.F. Woodman, **J.D. Schall** (2015) A premotor eye field in the arcuate sulcus of macaque monkeys - Comparison with FEF. Program No. 334.07 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015. Online.
- 174) J.D. Cosman, W. Zinke, G.F. Woodman, **J.D. Schall** (2015) Comparison of saccade target selection in frontal and premotor eye fields of macaques. Program No. 334.08 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015. Online.
- 175) M.S. Schall, W. Zinke, G.F. Woodman, **J.D. Schall** (2015) Prevalence of an arcuate spur in macaques. Program No. 417.09 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015. Online.
- 176) S. Yin, D. Godlove, T. Ninomiya, W. Zinke, **J.D. Schall** (2015) Laminar organization of the supplementary eye field: Orbital tuning. Program No. 417.10 2015 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2015. Online.
- 177) Caskey, C. F., Zinke, W., Cosman, J., Shuman, J., **Schall, J.** (2016), " Ultrasound stimulation in the frontal eye field modulates visual search and associated EEG in monkeys" IEEE Ultrasonics Symposium (IUS), 2016. Oral Presentation, Tours, France.

#### Invited Presentations

- 2016 "Contributions Of Supplementary Eye Field And Anterior Cingulate Cortex To Performance Monitoring During Saccade Countermanding", in Symposium: Action control and response monitoring, 18th World Congress of Psychophysiology, Havana, Cuba
- 2016 "Neurons, Circuits, Decisions and Actions", Department of Cell Biology and Neuroscience, Montana State University
- 2016 "Decisions, accumulators and neurons: How secure a bridge?", Center for Neural Science, New York University
- 2016 "Decisions, accumulators and neurons: How secure a bridge?", Département de Neurosciences, Université de Montréal
- 2016 "Neurons, Circuits, Decisions and Actions", Department of Cell Biology & Neuroscience, Montana State University
- 2015 "Eye Fields in Humans and Nonhuman Primates" – Discussion leader for symposium presented by Clayton Curtis, Stefan Everling, Beatriz Luna. Gordon Research Conference: Eye Movements - Integrating Perception and Action for Optimal Vision. Bentley University, Waltham, MA
- 2014 "Recent investigations of neural mechanisms of decision-making in frontal and supplementary eye fields: Speed-accuracy, laminar processing, and event-related potentials", Neuroscience Seminar Series, Department of Experimental Psychology, University of Oxford, Oxford, UK
- 2014 "Neurons, Circuits, Decisions and Actions", Keynote, Conference on Decision Making, School of Experimental Psychology, University of Bristol, UK
- 2014 "Neurons, Circuits, Decisions and Actions", Institute Of NeuroScience, Université catholique de Louvain, Brussels, Belgium
- 2014 "Contributions of supplementary eye field to error monitoring", "Bridging psychological models and neural mechanisms", "Structure and function of frontal eye field", 3 lectures provided for Neuroscience Graduate Program, Université catholique de Louvain, Brussels, Belgium

- 2014 “Recent investigations of neural mechanisms of decision-making in frontal and supplementary eye fields: Speed-accuracy, laminar processing, and event-related potentials”, L’Institut du Cerveau et de la Moelle Épineuse, Université Pierre et Marie Curie, Hôpital de la Salpêtrière, Paris, France
- 2014 “Neural Guidance of Gaze: Gated Accumulation”, Fourth workshop on Natural Environments, Tasks and Intelligence, University of Texas Austin
- 2014 “Neural control and monitoring of decision making”, Oral Presentation, annual meeting of Neural Control of Movement Society, Amsterdam
- 2014 “The mechanisms responsible for guiding and controlling gaze shifts”, VSS at ARVO Symposium “Eye and Hand Movements and Vision”, annual meeting of the Association for Research in Vision and Ophthalmology. Orlando, Florida.
- 2014 “Neurophysiological mechanisms of stopping”, Invited Symposium, Mechanisms of Response Inhibition, annual meeting of Cognitive Neuroscience Society, Boston
- 2013 “Where Does the Visual System End, and the Oculomotor System Begin?” – Discussion leader for symposium presented by Christopher Pack, Martin Paré & Jude Mitchell. Gordon Research Conference: Eye Movements - The Motor System that Sees the World. Stonehill College, Easton, MA
- 2013 “Neurons, Circuits, Decisions and Actions”, Rudolf Magnus Lecture, University of Utrecht, Utrecht, The Netherlands.
- 2012 “From salience to saccades: Gated accumulator model of visual search”, ZIF RESEARCH GROUP: Competition And Priority Control In Mind And Brain: New Perspectives From Task-Driven Vision. Opening Conference: Linking selection for visual perception, memory and action. Bielefeld University, Germany.
- 2012 “Stage theory of visual search: Gated accumulator model”, Visual Search and Selective Attention: III. Bavarian School of Administration at Holzhausen/Ammersee, Germany.
- 2011 “From salience to action: A gated accumulator model of saccade target selection”, Gordon Research Conference on Eye Movements, University of New England, Biddeford, Maine
- 2011 “Neural control and monitoring of saccadic eye movements: monkey and human”, Motivation & Vision Symposium, University of Amsterdam & Netherlands Institute of Neuroscience-KNAW.
- 2010 “On the Selection and Control of Behavior”, 2<sup>nd</sup> Annual Kenneth O. Johnson Memorial Lecture, The Zanvyl Krieger Mind/Brain Institute & Biomedical Engineering, Johns Hopkins University, Baltimore, MD
- 2010 “Multimodal measurements of visual selection: Spikes, local field potentials and event-related potentials”, Department of Psychology, University of Oregon
- 2010 “On a Stage Theory of Attention & Decision” keynote speaker for Neuroscience Graduate Program retreat, University of Oregon
- 2010 “Neural guidance and control of visual search”, Salk Institute Seminar Series. La Jolla, California
- 2010 “How the Frontal Cortex Determines When and Where We Look” lead paper invited for Rank Prize Fund symposium in honor of Roger Carpenter, *Eye Movements: What Determines When and Where We Look*, Grasmere, Cumbria, England
- 2009 “Timing of selection for the guidance of gaze”, Vision Science Society Symposium: Dynamic Processes in Vision, Moderator: Jonathan D. Victor, Naples, Florida
- 2009 “Neural Guidance and Control of Action”, Integrative Neuroscience Seminar Series, Center for Neurobiology and Behavior, Keck-Mahoney Center for Mind and Brain, Columbia University College of Physicians and Surgeons
- 2009 “Neural Guidance and Control of Action”, Princeton Neuroscience Institute, Princeton University
- 2009 “Neurophysiological mechanisms of eye movement decisions”, Symposium I: Neurobiology of

- Decision Making. Winter Meeting, Canadian Physiological Society.
- 2008 “Neural Guidance and Control of Action”, Wake Forest University School of Medicine  
Department of Neurobiology and Anatomy
- 2008 “Neurons, Choices, Actions, Reasons”, Systems Biology of Decision Making, Mathematical  
Biosciences Institute, The Ohio State University
- 2008 “Neural Guidance and Control of Action”, Neurons Brains and Models: Crossing Levels of  
Analysis in Cognitive Brain Research Interdisciplinary Seminar, University of Michigan
- 2008 Adrian Seminars in Neuroscience, Department of Physiology, Development and Neuroscience,  
Cambridge University
- 2007 “On the role of the frontal lobe in timing eye movements”, Neural Basis of Timing and  
Anticipation symposium, Yale University
- 2007 “On the contributions of the frontal eye field, supplementary eye field and anterior cingulate  
cortex to the guidance and control of saccades” in symposium Cortical Mechanisms for Eye  
Movements, Centre for Vision Research Conference 2007: Cortical Mechanisms of Vision
- 2007 Department of Neuroscience Seminar Series, University of Minnesota
- 2006 Centre for Vision Research, York University, Toronto Canada
- 2006 Center for Neuroscience at the University of Pittsburgh (CNUP) annual retreat
- 2006 “Prefrontal cortex, Working Memory, Flexible Behavior”, in memoriam of Patricia S  
Goldman-Rakic. Yale University
- 2006 Invited presentation at 3rd Annual Computational and Systems Neuroscience meeting  
(Cosyne06), Salt Lake City Utah
- 2005 "Neural selection and control of visually guided saccades", Max Planck Institute for Biological  
Cybernetics, Tuebingen, Germany
- 2005 “Executive control of gaze by the frontal lobe” for Symposium on Executive Functions and the  
Frontal Lobe, University of Tuebingen
- 2005 "Neural selection and control of visually guided saccades", University of Indiana
- 2005 "Neural basis of deciding, choosing and acting", Neurobiology of Decision-Making, Banbury  
Center, Cold Spring Harbor Laboratory
- 2005 "Neural selection and control of visually guided saccades", School of Psychology colloquium  
series, Georgia Tech
- 2005 Dan Guitton Recognition Symposium, Canadian Physiological Society winter meeting, Mont  
Sainte Anne Quebec
- 2005 "Neural selection and control of visually guided saccades", Johns Hopkins University Department  
of Biomedical Engineering
- 2004 “Neural selection and control of visually guided movements”, RIKEN Brain Science Institute,  
Tokyo, Japan
- 2004 “Neural basis of saccade selection and control”, 4th Antonio Borsellino College on Neurophysics,  
Trieste, Italy
- 2004 “Percept, Decision, Action: Bridging the Gaps”, Novartis Foundation Symposium 271, Trieste,  
Italy
- 2004 “Neural basis of saccade selection and control”, Department of Physiology, Northwestern  
University Medical School
- 2004 “An Interactive Race Model of Countermanding”, 37th Annual Meeting of the Society for  
Mathematical Psychology, University of Michigan
- 2004 "Neural selection and control of visually guided saccades", invited speaker for the 24<sup>th</sup>  
Symposium of the Center for Visual Science, Adaptive Representation and Control in Vision,  
University of Rochester, Rochester, New York.
- 2004 "Neural mechanisms of visual search” VisioNYC (Vision in old New York), The New York

- Academy of Sciences, Columbia University, New York, New York.
- 2004 "Neural selection and control of visually guided saccades", invited speaker for the Eighth International Conference on Cognitive and Neural Systems, Center for Adaptive Systems and the Department of Cognitive and Neural Systems, Boston University.
- 2004 "Neural control of visually guided saccades", University of Montreal, Montreal, Canada.
- 2004 "Neural selection of visually guided saccades", Montreal Neurological Institute, McGill University, Montreal, Canada.
- 2004 "Neural selection and control of visually guided saccades", Neuroscience Seminar Series, Division of Neuroscience, Baylor College of Medicine, Houston, Texas
- 2004 van Swammerdam Lecture, Vrije Universiteit, Royal Netherlands Academy of Arts and Sciences, Amsterdam, The Netherlands
- 2003 "Neural correlates of primate decision making", Symposium, 33rd Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana.
- 2003 Keynote speaker, European Conference on Eye Movements, Dundee, Scotland
- 2003 San Miniato Workshop on Visual Attention, San Miniato, Italy
- 2003 "Neural selection and control of visually guided saccades", Stanford University
- 2003 "Neural selection and control of visually guided saccades", University of California, Berkeley
- 2003 "Neural selection and control of visually guided saccades", University of Wisconsin
- 2003 "Neural selection and control of visually guided saccades", University of Pennsylvania
- 2003 "Neural selection and control of visually guided saccades", University of Western Ontario, London, Ontario, Canada
- 2003 "Neural selection and control of visually guided saccades", University of Quebec, Montreal, Quebec, Canada
- 2002 "Neural Basis of Deciding, Choosing and Doing", 5th Annual Scholarship Conference of the Society for Evolutionary Analysis in Law. Vanderbilt University Law School, Nashville, Tennessee
- 2002 Attention and Performance XX, Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Sicily
- 2002 "Antecedents and correlates of visual awareness in the frontal cortex" in Plenary Session on Visual Perception and Consciousness, 5<sup>th</sup> Annual "Toward a Science of Consciousness" conference, Tucson, Arizona
- 2002 "Neural selection and control of visually guided action", Dartmouth College
- 2002 "Neural selection and control of visually guided action", Brown University
- 2002 "Neural selection and control of visually guided action", University of Illinois
- 2001 "The physiology of cognitive processes", Royal Society, London, England.
- 2001 "Look and See: How the Brain Attends, Makes Choices and Directs the Eyes", Symposium, 31st Annual Meeting of the Society for Neuroscience. San Diego, California.
- 2001 "Neural selection and control of visually guided movements", McGovern Institute, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- 2001 Dynamics of Neural Networks: From Biophysics to Behavior, Institute for Theoretical Physics, Santa Barbara, California
- 2001 Symposium and workshop on the anterior cingulate, The Swartz Center for Computational Neuroscience, The Salk Institute for Biological Studies, The Gatsby Foundation, Rancho Santa Fe, California.
- 2001 "The Time it Takes to Think and Do: Accounting for Response Time", Symposium, Neural Control of Movement, Seville, Spain
- 2001 "Neural selection and control of visually guided action", Center for Neural Science, New York University



- 2000 Neuroscience Expert Panel, DARPA Focus 2000, Chantilly, Virginia.
- 2000 "Neural Mechanisms of Visual Perception and Cognition" 26<sup>th</sup> Annual SIERKEN Symposium, National Institute of Physiological Sciences, Okazaki, Japan.
- 2000 "Towards Animal Models of Attention and Consciousness", The Banbury Center, Cold Spring Harbor Laboratory
- 2000 McKnight Conference on Neuroscience, The Aspen Institute, Aspen, Colorado
- 2000 "Neural coding of visual selection in frontal cortex", invited for Neural Coding - the Annual Symposium sponsored by the Center for Visual Science, University of Rochester, Rochester, New York.
- 2000 "Neural selection and control of visually guided action", Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh, Pennsylvania.
- 2000 "Neural basis of deciding, choosing and doing", NIH Neuroscience Lecture Series, Sponsored by NINDS, NIMH, NIDCD, NIDA, and NICHD, Lipsett Amphitheater, Building 10, NIH, Bethesda, Maryland.
- 2000 "Neural selection and control of visually guided action", Progress in Neuroscience Seminar Series, Weill Medical College, Cornell University, New York, New York.
- 1999 "Neural selection and control of gaze", Computation and Neural System seminar series, California Institute of Technology, Pasadena, California.
- 1999 11<sup>th</sup> Annual Frontiers of Science Symposium, National Academy of Sciences, Beckman Center, Irvine, California.
- 1999 "Neural selection of targets for gaze", Invited presentation for Symposium: Perceptual and Cognitive Processing for Saccadic Eye Movements at the annual Optical Society of America. Santa Clara, California.
- 1999 "Neural selection and control of visually guided action", Vision Research Center Visiting Scholar Program, University of Alabama at Birmingham, Birmingham, Alabama.
- 1999 "Neural selection and control of visually guided action", Department of Physiology & Biophysics, University of Washington, Seattle, Washington.
- 1999 "Antecedents and correlates of visual awareness in macaque prefrontal cortex", Invited presentation at Pre-ARVO conference sponsored by *Vision Research* on Pre-attentive and attentive mechanisms in vision: Perceptual organization and dysfunction. Fort Lauderdale, Florida.
- 1999 "Neural selection and control of visually guided action", Volen National Center for Complex Systems, Brandeis University, Waltham, Massachusetts.
- 1999 "Neural selection and control of visually guided action", Neurobiology Department Seminar Series, Duke University, Durham, North Carolina
- 1999 "Neural selection and control of visually guided action", Neuroscience and Cognitive Science Seminar Series, University of Maryland, College Park, Maryland.
- 1998 "Cortical control of gaze", Grand Rounds, Department of Neurology, Vanderbilt University.
- 1998 "Neural selection and control of visually guided action", Helmholtz Club, Irvine, California.
- 1998 Computational Neuroscience: Vision Course, Cold Spring Harbor Laboratory
- 1998 Panel member of symposium "What the brain's neurons can tell the mind's models of mind" chaired by Ray Klein, scheduled for the Fifth Annual Meeting of the Cognitive Neuroscience Society. San Francisco, California.
- 1998 "Neural selection and control of visually guided action", 10<sup>th</sup> Biennial McKnight Conference on Neuroscience, Aspen, Colorado
- 1998 "Neural selection and control of visually guided eye movements", Rockefeller University, New York, New York.
- 1998 "Neural selection and control of visually guided eye movements", Department of Psychology,

- University of Oregon, Eugene, Oregon.
- 1998 "Neural selection and control of visually guided eye movements", Boynton Colloquium Series, Center for Visual Sciences, University of Rochester, Rochester, New York.
- 1997 "Neural decisions for the guidance of gaze", Seminars in Neuroscience, The Center for Molecular Neuroscience, Vanderbilt University School of Medicine.
- 1997 Panel member in symposium "Visual Search and Selection", International Neuropsychological Symposium, Camogli, Italy.
- 1997 "Searching and stopping for the guidance of gaze", Kenneth Craik Club, Physiology Department, Cambridge University, Cambridge, UK.
- 1997 Invited presentation for *From Attention to Action, Contemporary Issues in Movement Planning, Preparation and Initiation*, biennial international symposium hosted by the Center for Neural Science, New York University, New York, NY
- 1997 "Searching and stopping for the guidance of gaze", Neuroscience Seminar Series, Queen's University, Kingston, Ontario
- 1997 "Searching and stopping for the guidance of gaze", David Bodian Lecture, Zanvyl Krieger Mind/Brain Institute, Johns Hopkins University, Baltimore, Maryland
- 1997 "Searching and stopping for the guidance of gaze", Department of Neurobiology, Harvard Medical School. Boston, Massachusetts.
- 1997 "Searching and stopping for the guidance of gaze", invited seminar in the Department of Neurobiology and Physiology, Northwestern University, Evanston, Illinois
- 1996 "Neural basis of saccade target selection", Cognitive Neuroscience Seminar at the National Institutes of Health, Bethesda, Maryland
- 1996 Panel organizer for symposium, "Saccade target selection", 6th annual meeting of Neural Control of Movement, Marco Island, Florida.
- 1995 Panel member for workshop, "Role of the primate frontal and medial eye fields in oculomotor control" 5th annual meeting of Neural Control of Movement, Key West, Florida.
- 1995 Vision: From Photon to Perception, National Academy of Sciences Colloquium, Beckman Center, Irvine, California
- 1995 "Neural basis of saccade target selection", Seminars in Cognitive Neuroscience Series, Montreal Neurological Institute, Montreal, Canada
- 1994 "Mechanisms of visual selection and attention that guide eye movements", McDonnell-Pew Program in Cognitive Neuroscience 1994 Annual Meeting, Miami, Florida
- 1991 "Central Control of Eye Movements", Grand Rounds, Department of Neurology, Vanderbilt University School of Medicine, Nashville, Tennessee
- 1990 "The neural basis of visually guided eye movement", Visual Science Symposium, annual meeting of American Academy of Optometry, Nashville, Tennessee
- 1989 "The role of frontal cortex in visually guided movements", Department of Psychology, Vanderbilt University, Nashville, Tennessee
- 1989 "The role of frontal cortex in visually guided movements", Department of Neurobiology, State University of New York at Stony Brook, Stony Brook, New York
- 1988 "A survey of the neuronal responses in supplementary motor area in monkeys performing visually guided movements", 21st Winter Conference on Brain Research, Steamboat Springs, Colorado
- 1986 "Retinal ganglion cell morphology and cortical orientation specificity", Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts
- 1983 "Structural basis of retinal ganglion cell orientation sensitivity", Department of Neurobiology, State University of New York, Albany, New York.