STEFAN EVERLING
Curriculum Vitae

ADDRESS: The University of Western Ontario
Departments of Physiology and Pharmacology & Psychology
The Brain and Mind Institute

Robarts Research Institute
1151 Richmond Street North
London, Ontario
N6A 5B7

Telephone: 519-663-5777 x 24359
Fax: 519-931-5233
Email: severlin@uwo.ca
Webpage: www.everling-lab.org

DATE OF BIRTH: 25 May 1968

NATIONALITY: German (Permanent Canadian Resident)

MARITAL STATUS: Married Claudia Maria Everling (Née von Rappard), 1992

CHILDREN:
Daughter: d.o.b. 28.06.01 in London, Ontario, Canada
Son: d.o.b. 27.05.97 in Kingston, Ontario, Canada
Daughter: d.o.b. 13.10.93 in Bremen, Germany

RESEARCH INTERESTS: Functional Magnetic Resonance Imaging, Neurophysiology, Eye Movements, Frontal Lobe, Basal Ganglia, Attention, Resting-state, Schizophrenia, Stroke

EDUCATION:
1988-1995: University of Bremen, Germany

DEGREES:
Dr. rer.nat. (Ph.D.) (1995) Biology
Diplom (MSc) (1992) Biology, Zoology
Vor-Diplom (BSc) (1995) Psychology
Vor-Diplom (BSc) (1990) Biology

AWARDS:
2014: Dean's Team Excellence Award (Schulich School of Medicine & Dentistry)
2010: USC Teaching Honour Roll Award of Excellence
2008: USC Teaching Honour Roll Award of Excellence
2007: Dean's Team Award (Schulich School of Medicine & Dentistry)
2006: USC Teaching Honour Roll Award of Excellence
2006: Dean's Junior Excellence Award (Schulich School of Medicine & Dentistry)

2004:	USC Teaching Honour Roll Award of Excellence
2002:	EJLB Foundation Scholar Research Award
2001:	PREA (Premier's Research Excellence Award)
2001:	CIHR (Canadian Institutes of Health Research) New Investigator Award
2000:	CAN (Cure Autism Now) Foundation Pilot Research Award
2000:	NARSAD Young Investigator Award
1996:	Deutsche Forschungsgemeinschaft, Postdoctoral Fellowship
1995:	Dr.rer.nat. with "summa cum laude" University of Bremen. Germany
1992:	Graduate Student Award from "Stiftung Constantia von 1823, Bremen"

POSITIONS HELD:

10/2012-6/2013 :	Visiting Prof. at the Center for Interdisciplinary Research, Bielefeld University, Germany "Competition and priority control in mind and brain: New perspectives from task-driven vision"
7/2011 - :	Full Professor (tenured) Departments of Physiology and Pharmacology and Psychology, The University of Western Ontario, London, Canada
2007- :	Robarts Scientist (London, Ontario, Canada)
2006-2011:	Associate Professor (tenured) Departments of Physiology and Pharmacology and Psychology, The University of Western Ontario, London, Canada
2004-2007:	Associate Scientist/Career Track, Robarts Research Institute
2003-2012:	Scientific Director of the Primate Facility at the Centre for Brain and Mind
2002-	Cross-appointment in Psychiatry, UWO
2000-2006:	Assistant Professor Departments of Physiology and Pharmacology and Psychology, The University of Western Ontario, London, Canada
1999-2000:	College lecturer at Somerville College, Oxford for Neurophysiology and Brain & Behavior

1999-2000: Research Scientist, Medical Research Council, Cognition and Brain Sciences Unit, Cambridge, UK. Based in the Department of Experimental Psychology, University of Oxford, Oxford, UK

1996-1999: DFG Fellow at Queen's University, Department of Physiology, Kingston, Ontario, Canada

1993-1996: Teaching Assistant, Department of Biology and Chemistry, University of Bremen, Germany

RESEARCH EXPERIENCE

1999-2000: Heading a new laboratory for single-neuron recordings in awake behaving primates in the Department of Experimental Psychology, University of Oxford, UK

1996-1999: Postdoctoral fellow (Supervisor: Dr. D. P. Munoz, Department of Physiology, Queen's University, Kingston, Ontario, Canada).

1995-1996: Postdoctoral fellow (Supervisor: Dr. H. Flohr, Brain Research Institute, University of Bremen, Germany).

1992-1995: Doctoral thesis (Supervisor: Dr. H. Flohr, Department of Biology and Chemistry, University of Bremen, Germany).

1991-1992: Master project (Supervisor: Dr. H. Flohr, Department of Biology and Chemistry, University of Bremen, Germany

SCHOLARLY ACTIVITIES:

Editorial

Associate Editor *Journal of Neurophysiology* 2014-2017

Scientific Review Associate *European Journal of Neuroscience* 2009-2012

Scientific Advisory Board

"Integrated neural networks in the primate brain", Oxford University, UK 2014-2018

Memberships:
American Physiological Society
Canadian Action and Perception Network (CAPnet)
Society for Neuroscience
Society for the Neural Control of Movement

Reviewer:
Biological Psychiatry
BMC Neuroscience
Brain Research
Cerebral Cortex
Cognitive and Affective Behavioral Neuroscience
Cognitive Neuropsychology
Current Biology
European Journal of Neuroscience
Experimental Brain Research
Experimental Psychology
Journal of Alzheimer's Research
Journal of Cognitive Neuroscience
Journal of Neurophysiology
Journal of Neuroscience
Nature
Nature Neuroscience
NeuroImage
Neuropsychologia
Neuroreport
Neuron
Neuroscience and Biobehavioural Reviews
PlosOne
Proceedings of the National Academy of Science (USA)
Psychological Research
Psychophysiology
Schizophrenia Research
Trends in Cognitive Sciences
Vision Research

Grant Application Appraisals:
Biotechnology and Biological Sciences Research Council UK
Canadian Institutes of Health Research
Cure Autism Now Foundation
Deutsche Forschungsgemeinschaft (German Research Council), SFB 550 (2004), Clusters of Excellence (2006 - 2007), Forschergruppe Giessen/Marburg (2007), SFB 550 (2008), SFB Tuebingen (2011), SFB Magdeburg (2015)
Medical Research Council UK
Natural Science and Engineering Research Council Canada
National Institutes of Health (USA) (2008)
Wellcome Trust, Strategic Grants (2013)
Ontario Problem Gambling (2011-)

COMMITTEE MEMBERSHIPS:

University
University Council on Animal Care – Animal Users Subcommittee (2002 – 2005, 2008-2010)
Search Committee for Animal Care and Veterinary Services Director (2008)
Medicine, Research and Society Committee (2010-), Chair
Program Committee, Graduate Program in Neuroscience (2003-2006, 2011-2014)
Reviewer, Petro-Canada Young Innovator Award Competition (2011)
Search committee for Western Research Chairs in Cognitive Neuroscience (2013)

Faculty
NSERC summer studentship selection committee, Faculty of Medicine and Dentistry (2003)
Search Committee for the Chair of Clinical Neurological Sciences (2008-2009)
Promotion and Tenure committee, Dept. of Anatomy and Cell Biology (2010-2012)
NSERC RTI Review panel (2013)

Departmental
Search Committee for CRC in Primate Neuroscience (2010-2012)
Research Committee, Physiology and Pharmacology (2010-2012)
Space Committee, Physiology and Pharmacology (2008-2010)
Appointments Committee, Physiology and Pharmacology (2005- 2008, 2013-2014)
Performance Evaluation Committee (2007-2008)
Executive Committee, Physiology and Pharmacology (2005-2006, 2014-2015)
Promotion and Tenure Committee (2006-2007)
Animal Users Committee, Psychology (2002- 2005)
Committee on Graduate Studies, Physiology and Pharmacology (2003-2004)
Committee on Graduate Studies, Physiology (2001- 2003)
Space and Facilities Committee, Psychology (2001-2003)
Workload Committee, Physiology and Pharmacology (2011)

Others
CIHR New Investigator Awards Committee (2006-2008)
CIHR Behavioural Sciences C Committee (2005, 2008, 2009-2013)
College of Reviewers for the Canada Research Chairs Program (2003-)
CIHR Master's Awards (2004)
CIHR Doctoral Awards A Committee (2001- 2004)
Partners in Research, National Board Member (2011-2012)

GRADUATE STUDENT AND RESEARCH TRAINEE SUPERVISION:

Kristen A Ford	Neuroscience Ph.D.	9.2002-5.2009	NSERC, CGS	
Michael J Koval	Neuroscience, Ph.D.	5.2008-11.2012	CGS 2009-2012	
Matthew RG Brown	Neuroscience Ph.D.	9.2003-11.2007	CGS	Co-supervisor with Dr. Tutis Vilis
Jessica Phillips	Neuroscience, Ph.D.	9.2008-3.2012	OGSST, OGS	
Michael Koval	Neuroscience, Ph.D.	9.2007-11.2012	CGS	
Matthew RG Brown	Neuroscience M.Sc.	9.2001- 9.2003	NSERC, CGS	Best M.Sc. Student in the Neuroscience program Award
Courtney Field	Physiology M.Sc.	9.2004-8.2006	CGS, CGS for PhD (declined)	
Helen Levin	Neuroscience M.Sc.	9.2004-8.2006		
Michael J Koval	Neuroscience M.Sc.	9.2004-8.2006		
Stephen Wegener	Physiology, M.Sc.	9.2006-8.2008	NSERC, CGS	
Jessica Phillips	Neuroscience, M.Sc.	9.2006-9.2008		
Victor Sanders	Neuroscience M.Sc.	9.2007-8.2009		
Michelle Bale	Neuroscience, M.Sc.	9.2009-6.2011	OGSST	
Iman Janemi	Neuroscience, M.Sc.	9.2009-6.2011	OGS, CIHR	
Sabeeha Hussein	Neuroscience, M.Sc.	9.2010-6.2012		
Kevin Skoblenick	Anatomy and Cell Biology, Ph.D.	8.2010-7.2014	CIHR	
Nikoo Hashemi	Neuroscience M.Sc.	1.2013-		
Brandon Belbeck	Neuroscience M.Sc.	9.2013-	NSERC	
Alex Major	Neuroscience M.Sc.	9.2013-		
Jason Chan	Neuroscience, Ph.D.	9.2012-	CIHR	
Sahand Babapoor-Farrokhran	Neuroscience, Ph.D.	1.2011-	OGS	

Ramina Adam	Neuroscience, M.Sc.	9.2014-	NSERC	
Maryam Ghahremani	Neuroscience, M.Sc.	1.2015		
Dr. Christopher Tinsley	Postdoctoral Fellow	1.2000-8.2000		Now Senior Lecturer, Nottingham Trent University, UK
Dr. Joseph DeSouza	Postdoctoral Fellow	9.2001-8.2004	NSERC	Now Associate Professor of Psychology at York University, Canada
Dr. Kevin Johnston	Postdoctoral Fellow	7.2003-8. 2007		Now Research Scientist University of Western Ontario, Canada
Dr. Andrew Graham	Postdoctoral Fellow	1.7.2007-19.8.2008		
Dr. Thilo Womelsdorf	Research Scientist	1.1.2008-30.6.2011		Now Assistant Professor of Biology at York University, Canada
Dr. Daniel Kaping	Postdoctoral Fellow	1.5.2010-12.2011		Now Postdoc at the Karolinska Institute, Sweden
Dr. R. Matthew Hutchison	Postdoctoral Fellow	1.8.2012-31.8.2013		Now postdoc at Harvard University
Dr. Susheel Vijayraghavan	Postdoctoral Fellow	1.7.2011-		
Dr. Liya Ma	Postdoctoral Fellow	1.1.2014-		
Nicole Hague	Veterinary Assistant	1.1.2013-		

Advisory Committees

Brent Moyer	Physiology M.Sc.	2001-2003	Supervisor Dr. Lewis
Bryce Deniz	Physiology M.Sc.	2002-2004	Supervisor Dr. Henry
Neil Schwartz	Physiology M.Sc.	2002-2004	Supervisor Dr. Henry
Jillian Toogood	Neuroscience M.Sc.	2004-2005	Supervisor Dr. Martin

Andrew Davies	Neuroscience M.Sc.	2004	Supervisor Dr. Hayes
Andew Davies	Neuroscience Ph.D.	2005-2006	Supervisor Dr. Hayes
Denis Gris	Neuroscience Ph.D.	2004-2006	Supervisor Dr. Weaver
Min-Lan Tsai	Neuroscience M.Sc.	2004-2006	Supervisor Dr. Leung
Robert Cantrup	Neuroscience M.Sc.	2004-2006	Supervisor Dr. Raja-kumar
Lintao Qu	Neuroscience Ph.D.	2004-2007	Supervisor Dr. Leung
Sam Rezvani	Physiology M.Sc.	2005-2007	Supervisor Dr. Corneil
Benjamin Nagy	Neuroscience M.Sc.	2005-2008	Supervisor Dr. Corneil
Jim Elsley	Physiology M.Sc.	2005-2007	Supervisor Dr. Corneil
Nick Cothros	Neuroscience M.Sc.	2005-2008	Supervisor Dr. Gribble
Jennifer Lo	Medical Biophysics, M.Sc.	2007-2009	Supervisor Dr. Petersen
Brendan Chapman	Neuroscience M.Sc., Ph.D.	2004-2011	Supervisor Dr. Corneil
Ed O'Neil	Neuroscience Ph.D.	2007-2008	Supervisor Dr. Koehler
Scott Stevenson	Neuroscience M.Sc.	2007-2009	Supervisor Dr. Corneil
Michael Pace	Neuroscience M.Sc.	2008-2010	Supervisor Dr. Corneil
Tyler Peel	Neuroscience M.Sc.	2009-	Supervisor Dr. Corneil
Rick Ezekiel	Neuroscience M.Sc.	2010-2012	Supervisor Dr. Morton
Katie Knapp	Neuroscience M.Sc.	2010-	Supervisor Dr. Morton
Mark Daley	Neuroscience M.Sc.	2010-2012	Supervisor Dr. Culham
Steven Greening	ACB Ph.D.	2010	Supervisor Dr. Mitchell
James Kryklywy	Neuroscience M.Sc.	2011	Supervisor Dr. Mitchell
Stacey Holbrook	Neuroscience M.Sc.	2011	Supervisors Drs. Ossen-kopp and Kavaliers
Peter Nguyen	Neuroscience, M.Sc.	2011	Supervisor Dr. McRae
Lyndon Dong	Physiology, M.Sc.	2015	Supervisor Dr. Martinez

Examining committees

M. George	Physiology M.Sc.	16.9.2003	Supervisor Dr. Drysdale	Chair
C. Quinn	Physiology M.Sc.	22.9.2003	Supervisor Dr. Kennedy	Chair
B. Deniz	Physiology M.Sc.	2.6.2004	Supervisor Dr. Henry	Chair
S. Danckert	Neuroscience M.Sc.	22.9.2004	Supervisor Dr. Koehler	Chair
J. Toogood	Neuroscience M.Sc.	6.10.2005	Supervisor Dr. Martin	Chair
L. Naemsch	Physiology Ph.D.	2001	Supervisors Drs. Sims and Dixon	Examiner
S. Dukelow	Neuroscience Ph.D.	27.2.2002	Supervisor Dr. Vilis	Examiner
J. Hoshooley	Neuroscience M.Sc.	20.8.2002	Supervisor Dr. Sherry	Examiner

T. Herter	McGill Ph.D.	2003	Supervisor Dr. Guitton	Examiner
J. Connolly	Neuroscience Ph.D.	12.1.2004	Supervisor Dr. Goodale	Examiner
J. Cant	Neuroscience M.Sc.	23.9.2004	Supervisor Dr. Goodale	Examiner
M. Sanderson	Neuroscience M.Sc.	7.12.2004	Supervisor Dr. Lanius	Examiner
B. Chapman	Neuroscience M.Sc.	28.8.2006	Supervisor Dr. Corneil	Examiner
S. Rezvani	Physiology M.Sc.	3.7.2007	Supervisor Dr. Corneil	Examiner
J. Elsley	Physiology M.Sc.	27.7.2007	Supervisor Dr. Corneil	Examiner
E. O'Neil	Neuroscience M.Sc.	13.8.2008	Supervisor Dr. Koehler	Examiner
A. Andres	Communication Sciences & Disorders M.Sc.	6.8.2008	Supervisor Dr. Cardy	Examiner
D. Wood	Neuroscience M.Sc.	2.9.2009	Supervisor Dr. Goodale	Examiner
P. Jaramillo	Biology Ph.D.	30.10.2009	Supervisor Dr. Donald Hayden	Chair
H. Steenland	Physiology Ph.D.	26.05.2010	Supervisor Dr. Min Zhou (U of Toronto)	External Examiner
A. Kirchner	Neuroscience, M.Sc.	19.8.2013	Supervisor Dr. Owen	Examiner
C. Gu	Neuroscience, M.Sc.	19.6.2014	Supervisor Dr. Corneil	Chair
J. Desimone	Kinesiology, M.Sc.	28.8.2014	Supervisor Dr. Heath	Examiner
R. Whitwell	Neuroscience Ph.D.	16.6.2015	Supervisor Dr. Goodale	Examiner

Comprehensive Exams:

S. Khan	Neuroscience Ph.D.	20.1.2004/ 11.5.2005	Supervisor Dr. Timney	Chair
D. Quinlan	Neuroscience Ph.D.	21.4.2005	Supervisor Dr. Culham	Chair
M. Waxer	Psychology, Ph.D.	12.10.2006	Supervisor Dr. Morton	Examiner
B. Chapman	Neuroscience Ph.D.	30.2.2007	Supervisor Dr. Corneil	Examiner
D. Wood	Neuroscience, PhD.	17.8.2010	Supervisor Dr. Goodale	Examiner
J. Malins	Neuroscience, Ph.D.	10.12.2010	Supervisor Dr. Joannise	Examiner
E. O'Neil	Neuroscience, Ph.D.	14.6.2011	Supervisor Dr. Koehler	Examiner

J. Weiler	Kinesiology, Ph.D.	17.1.2012	Supervisor Dr. Heath	Examiner
T. Peel	Neuroscience, Ph.D.	10.7.2014	Supervisor Dr. Corneil	Examiner
C. Gu	Neuroscience, Ph.D.		Supervisor Dr. Corneil	Examiner

TEACHING:

2013-2014
Physiology 4630b, Motor Neurophysiology, Course Manager (32 students, 26 hours)
Physiology 3130, Neurophysiology laboratory (evoked potentials and saccades) (12 hours)

2012-2013
Sabbatical leave

2011-2012
Physiology 3130, Neurophysiology laboratory (evoked potentials and saccades) (20 hours)
Physiology 4980, Seminar leader (2 hours)
Physiology 4630b, Motor Neurophysiology, Course Manager (54 students, 26 hours)

2010-2011
Neuroscience 9500, Seminar leader in Systems Neuroscience Section (2 hours)
Physiology 3130, Neurophysiology laboratory (evoked potentials) (20 hours)
Physiology 4980, Seminar leader (2 hours)
Physiology 4630b, Motor Neurophysiology, Course Manager (112 students, 26 hours)

2009-2010
Neuroscience 9500, Seminar leader in Systems Neuroscience Section (2 hours)
Physiology 3130, Neurophysiology laboratory (evoked potentials) (20 hours)
Physiology 4980, Seminar leader (2 hours)
Physiology 4630b, Motor Neurophysiology, Course Manager (100 students, 26 hours)

2008-2009
Neuroscience 500, Lecture in Systems Neuroscience Section (2 hours)
Physiology 313y, Neurophysiology laboratory (evoked potentials) (36 hours)
Physiology 4980, Seminar leader (2 hours)
Physiology 4630b, Motor Neurophysiology, Course Manager (75 students, 26 hours)

2007-2008
Neuroscience 500, Lecture in Systems Neuroscience Section (2 hours)
Physiology 3130, Neurophysiology laboratory (evoked potentials) (36 hours)
Physiology 480, Seminar leader (2 hours)
Physiology 463b, Motor Neurophysiology, Course Manager (93 students, 26 hours)

2006-2007
Neuroscience 500, Section Coordinator for Systems Neuroscience
Neuroscience 500, Lecture in Systems Neuroscience Section (2 hours)

Physiology 313y, Neurophysiology laboratory (evoked potentials) (36 hours)
Physiology 480, Seminar leader (2 hours)
Physiology 463b, Motor Neurophysiology, Course Manager (104 students, 26 hours)

2005-2006
Neuroscience 500, Section Coordinator for Systems Neuroscience
Neuroscience 500, Lecture in Systems Neuroscience Section (2 hours)
Physiology 313y, Neurophysiology laboratory (evoked potentials) (36 hours)
Physiology 480, Seminar leader (2 hours)
Physiology 463b, Motor Neurophysiology, Course Manager (56 students, 26 hours)

2004-2005
Neuroscience 500, Section Coordinator for Systems Neuroscience
Neuroscience 500, Lecture in Systems Neuroscience Section (2 hours)
Physiology 313y, Neurophysiology laboratory (evoked potentials) (24 hours)
Physiology 471a, Sensory Neurophysiology (2 hours)
Physiology 480, Seminar leader (2 hours)
Physiology 463b, Motor Neurophysiology, Course Manager (39 students, 26 hours)

2003-2004
Neuroscience 500, Section Coordinator for Systems Neuroscience
Neuroscience 500, Lecture in Systems Neuroscience Section (2 hours)
Physiology 310, Neurophysiology laboratory (evoked potentials) (24 hours)
Physiology 480, Seminar leader (2 hours)
Physiology 463b, Motor Neurophysiology, Course Manager (20 students, 26 hours)

2002-2003
Physiology 480, Member of the course committee (20 hours)
Physiology 310, Neurophysiology laboratory (evoked potentials) (24 hours)
Neuroscience 500, Lecture in Systems Neuroscience Section (2 hours)

2001-2002
Physiology 480, Member of the course committee (20 hours)
Physiology 310, Neurophysiology laboratory (eye movements, evoked potentials) (16 hours)
Neuroscience 500, Lecture in Systems Neuroscience Section (2 hours)
Psychology 499F – Nadder Sharif, Kashta Dolphin (12 hours)
Psychology 499G – Kristen Ford, Mark Avey (12 hours)

4th year B.Sc. Honours Students

Victoria Brzozowski (Physiology) –B.Sc. (Hon)	2013-2014
Jane Liao (Physiology) – B.Sc. (Hon)	2011-2012
Stephanie Yurkewich (Physiology)-B.Sc. (Hon)	2010-2011
Hwa Lee (Physiology) - B.Sc. (Hon)	2008-2009
Sarah Aubin (Physiology) - B.Sc. (Hon)	2008-2009
Lindsay Farber (Psychology) - B.Sc. (Hon)	2007-2008
Amelia Szozda (Physiology) – B.Sc. (Hon)	2006-2007
Jessica Phillips (Physiology) – B.Sc. (Hon)	2005-2006
Benson Thomas (Physiology) – B.Sc. (Hon)	2004-2005

Michael Koval (Physiology) – B.Sc. (Hon)	2003-2004
Mark Avey (Psychology) – B.Sc. (Hon)	2002-2003
Nadder Sharif (Physiology) – B.Sc. (Hon.)	2002-2003
Julia Steele (Physiology) – B.Sc. (Hon.)	2001-2002

Summer Students

Ramina Adam (4th year)	2014
Victoria Brzozowski (4th year)	2014
Tanja Lojpur (NSERC summer student)	2014
Sabeeha Hussein (4th year)	2010
Michele Bale (4th year)	2009
Lindsay Farber (3rd year)	2007
Elizabeth Goodale	2007
Victor Sanders (3rd year)	2006
Jessica Philips (4th year)	2005
Michael Koval (4th year)	2004

GRANTS: **Current Grants**

CIHR (Canadian Institutes of Health Research) — $729,125 over 5 years; $145,825 per annum
Operating Grant
1.4.2013-31.3.2018
Ketamine-induced NMDA receptor hypofunction in nonhuman primates as a model for cognitive deficits in schizophrenia
Role: PI

CIHR (Canadian Institutes of Health Research) — $854,155 over 5 years; $170,831 per annum
Operating Grant
1.4.2011-31.3.2016
Role of frontal projections to the superior colliculus in saccade suppression and task switching in primates
Role: PI

NSERC (Natural Science and Engineering Research Council) — $235,000 over 5 years; $47,000 per annum
Discovery Grant
1.4.2012-31.3.2017
Functional microarchitecture underlying target selection and saccade generation in the primate frontal eye fields
Role: PI

CIHR Accelerator Grant — $49,000
University of Western Ontario
1.2.2014 -31.1.2016
Resting-state fMRI in marmoset monkeys
Role: PI

Previous Grants

CIHR (Canadian Institutes of Health Research) $855,800 over 5 years
Operating Grant $171,160 per annum
1.4.2010-31.3.2015
Neural mechanisms underlying the emergence of selective attentional control
Role: Co-applicant (PI Thilo Womelsdorf)

CFI (Canada Foundation for Innovation) $6,235,244
2012 Leading Edge and New Initiatives Funds
Centre for Functional and Metabolic Mapping
Role : co-applicant with Ravi Menon (Project Leader), Daniel Ansari, Blain Chronik, Jody Culham, Rhodri Cusack, Melvyn Goodale, Victor Han, Adrian Owen, Peter Williamson

CIHR (Canadian Institutes of Health Research) $836,635 over 5 years
Operating Grant $167,327 per annum
1.10.2008-30.9.2013
Relationship between neural activity and blood oxygenation level-dependent (BOLD) signals in the primate frontal eye field
Role: PI

Grammy Foundation $19,500
Grants Program
1.4.2012-31.3.2013
Brain responses to music in humans and nonhuman animals
Role: co-PI (PI Jessica Grahn)

CFI (Canada Foundation for Innovation) $318,272
LOF
2011
Laboratory for Neural Circuits and Cognitive Control
Role :PI

OMHF (Ontario Mental Health Foundation) $146,842 over 2 years

Research Grant $73,421 per annum
1.4.2010-31.3.2012
Cellular mechanisms underlying disruption of working memory for abstract rules in nonhuman primates
Role: PI

NSERC (Natural Science and Engineering Research Council) $117,435 over 5 years
Discovery Grant $23,487 per annum
1.4.2007-31.3.2012
Influence of high-level visual processes on saccadic eye movements
Role: PI

CIHR (Canadian Institutes of Health Research) $696,850 over 5 years
Resource Grant $139,370 per annum
1.4.2007-31.3.2012
Center for Functional and Metabolic Mapping
(PI Ravi S Menon)
Role: Co-Investigator

CIHR (Canadian Institutes of Health Research) $710,600 over 5 years
Operating Grant $142,000 per annum
1.4.2006-31.3.2011
Role of frontal projections to the superior colliculus in saccade suppression and task switching in primates
Role: PI

NSERC $76,600
Research tools and Instrumentation
1.3.2010-31.3.2011
A recording system for ERPs in nonhuman primates
Role: PI

CIHR (Canadian Institutes of Health Research) $1,870,770 over 5 years
Group grant $374,154 per annum
1.10.2004-30.9.2009
Neural transformations for perception and action
(PI M Goodale)
Role: Co-PI

NIH (National Institutes of Health, USA) US $375,000 over 5 yrs
1.9.2003-31.8.2008 US $75,000 per annum
High resolution functional MRI of columnar structures
Role: Co-Investigator (PI Ravi S Menon)

CIHR (Canadian Institutes of Health Research) $571,025 over 5 years
Operating grant $114,205 per annum
1.9.2003-31.8.2008
Biophysical basis of functional magnetic resonance Imaging

Role: Co-Investigator (PI Ravi S Menon)

CIHR (Canadian Institutes of Health Research) — $276,600 over 3 years; $92,200 per annum
Operating Grant
1.4.2005-31.3.2008
Functional organization of the primate prefrontal cortex investigated with functional magnetic resonance imaging
Role: PI

CIHR (Canadian Institutes of Health Research) — $733,740 over 5 years; $146,748 per annum
Multi-user maintenance grant
31.3.2001-1.4.2007
Laboratory for functional magnetic resonance research
John P. Robarts Research Institute (London, Ont.)
(PI Ravi S Menon)
Role: Co-Investigator

PREA (Premier's Research Excellence Award) — $100,000 over 5 years; $20,000 per annum
1.6.2001-31.5.2006
Role of prefrontal cortex in top-down control of visual attention
Role: PI

CIHR (Canadian Institutes of Health Research) — $250,000 over 5 years; $50,000 per annum
New Investigator Salary Award
1.4.2001-31.3.2006

NIH (National Institutes of Health, USA) — US $200,000 over 2 yrs; US $100,000 per
Development of fMRI compatible reversible deactivation
Role: Co-PI (PI Steven Lomber, U of Dallas)
1.6.2004-31.5.2006

CIHR (Canadian Institutes of Health Research) — $333,370 over 5 years; $66,674 per annum
Operating Grant
1.4.2001-31.3.2006
Role of prefrontal cortex in visual target selection
Role: PI

The EJLB Foundation — $300,000 over 3 years; $100,000 per annum
Scholar Research Program
1.1.2003—31.12.2005
Neural correlates for response inhibition investigated with the anti-saccade task
Role: PI

NARSAD (National Alliance for Research on Schizophrenia and Depression) — US $60,000 over 2 yrs.
Young Investigator Award

1.5.2003-30.4.2005
Fronto-parietal interaction in the suppression of reflexive saccades relevant to schizophrenia
Role: PI

CFI (Canada Foundation for Innovation) $250,000
New Opportunities Award
2001
Multidisciplinary Approaches to Cognitive Neuroscience

OIT (Ontario Innovation Trust) $250,000
2001
Matching funds for
CFI New Opportunities Award

ADF (Academic Development Fund UWO) $5,200
2001
Functional magnetic imaging of the monkey brain
Role: PI

CAN (Cure Autism Now) Foundation US$ 80,000 over 2 yrs.
Pilot Research Award
2000-2002
A non-human primate model to study prefrontal cortex dysfunction in autism
Role: PI

NARSAD (National Alliance for US$ 60,000 over 2 yrs.
Research on Schizophrenia and Depression)
Young Investigator Award
2000-2002
Neural basis for eye movement deficits in schizophrenia
Role: PI

PUBLICATIONS IN PEER REVIEWED JOURNALS
(Google Scholar: H-index 35, Citations 5424)
(Web of Science: H-Index 29, Citation 3896)

89. Major AJ, Vijayraghavan S, **Everling S (**in press) Muscarinic attenuation of mnemonic rule representation in macaque dorsolateral prefrontal cortex during a pro- and anti-saccade task. J Neurosci.

88. Gilbert KM, Gati JS, Barker K, **Everling S**, Menon RS (2015 Optimized parallel transmit and receive radiofrequency coil for ultrahigh-field MRI of monkeys. Neuroimage 125:153-161

87. Balcarras M, Ardid S, Kaping D, **Everling S**, Womelsdorf T (2015). Attentional selection can be predicted by reinforcement learning of task-relevant stimulus features weighted

by value-independent stickiness. J. Cogn. Neurosci. 21:1-17

86. Womelsdorf T, **Everling S** (in press). Long-Range Attention Networks: Circuit Motifs Underlying Endogenously Controlled Stimulus Selection. Trends in Neurosciences.

85. Oemisch M, Westendorff S, **Everling S**, Womelsdorf T (2015). Inter-areal Spiketrain Correlations of Anterior Cingulate and Dorsal Prefrontal Cortex during Attention Shifts. J. Neurosci. 35: 13076-13089

84. Ma L, Skoblenick KS, Seamans JK, **Everling S** (2015). Ketamine-induced changes in the signal and noise of rule representation in working memory by lateral prefrontal neurons. J. Neurosci. 35: 11612-11622

83. Schwiedrzig CM, Zarco W, **Everling S**, Freiwald W (2015). Face patch resting state networks link face processing to social cognition. PLOS Biology. 13(9): e1002245. doi:10.1371/journal.pbio.1002245

82. Voloh B, Valiante TA, **Everling S,** Womelsdorf T (2015) Theta Gamma Coordination between Anterior Cingulate and Prefrontal Cortex Indexes Correct Attention Shifts. Proceedings of the National Academy of Sciences (USA) 112:8457-8462

81. Skoblenick KS, Womelsdorf T, **Everling S** (2015) Ketamine alters outcome-related local field potentials in monkey prefrontal cortex. Cerebral Cortex pii: bhv128

80. Hutchison RM, Culham JC, Flanagan JR, **Everling S**, Gallivan R (2015) Functional subdivisions of medial parieto-occipital cortex in humans and nonhuman primates using resting-state fMRI. Neuroimage 116: 10-29

79. Shen K, Misic B, Cipollini BN, Bezgin G, Hutchison RM, Jaegii SM, Kross E, Peltier SJ, **Everling S**, Jonides J, McIntosh A, Berman MG (2015) Stable long-range interhemispheric coordination is supported by direct anatomical projections. Proceedings of the National Academy of Sciences (USA) 112: 6473-6478.

78. Hutchison RM, Hashemi N, Gati JS, Menon RS, **Everling S** (2015) Electrophysiological signatures of spontaneous BOLD fluctuations in macaque prefrontal cortex. Neuroimage 113:257-267

77. DeSimone J, **Everling S**, Heath M (2015) The Antisaccade Task: Visual Distractors Elicit a Location-Independent Planning 'Cost'. PLOS One 10(4):e0122345. doi: 10.1371/journal.pone.0122345

76. Shen K, Hutchison RM, Bezgin G, **Everling S**, McIntosh A (2015) Network structure shapes spontaneous functional connectivity dynamics. J. Neurosci. 35: 5579-5588.

75. Ardid S, Vinck M, Marquez S, **Everling S**, Womelsdorf T (2015) Mapping of functionally characterized cell classes onto canonical circuit operations in primate prefrontal cortex. J. Neurosci. 35(7): 2975-2991.

74. Womelsdorf T, Ardid S, **Everling S**, Valiante TA (2014) Burst Firing Synchronizes Prefrontal and Anterior Cingulate Cortex during Attentional Control. Current Biology 24(22): 2613-2621.

73. Hutchison RM, Hutchison M, Manning KY, Menon RS, **Everling S** (2014) Isoflurane induces dose-dependent alterations in the connectivity profiles and dynamic properties of the brain's functional architecture. Human Brain Imaging 35: 5754-5775

72. Chan JL, Koval MJ, Womelsdorf T, Lomber SG, **Everling S** (2014) Monkey dorsolateral prefrontal cortex deactivation reduces preparatory beta and gamma power in the superior colliculus. Cereb. Cortex 2014 Jul 17. pii: bhu154. [Epub ahead of print]

71. Deco G, McIntosh AR, Shen K, Hutchison RM, Menon RS, **Everling S**, Hagmann P, Jirsa VK (2014) Identification of optimal structural connectivity using functional connectivity and neural modeling. J. Neurosci. 34: 7910-7916

70. Hussein S, Johnston K, Belbek B, Lomber SG, **Everling S** (2014) Functional specialization within macaque dorsolateral prefrontal cortex for the maintenance of task rules and cognitive control. J. Cogn. Neurosci. 26: 1918-1927

69. Shen C, Ardid S, Kaping D, Westendorff S, **Everling S**, Womelsdorf T (2014) Anterior Cingulate Cortex Cells Identify Process-Specific Errors of Attentional Control prior to transient Prefrontal-Cingulate Inhibition. Cereb. Cortex doi:10.1093/cercor/bhu028

68. Phillips JM, **Everling S** (2014) Event-related potentials associated with performance monitoring and post-error adjustments in nonhuman primates. Neuroimage 97: 308-320.

67. Hutchison RM, Culham J, **Everling S**, Flanagan J, Gallivan J (2014) Distinct and distributed functional connectivity patterns across cortex reflect the domain-specific constraints of object, face, scene, body, and tool category-selective modules in the ventral visual pathway. Neuroimage 96: 216-236

66. Koval MJ, Hutchison RM, Lomber SG, **Everling S (**2014) Effects of unilateral deactivations of dorsolateral prefrontal cortex and anterior cingulate cortex on saccadic eye movements. J. Neurophysiol. 111:(4) 787-803

65. Skoblenick KS, **Everling S** (2014) N-methyl-D-aspartate receptor antagonist ketamine impairs action-monitoring activity in the prefrontal cortex. J. Cogn. Neurosci. 26:577-592

64. Johnston K, Koval MJ, Lomber SG, **Everling S** (2014) Macaque dorsolateral prefrontal cortex does not suppress saccade-related activity in the superior colliculus. Cereb Cortex 24: 1373-1388

63. Hutchison RM, **Everling S** (2013) Broad intrinsic functional connectivity boundaries of the macaque frontal cortex. Neuroimage. 88C:202-211

62. **Everling S**, Johnston K (2013) Control of the superior colliculus by the lateral prefrontal cortex. Phil Trans Royal Soc B 368(1628):20130068. doi: 10.1098/rstb.2013.0068.

61. Jantz JJ, Watanabe M, **Everling S**, Munoz DP (2013) Threshold mechanism for saccade initiation in the frontal eye field and superior colliculus. J. Neurophysiol.109: 2767-

2780

60. Babapoor-Farrokhran S, Hutchison RM, Gati JS, Menon RS, **Everling S** (2013) Functional connectivity patterns of medial and lateral macaque frontal eye fields reveal distinct visuomotor networks. J. Neurophysiol. 109: 2560-2570

59. Phillips JM, Vinck M, **Everling S**, Womelsdorf T (2013) A long-range fronto-parietal 5-10 Hz network predicts 'top-down' controlled guidance in a task-switch paradigm. Cereb Cortex doi: 10.1093/cercor/bht050

58. Phillips JM, **Everling S** (2012) Neural activity in the macaque putamen associated with saccades and behavioral outcome. PLoS ONE 7(12): e51596. doi:10.1371/journal.pone.0051596

57. Shen K, Bezgin G, Hutchison RM, Gati J, Menon RS, **Everling S**, McIntosh A (2012) Information processing architecture of functionally defined clusters in the macaque cortex. J. Neurosci. 32(48): 17465-76

56. Skoblenick KS, **Everling S** (2012) NMDA antagonist ketamine reduces task-selectivity in macaque dorsolateral prefrontal neurons and impairs performance of randomly interleaved pro- and anti-saccades. J. Neurosci. 32(35): 12018-12027

55. Hutchison RM, **Everling S** (2012) Monkey in the middle: Why nonhuman primates are needed to bridge the gap in resting-state investigations. Frontiers in Neuroanatomy 6:29. doi: 10.3389/fnana.2012.00029

54. Hutchison RM, Womelsdorf T, Gati JS, Leung LS, Menon RS, **Everling S** (2012) Resting-state connectivity identifies distinct functional networks in macaque cingulate cortex. Cerebral Cortex 22: 1294-1308 doi: 10.1093/cercor/bhr181

53. Hutchison RM, Gallivan JP, Culham JC, Gati JS, Menon RS, **Everling S** (2012) Functional connectivity of the frontal eye fields in humans and monkeys investigated with resting-state fMRI. J. Neurophysiol. 107: 2463-2474.

52. Hutchison RM, Womelsdorf T, Gati JS, **Everling S**, Menon RS (2012) Resting-state networks show dynamic functional connectivity in awake humans and anesthetized macaques. Human Brain Mapping 10.1002/hbm.22058.

51. Kaping D, Vinck M, **Everling S**, Womelsdorf T (2011) Specific contributions of ventromedial frontal, anterior cingulate and lateral prefrontal cortex for attentional selection and stimulus valuation. PLOS Biology Dec;9(12):e1001224

50. Koval MJ, Lomber SG, **Everling S** (2011) Prefrontal cortex deactivation in macaques alters activity in the superior colliculus and impairs voluntary control of saccades. J. Neurosci. 31: 8659-8668

49. Hutchison RM, Leung LS, Mirsattaril SM, Gati JS, Menon RS, **Everling S** (2011) Resting-state networks in the macaque at 7 T. Neuroimage 56: 1546-1555

48. Phillips JM, Johnston K, **Everling S** (2011) Effects of anterior cingulate microstimula-

tion on pro- and anti-saccades in nonhuman primates. J. Cogn. Neurosci. 23: 481-490

47. Womelsdorf T, Johnston K, Vinck M, **Everling S** (2010) Theta-activity in anterior cingulate cortex predicts task rules and their adjustments following errors. Proceedings of the National Academy of Sciences (USA) 107: 5248-5253

46. Womelsdorf T, Vinck M, Leung S, **Everling S** (2010) Selective theta-synchronization of choice relevant information subserves goal-directed behavior. Frontiers in Human Neuroscience. 4:210

45. Sander V, Soper B, **Everling S** (2010) Nonhuman primate event-related potentials associated with pro- and anti-saccades. NeuroImage 49: 1650-1658

44. Ford KS, **Everling S** (2009) Neural activity in primate caudate nucleus associated with pro- and anti-saccades. J. Neurophysiol. 102: 2334-2341

43. Johnston K, DeSouza JX, **Everling S** (2009) Monkey prefrontal cortical pyramidal and putative interneurons exhibit differential patterns of activity between pro- and antisaccade tasks. J. Neurosci. 29: 5516-5524

42. Johnston K, **Everling S** (2009) Task-relevant output signals are sent from monkey dorsolateral prefrontal cortex to the superior colliculus during a visuospatial working memory task. J. Cogn. Neurosci. 21: 1023-1038

41. Ford KA, Gati JS, Menon RS, **Everling S** (2009) BOLD fMRI activation for antisaccades in nonhuman primates. NeuroImage 45: 470-476

40. Field CB, Johnston K, Gati JS, Menon RS, **Everling S** (2008) Connectivity of the primate superior colliculus mapped by concurrent microstimulation and fMRI. PLOS One. 3(2): e3982

39. Johnston K, **Everling S** (2008) Neurophysiology and neuroanatomy of reflexive and voluntary saccades in non-human primates. Brain and Cognition 68: 271-283.

38. Wegener S, Johnston K, **Everling S** (2008) Microstimulation of monkey dorsolateral prefrontal cortex impairs antisaccade performance. Exp. Brain Res. 190: 463-473

37. Brown MRG, Vilis T, **Everling S** (2008) Isolation of saccade inhibition processes: rapid event-related fMRI of saccades and nogo trials. NeuroImage 39: 793-804.

36. Brown MRG, Vilis T, **Everling S** (2007) Frontoparietal activation with preparation for antisaccades. J Neurophysiol 98: 1751-1762

35. Johnston K, Levin H, Koval MJ, **Everling S** (2007) Top-down signal dynamics in anterior cingulate and prefrontal cortex neurons following task switching. Neuron 53: 453-462

34. Johnston K, **Everling S** (2006) Monkey prefrontal cortex sends task-selective signals directly to the superior colliculus. J Neurosci. 26: 12471-12478.

33. Brown MRG, Goltz HG, Ford KA, Vilis T, **Everling S** (2006) Inhibition and generation of saccades: Rapid event-related fMRI of prosaccades, antisaccades, and nogo trials.

NeuroImage, 33: 644-659.

32. Johnston K, **Everling S** (2006) Neural activity in monkey prefrontal cortex is modulated by task context and behavioural instruction during delayed-match-to-sample and conditional pro-saccade/anti-saccade tasks. J. Cogn. Neurosci. 18:749:765.

31. **Everling S**, Tinsley CJ, Gaffan D, Duncan J (2006) Selective representation of task-relevant objects and locations in the monkey prefrontal cortex. Eur. J. Neurosci. 23: 2197-2214.

30. Koval MJ, Thomas BS, **Everling S** (2005) Task-dependent effects of social attention on saccadic reaction times. Exp. Brain Res. 167: 475-480.

29. **Everling S,** DeSouza, JFX (2005) Rule-dependent activity for prosaccades and anti-saccades in the primate prefrontal cortex. J. Cogn. Neurosci. 17: 1483-1496.

28. Ford KA, Goltz HG, Brown MRG**, Everling S** (2005) Neural processes associated with anti-saccade task performance investigated with event-related fMRI. J. Neurophysiol. 94: 429-440

27. Koval MJ, Ford KA, **Everling S** (2004) Effect of stimulus probability on anti-saccade error rates. Exp. Brain Res. 159:268-272

26. Munoz DP, **Everling S** (2004) Look away: The anti-saccade task and the voluntary control of eye movement. Nature Reviews Neuroscience 5: 218-228

25. Brown MRG, DeSouza JFX, Goltz HC, Ford KA, Menon RS, Goodale MA, **Everling S** (2004) Comparison of memory- and visually-guided saccades using event-related fMRI. J. Neurophysiol. 91:873-889

24. DeSouza JFX, **Everling S** (2004) Focused attention modulates visual responses in the primate prefrontal cortex. J. Neurophysiol. 91: 855-862

23. Khan SA, Ford K, Timney B, **Everling S** (2003) Effects of ethanol on anti-saccade task performance. Exp. Brain Res. 150: 68-74

22. DeSouza JFX, Menon RS, **Everling S** (2003) Preparatory set associated with pro-saccades and anti-saccades in humans investigated with event-related FMRI. J. Neurophysiol. 89:1016-23

21. Tinsley CJ**, Everling S** (2002) Contribution of the prefrontal cortex to the gap effect. Prog. Brain Res. 140: 61-72.

20. Dorris MC, Klein RM, **Everling S**, Munoz DP (2002) Contribution of the monkey superior colliculus to inhibition of return. J. Cogn. Neurosci. 14: 1256-1263.

19. Gribble PL**, Everling S**, Ford K, Mattar A (2002) Hand-eye coordination for rapid pointing movements: Arm movement direction and distance are specified prior to saccade onset. Exp. Brain Res. 145: 372-82.

18. **Everling S**, Tinsley CJ, Gaffan D, Duncan J (2002) Filtering of neural signals by fo-

cused attention in monkey prefrontal cortex. Nature Neuroscience 5: 671-676

17. Matthews A, Flohr H, **Everling S** (2002) Cortical activation associated with mid-trial change of instruction in a saccade task. Exp. Brain Res. 143: 488-498

16. **Everling S**, Matthews A, Flohr H (2001) Prestimulus cortical potentials predict the performance in a saccadic distractor paradigm. Clin. Neurophysiol. 112: 1088-1095.

15. Munoz DP, Dorris MC, Paré M, **Everling S** (2000) On your mark, get set: brainstem circuitry underlying saccadic initiation. Can. J. Physiol. Pharmacol. 78: 934-944.

14. Bell AH, **Everling S**, Munoz DP (2000) The influence of stimulus eccentricity and direction on characteristics of pro- and anti-saccades in non-human primates. J. Neurophysiol. 84: 2595-2604

13. **Everling S**, Munoz DP (2000) Neuronal correlates for preparatory set associated with pro-saccades and anti-saccades in the primate frontal eye field. J. Neurosci. 20: 387-400

12. Spantekow A, Krappmann P, **Everling S**, Flohr H (1999) Event-related potentials and saccadic reaction times: Effects of fixation point offset or change. Exp. Brain Res. 127: 291-297

11. **Everling S**, Dorris MC, Klein RM, Munoz DP (1999) Role of primate superior colliculus in preparation and execution of anti-saccades and pro-saccades. J. Neurosci. 19: 2740-2754

10. Krappmann P, **Everling S**, Flohr H (1998) Accuracy of visually and memory-guided antisaccades in man. Vision Res. 38: 2979-2985.

9. Krappmann P, **Everling S** (1998) Spatial accuracy and secondary memory-guided saccades in schizophrenic patients. Schizophr. Res. 30: 183-185

8. **Everling S**, Dorris MC, Munoz DP (1998) Reflex suppression in the anti-saccade task is dependent on prestimulus neural processes. J. Neurophysiol. 80: 1584-1589

7. **Everling S**, Fischer B (1998) The antisaccade: A review of basic research and clinical studies. Neuropsychologia 36: 885-899

6. **Everling S**, Paré M, Dorris MC, Munoz DP (1998) Comparison of the discharge characteristics of brain stem omnipause neurons and superior colliculus fixation neurons in monkey: Implications for control of fixation and saccade behavior. J. Neurophysiol. 79: 511-528

5. **Everling S**, Spantekow A, Krappmann P, Flohr H (1998) Event-related potentials associated with correct and incorrect responses in a cued antisaccade task. Exp. Brain Res. 118: 27-34

4. **Everling S**, Krappmann P, Spantekow A, Flohr H (1997) Influence of pre-target cortical potentials on saccadic reaction times. Exp. Brain Res. 115: 479-484

3. **Everling S**, Krappmann P, Flohr H (1997) Cortical potentials preceding pro- and anti-saccades in man. Electroencephalogr. Clin. Neurophysiol. 102: 356-362

2. **Everling S**, Krappmann P, Spantekow A, Flohr H (1996) Cortical potentials during the gap prior to express and fast regular saccades. Exp. Brain Res. 111: 139-143

1. **Everling S**, Krappmann P, Preuss S, Brand A, Flohr H (1996) Hypometric primary saccades of schizophrenics in a delayed response task. Exp. Brain Res. 111: 289-295

INVITED COMMENTARIES:

Everling S (2007) Where do I look? From attention to action in the frontal eye field. Neuron 56: 418-419

BOOK

Liversedge S, Glichrist ID, **Everling S (eds.)** (2011) The Oxford Handbook of Eye Movements. Oxford University Press, Oxford, UK

BOOK CHAPTERS

Everling S, Dorris MC, Munoz DP (1999) Neuronal activity in monkey superior colliculus during an antisaccade task. In: W Becker, H Deubel, T Mergner (eds.), Current oculomotor research: Physiological and psychological aspects. New York: Plenum, 17-25

Spantekow A, Krappmann P, **Everling S**, Flohr H (1999) Effects of warning signals on saccadic reaction times and event-related potentials. In: W Becker, H Deubel, T Mergner (eds.), Current oculomotor research: Physiological and psychological aspects. New York: Plenum, 85-87

Ford KA, **Everling S** (2007) Anti-saccade task performance is dependent upon BOLD activation prior to stimulus presentation: An fMRI study in human subjects. In: PG Van Gomple, MH Fischer, WS Murray, RL Hill (eds.), Eye Movements: A window on mind and brain. Oxford: Elsevier.

Johnston K**, Everling S** (2011) Frontal cortex and flexible saccade control. In: The Oxford Handbook of Eye Movements (Liversedge S, Gilchrist ID, **Everling S** (eds). Oxford University Press.

Johnston K**, Everling S** (2011) An approach to understanding the neural circuitry of saccade control in the cerebral cortex using antidromic identification in the awake behaving macaque monkey model. In: Contemporary animal models of movement disorders (Dunnell S, Lane E). Springer Humana Press

OTHER PUBLICATIONS

Everling S (1984) War Games. In W Breuer, W Czerny (eds.) 21 LISTige Programme für den TI 99/4A. Haar bei München: Markt & Technik. ISBN 3-89090-065-8

Everling S (1996) Sakkadische Augenbewegungen in verzögerten okulomotorischen Antwortaufgaben bei Schizophrenen und Gesunden. Shaker Verlag ISBN 978-3826511387

INVITED PRESENTATIONS

1997
Neuroscience Seminar, Bremen, Germany
KOGNET seminar, Bochum, Germany

1999
Wednesday Seminar, MRC CBU, Cambridge, England
KOGNET winter-school, Bochum, Germany
Psychology Seminars Series, Bangor, Wales
Neuroscience Seminar Series, Tübingen, Germany

2000
Neuroscience Seminar, Bremen, Germany
European Diploma in Cognitive and Brain Sciences, Delmenhorst, Germany, Senior Lecturer
Psychology Seminar, Edmonton, Canada

2001
Neuropsychiatry Seminar, London Health Science Centre, Canada

2002
Neural Control of Movement Meeting, Naples, Florida

2003
12th European Conference on Eye Movements, Dundee, Scotland

2004
Department of Neuroscience Seminar, University of Pittsburgh, USA
Neural Control of Movement Meeting, Sitges, Spain
MIT, Department of Brain and Cognitive Sciences, USA
The EJLB Symposium, North Hatley, Quebec, Canada

2005
"Look away. Using the antisaccade task to study voluntary control of movement", Human Brain Mapping Meeting, LOC Symposium, Toronto, Canada

"Look away! Role of prefrontal cortex in antisaccade performance", Neuroscience Seminar, University of Bremen, Germany

"Look away! Neural correlates for suppression of the visual grasp reflex in the antisaccade task", European Behavioural and Brain Sciences Meeting, Dublin, Ireland

"Activity of antidromcially identified corticotectal cells in the primate prefrontal cortex for pro- and anti-sacccades", Executive Frontal Lobe Function, Tübingen, Germany

2006
"Monkey fMRI: The crucial link between human fMRI and monkey electrophysiology", Imaging Network of Ontario Symposium, Toronto, Canada

"The antisaccade task: A tool to study the voluntary control of eye movements", Department of Vision Sciences, University of Birmingham, USA

"Functional imaging of the saccadic eye movement system in monkeys", Frontiers in functional imaging symposium, University of Birmingham, USA

"Neural activity in primate prefrontal cortex and anterior cingulate associated with the performance of pro- and anti-saccades", Psychophysiology Symposium, Vancouver, Canada

"Monkey fMRI and single unit recordings in PFC and ACC in an anti-saccade task", Bodian Seminar, The Zanvyl Krieger Mind/Brain Institute, John Hopkins University, USA

"Guck weg! Aktivität im präfrontalen Cortex während des Antisakkadentests (Look away! Neural activity in prefrontal cortex during the antisaccade task", German Primate Center, Göttingen, Germany

2007

"The role of frontal cortex in the anti-saccade task", Physiology Seminar Series, Queen's University, Canada

"Top-down processes for antisaccade generation", Theoretical/Systems Neurobiology Seminar, Yale University, USA

"Monkey fMRI and single unit recordings in prefrontal cortex and anterior cingulate cortex in an antisaccade task", 1st Canadian Association for Neuroscience Meeting, Toronto, Canada

"Contribution of the dorsolateral prefrontal cortex to antisaccade task performance", European Conference on Eye Movements, Potsdam, Germany

"Neural correlates for response inhibition", The EJLB Symposium, North Hatley, Quebec, Canada

2008

"Top-down control investigated with the anti-saccade task", Nijmegen Institute for Cognition and Information Seminar, Netherlands

2009

"Role of prefrontal and anterior cingulate cortex in the control of saccadic responses ", German Neuroscience Conference, Göttingen, Germany

"Event-related potentials associated with pro- and anti-saccades in nonhuman primates", European Conference on Eye Movements, South Hampton, UK

"Look away! Role of prefrontal cortex in anti-saccade generation", New Perspectives on Neural Mechanisms of Cognition and Action, Tamagawa University, Tokyo, Japan

"Role of principal sulcus in memory-guided saccades and anti-saccades", Okazaki International mini-symposium: Neural control of eye and hand movement, National Institute for Physiological Sciences, Okazaki, Japan

"Look away! Role of prefrontal cortex in anti-saccade generation", Lab seminar hosted by Kenji Kawano, Department of Integrative Brain Science, Kyoto University, Japan

"Effects of prefrontal and anterior cingulate cortex inactivations on saccadic eye movements", Seminar, Department of Physiology, Hokkaido University School of Medicine, Japan

2010

"Functional imaging of pro- and anti-saccades in human and non-human primates", Functional Imaging Seminar Series, Imaging Interest Group, MRC Cognition and Brain Sciences Unit, Cambridge, UK

"Top-down control investigated with the anti-saccade task", Departmental Seminars Hilary Term 2010, Department of Experimental Psychology, Oxford University, UK

"Effects of PFC or ACC cooling on pro- and anti-saccades", Workshop on the Computational Properties of Prefrontal Cortex, Whistler, BC

"Principal sulcus inactivation by cortical cooling impairs response suppression in the anti-saccade task". Translational Aspects of Stopping – Workshop 2010, University of California, San Diego

2011

"Neuronal mechanisms for control of the superior colliculus by the prefrontal cortex", 4th annual meeting in Primate Neurobiology, German Primate Center, Göttingen, Germany

"Neural control of the superior colliculus by the prefrontal cortex", Department of Neuroscience, University of Pittsburgh

"Prefrontal cortex deactivation in macaques alters activity in the superior colliculus and impairs control of saccades", European Conference on Eye Movements 2011, Marseille, France

"Top-down control of the superior colliculus by the prefrontal cortex", Symposium: "Cortical and subcortical functions in complex behaviour: A symposium in honour of David Gaffan", The Queen's College, Oxford, UK

"Neural processes underlying rule-memory for saccades in the prefrontal cortex", Oxford Autumn School, Oxford McDonnell Network for Cognitive Neuroscience, Oxford, UK

2012

"Functional connectivity of the frontal eye fields in humans and monkeys investigated with resting-state fMRI." Neural Control of Movement Meeting, Venice, Italy.

"Principal sulcus deactivation impairs rule memory in nonhuman primate", Canadian Association for Neuroscience Meeting 2012, Vancouver

"Neurophysiology and neuroanatomy of reflexive and voluntary saccades", Neurophysics colloquium, University of Marburg, Germany

"Dorsolateral prefrontal cortex and saccade control", ZiF Research Group – Opening Conference: Linking selection for visual perception, memory and action, Center for Interdisciplinary Research, Bielefeld, Germany

2013

"Dorsolateral prefrontal cortex and saccade control", keynote speaker, Alpine Brain Imaging Meeting, Champéry, Switzerland (cancelled due to illness)

"In vivo mapping of the saccadic eye movement network in macaques and humans using resting-state fMRI", Neuroscience Seminar Series, Vanderbilt Univ., USA

"Dorsolateral prefrontal cortex and saccade control", Covance, Münster, Germany

"Control of the superior colliculus by the dorsolateral prefrontal cortex", Primate Neurobiology meeting, Klaus-Peter Hoffmann retirement symposium, Göttingen, Germany

"Prefrontal cortex and saccade control", Neuro-cognitive symposium, University of Bremen, Germany

"Control of the superior colliculus by the prefrontal cortex", Ernst Strüngmann Lecture, Ernst Strüngmann Institute, Max Planck, Frankfurt, Germany

"Role of macaque lateral prefrontal cortex in working memory", Mini-symposium on Working Memory and Attention, VU Amsterdam, The Netherlands

"Rule-memory for saccadic eye movement tasks in lateral prefrontal cortex", Workshop "Task-driven control of thought and action by working memory: linking mind and brain", Center for Interdisciplinary Research, Bielefeld, Germany (co-organizer of workshop)

"In vivo mapping of the saccadic eye movement network in macaques and humans using resting-state fMRI", Flux Congress 2013, University of Pittsburgh, PA, USA

"Neurotransmitter Receptor for Visual Cognition in Primates", Chair of SFN Mini-Symposium, San Diego, USA

"Monkey in the middle: Resting-state fMRI in nonhuman primates", Functional imaging series, German Primate Center, Göttingen, Germany

2014

"Resting-state fMRI in macaques", Primate Neurobiology Meeting, Tübingen, Germany

"Resting-state fMRI in nonhuman primates", MiNDS Colloquium Talk, McMaster University, Hamilton, Canada

"Resting-state fMRI in monkeys", Neuropsychiatry Seminar, Western University, London, Ontario, Canada

"Prefrontal cortex and saccade control", European Summer School on Eye Movements, Freiburg, Germany

"Ketamine impairs action monitoring in the prefrontal cortex", Workshop on the Computational Properties of Prefrontal Cortex, Whistler, BC

"Prefrontal cortex and saccade control", Otto-Creutzfeld Colloquium, Münster, Germany

2015

"Resting-state functional connectivity changes after an ischemic frontal cortex stroke in a macaque", Primate Neurobiology Meeting, Göttingen, Germany

"Resting-state fMRI in monkeys: Neural correlates and alterations following focal stroke", The University of Georgia Bioimaging Research Center Colloquium, Athens, Georgia

"Resting-state fMRI in monkeys: Neural correlates and alterations following focal stroke", National Physiological Institute, Okazaki Japan

"Macaque FEF Investigated with Resting-State fMRI", Gordon Conference Eye Movements: Integrating Perception and Action for Optimal Vision, Bentley University, Waltham, MA

ABSTRACTS

1. **Everling S**., Ott D, Holtermann P., Flohr H (1992) Scanning laser ophthalmoscopy: a new tool for studying eye movements via direct retinal stimulation and fundus monitoring. In N Elsner and DW Richter (eds.), Rhythmogenesis in neurones and networks. (p. 746). Stuttgart: Thieme.

2. **Everling S**, Flohr H (1993) Correction saccades in memory-guided saccades. In N Elsner and M Heisenberg (eds.), Gene, Brain, Behavior. (p. 860). Stuttgart: Thieme.

3. **Everling S**, Krappmann P, Flohr H (1993) Direct registration of retina movements by a specially adapted scanning laser ophthalmoscope. 7th European Conference on Eye Movements, Durham, UK.

4. **Everling S**, Krappmann,P, Flohr H (1994) Direkte Messung von Retina-Bewegungen mit einem erweiterten Scanning Laser Ophthalmoskop. In K Pawlik (ed.), 39. Kongreß der Deutschen Gesellschaft für Psychologie (p. 151). Hamburg: Universität Hamburg.

5. **Everling S**, Krappmann P, Flohr H (1994) Spatial planning of memory-guided corrective saccades in man. Eur J Neurosc 7 (Suppl): 225.

6. Krappmann P, **Everling S**, Flohr H (1994) Reaction times of initial and correction saccades to remembered targets. In N Elsner and H Breer (eds.), Sensory transduction (p. 809). Stuttgart: Thieme.

7. Krappmann P, **Everling S**, Brand A, Preuss S, Flohr H (1994) Increased saccadic distractibility in schizophrenia. Eur. J. Neurosci. 7 (Suppl): 131.

8. Krappmann P, **Everling S**, Brand A, Preuss S, Flohr H (1994) Decision making in schizophrenic patients: Difficulties in suppressing the visual grasp reflex in a delayed response task. Conference "Neurobiology of Decision-Making", Paris, France.

9. **Everling S**, Krappmann P, Brand A, Preuss S, Flohr H (1995) Eye fixation instability in schizophrenic patients. In N Elsner and R Menzel (eds.), Learning and memory (p. 876). Stuttgart: Thieme.

10. **Everling S**, Krappmann P, Brand A, Preuss S, Flohr H (1995) Defective control of interference in schizophrenic patients. 8th European Conference on Eye Movements, Derby, UK.

11. Krappmann P, **Everling S**, Flohr H (1995) Influence of visual feedback on corrective saccades. In N Elsner and R Menzel (eds.), Learning and memory (p. 877). Stuttgart: Thieme.

12. Krappmann P, **Everling S**, Flohr H (1995) Spatial memory and the accuracy of corrective saccades in man. 8th European Confererence on Eye Movements, Derby, UK.

13. Krappmann P, **Everling S**, Brand A, Preuss S, Flohr H (1995) Remembered saccades in schizophrenic patients: Evidence against deficits in storing visual-spatial information. Eur J Neurosc 8 (Suppl): 95.

14. **Everling S**, Krappmann P, Spantekow A, Flohr H (1996) Presaccadic cortical potentials in a prosaccade and an antisaccade task. In N Elsner and HI. Schnitzler (eds.), Göttingen Neurobiology Report 1996 (p. 773). Stuttgart: Thieme.

15. **Everling S**, Krappmann P, Flohr H (1996) Prämotorische Potentiale im Antisakkadentest. Posterpresentation at the Conference "Sensomotorik der Orientierung", Leipzig, Germany.

16. Krappmann P, **Everling S**, Flohr H (1996) The accuracy of visually and memory-guided antisaccades in man. In N Elsner and HI Schnitzler (eds.), Göttingen Neurobiology Report 1996 (p. 773). Stuttgart: Thieme.

17. Krappmann P, **Everling S**, Flohr H (1996) Amplituden- und Richtungsgenauigkeit von sakkadischen Augenbewegungen. Conference "Sensomotorik der Orientierung", Leipzig, Germany.

18. **Everling S**, Paré M, Dorris M C, Munoz D P (1997) Visual fixation and motor preparation signals related to saccadic reaction times in monkey. II. Paramedian pontine reticular formation. Can. J. Physiol. Pharmacol. 75: Aviii

19. **Everling S**, Dorris MC, Munoz DP (1997) Neuronal activity in monkey superior colliculus during an antisaccade task. 9th European Conference of Eye Movements, Ulm, Germany.

20. **Everling S**, Paré M, Dorris MC, Munoz DP (1997) Comparison of activity of superior colliculus fixation neurons and brainstem omnipause neurons in the gap saccade task. Soc. Neurosci. Abstr. 23: 510.7

21. Krappmann P, **Everling S**, Spannhuth C, Spantekow A, Flohr H (1997) Electrophysiologic correlates of the gap effect in human subjects: Event-related potentials in an oculomotor gap and anti-gap paradigm. Soc. Neursci. Abstr. 23: 185.3

22. Spantekow A, Krappmann P, **Everling S**, Flohr H (1997) Event-related potentials in an oculomotor gap-/overlap-task. In N Elsner and H Wässle (eds.), Goettingen Neurobiology Report 1997 (p. 1004). Stuttgart: Thieme.

23. Spantekow A, Krappmann P, **Everling S**, Flohr H (1997) Effects of warning signals on saccadic reaction times and event-related potentials. 9th European Conference of Eye Movements, Ulm, Germany.

24. **Everling S**, Dorris MC, Klein RM, Munoz DP (1998) Neural activity in monkey superior colliculus predicts performance in an antisaccade task. J. Cogn. Neuroscience (Suppl) 44

25. **Everling S**, Dorris MC, Klein RM, Munoz DP (1998) Superior colliculus neuronal activity in monkeys during pro- and anti-saccades. Soc. Neurosci. Abstr. 24: 163.1

26. Dorris MC, **Everling S**, Klein RM, Munoz DP (1998) Neural correlate of inhibition of return (IOR): Visual and motor preparatory signals in the monkey superior colliculus (SC). Soc. Neurosci. Abstr. 24: 163.2

27. Bell AH, **Everling S**, Dorris MC, Klein RM, Munoz DP (1999) Comparison of pro- and anti-saccades in non-human primates: I. Behavioral characteristics. J. Cogn. Neuroscience (Suppl.)

28. **Everling S**, Bell, AH, Dorris MC, Klein RM, Munoz DP (1999) Comparison of pro- and anti-saccades in non-human primates: II. Neural activity in the superior colliculus and frontal eye field. J. Cogn. Neuroscience (Suppl.)

29. **Everling S**, Munoz DP (1999) Role of primate frontal eye field in preparation and execution of pro-saccades and anti-saccades. 10th European Conference of Eye Movements. Utrecht, Netherlands.

30. Hampton KA, Spantekow A, **Everling S**, Munoz DP (1999) Using a combined pro- and anti-saccade task to investigate preparatory set. 10th European Conference of Eye Movements. Utrecht, Netherlands.

31. Munoz DP, Dorris MC, **Everling S**, Klein RM (1999) Neural correlates of inhibition of return (IOR) in the monkey superior colliculus. 10th European Conference of Eye Movements. Utrecht, Netherlands.

32. Bell AH, **Everling S**, Munoz DP (1999) Comparison of pro- and anti-saccades in primates. I. Behavioural characteristics. Soc. Neurosci. Abstr. 29

33. **Everling S**, Munoz DP (1999) Comparison of pro- and anti-saccades in primates. II. Activity of corticotectal neurons in the frontal eye field. Soc. Neurosci. Abstr. 29

34. Davidson MC, **Everling S**, Lablans A, Munoz DP (1999) Comparison of pro- and anti-saccades in primates. III. Reversible activation/inactivation of frontal eye field and superior colliculus. Soc. Neurosci. Abstr. 29

35. **Everling S**, Tinsley CJ, Gaffan D, Duncan J (2000) Neural activity in primate prefrontal cortex in a focused attention task. Soc. Neurosci. Abstr. 30

36. Tinsley CJ**, Everling S** (2001) Contribution of the prefrontal cortex to the gap effect. European Conference of Eye Movements, Turku, Finland August 22-25

37. **Everling S,** Tinsley CJ (2001) Neural activity in primate prefrontal cortex in a gap saccade task. Soc. Neurosci. Abstr. 31

38. Gribble PL, **Everling S** (2001) Hand-eye coordination: arm movement direction is specified prior to eye movement onset. Soc. Neurosci. Abstr. 31

39. Gribble PL, **Everling S** (2002) Examining hand-eye coordination for pro and anti movements. Neural Control of Movement, Naples, Florida April 16-21

40. Gore JL, Kobayashi Y, **Everling S**, Dorris MC, Munoz DP (2002) Comparison of oculomotor activity in the primate substantia nigra pars reticulata, frontal eye fields, and superior colliculus. Neural Control of Movement, Naples, Florida April 16-21

41. DeSouza JFX, **Everling S** (2002) Neural correlates for preparatory set associated with pro-saccades and anti-saccades in humans investigated with event-related fMRI. VisionScienceS, Sarasota, Florida, May 10-15

42. Khan SA, Ford K, **Everling S**, Timney B (2002) Effects of alcohol on antisaccades. Soc. Neurosci. Abstr. 32, 265.10 *2002 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2002. Online.

43. Brown MRG, DeSouza JFX, Ford K, Goltz HC, Goodale MA, **Everling S** (2002) Comparison of memory-guided and visually-guided saccades using event-related fMRI. Soc. Neurosci. Abstr. 32, 265.14 *2002 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2002. Online.

44. DeSouza JFX, Brimson M, **Everling S** (2002) Filtering of stimulus-related responses in a delayed match-to-object-and-location task in the macaque prefrontal cortex. Soc. Neurosci. Abstr. 32, 285.8 *2002 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2002. Online.

45. Gore JL, **Everling S,** Kobayashi Y, Dorris MC, Munoz DP (2002) Saccadic preparatory signals in the FEF, SNr and SC. Soc. Neurosci. Abstr. 32, 464.2 *2002 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2002. Online.

46. **Everling S**, Menon RS, DeSouza JFX (2002) Role of human frontal cortex during preparatory set periods prior to execution of pro-saccades and anti-saccades. Soc. Neurosci. Abstr. 32, 459.3 *2002 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2002. Online.

47. DeSouza JFX, Iversen SD, **Everling S** (2003) Neural correlates for preparatory set associated with pro-saccades and anti-saccades in primate prefrontal cortex. VisionScienceS, Sarasota, Florida, May 9-15

48. Ford KA**, Everling S** (2003) Comparison of event-related potentials assicated with the instruction and gap periods in pro- and anti-saccade trials: evidence for task specific cortical activation. Soc. Neurosci. Abstr. 33, 72.11 *2003 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2003. Online.

49. **Everling S**, Brimson M, Menon RS, DeSouza JFX (2003) Face processing in an awake monkey investigated with fMRI. Soc. Neurosci. Abstr. 33, 590.1 *2003 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2003. Online.

50. DeSouza JFX, Iversen SD, **Everling S** (2003) Preparatory set activity associated with pro-saccades and anti-saccades within the primate prefrontal cortex. Soc. Neurosci. Abstr. 33, 661.10 *2003 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2003. Online.

51. Johnston K, **Everling S** (2004) Neural activity in monkey prefrontal cortex during delayed-match-to-sample and conditional pro-saccade and anti-saccade tasks. Vision ScienceS, Sarasota, Florida

52. Ford K, Goltz HC, Brown MR, **Everling S** (2004) Anti-saccade performance predicted by event-related fMRI. Vision ScienceS, Sarasota, Florida

53. Ford KA, Goltz HC, Brown MRG, **Everling S** (2004) A distributed frontal cortical network for saccade suppression. Program No. 313.14. *2004 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2004. Online.

54. Johnston K, **Everling S** (2004) Modulation of neural activity in macaque prefrontal cortex by behavioral rules during delayed-match-to-sample and conditional pro-saccade and anti-saccade tasks. Program No. 378.8. *2004 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2004. Online.

55. DeSouza JF, **Everling S** (2004) Instruction and rule-related neural activity within the primate prefrontal cortex during antisaccade generation. Program No. 378.9. *2004 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2004. Online.

56. Brown MRG, DeSouza JFX, Goltz HC, Ford KA, Goodale MA, **Everling S** (2004) Cortical connectivity for memory- versus visually guided saccades. Program No. 991.8. *2004 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2004. Online.

57. Johnston K, **Everling S** (2005) Primate prefrontal cortex sends rule-related information to the superior colliculus. 13th European Conference on Eye Movements, Bern, Switzerland

58. Field CB, Johnston K, Babic T, Ciriello J, **Everling S** (2005) Prefrontal corticotectal projections to the rostral pole of the superior colliculus in the macaque. 13th European Conference on Eye Movements, Bern, Switzerland

59. Johnston K, **Everling S** (2005) Prefrontal corticotectal neurons carry rule-selective activity for pro-saccades and anti-saccades. European Behavioural and Brain Sciences Meeting, Dublin, Ireland

60. **Everling S**, Field CB, Johnston K, Menon RS, Gati J (2005) Neural connectivity of the superior colliculus in monkeys identified by a combination of microstimulation and fMRI. Program No. 167.4. *2005 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2005. Online

61. Babic T, de Oliveira VCR, **Everling S**, Ciriello J (2005) Distribution of Hypocretin-2 immunoreactivity in the primate hypothalamus. Program No. 305.4. *2005 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2005. Online

62. Brown MRG, Goltz HC, Vilis T, Ford KA, **Everling S** (2005) Rapid event-related fMRI of prosaccade, antisaccade, and nogo trials. Program No. 167.10. *2005 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2005. Online

63. Field CB, Johnston K, Babic T, Ciriello J, **Everling S** (2005) Cortical projections to the rostral and caudal superior colliculus in the macaque. Program No. 167.5. *2005 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2005. Online

64. Ford KA, Levin H, **Everling S** (2005) Neural circuitry underlying anti-saccade task performance in humans and monkeys investigated with fMRI. Program No. 166.10. *2005 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2005. Online

65. Johnston K, **Everling S** (2005) Prefrontal corticotectal neurons carry rule-selective activity for pro-saccades and anti-saccades. Program No. 590.1. *2005 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2005. Online

66. Koval MJ, Thomas NS, **Everling S** (2005) The effects of social attention on saccadic reaction times are task dependent. Program No 859.20. *2005 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2005. Online

67. Ford K, Ekstrom S, Gati J, Menon R, **Everling S** (2006) Neural Circuitry underlying antisaccade task performance in monkeys investigated with fMRI. Program B02. Neural Control of Movement, Key Biscayne, Florida, USA.

68. Johnston KD, Levin HE, Koval MJ, **Everling S** (2006) Neural activity in primate prefrontal cortex and anterior cingulate associated with the performance of pro- and antisaccades. Program No. 48.17. *2006 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2006. Online

69. Brown MR, Vilis T, **Everling S** (2006) Prosaccade and antisaccade instruction differences investigated with rapid event-related fMRI. Program No. 48.21. *2006 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2006. Online

70. Phillips J, Ekstrom SL, **Everling S** (2006) Effect of observed gaze on saccadic reaction times of pro- and anti-saccades in a macaque. Program No. 48.15. *2006 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2006. Online

71. Ford KA, Ekstrom S, Gati JS, Menon RS, **Everling S** (2006) Increased BOLD fMRI activation in frontal cortical areas for anti-saccades compared with pro-saccades in the macaque. Program No. 48.19. *2006 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2006. Online

72. **Everling S**, Johnston K (2006) Neural activity in primate prefrontal cortex and anterior cingulate cortex associated with the performance of pro- and anti-saccades. Psychophysiology, 43 (Suppl.). S18-S19.

73. Johnston K , **Everling S** (2007) Primate prefrontal cortex sends cue, delay, and saccade-related activity to the superior colliculus. Neural Control of Movement, Seville, Spain.

74. Phillips JM, Johnston K, **Everling S** (2007) Effect of microstimulation of macaque anterior cingulate cortex on reaction times and performance of pro- and anti-saccades after a task switch. Program No. 398.12. *2007 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2007. Online

75. Wegener S, Johnston K, **Everling S** (2007) Effects of dorsolateral prefrontal cortex microstimulation on reaction times and performance of prosaccades and antisaccades. Program No. 398.15. *2007 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2007. Online

76. Brown MRG, Vilis T, **Everling S** (2007) Saccade inhibition: rapid event-related fMRI of saccades and nogo trials. Program No. 555.2. *2007 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2007. Online

77. Johnston KD, **Everling S** (2007) Monkey dorsolateral prefrontal cortex sends task-related signals directly to the superior colliculus during a memory-guided saccade task. Program No. 555.5. *2007 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2007. Online

78. Ford KA, Johnston KD, **Everling S** (2007) Single neuron recordings in BOLD fMRI identified area of anterior cingulate cortex in the macaque show saccade related differences between anti-saccades and pro-saccades. Program No. 398.13. *2007 Abstract Viewer/Itinerary Planner.* Washington, DC: Society for Neuroscience, 2007. Online

79. Johnston K, **Everling S** (2008) Monkey prefrontal cortical pyramidal and putative interneurons exhibit differential patterns of activity between pro and antisaccade tasks. Washington, DC: Society for Neuroscience, 2008.

80. Ford KA, **Everling S** (2008) Intracranial LFP recordings in BOLD fMRI identified area of cingulate cortex in the macaque show differences between anti-saccades and pro-saccades. Washington, DC: Society for Neuroscience, 2008.

81. Koval MJ, Lomber SG, **Everling S** (2009) Anti-saccade task performance deficits during reversible deactivation of anterior cingulate cortex or lateral prefrontal cortex. Neural Control of Movement Meeting, Waikoloa, Hawaii

82. Koval MJ, Lomber SG, **Everling S** (2009) Principal sulcus inactivation impairs working memory but not response suppression in a memory-guided saccade task. Program

No.356.19. 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

83. Phillips JM, Sander V**, Everling S** (2009) Event-related potentials in nonhuman primates associated with pro- and anti-saccades. Program No.356.20. 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

84. Womelsdorf T, Johnston K, **Everling S** (2009) Theta frequency synchronization in macaque anterior cingulate cortex predicts current task-rules and the correction of task-rules upon incorrect performance. Program No.455.14. 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

85. Koval MJ, Lomber SG, **Everling S** (2009) Bilateral principal sulcus inactivation impairs maintenance of task set. Program No.851.19. 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.

86. Womelsdorf T, Johnston K, Vinck M, **Everling S** (2010) Cognitive control recruits theta activity in anterior cingulate cortex for establishing task rules. Conference Abstract: Computational and systems neuroscience 2010. Doi:10.3389/conf.fnins.2010.03.00086

87. Hutchison R, Gati JS, Leung L, Menon RS, **Everling S** (2010) Mapping the functional connectivity of the anterior cingulate cortex in the nonhuman primate. Program No. 201.01. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

88. Womelsdorf T, Janemi I, Bale ML, **Everling S** (2010). Single neurons differentially phase synchronize to beta oscillations in macaque prefrontal cortex during selective attentional control. Program No. 201.15. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

89. Bale ML, Janemi I, **Everling S**, Womelsdorf T (2010) Layer-selective attentional selection signals in macaque anterior cingulate cortex. Program No. 304.16. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

90. Janemi I, Vinck M, Bale M**, Everling S**, Womelsdorf T (2010) Selective theta synchronization conveys attentional control information in macaque anterior cingulate and ventromedial frontal cortex. Program No. 304.17. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

91. Jantz J, Watanabe M, **Everling S**, Munoz D (2010). Variable vs constant threshold for saccade initiation in gap/overlap task in the macaque frontal eye field and superior colliculus. Program No. 778.8. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

92. Koval MJ, Lomber SG, **Everling S** (2010) Modulation of neuronal activity in the primate superior colliculus during pro- and anti-saccades by reversible unilateral principal sulcus inactivation. Program No. 778.19. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

93. Phillips JM, **Everling S** (2010) Investigating the function of the subthalamic nucleus in anti-saccade task performance. Program No. 805.1. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.

94. Hutchison RM, Keung LS, Mirsattari SM, Gati JS, Menon RS, **Everling S** (2011) Functional networks in the macaque brain revealed by independent component analysis of resting-state fMRI. ISMRM.

95. Womelsdorf T, Vinck M, Kaping D, **Everling S** (2011) Expected stimulus value controls how fronto-cingulate neurons synchronize to theta or beta rhythms. Cosyne

96. Skoblenick K, Soper B, **Everling S** (2011) Effects of the NMDA antagonist ketamine on rule memory and response suppression in the anti- saccade task. Neural Control of Movement Meeting, San Juan, Puerto Rico

97. Kaping D, **Everling S**, Womelsdorf T (2011) Encoding of reward prediction errors transfers to attentional target selection in fronto-cingulate cortex. Program No. 197.14. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

98. Bale ML, Vinck M, Kaping D, Everling S, Womelsdorf T (2011) Specific contributions of ventromedial and lateral frontocingulate cortex for value-based attentional target selection. Program No. 197.23. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

99. Phillips JM, Womelsdorf T, **Everling S** (2011) Automatic versus controlled choice behavior is predicted by preparatory beta band activity of macaque fronto-central cortex. Program No. 272.01. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

100. Skoblenick JS, **Everling S** (2011) Ketamine-induced behavioural deficits and correlated changes in prefrontal cortex activity during the anti-saccade task in monkeys. Program No. 275.05. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

101. Babapoor-Farrokhran S, Hutchison R, Gati JS, Menon RS, **Everling S** (2011). Resting-state fMRI as a tool to localize putative saccade-related brain areas in nonhuman primates. Program No. 276.06. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

102. Hussein S, Lomber SG, **Everling S** (2011) Effects of dorsolateral prefrontal deactivations on task-switching between pro- and antisaccades in the macaque. Program No. 272.02. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

103. Hutchison R, Womelsdorf T, Gati J, Menon R, **Everling S** (2011) Dynamic resting-state correlations in anesthetized macaques. Program No. 406.15. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.

104. Shen K, Bezgin G, Hutchison RM, Menon RS, Gati J, McIntosh AR, **Everling S** (2012) Resting-state connectivity reflects underlying anatomical structure in the macaque cortex. Organization for Human Brain Mapping

105. Vijayraghavan S, Skoblenick K, **Everling S** (2012) Effects of Dopamine receptor manipulations on dorsolateral prefrontal circuitry involved in prepotent response inhibition and maintenance of abstract rules. Program No. 373.02. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

106. Babapoor-Farrokhran S, Johnston J, **Everling S (**2012) Putative saccade-related area in cingulate cortex identified by resting-state fMRI in macaques. Program No. 373.25. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

107. Hutchison R, Gallivan JP, Culham JC, Gati JS, Menon RS, **Everling S** (2012) Homologous functional connectivity architecture of the monkey and human saccade-related networks. Program No. 419.05. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

108. Johnston KD, Lomber S, **Everling S** (2012) Limited effects of reversible cryogenic deactivation of the prefrontal cortex on visuospatial working memory. Program No. 700.12. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

109. Kaping D, Vinck M, **Everling S**, Womelsdorf T (2012) Frequency-specific synchronization patterns of single prefrontal-cingulate cortex neurons code for location and value of attentional targets. Program No. 729.08. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

110. Ardid S, Vinck M, Kaping D, **Everling S**, Womelsdorf T (2012) Reliable synchronization preferences distinguish multiple cell types in awake macaque prefrontal cortex. Program No. 808.08. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

111. Shen K, Bezgin G, Hutchison RM, Gati JS, Menon RS, **Everling S**, McIntosh AR (2012) Anatomical connectivity supports functional community structure in macaque cortex. Program No. 902.14. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

112. Shen C, Kaping D, Ardid S, **Everling S**, Womelsdorf T (2012) Response latencies of error detecting signals dissociate anterior cingulate and prefrontal contributions for performance monitoring and outcome predictions. Program No. 913.05. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

113. Balcarras M, Ardid S, Kaping D, **Everling S**, Womelsdorf T (2012) Learning expected stimulus values in a selective attentional foraging task by nonhuman primates. Program No. 913.05. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

114. Westendorff S, Kaping D, Vinck M, **Everling S**, Womelsdorf T (2012) Switches of selective neuronal synchronization patterns segregate attentional and decision making pro-

cesses in macaque prefrontal cortex. Program No. 913.05. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

115. Womelsdorf T, Ardid S, **Everling S**, Vinck M (2012) An improved permutation test to detect significant spike-LFP phase-locking reveals frequency-specific synchronization patterns of single ACC/PFC neurons Program No. 913.05. 2012 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2012. Online

116. Shen C, Ardid S, Kaping D, Westendorff S, **Everling S**, Womelsdorf T (2013) Local cell assemblies in macaque prefrontal and anterior cingulate cortex detect and distinguish error types. 3-F-177, Canadian Association for Neuroscience Meeting, Toronto, Canada

117. Oemisch M, Westendorff S, **Everling S**, Womelsdorf T (2013) Functional connectivity of macaque prefrontal cortex cells reveals area 46 as one source of attentional control. 3-F-164, Canadian Association for Neuroscience Meeting, Toronto, Canada

118. Chan JL, Koval MJ, Womelsdorf T, Lomber SG, **Everling S** (2013) Dorsolateral prefrontal cortex deactivation and saccade-related local field potential activity in the superior colliculus. 2-D-111, Canadian Association for Neuroscience Meeting, Toronto, Canada

119. Balcarras MD, Ardid S, Kaping D, **Everling S**, Womelsdorf T (2013) Attentional selection is driven by reinforcement learning during foraging in the macaque. 2-F-167, Canadian Association for Neuroscience Meeting, Toronto, Canada

120. Shen K, Hutchison RM, Bezgin G, Gati JS, Menon RS, **Everling S**, McIntosh AR (2013) Resting-State Functional Connectivity Dynamics Are Influenced By Network Structure. 2-F-160, Canadian Association for Neuroscience Meeting, Toronto, Canada

121. Johnston K, Lomber SG, **Everling S** (2013) Unilateral deactivation of dorsolateral prefrontal cortex biases saccade target selection. European Conference on Eye Movements, Lund, Sweden

122. Chan JL, Koval MJ, Womelsdorf T, Lomber SG, Ev**erling S** (2013) Effects of prefrontal cortex deactivation on local field potential activity in the superior colliculus. Program No. 362.07. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online

123. Vijayraghavan S, **Everling S** (2013) Dopamine D2 receptor actions on prefrontal neurons engaged in processing of rule-contingent responses. Program No. 365.11. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online

124. Johnston KD, Lomber SG, **Everling S** (2013) Unilateral deactivation of dorsolateral prefrontal cortex biases saccade target selection. Program No. 365.19. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online

125. Skoblenick KJ, Womelsdorf T, **Everling S** (2013) Changes in outcome-sensitive beta and gamma band activity in the macaque prefrontal cortex accompany anti-saccade impairment following ketamine. Program No. 365.20. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online

126. Babapoor-Farrokhran S, Johnston K, Ev**erling S** (2013) Beta-band coherence between frontal eye field and anterior cingulate cortex in oculomotor tasks. Program No. 365.21. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online

127. Oemisch M, Westendorff S, **Everling S**, Womelsdorf T (2013) Functional connectivity of macaque prefrontal cortex cells reveals a modulatory and driving role for the anterior cingulate cortex in attentional control. Program No. 387.04. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online

128. Hutchison R, Hutchison M, Manning KY, Gati JS, Menon RS, **Everling S** (2013) Integration interrupted: dose-dependent isoflurane effects on functional connectivity in the nonhuman primate. Program No. 389.07. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online

129. Shen K, Hutchison R, Bezgin G, Gati JS, Menon RS**, Everling S**, McIntosh AR (2013) Network structure constrains the dynamics of the spontaneous brain activity. Program No. 425.07. 2013 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2013. Online

130. Gultepe E, Gallivan JP, Hutchison RM, **Everling S**, Johnsrude IS (2014) Supervised parcellation of resting-state fMRI data in macaque monkeys recovers cytoarchitectionic cortical regions. ProgramNo. 146.01. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

131. Belbeck B, Lomber SG, **Everling S**, Johnston K (2014) Contribution of dorsolateral prefrontal cortex to attentional and mnemonic processes in visual search. Program No. 238.01. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

132. Chan JL, Johnston K, Lomber SG, **Everling S** (2014) Bilateral anterior cingulate cortex deactivation reduces switch costs in the macaque monkey. Program No. 238.03. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

133. Babapoor-Farrokhran S, Womelsdorf T, Vinck M, Johnston K, **Everling S** (2014) Theta-band coherent activity is involved in transmission of task relevant information between frontal eye field and anterior cingulate cortex. Program No. 238.04. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

134. Hashemi N, Hutchison RM, Gati JS, Menon RS, **Everling S** (2014) Neural correlates of spontaneous BOLD fluctuations: A simultaneous LFP-fMRI investigation in the nonhuman primate. Program No. 259.05. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

135. Vijayraghavan S, Major AJ, **Everling S** (2014) A novel multi-barrelled glass coated silver-plated tungsten wire tetrode for combined extracellular recording and microiontophoresis in the primate brain. Program No. 438.01. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

136. Major AJ, Vijayraghavan S, **Everling S** (2014) Cholinergic modulation of prefrontal cortical activity subserving mnemonic representation of rule-guided behaviour. Program No. 438.02. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

137. Ma L, Skoblenick, Seamans JK, **Everling S** (2014) Ketamine-induced changes in the signal and noise of prefrontal neurons during a working memory task in monkeys. Program No. 438.03. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

138. Shen K, Misic N, Bezgin G, Buschkuel M, Deldin PJ, Hutchison R, Jaeggi SM, Kross E, Peltier S, **Everling S**, Jonides J, Berman MG, McIntosh AR (2014) Network structure supports stable functional connectivity of homotopic regions across time and conditions. Program No. 481.09. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

139. Schwiedrzik CM, Zarco W, **Everling S**, Freiwald WA (2014) Resting state networks of the macaque face patch system. Program No. 582.03. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

140. Oemisch M, Ardid S, **Everling S**, Valiante T, Womelsdorf T (2014) Burst firing synchronizes prefrontal and anterior cingulate cortex during attentional control. Program No. 841.09. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online

Dr. Stefan Everling November 2, 2015