UCLA 11/18/15

CURRICULUM VITÆ

Name: Mark S. Cohen, Ph.D.

Work Address: UCLA Semel Institute for Neuroscience and Human Behavior
Room C9-420
UCLA School of Medicine
760 Westwood Plaza
Los Angeles, CA 90095

Laboratory:
Staglin Center for Cognitive Neuroscience
Suite C7-439
UCLA Semel Institute for Neuroscience and Human Behavior
760 Westwood Plaza
Los Angeles, CA 90095

(310) 980-7453, (310) 794-6387
mscohen@g.ucla.edu

Home Address: 1338 Stanford Street
Unit A
Santa Monica, CA 90404 (310) 980-7453

Date of Birth: June 16, 1956

Place of Birth: St. Paul, MN

Home Page: http://www.brainmapping.org/MarkCohen
http://orcid.org/0000-0001-6731-4053

H-Index 49 (5/7/14)
i10-Index 92 (5/7/14)
Citations 16,496 (10/14/13)
Note: My name is very common. It is difficult to get an accurate count for these indices. The quoted numbers are underestimates. Google scholar was used for these metrics.

EDUCATION:

1985 Ph.D.	The Rockefeller University, New York, NY (Neurobiology and Behavior)
1979 A.B.	Stanford University, Stanford, CA
1974-1976	Massachusetts Institute of Technology

ACADEMIC APPOINTMENTS:

All current UCLA appointments are as Professor in Residence

2011 -	Member, California NanoSystems Institute
2009 -	Biomedical Engineering
2005 -	Director UCLA/Semel Neuroimaging Training Program
2004 -	Psychology, UCLA College of Arts and Sciences
2001 -	Psychiatry and Biobehavioral Sciences, UCLA School of Medicine
2001 -	Biomedical Physics, UCLA School of Medicine
1994 -	Neurology, UCLA School of Medicine
1994 -	Radiological Sciences, UCLA School of Medicine
2001-	Professor in Residence, UCLA School of Medicine
1993-2001	Associate Professor in Residence, UCLA School of Medicine
1992-1993	Assistant Professor, Harvard Medical School, Boston, MA
1990-1991	Instructor, Harvard Medical School, Boston, MA

HOSPITAL APPOINTMENTS:

1993-	Director of MRI Activation Imaging UCLA Division of Brain Mapping
1991-1993	Director of MR Education Massachusetts General Hospital, Boston, MA
1990-1993	Director, Hyperscan Imaging Laboratory Technical Director of Clinical MR Massachusetts General Hospital, Boston, MA

OTHER PROFESSIONAL POSITIONS:

1988-1990	Senior Applications Scientist, Advanced NMR Systems, Inc.
1985-1988	MR Applications Scientist, Siemens Medical Systems, Inc.

MEMBERSHIPS, OFFICES & COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

1994-1997	Annual Meeting Program Committee, Publications Committee, Workshop Committee, External Relations Committee, Meetings Coordination Committee, Efficacy Committee; Society of Magnetic Resonance
1994-1997	Board of Directors; Society of Magnetic Resonance
1994-1997	Chairman, Education Committee; Society of Magnetic Resonance
1993-1998	Associate Editor; Journal of Magnetic Resonance Imaging
1993-1997	Board of Directors; Society for Magnetic Resonance Imaging
1992-1997	Education Subcommittee; Society of Magnetic Resonance in Medicine
1992-1994	Efficacy Committee; Society for Magnetic Resonance Imaging
1990-1998	Editorial Board; Journal of Magnetic Resonance Imaging
1986 -	International Society of Magnetic Resonance in Medicine
1980 -	Society for Neuroscience
1979-1984	Acoustical Society of America
1979-1984	American Physics Association
1979 -	American Association for the Advancement of Science
1994 -	Organization for Human Brain Mapping
2002 -	Medical, Scientific, & Technology Advisory Board for the Institute for Magnetic Resonance Safety, Education, and Research (IMRSER)

AWARDS AND HONORS:

2007	National Aeronautics and Space Administration Invention Award
2012	Post-Doctoral Mentoring Award (UCLA)
2014	Council on Undergraduate Research. Excellence in Mentoring Undergraduate Research

MAJOR RESEARCH INTERESTS:

1. Functional MR Imaging of Brain Activity
2. High Speed Magnetic Resonance Imaging Applications & Techniques
3. Mental Imagery
4. Multi-modal imaging
5. Electroencephalography and Electrophysiology
6. Epilepsy
7. Hypnosis
8. Schizophrenia
9. Attention Control
10. Neurostimulation with Ultrasound
11. Functional Near Infrared Spectroscopic imaging
12. Sparsity and Compressive Sensing
13. Statistical Machine Learning
14. Brain Reading

FORMAL TEACHING EXPERIENCE (SELECTED):

2009-2013	Field Chair, "*Biological Signal and Information Processing*," Biomedical Engineering IDP

2009 Course Director, "*Functional Neuroimaging*" (*M285*), UCLA

2009 Course Director, "*Experimental Studies of Consciousness,"* NS215, UCLA

2007 - present Course Director, "*Principles of Neuroimaging*" (*M284A/B*), UCLA

2007 - present Course Director, "*Advanced Neuroimaging Summer School*", UCLA

2006 - present Program Director, "*Neuroimaging Training Program*" NIH-sponsored program.

2005 Course Co-Director, "*Current Debates and Recent Advances in fMRI*", International Society for Magnetic Resonance in Medicine, Miami, FL

2005 Course Director, *NeuroEngineering (M206),* UCLA

2004 Course Co-Director, *Functional Neuroimaging*, UCLA

2004 K30 Course in Brain Mapping for Translational Investigators, UCLA

2003 Course Co-Director, *Functional Neuroimaging*, UCLA

2003 Course-Co-Director, "*FSL/FreeSurfer*", UCLA and Oxford University

2003 Neuroengineering Core Course – Instructor, UCLA

2003 K30 Course in Brain Mapping for Translational Investigators, UCLA

2002 fMRI in Neurorehabiliation, - Instructor, UCLA

2001 Course Co-Director, *Functional Neuroimaging*, UCLA

2001 Course Director, *Advanced Magnetic Resonance Imaging,* UCLA

2000 Course Co-Director, "*Mental Imagery*", UCLA

1999 Course Director, *Advanced Magnetic Resonance Imaging*, UCLA

1998 Course Director, *Functional Neuroimaging*, UCLA

1998 Course Director, *Advanced Magnetic Resonance Imaging*, UCLA

1998 Course Director, *Introduction to 'C' Programming*, UCLA

1996 Course Director, *Functional Neuroimaging*, UCLA

1995 - Course Director, *Journal Club,* UCLA

1995 Lecturer, Human *Brain Mapping: The Methods*, Cold Spring Harbor Laboratory

1995 Course Director; *Advanced Magnetic Resonance Imaging*, UCLA

1995 Guest Lecturer; Psychiatry 446 "*Neuroimaging for the Neuropsychologist,*" UCLA Department of Psychiatry

1993 Course Director; *MR Pulse Sequence Design*, Society for Magnetic Resonance Imaging

1992-1993 Faculty; Speech and Hearing Sciences Graduate Program MIT and Harvard

1992-1993 Course Director; *MGH-MRI Post Graduate Course,* MGH

1991 Co-director; *Clinical MRI: 1991 Update* MGH

1990-1993 Course Director; *MRI for Poets*, MGH

1990-1993 Co-director; MR Visiting Fellowship Course, MGH

1986-1988 Guest Instructor; MR Training Course, Alton Ochsner Clinic

OTHER TEACHING EXPERIENCE:

Individual course development and training for physicians & scientists at numerous MRI sites.

Conference co-organizer, "*Machine Learning and Interpretation in Neuroimaging.*" Sierra Nevada, Spain, 2011

Organizer and Program Director of the International Conference, "*Functional Neuroimaging: Looking at the Mind*", Boston, 1992

Co-Organizer, "*Multi modal Neuroimaging"* to be held at UCLA's Institute for Pure and Applied Mathematics, Spring 2013.

THESIS COMMITTEES

UCLA

COMPLETED:

Dr. Richard Albistegui-DuBois (*chair*, neuroscience)
Dr. Ariana Anderson (*chair*, statistics)
Dr. Peter Bachman (psychology)
Dr. Jennifer Bramen (*chair*, neuroscience)
Dr. Huan Cao (chemistry)
Dr. John Colby (co-chair, neuroscience)
Dr. Pamela Douglas (*co-chair*, biomedical engineering)
Dr. Anita Dushyanth (biomedical engineering)
Dr. Chris Furmanksi (psychology)
Dr. Robin Goldman (*chair*, biomedical physics)
Dr. Samuel Harris (*chair*, neuroscience)
Dr. Wesley Kerr (*chair*, biomathematics, M.D. Ph.D. program)
Dr. Alex Korb (neuroscience)
Dr. Angela Knox (psychology)
Dr. James Kroger (psychology)
Dr. Mahsa Malekmohammadi (biomedical engineering)
Dr. Ekaterina Merkurjev (mathematics)
Dr. Doris Payer (neuroscience)
Dr. Angela Rizk-Jackson (psychology)
Dr. Matthew Schreiner (neuroscience)
Dr. Debra Strick (*chair*, biomedical engineering)
Dr. David Wozny (*co-chair*, biomedical engineering)
Dr. Naomi Santa Maria (biomedical engineering)
Dr. William Speier (biomedical engineering)
Dr. Subashini Srinivasan (biomedical engineering)
Dr. Xia Hongjing (*chair*, biomedical engineering)

University of Southern California
Dr. Edward Vessel (psychology)

IN PROCESS
Ms. Lavanya Acharya (*co-chair*, biomedical engineering)
Ms. Chaitali Biswas (bioengineering)
Mr. Konstantin Dragomiretskiy (applied mathematics)
Ms. Dianna Han (*co-chair*, UC Santa Barbara, computer science)
Mr. Austin Head (*chair*, biomedical engineering)
Mr. Mayank Jog (biomedical engineering)
Mr. Wei Li (neuroscience)
Ms. Jia Liu (electrical engineering)
Mr. Travis Meyer (applied mathematics)
Mr. Cameron Rodriguez (*chair*, biomedical engineering)
Mr. Matthew Schreiner (neuroscience)
Ms. Natalia Tchemodonav (biomedical engineering)
Ms. Leslie Claar (bioengineering)
Mr. Edgar Rios Piedra (bioengineering)

UNCOMPLETED
Mr. Tavis Allison (uncompleted)
Mr. Robert Terwilliger (uncompleted)

POST-DOCTORAL FELLOWS (UCLA)

Dr. Jianxin Wang – *Employed in computer science in private sector*
Dr. Yong Ke – *Instructor in Psychiatry, Harvard Medical School*
Dr. David Glahn – *Professor of Psychiatry, Yale University*
Dr. Ariana Anderson – *Assistant research neuroscientist, NPI*
Dr. Wilfred Gordon – *Educator, entertainer*
Dr. Agatha Lenartowicz – *Assistant research neuroscientist, NPI*
Dr. Pamela Douglas – *current trainee*

UNIVERSITY COMMITTEES

2001 – 2002	Medical Investigational Review Board
2006	Neurosciences IDP Admissions Committee
2011 – present	UCLA Council on Research (chair, 2015 – present)
2012 – present	Institute for Digital Research and Education (IDRE) Executive Committee
2015 – present	University of California University Committee on Research Policy

***SELECTED* INVITED PRESENTATIONS:**

1988 Grand Rounds, Dept. of Radiology, Washington University School of Medicine, "*Methods of Fast MR Imaging*" St. Louis, MO

1989 Grand Rounds, Department of Radiology, "*Rapid MR Imaging: Techniques and Performance Characteristics*", University of San Francisco. San Francisco, CA

1990 Society for Magnetic Resonance Imaging, Plenary Lecture, "*Ultra-fast Imaging*", Philadelphia, PA

1990 BioElectroMagnetic Society 13th Annual Conference. Invited Lecture: "*Peripheral Nerve Stimulation by Time-Varying Magnetic Fields*" San Antonio, TX

1991 Magnetic Resonance Imaging: A short course trio. "*High-speed and Real-time Imaging*" and "*MR Imaging of Perfusion and Diffusion*" Philadelphia, PA

1991 New York Academy of Sciences Conference: Biological Effects and Safety Aspects of Nuclear Magnetic Resonance Imaging and Spectroscopy, invited lecture: "*Evidence of Peripheral Nerve Stimulation by Time-Varying Magnetic Fields.*" Bethesda, MD

1991 International Symposium of Magnetic Resonance Imaging in Medicine. "*Approaches to High-speed MR Imaging & Applications of High-speed and Instant Imaging",* National Yang-Ming Medical College, Taipei, Taiwan

1992 American Epilepsy Society "*Functional Magnetic Resonance Imaging of the Human Brain*" Seattle, WA

1992 Advanced Clinical Magnetic Resonance Imaging, "*Ultrafast Imaging – Principles"* and *"Echoplanar Imaging – Clinical Experienc*e", Kona, HI.

1993 American College of NeuroPsychopharmacology, "*Practical Aspects In the Design of Mind Reading Instruments,* Honolulu, HI

1994 National Institutes of Health: NIMH Special Lecture: "*Principles and Applications of Functional MRI*", Bethesda, MD

1994 Grand Rounds, Dept. of Radiology, Washington University School of Medicine, "*Principles and Applications of functional MRI*" St. Louis, MO

1994 Grand Rounds, Dept. of Neurology, "*Functional MRI: A new method for interrogating brain function.*" University of Texas, Houston, TX

1994 American Academy of Neurology, "*Functional MRI and Advanced MR Techniques*" Boston, MA

1994 Nottingham Symposium on Magnetic Resonance in Medicine, "*Advances in the Study of Brain Function Through Rapid Magnetic Resonance Imaging"*, Nottingham, UK

1994 Advances in Brain Tumor Management, "*Brain Mapping – MRI*", Las Vegas, NV

1995 21st International Epilepsy Congress, "*Observing Brain Activity with Functional Magnetic Resonance Imaging: Techniques and Results*" Sydney, Australia,

1995 Neuroimaging and the Cognitive Neuroscience of Schizophrenia, "*Where the Voices Come From: fMRI of Schizophrenic Hallucinations*", Carmel, CA

1996 American Academy of Neurology, "*Rapid MRI & Functional Applications*" San Francisco, CA

1997 20th annual meeting of Japan Society for CNS Computed Imaging "*Practical Aspects in fMRI*", Kyoto, Japan

1997 Hyogo Neuroimaging Conference "*Mental Rotation Studied by fMRI*", Kobe, Japan

1997 Special University Lecture "*Practical Aspects in fMRI*", Tsukuba, Japan

1997 Grand Rounds, Radiology, Tokyo University, "*Advances in High Field MR Imaging*" Tokyo, Japan

1997 Special Lecture, Ika-Shika University, "*Where the voices come from: Imaging of Schizophrenic Auditory Hallucinations*" Tokyo, Japan

1997 Society of Cerebral Blood Flow and Metabolism, "*fMRI Issues and Answers*"

1998 Society for the Social Studies of Science, "*Image and Logic – Perspectives of an Imager*", Halifax, Nova Scotia, Canada

1999 Mental Illness Research Education and Clinical Center Scientific Retreat, "*Functional MRI: What does it Offer? What are its Limitations?*" San Diego, CA

2000 Neurology/Radiology Grand Rounds, "*The Autocerebroscope – an update*" Vancouver, CA

2000 Special seminar, "*Analysis Methods in fMRI*". UCSD

2000 First Shanghai International Workshop on Functional Neurosurgery and Imaging. "Functional MRI: *Tools for Epilepsy; Mental Imagery*" Shanghai, China

2001 Special seminar. "*Technical Considerations In the Design of Mind Reading Instruments*". UC Irvine

2001 Plenary Lecture. "*Practical Aspects In the Design of Mind Reading Instruments.*" American Society for Neuroradiology. Boston, MA

2002 International Seminar on EEG dipole tracing and fMRI, "*Simultaneous Imaging for Tomographic Electrophysiology.*" Tokyo, Japan.

2002 Neurorehabilitation, "*Functional MRI in Assessment of Motor Function*" Honolulu, HI

2002 Office of National Drug Control Policy Demand Reduction Symposium,. "*Integrated Functional Imaging and Neurophysiology: Applications to Drug Abuse Research"* Boston, MA

2002 Special Lecture "*Combining Electrophysiology and Imaging"* Stanford University

2002 Radiology Grand Rounds "*Combining EEG and functional MRI: Why and How*" New York University Medical School. New York, NY

2003 International Society for Magnetic Resonance in Medicine. "*Neuronal anatomy and Electrical Activity*", Toronto, Canada

2003 Brain Research and Development, International Seminar on EEG dipole tracing and fMRI. "*Advances in combined EEG and fMRI*", Tokyo, Japan.

2003 National Institute on Neurological Disorders and Stroke, "*fMRI and EEG"*, Bethesda, MD

2003 Art and the Brain "*Seeing (and) the brain"* Los Angeles, CA

2003 Cuban Neuroscience Center, "*Simultaneous Imaging for Tomographic Electrophysiology: Implementation and Applications*", Havana, Cuba

2003 Organization for Human Brain Mapping Satellite Symposium on EEG-Correlated fMRI, "*Simultaneous imaging for tomographic electrophysiology: Efficient tools of acquisition and analysis*", New York, NY

2004 Brain Mapping for Translational Investigators. "*Fundamentals of functional MRI.*" Los

Angeles, CA

2005 Calculating Images: Representation by Algorithm in Science and Art. "*Seeing (and) the Brain*" Santa Barbara, CA

2005 Southern Epilepsy & EEG Society and Western Clinical Neurophysiology Society Joint Annual Meeting. "*fMRI-EEG: Is this the next pandora's box?*" Scottsdale AZ

2005 International Society for Magnetic Resonance in Medicine, "*Neural Signaling and fMRI Signal Detection.*" Miami, FL

2005 Congresso Brasileiro de Neuroimagem Funcional. "*Recent advances in combined EEG-fMRI*" Riberão Preto, Brazil.

2005 Magnetom World Congress "*Advances in Neuroimaging at High Field*", Singapore

2005 Rochester Center for Brain Imaging, "*Emerging Technologies in functional Neuroimaging*", Rochester, NY

2005 EEG and Biofeedback, UCLA, "*On the Origin of Oscillatory Electrical Signals in the Brain,"* Los Angeles, CA

2005 UC San Diego, "*Integrative Methods in Functional Neuroimaging: fMRI, EEG and … ?*," San Diego, CA

2005 International Society for Magnetic Resonance in Medicine, "*Current Debates and Recent Advances in fMRI.*" Miami, FL

2006 Hong Kong Polytechnic University, Inauguration Year Lecture, "*Multiscalar Neuroimaging: Higher Resolution in Space and Time*" Hong Kong

2006 Princeton University, "*Multiscalar Neuroimaging: Higher resolution in space and time*", Princeton, NJ

2006 International Society for Magnetic Resonance in Medicine, "*Real-time Neuro MRI*", Seattle, WA

2006 University of South Carolina, "*Studying Human Brain Activity at Multiple Scales of Space and Time*," Columbia, SC

2006 University of South Carolina, "*fMRI: Testing the Spatiotemporal Limits*," Columbia, SC

2006 University of Texas San Antonio, "*Pushing the Limits of Space and Time in Functional Imaging*", San Antonio, TX

2006 Department of Biomathematics Seminar Series, "*fMRI: Testing the Spatiotemporal Limits",* UCLA, Los Angeles, CA

2006 FSL Training Program, "*MRI Basics*," Siena, Italy

2007 Brown University "*Multi-scalar Probes of Human Brain Function*", Providence, RI

2007 Brown University "*Multi-scalar Neuroimaging*", Providence, RI

2007 University of South Carolina, "*Images at the Nanoscale,*" Columbia, SC

2007 Universitätsklinikum Schleswig-Holstein, "*Physical background of fMRI: echo-planar imaging (EPI) techniques and other technical issues*," Kiel, Germany.

2008 National Academy of Sciences, American Institute for Medical and Biomedical Engineers, "*The Uses of Portable Ultra-Low Field MR Imaging Devices*," Washington, DC

2008 Institute for Pure and Applied Mathematics, "*Simultaneous EEG and fMRI Acquisition – Algorithmic Analysis,*" UC Los Angeles, CA

2008 Organization for Human Brain Mapping, "*Combining EEG and fMRI*," Melbourne, Australia

2009 FSL Training Program, "*Physical Basis of MRI and fMRI*," Brisbane, Australia

2009 Organization for Human Brain Mapping Satellite Symposium no EEG Methods and Practice, "*EEG and fMRI: A Look Forward*," San Francisco, CA
2009 Organization for Human Brain Mapping, "*The Technologies of Multi-modal Imaging*" San Francisco, CA
2009 Asilomar conference on Signals, Systems and Computers, *Electricity and Magnetism Two views of the brain in action*
2009 Society for Psychophysiological Research, "*Approaches to the Joint Analysis of EEG and fMRI Data: Methods and Early Results*", Berlin, Germany
2010 Organization for Human Brain Mapping. "*EEG-fMRI: Principles & Ideas*." Barcelona, Spain
2010 Yom Limmud Special Lectures. "*The Brain, the Mind, and the Structure of its Beliefs*." Leo Baeck Temple, Los Angeles
2010 Cedars Sinai Medical Center Grand Rounds, "*Decoding Brain Signals using Combined EEG and fMRI*", Los Angeles, CA
2011 UCLA Neurology Grand Rounds, "*Manganese-induced Parkinsonism: Toxicological findings and public health*." Los Angeles, CA
2012 Leveraging Sparsity: Compressive Sensing Workshop. "*Large, High-dimensional data sets in functional neuroimaging*" Los Angeles, CA.
2012 Social and Affective Neuroscience, "*Classifying for Discovering*: *Multimodal Data and Optimal Bases*." Beijing, China (presented also at Max Planck, Leipzig, and Technische Universität, Berlin
2012 Max Planck Institute, "*Classifying for Discovering*: *Multimodal Data and Optimal Bases*." Leipzig, Germany
2012 Technische Universität Machine Learning Program. "*Classifying for Discovering*: *Multimodal Data and Optimal Bases*.
2012 Brain Storming Turing: Celebrating the Alan Turing Centennial + 25 years of AI & Society, "*This does not (just) compute.*" Los Angeles, CA. (Video)
2012 Berlin Brain Computer Interface: *"Informative Brain-Mind Feature Spaces"* Berlin, Germany
2013 Center for Biological Imaging at Stanford Symposium. "*A unified theory of images?*" Keynote presentation.
2013 California NanoSystems Institute. "*A unified theory of images: what we see is what we know.*"
2013 American Society for Neuroradiology (ASNR), "*Pattern Analysis in the Diagnosis of Epilepsy*" (with WT Kerr). San Diego, CA.
2014 Harvard University/MGH. "*fMRI + EEG + Pattern Classification.*" Charlestown, MA.
2014 NSF UC Riverside IGERT on Video Bioinformatics. "*Towards a New Science of Images.*" Lake Arrowhead, CA
2014 International Conference on Analytical Science and Technology. "*Multimodal Imaging in Neuroscience.*" Korea Basic Science Institute, Daejeon, Korea; and Ochang Headquarters, Ochang, Korea
2014 Plenary Grand Rounds. "*Multimodal Imaging in Neuroscience.*" Asan Medical Center, Seoul, Korea; and Korea University, Seoul, Korea
2014 Art+Brain. Stories and Structures Symposium. "*What We See is What We Know*". UCLA Broad Art Center, Los Angeles
2014 Cuban Neuroscience Center. "*Features, Dimensions, Neurons.*" Havana, Cuba

2015 1st Latin American Brain Mapping Network Meeting. "*Joint acquisition & analysis of imaging & electrophysiology.*" Hospital das Clínicas, São Paulo, Brazil

2015 Columbia University. "*More from less: Sparsity in Data and the Mind*." New York, NY

2015 University of Mississippi. "*Scientific Images: Depictions/Diagrams/Data*." Jackson, MS

REVIEWER FOR:

National Institutes of Health and National Science Foundation Study Sections… 1994-present
UC Discovery Grant Study Sections.....*2008, 2009*

Academic Radiology | *Archives of General Psychiatry* | *Brain*
Brain and Cognition | *Brain Stimulation* | *Cerebral Cortex*
Clinical Neurophysiology | *J. Cognitive, Affective and Behavioral Neuroscience*
Eur Journal of Neuroscience | *Human Brain Mapping*
IEEE Transactions in Medical Imaging | *J. Neuroscience Methods*
J. Magnetic Resonance Imaging | *Magnetic Resonance in Medicine*
Medical Physics | *Nature Neuroscience*
Neural Information Processing Systems | *Neurology* | *Neuron*
Neuroscience Letters | *NeuroReport* | *Psychiatry Research*
Science

ADVISORY BOARDS:

Institute for Magnetic Resonance Safety, Education and Research
Stanford University Center for Advanced Magnetic Resonance Technology
General Electric Medical Systems High Field MRI
UC San Diego HIV Neurobehavioral Research Center
UCSD CNS HIV Antiretroviral Therapy Effects Research Center

FORMAL MRI CONSULTING ACTIVITIES (partial)**:**

General Electric Medical Systems..... 1994-2000
Resonance Technology Corporation.....1993-present
Alfred E. Mann Foundation.....2000
University of Oregon 2000
Varian Instruments..... 2000-2002
Medical Imaging of Santa Monica.....2002-present
University of Wisconsin 2003-2004
Gamma Medica.....2004
O'Melveny and Myers (legal).....2004

ACTIVE

As PI:

5T90DA022768 (Cohen) 09/1/2006 - 08/31/2016 .24 calendar
NIH $1,850,400 (total direct)
Comprehensive training in Neuroimaging Fundamentals and Applications.
The major goal of this study is to provide two years of training to graduate students in the fundamentals and applications of neuroimaging. Students in the NITP complete a year of graduate training in the Neurosciences, including fundamentals of Neuroanatomy, Systems Neuroscience, Neurophysiology and/or Cognitive Neuroscience, followed by a second year of graduate training which entails an intensive program in the tools of neuroimaging, including acquisition, data processing, analysis and experimental design.

As Co-Investigator

R01 MH095878 Green (PI) 07/01/2011 – 06/31/2016 .76 calendar
NIMH $538,059 (FY 2012)
Visual Tuning and Performance in Schizophrenia and Bipolar Disorder
The proposed study will recruit 90 SZ patients, 90 BD patients and 90 healthy controls that will be group matched on key demographic variables. The subjects will participate in perceptual performance, electrophysiological (EEG), cognition, and functional magnetic resonance imaging (fMRI) procedures to address the following three aims: 1) To examine visual neural tuning in SZ using specialized EEG and fMRI methods; 2) To examine visual neural tuning cross-diagnostically among SZ, BD, and healthy controls with specialized EEG and fMRI methods; and 3) To examine the implications of visual tuning deficits in SZ, BD, and healthy controls for perceptual and higher-level cognitive domains.

Un-numbered 01/2016 – 12/31/2018 1.2 Calender
Tiny Blue Dot Foundation $3,963,870 (total for three years)
Measuring Consciousness: from theory to practice
This is an unusual award from a private donor to fund collaborative work aimed at making instrumental measurements of consciousness. The team members are leading thinkers in the field: Christoph Koch, Giulio Tononi, Darin Dougherty, Mark George, Martin Monti, and Dr. Cohen. The aims of the first three years of funding are to test and apply Integrated Information Theory to the development of devices that measure the complexity of evoked neural signals as proxy measures of "Φ", interpretable as degree of consciousness. The project is exceedingly ambitious, with a fifteen year plan to improve and validate these measures, and to apply them to pressing areas of research, that include both clinical and basic applications in understanding human cognition.

2P50 HD055784:06 (Bookheimer) 07/1/2007-06/31/2017 1.2 calendar
NICHD $2,065,152 (FY 2012)
ACE Autism Center of Excellence
The major goal of this Center is determining the bases, consequences, and mutability of social communication deficits in autism.

1R43MH099709 UCLA subcontract
NIMH (Simpson, Subcontract to Mark Cohen) Subcontract total: $164,408

Validation of a novel neurophysiological assessment tool for ADHD
The aims of this work are to: (1) Validity testing of an EEG-based (Neurophysiological Attention Test) NAT as an objective assessment instrument of neurophysiological processes of attentional control in ADHD and (2) Optimize the NAT EEG measures for differentiation of individuals with ADHD from control. The UCLA team, led by Mark Cohen, will recruit and screen all subjects in the project and acquire all the behavioral and EEG data. In addition, Drs. Cohen and Lenartowicz will contribute substantially to the creation of optimal metrics for analyzing the data and will guide the research team at Think Now in the use and interpretation of those metrics applied to the analyses of the data.

WM Keck Foundation (Co-PIs: Weiss P, Bertozzi A, Cohen M, Osher S) $1,000,000
Leveraging Sparsity
Our goal is to leverage mathematical advances to transform the way imaging and related data are acquired, analyzed, and understood. The result will be richer, more meaningful, data through significant changes in how experiments are currently conducted and, in so doing, advancing the science of imaging. We propose critical tests of the advantages of sparsification using two diverse sets of experiments, in which leading mathematicians work closely with top imaging scientists. If these test cases are successful, the advances will apply broadly across many fields involving imaging. We are placed uniquely to develop the theory, to carry out the tests, to generalize the results, and to disseminate the tools we create.

1R43MH099709 UCLA subcontract
NIMH (Simpson, Subcontract to Mark Cohen) Subcontract total: $225,000 (*approx*.)
Validation of a novel neurophysiological assessment tool for ADHD
Disorders of attention and attention control are hallmark features of important psychiatric disorders including schizophrenia, the attention deficit disorders, bipolar disorder and many others. We have developed an innovative means of assessment of measuring attention that uses a combination of conventional and electrophysiological data to provide quantitative metrics of long and short term changes in attention. In this project we will develop and deploy a Sustained Attentional Control (SAC) training tool, distributed as a mobile application. We will assess the efficacy of this training in improving the subject's ability to focus attention.

PENDING RESEARCH SUPPORT (in review)
1 R01 EB022917-01 (Cohen) 07/01/2016 – 06/30/2019 2 calendar
NIH $750,000 (total direct)
We propose here to expand our already successful Complexity Toolbox with new modules to support the analysis of electrophysiological recordings, wavelet-based multiscale entropy, and other metrics of signal complexity, and apply these tools to a large existing data set of EEG recordings. We will study the relationship of these measurements made from EEG and functional MRI recordings to understand better how the signals from these important modalities relate to each other, and how the signal complexity describes important features of the measurements. Finally, we are interested in the hypothesis that particular measures of signal complexity differ between normal individuals and persons with epilepsy, and will study the possibility of improving our ability to diagnose epilepsy from EEG and fMRI recordings. We believe that the methods we create have direct impact on bridging our knowledge from neural microcircuits to our well-developed tools in whole brain neuroimaging.

COMPLETED RESEARCH SUPPORT (as PI)

5 R33 DA026109-3 (Cohen) 09/01/2008 – 08/31/2013 3 calendar
NIH/NIDA $1,592,816 (total direct)
Real-Time Automated Detection of Craving States with fMRI and EEG
The goal of this project is to develop, characterize and validate a method of real-time detection of cognitive states relevant to the study of drug abuse using concurrent electrophysiological recordings, first to enhance the state discriminations and, later, to serve potentially as a proxy for the neuroimaging brain-state data.

1R21MH096239 01A1 (Cohen) 06/11/2012 – 05/31/2014 0.6 calendar
NIH/NIMH $423,500 (total direct)
Understanding attention-control across functional systems and temporal scales
By concurrent recording of instantaneous electrical activity (EEG) and slower fluctuations in regional metabolism during a variety of attentionally demanding tasks with multimodal distractors, this project will help to improve our understanding of the interactions between brain mechanisms that allows us to ignore distractions and to sustain attention for extended periods.

Korean Basic Science Institute 03/01/09-12/31/2010 In no cost extension
KBSI
Neuroimaging Studies of Hypnotically Induced Deception
Evaluate the validity of functional MRI (fMRI) as a method for the detection of deception, and compare it to the gold standard of polygraphy. Better understand the extent to which false memories may be created that are indistinguishable from true memories. Attempt to detect physiological changes that might differentiate false from true Memories. Study brain changes that occur under hypnosis, especially when the subjects are under hypnosis.
Role: Co-PI

R01DA013054 Cohen 8/20/1999 – 1/31/2004
NIH/NIDA
Real Time Imaging of Mental Activity
For the development and characterization of a novel software tool set for the immediate analysis of functional MRI and other medical images. It will take advantage of novel approaches to computation that enable both multi-platform interoperability and rapid execution.

1 R01-EY12722-01A1 (Cohen) 05/15/2000 - 04/30/2004
NIH/NEI
MRI of Inverted Vision: Plasticity of Visuospatial Maps
This research was designed to assess the plastic changes in cortex that we hypothesize occur in the face of grossly distorted visual input from inverting goggles. Functional MRI is used to derive retinotopic, spatiotopic and auditory maps following semi-chronic exposure to the inverting device.

1R21-DA13627-01 (Cohen) 06/25/2002 - 05/31/2004
NIH
Enabling Technologies in fMRI and Cigarette Smoking
This project centers on the design of a system for the controlled delivery of cigarette smoke to subjects during functional Magnetic Resonance Imaging, and the characterization of the drug delivery and the responses of the human brain to cigarette smoke. We will look at both global and local signal changes from the smoke *per se*, and at local changes in BOLD responses to external stimuli as a function of the cigarette exposure.

1R21-DA15549-01 (Cohen) 06/01/2002-05/31/2004
NIH
Simultaneous Electrophysiology and Functional MRI
This project proposes the development of methods to record extracellualr potentials during functional MRI in order to understand better the coupling between BOLD signals and cellular activity.

OTHER COMPLETED SUPPORT (*Partial*)

1R01MH084955 (Altshuler) 7/1/09 – 6/30/14 .6 calendar
NIMH $630,630 (total direct)
Mapping Brain Structure to Function in Euthymic Subjects with Bipolar Disorder.
Goal: To compare brain functional deficits in persons with bipolar disorder (observed during the performance of neuropsychological tasks during functional MRI) to gray and white matter volume data obtained from structural MRI.

8R21RR026238-01 (Hahn, Cal Inst. of Technology) 9/15/2010 – 6/30/2013 Effort as needed
NIBIB $200,475 (FY2012)
A New Ultra-low field in-vivo EPR technology for biomedical applications
Using superconducting quantum interference detection in a low magnetic field we are performing electron spin resonance imaging experiments at energy levels compatible with in-vivo human imaging, a technique heretofore impossible. EPR has the advantage of superior chemical resolution and sensitivity. *This award is in no-cost time extension*.

5R01HD061504-02 (Asarnow) 4/9/10 – 3/31/15
NICHD $690,175 (FY 2012) Effort as needed
Reconnection of Neural Networks and Cognitive Recovery After Pediatric TBI
The study will explore the structure and function of brain systems that are particularly vulnerable to white matter disruptions caused by traumatic brain injury. By explicating mechanisms that underlie naturally-occurring white matter injury and repair, the proposed project will identify potential new targets for interventions designed to accelerate the process of neurocognitive recovery.

1 P50 MH077248-01 (McCracken) 9/01/2005-8/30/2011 1.57 calendar
NIMH $1,233,777
CIDAR: Translational Research to Enhance Cognitive Control (TRECC)
The major goal of this CIDAR is to conduct translational research to examine brain circuit and pharmacology involved in attention deficit/hyperactivity disorder (ADHD) and chronic tic disorder (CTD).

P50 HD055784:01 (Geschwind, D.; Sigman, M.) 07/1/2007-06/31/2012 1.2 calendar
ACE Autism Center of Excellence $1,497,970
The major goal of this Center is determining the bases, consequences, and mutability of social communication deficits in autism.

1T90DA22768 (Cohen) 09/1/2006 - 08/31/2011 .24 calendar
NIH $1,461,579
Comprehensive training in Neuroimaging Fundamentals and Applications
The major goal of this study is to provide two years of training to graduate students in the fundamentals and applications of neuroimaging. Students in the NITP complete a year of graduate training in the Neurosciences, including fundamentals of Neuroanatomy, Systems Neuroscience, Neurophysiology and/or Cognitive Neuroscience, followed by a second year of graduate training which entails an intensive program in the tools of neuroimaging, including acquisition, data processing, analysis and experimental design.

P01 HD35470 Sigman (PI) 09/23/2002 - 05/31/2007
NIH
Determinants of Social Communication Skills in Autism
To determine the neural networks underlying social communication skills in autistic children using functional MRI.
Role: Co-Investigator

R01 DA15179 London (PI) 07/01/2003 – 06/30/2006
NIH-NIDA
Early methamphetamine Abstinence: fMRI and Cognition
The major goal of this project is to use functional magnetic resonance imaging (fMRI) to delineate the abnormalities in the brain circuits of methamphetamine abusers that underlie the cognitive deficits that they exhibit.
Role: Investigator

R01 AG13308 Small (PI) 9/1/2000-8/31/2005
NIH/NIA
Functional MRI for Early Diagnosis of Alzheimer's Disease
Correlating changes in the pattern of fMRI activation with neuropsychological measures of cognitive an memory decline in a population of older individuals who are genetically at risk for Alzheimer's Disease, based on the presence of the APOE4 allele.

R01 DA14093 London (PI) 7/1/01 – 6/30/04
NIH/NIDA
Nicotine Withdrawal, Smoking and Cognition: an fMRI Study
We used functional imaging by MRI to understand the changes in attention and working memory that have been detected in smokers as a function of abstinence and satiety. This grant, rewarded originally to Mark Cohen, has been transferred to Dr. Edythe London, as PI

5 R01 EY11862 Engel (PI) 09/30/1999 – 09/29/2005
NIH/NEI
Color Processing in Human Cortex
This project uses functional MRI to identify populations of neurons in cortex that support color vision. Neural responses will be measured for stimuli that reveal stages in the perception of color. These responses will be compared to behavioral measures, help in to clarify the stages of cortical processing that result in color perception.

5R01DA015059 Brody (PI) 10/01/2002-09/30/2006
NIH/NIDA
Treatments for Nicotine Dependence: Brain Mechanisms
Using as interventions, bupropion HCI, practical group counseling, or placebo, this study seeks to determine changes in regional cerebral metabolic activation during presentation of cigarette-related cues from pre- to post-treatment, to determine changes in cue-induced cigarette craving from pre- to post- treatment, to determine changes in regional metabolism in the neural state from pre- to post-treatment and to determine pre- treatment regional brain metabolic predictors of response treatment

R01 EY408313-08 Demer (PI)
NIH/NEI
"*Biomechanical Analysis in Strabismus Surgery*"
This research aims to understand the functional and neuroanatomical aspects of a newly developed biomechanical model of the extraocular musculature and its associated connective tissue though a combination of high resolution anatomical analysis, histopathologic study, direct magnetic resonance imaging of the orbital muscles including dynamic analysis of perfusion properties and biomechanical modeling and the incorporation of these into a computational model suitable for clinical use in surgical planning.

P01-AG024831-01 Small (PI) 9/01/05- 05/31/10
NIH/NIA
Amyloid Plaque and Tangle Imaging in Aging and Dementia
This program project grant is designed to determine whether FDDNP plaque and tangle PET imaging (1) correlates with the expected accumulation of neuropathological changes associated with aging and dementia; (2) predicts future decline in people at risk for dementia and in patients with dementia; and (3) augments other informative imaging, neuropsychological, and genetic risk measures in diagnosis and differential diagnosis of normal aging and dementia.

1R01DA021754-01A1 Monterosso (PI) 9/1/07 - 6/30/09
NIH/NIDA
Neural recruitment during self-control of smoking: An fMRI paradigm
Recent studies have used functional magnetic resonance imaging (fMRI) to identify neural substrates of reward, which include striatal, midbrain, and mesial forebrain regions. We use fMRI to examine a basic property of reward well studied in the behavioral sciences – the devaluation of anticipated rewards proportional to their delay. This property ("temporal discounting") is central to addiction, where recovery taxes the capacity to delay gratification.

1P20 RR020750 Bilder, Robert (PI) 09/28/2004-7/31/2007
NIH/NCRR
Cognitive Phenotyping for Neuropsychiatric Therapeutics
The exploratory Center for Cognitive Phenomics (CCP) aims to accelerate identification and efficient measurement of cognitive phenotypes across syndromes and across species to advance interdisciplinary research on neuropsychiatric therapeutics.
Role: Investigator

R01 MH65079 Cannon, Tyrone (PI) 12/01/2002 – 11/30/2007
NIH/NIMH
Working Memory and Social Functioning in Schizophrenia
Uses fMRI to evaluate neural systems involved in working memory and their relation to the development of schizophrenia in adolescents at risk and to functional outcome in a parallel group of first-episode schizophrenic patient.

P50 MH066286 Cannon, Tyrone (PI) 07/01/2003 – 06/30/2008
NIH/NIMH
Encoding and Retrieval Processes in Long-Term Memory
As one project in a multi-project Center grant, uses fMRI to evaluate neural systems involved in episodic memory in longitudinal studies of prodromal adolescents and first-episodes schizophrenia patients to isolate deterioration in these systems and their relation to social deterioration in the prodromal and early phase of schizophrenia.
ROLE: Investigator (Nuechterlein, Center PI)

"*VISN22 Mental Illness Research Education and Clinical Center*"
Veterans Administration
PI: Stephen Marder
The MIRECC is dedicated to improving the long-term functional outcome of individuals with psychotic disorders through innovative research, clinical care and educational programs. The center consists of a Neuroimaging core, a Data core, a Neuroscience unit, a Treatment unit, a Health Services unit and an Education unit.

R01 NS33310 Jerome Engel (PI) 07/01/2000 – 06/30/2004
NIH/NINDS
In Vivo Studies of the Epileptic Hippocampus"
Capitalizing on results from models of epilepsy in lab animals, this project will characterize the fast-ripple (FR) discharges in the human hippocampus and their association with sites of seizure initiation. The project uses high-resolution MR imaging of the affected structures to precisely indicate electrode locations and to investigate local structural abnormalities. Importantly, this program is linked tightly to Dr. Cohen's current investigations into the combined measurement of electrical and functional MRI signals.

PATENTS

1. **MS Cohen**, "*Method and apparatus for reducing contamination of an electrical signal*." USPTO. *Assigned to* The Regents of the University of California (Oakland, CA, US) . 10/344776, 7286871. 10/23/2007.
2. D Strick Rivera, JW Judy, **MS Cohen** and DJ Mills, "*Magnetic Resonance Microcoil and Method of Use*." USPTO. *Assigned to* Regents of the University of California. 61/233,337, 61/233,349, 13/390,035.
3. I Hahn, PK Day, KI Penanen, BH Eom and **MS Cohen**, "*Low Field Paramagnetic Resonance Imaging with SQUID Detection*." USPTO. *Assigned to* California Institute of Technology, Regents of the University of California. 12/359,576, 8179135.

PATENTS in Process

1. AA Anderson, **MS Cohen** "*Reducing Clinical Trial Costs by Detecting and Measuring the Placebo Effect Using Brain Imaging*." Provisional Application filed April 15, 2012.
2. C Rodriguez, **MS Cohen**, "*Fully automated localization of electroencephalography (EEG) electrodes*."

RESEARCH PAPERS – PEER REVIEWED

1. **MS Cohen** and RH Britt, "*Effects of sodium pentobarbital, ketamine, halothane, and chloralose on brainstem auditory evoked responses.*" Anesthesia and Analgesia, **61**(4): p. 338-343. 1982. PMCID:
2. K Ezure, **MS Cohen** and VJ Wilson, "*Response of cat semicircular canal afferents to sinusoidal polarizing currents: implications for input-output properties of second-order neurons.*" Journal of Neurophysiology, **49**(3): p. 639-648. 1983. PMCID:
3. **MS Cohen** and DW Pfaff, "*On-line data acquisition system using an Apple computer: ISI and PST histograms.*" Brain Research Bulletin, **13**(1): p. 205-223. 1984. PMCID:
4. **MS Cohen**, S Schwartz-Giblin and DW Pfaff, "*The pudendal nerve-evoked response in axial muscle.*" Experimental Brain Research, **61**(1): p. 175-185. 1985. PMCID:
5. **MS Cohen**, S Schwartz-Giblin and DW Pfaff, "*Brainstem reticular stimulation facilitates back muscle motoneuronal responses to pudendal nerve input.*" Brain Research, **405**(1): p. 155-158. 1987. PMCID:

6. **MS Cohen**, S Schwartz-Giblin and DW Pfaff, "*Effects of total and partial spinal transections on the pudendal nerve-evoked response in rat lumbar axial muscle.*" Brain Research, **401**(1): p. 103-112. 1987. PMCID:

7. EC Unger, **MS Cohen**, RA Gatenby, MR Clair, TR Brown, SJ Nelson and JS McGlone, "*Single breath-holding scans of the abdomen using FISP and FLASH at 1.5 T.*" J Comput Assist Tomogr, **12**(4): p. 575-583. 1988. PMCID:

8. E Unger, A Darkazanli and **MS Cohen**, "*Fast MR scanning reduces artifacts in the abdomen.*" Diagnostic Imaging, **11**(11): p. 248-256. 1989. PMCID:

9. EC Unger, **MS Cohen** and TR Brown, "*Gradient-echo imaging of hemorrhage at 1.5 Tesla.*" Magnetic Resonance Imaging, **7**(2): p. 163-172. 1989. PMCID:

10. JW Belliveau, BR Rosen, HL Kantor, RR Rzedzian, DN Kennedy, RC McKinstry, JM Vevea, **MS Cohen**, IL Pykett and TJ Brady, "*Functional cerebral imaging by susceptibility-contrast NMR.*" Magnetic Resonance in Medicine, **14**(3): p. 538-546. 1990. PMCID:

11. **MS Cohen**, RM Weisskoff, RR Rzedzian and HL Kantor, "*Sensory stimulation by time-varying magnetic fields.*" Magnetic Resonance in Medicine, **14**(2): p. 409-414. 1990. PMCID:

12. JW Belliveau, **MS Cohen**, RM Weisskoff, BR Buchbinder and BR Rosen, "*Functional studies of the human brain using high-speed magnetic resonance imaging.*" Journal of Neuroimaging, **1**(1): p. 36-41. 1991. PMCID:

13. JW Belliveau, DN Kennedy, Jr., RC McKinstry, BR Buchbinder, RM Weisskoff, **MS Cohen**, JM Vevea, TJ Brady and BR Rosen, "*Functional mapping of the human visual cortex by magnetic resonance imaging.*" Science, **254**(5032): p. 716-719. 1991. PMCID:

14. AR Bleier, FA Jolesz, **MS Cohen**, RM Weisskoff, JJ Dalcanton, N Higuchi, DA Feinberg, BR Rosen, RC McKinstry and SG Hushek, "*Real-time magnetic resonance imaging of laser heat deposition in tissue.*" Magnetic Resonance in Medicine, **21**(1): p. 132-137. 1991. PMCID:

15. TJ Brady, **MS Cohen**, RM Weisskoff and BR Rosen, "*Equipment requirements to facilitate contrast-enhanced MR imaging.*" Magnetic Resonance in Medicine, **22**(2): p. 273-279; discussion 280-271. 1991. PMCID:

16. **MS Cohen** and RM Weisskoff, "*Ultra-fast imaging.*" Magnetic Resonance Imaging, **9**(1): p. 1-37. 1991. PMCID:

17. B Rosen, J Belliveau, B Buchbinder, K Kwong, L Porkka, R Fisel, R Weisskoff, M Neuder, H Aronen, **MS Cohen**, A Hopkins and T Brady, "*Contrast agents and cerebral hemodynamics.*" Magnetic Resonance in Medicine, **19**: p. 285-292. 1991. PMCID:

18. BR Rosen, JW Belliveau, HJ Aronen, D Kennedy, BR Buchbinder, A Fischman, M Gruber, J Glas, RM Weisskoff, **MS Cohen** and et al., "*Susceptibility contrast imaging of cerebral blood volume: human experience.*" Magnetic Resonance in Medicine, **22**(2): p. 293-299; discussion 300-293. 1991. PMCID:

19. JW Belliveau, KK Kwong, DN Kennedy, JR Baker, CE Stern, R Benson, DA Chesler, RM Weisskoff, **MS Cohen**, RB Tootell, PT Fox and TJ Brady, "*Magnetic resonance imaging mapping of brain function. Human visual cortex.*" Investigative Radiology, **27 Suppl 2**: p. S59-S65. 1992. PMCID:

20. **MS Cohen**, "*Functional Magnetic Resonance Imaging of the Human Brain.*" Epilepsia, **33**(supple 3): p. 2. 1992. PMCID:

21. **MS Cohen**, BR Rosen and TJ Brady, "*Ultrafast MRI permits expanded clinical role.*" MR: p. 26-37. 1992. PMCID:

22. AP Crawley, **MS Cohen**, EK Yucel, B Poncelet and TJ Brady, "*Single-shot magnetic resonance imaging: applications to angiography.*" Cardiovascular and Interventional Radiology, **15**(1): p. 32-42. 1992. PMCID:

23. PF Hahn, S Saini, **MS Cohen**, M Goldberg, P Reimer and PR Mueller, "*An aqueous gastrointestinal contrast agent for use in echo-planar MR imaging.*" Magnetic Resonance in Medicine, **25**(2): p. 380-383. 1992. PMCID:

24. KK Kwong, JW Belliveau, DA Chesler, IE Goldberg, RM Weisskoff, BP Poncelet, DN Kennedy, BE Hoppel, **MS Cohen** and R Turner, "*Dynamic magnetic resonance imaging of human brain activity during primary sensory stimulation.*" Proceedings of the National Academy of Science U S A, **89**(12): p. 5675-5679. 1992. PMCID: 1608978

25. BP Poncelet, VJ Wedeen, RM Weisskoff and **MS Cohen**, "*Brain parenchyma motion: measurement with cine echo planar MR imaging.*" Radiology, **185**(3): p. 645-651. 1992. PMCID:

26. BP Poncelet, VJ Wedeen, RM Weisskoff, **MS Cohen**, G Holmvang, TJ Brady and HL Kantor, "*Quantification of the LAD coronary flow with magnetic resonance echo-planar imaging.*" Circulation, **86**(4): p. 476-476. 1992. PMCID:

27. P Reimer, KK Kwong, R Weisskoff, **MS Cohen**, TJ Brady and R Weissleder, "*Dynamic signal intensity changes in liver with superparamagnetic MR contrast agents.*" Journal of Magnetic Resonance Imaging, **2**(2): p. 177-181. 1992. PMCID:

28. P Reimer, S Saini, PF Hahn, PR Mueller, TJ Brady and **MS Cohen**, "*Techniques for high-resolution echo-planar MR imaging of the pancreas.*" Radiology, **182**(1): p. 175-179. 1992. PMCID:

29. HJ Aronen, **MS Cohen**, JW Belliveau, JA Fordham and BR Rosen, "*Ultrafast imaging of brain tumors.*" Topics in Magnetic Resonance Imaging, **5**(1): p. 14-24. 1993. PMCID:

30. **MS Cohen**, "*Echo Planar Magnetic Resonance Angiography.*" Magn Reson Imaging Clin N Am, **1**(2): p. 359-365. 1993. PMCID:

31. **MS Cohen** and J Fordham, "*Developments In Magnetic Resonance Imaging.*" Investigative Radiology, **28 Suppl 4**(S4): p. S32-S37. 1993. PMCID:

32. M Goldberg, P Hahn, S Saini, **MS Cohen**, P Reimer, T Brady and P Mueller, "*Value of T1 and T2 relaxation times from echoplanar MR imaging in the characterization of focal hepatic lesions.*" AJR Am J Roentgenol, **160**: p. 1011-1017. 1993. PMCID:

33. MA Goldberg, EK Yucel, S Saini, PF Hahn, JA Kaufman and **MS Cohen**, "*MR angiography of the portal and hepatic venous systems: preliminary experience with echoplanar imaging.*" AJR Am J Roentgenol, **160**(1): p. 35-40. 1993. PMCID:

34. P Reimer, S Saini, PF Hahn, **MS Cohen** and TJ Brady, "*[The clinical use of echoplanar MR tomography in the detection of focal liver lesions. The results of a quantitative study].*" Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr, **159**(1): p. 16-21. 1993. PMCID:

35. RM Weisskoff, **MS Cohen** and RR Rzedzian, "*Nonaxial whole-body instant imaging.*" Magnetic Resonance in Medicine, **29**(6): p. 796-803. 1993. PMCID:

36. **MS Cohen** and SY Bookheimer, "*Localization of brain function using magnetic resonance imaging.*" Trends in Neuroscience, **17**(7): p. 268-277. 1994. PMCID:

37. P Reimer, S Saini, PF Hahn, TJ Brady and **MS Cohen**, "*Clinical application of abdominal echoplanar imaging (EPI): optimization using a retrofitted EPI system.*" J Comput Assist Tomogr, **18**(5): p. 673-679. 1994. PMCID:

38. P Reimer, S Saini, KK Kwong, **MS Cohen**, R Weissleder and TJ Brady, "*Dynamic gadolinium-enhanced echo-planar MR imaging of the liver: effect of pulse sequence and dose on enhancement.*" Journal of Magnetic Resonance Imaging, **4**(3): p. 331-335. 1994. PMCID:

39. S Saini, P Reimer, PF Hahn and **MS Cohen**, "*Echoplanar MR imaging of the liver in patients with focal hepatic lesions: quantitative analysis of images made with various pulse sequences.*" AJR Am J Roentgenol, **163**(6): p. 1389-1393. 1994. PMCID:

40. DG Disler, **MS Cohen**, DE Krebs, SH Roy and DI Rosenthal, "*Dynamic Evaluation of Exercising Leg Muscle in Healthy Subjects with Echo Planar MR Imaging: Work Rate and Total Work Determine Rate of T2 Change.*" Journal of Magnetic Resonance Imaging, **5**(5): p. 588-593. 1995. PMCID:

41. F Huang-Hellinger, HC Breiter, G McCormack, **MS Cohen**, KK Kwong, J Sutton, RL Savoy, RM Weisskoff, TL Davis, J Baker, JW Belliveau and BR Rosen, "*Simultaneous Functional Magnetic Resonance Imaging and Electrophysiological Recording.*" Human Brain Mapping, **3**: p. 13-23. 1995. PMCID:

42. HC Breiter, SL Rauch, KK Kwong, JR Baker, RM Weisskoff, DN Kennedy, AD Kendrick, TL Davis, A Jiang, **MS Cohen**, CE Stern, JW Belliveau, L Baer, RL O'Sullivan, CR Savage, MA Jenike and BR Rosen, "*Functional magnetic resonance imaging of symptom provocation in obsessive-compulsive disorder.*" Archives of General Psychiatry, **53**(7): p. 595-606. 1996. PMCID:

43. **MS Cohen**, "*Functional MRI: A Phrenology for the 1990's?*" Journal of Magnetic Resonance Imaging, **6**: p. 273-274. 1996. PMCID:

44. **MS Cohen**, SM Kosslyn, HC Breiter, GJ DiGirolamo, WL Thompson, SY Bookheimer, JW Belliveau and BR Rosen, "*Changes in Cortical Activity During Mental Rotation: A mapping study using functional magnetic resonance imaging.*" Brain, **119**: p. 89-100. 1996. PMCID:

45. MS Mega, LQ Xu, TJ Karaca, LL Altshuler, BA Payne, **MS Cohen**, GW Small, JL Cummings and AW Toga, "*Standardization of MRI volumetric studies: Hippocampal atrophy predates clinical symptoms in individuals at risk for Alzheimer's disease.*" Neurology, **46**(2): p. 1063-1063. 1996. PMCID:

46. **MS Cohen**, "*Parametric analysis of fMRI data using linear systems methods.*" NeuroImage, **6**(2): p. 93-103. 1997. PMCID:

47. **MS Cohen**, "*Quantitative Assessment of Perfusion by Magnetic Resonance.*" Neurology Network Commentary, **1**(5): p. 315-319. 1997. PMCID:

48. **MS Cohen** and D Baird, "*Why Trade?: How zones of trade support epistemic stability.*" Perspectives on Science, **7**(2): p. 231-254. 1999. PMCID:

49. **MS Cohen** and RM DuBois, "*Stability, repeatability, and the expression of signal magnitude in functional magnetic resonance imaging.*" Journal of Magnetic Resonance Imaging, **10**(1): p. 33-40. 1999. PMCID:

50. SY Bookheimer, MH Strojwas, **MS Cohen**, AM Saunders, MA Pericak-Vance, JC Mazziotta and GW Small, "*Patterns of brain activation in people at risk for Alzheimer's disease.*" New England Journal of Medicine, **343**(7): p. 450-456. 2000. PMCID:

51. **MS Cohen**, RM DuBois and MM Zeineh, "*Rapid and effective correction of RF inhomogeneity for high field magnetic resonance imaging.*" Hum Brain Mapping, **10**(4): p. 204-211. 2000. PMCID:

52. RM DuBois and **MS Cohen**, "*Spatiotopic organization in human superior colliculus observed with fMRI.*" NeuroImage, **12**(1): p. 63-70. 2000. PMCID:

53. WD Gaillard, SY Bookheimer and **MS Cohen**, "*The use of fMRI in neocortical epilepsy.*" Advances in Neurology, **84**: p. 391-404. 2000. PMCID:

54. R Goldman, J Stern, J Engel and **MS Cohen**, "*Acquiring Simultaneous EEG and Functional MRI.*" Clinical Neurophysiology, **111**(11): p. 1974-1980. 2000. PMCID:

55. JB Arnold, JS Liow, KA Schaper, JJ Stern, JG Sled, DW Shattuck, AJ Worth, **MS Cohen**, RM Leahy, JC Mazziotta and DA Rottenberg, "*Qualitative and quantitative evaluation of six algorithms for correcting intensity nonuniformity effects.*" NeuroImage, **13**(5): p. 931-943. 2001. PMCID:

56. **MS Cohen**, "*Practical Aspects in the Design of Mind Reading Instruments.*" American Journal of Neuroradiology. 2001. PMCID:

57. **MS Cohen**, "*A data compression method for image time series.*" Hum Brain Mapp, **12**(1): p. 20-24. 2001. PMCID:

58. **MS Cohen**, "*Real-time functional magnetic resonance imaging.*" Methods, **25**(2): p. 201-220. 2001. PMCID:

59. SY Oh, V Poukens, **MS Cohen** and JL Demer, "*Structure-function correlation of laminar vascularity in human rectus extraocular muscles.*" Invest Ophthalmol Vis Sci, **42**(1): p. 17-22. 2001. PMCID:

60. DC Glahn, J Kim, **MS Cohen**, VP Poutanen, S Therman, S Bava, TG Van Erp, M Manninen, M Huttunen, J Lonnqvist, CG Standertskjold-Nordenstam and TD Cannon, "*Maintenance and manipulation in spatial working memory: dissociations in the prefrontal cortex.*" NeuroImage, **17**(1): p. 201-213. 2002. PMCID:

61. RI Goldman, JM Stern, J Engel, Jr. and **MS Cohen**, "*Simultaneous EEG and fMRI of the alpha rhythm.*" Neuroreport, **13**(18): p. 2487-2492. 2002. PMCID:

62. JK Kroger, FW Sabb, CL Fales, SY Bookheimer, **MS Cohen** and KJ Holyoak, "*Recruitment of anterior dorsolateral prefrontal cortex in human reasoning: a parametric study of relational complexity.*" Cerebral Cortex, **12**(5): p. 477-485. 2002. PMCID:

63. NL Sicotte, RR Voskuhl, S Bouvier, R Klutch, **MS Cohen** and JC Mazziotta, "*Comparison of multiple sclerosis lesions at 1.5 and 3.0 Tesla.*" Investigative Radiology, **38**(7): p. 423-427. 2003. PMCID:

64. EA Vessel, I Biederman and **MS Cohen**, "*How opiate activity may determine spontaneous visual selection.*" Journal of Vision, **3**(9): p. 6-6. 2003. PMCID:

65. E Martinez-Montes, PA Valdes-Sosa, F Miwakeichi, RI Goldman and **MS Cohen**, "*Concurrent EEG/fMRI analysis by multiway Partial Least Squares.*" NeuroImage, **22**(3): p. 1023-1034. 2004. PMCID:

66. L Altshuler, S Bookheimer, MA Proenza, J Townsend, F Sabb, A Firestine, G Bartzokis, J Mintz, J Mazziotta and **MS Cohen**, "*Increased amygdala activation during mania: a functional magnetic resonance imaging study.*" American Journal of Psychiatry, **162**(6): p. 1211-1213. 2005. PMCID:

67. LL Altshuler, SY Bookheimer, J Townsend, MA Proenza, N Eisenberger, F Sabb, J Mintz and **MS Cohen**, "*Blunted Activation in Orbitofrontal Cortex During Mania: A Functional Magnetic Resonance Imaging Study.*" Biological Psychiatry, **58**(10): p. 763-769. 2005. PMCID: 16310510

68. R Bhidayasiri, JM Bronstein, S Sinha, SE Krahl, S Ahn, EJ Benhke, **MS Cohen**, R Frysinger and FG Shellock, "*Bilateral Neurostimulation Systems Used for Deep Brain Stimulation: In vitro Study of MRI-Related Heating at 1.5 Tesla and Implications for Clinical Imaging of the Brain.*" Magnetic Resonance Imaging, **23**(4): p. 549-555. 2005. PMCID:

69. TD Cannon, DC Glahn, J Kim, TG Van Erp, K Karlsgodt, **MS Cohen**, KH Nuechterlein, S Bava and D Shirinyan, "*Dorsolateral prefrontal cortex activity during maintenance and manipulation of information in working memory in patients with schizophrenia.*" Archives of General Psychiatry, **62**(10): p. 1071-1080. 2005. PMCID: 16203952

70. MF Green, D Glahn, SA Engel, KH Nuechterlein, F Sabb, M Strojwas and **MS Cohen**, "*Regional brain activity associated with visual backward masking.*" J Cogn Neurosci, **17**(1): p. 13-23. 2005. PMCID:

71. KH Karlsgodt, D Shirinyan, TG van Erp, **MS Cohen** and TD Cannon, "*Hippocampal activations during encoding and retrieval in a verbal working memory paradigm.*" NeuroImage, **25**(4): p. 1224-1231. 2005. PMCID: 15850740

72. J Xu, A Mendrek, **MS Cohen**, J Monterosso, P Rodriguez, SL Simon, A Brody, M Jarvik, CP Domier, R Olmstead, M Ernst and ED London, "*Brain activity in cigarette smokers performing a working memory task: effect of smoking abstinence.*" Biological Psychiatry, **58**(2): p. 143-150. 2005. PMCID:

73. R Bhidayasiri, JM Bronstein, **MS Cohen** and FG Shellock, "*Response to letter to the editor.*" Magnetic Resonance Imaging, **24**(5): p. 679-680. 2006. PMCID:

74. A Mendrek, J Monterosso, SL Simon, M Jarvik, A Brody, R Olmstead, CP Domier, **MS Cohen**, M Ernst and ED London, "*Working memory in cigarette smokers: comparison to non-smokers and effects of abstinence.*" Addict Behav, **31**(5): p. 833-844. 2006. PMCID:

75. J Xu, A Mendrek, **MS Cohen**, J Monterosso, S Simon, AL Brody, M Jarvik, P Rodriguez, M Ernst and ED London, "*Effects of acute smoking on brain activity vary with abstinence in smokers performing the N-Back Task: A preliminary study.*" Psychiatry Research, **148**(2-3): p. 103-109. 2006. PMCID:

76. AL Brody, MA Mandelkern, RE Olmstead, J Jou, E Tiongson, V Allen, D Scheibal, ED London, JR Monterosso, ST Tiffany, A Korb, JJ Gan and **MS Cohen**, "*Neural substrates of resisting craving during cigarette cue exposure.*" Biological Psychiatry, **62**(6): p. 642-651. 2007. PMCID: 1992815

77. KH Karlsgodt, DC Glahn, TG van Erp, S Therman, M Huttunen, M Manninen, J Kaprio, **MS Cohen**, J Lonnqvist and TD Cannon, "*The relationship between performance and fMRI signal during working memory in patients with schizophrenia, unaffected co-twins, and control subjects.*" Schizophrenia Research, **89**(1-3): p. 191-197. 2007. PMCID: 17029749

78. J Xu, A Mendrek, **MS Cohen**, J Monterosso, S Simon, M Jarvik, R Olmstead, AL Brody, M Ernst and ED London, "*Effect of cigarette smoking on prefrontal cortical function in nondeprived smokers performing the Stroop Task.*" Neuropsychopharmacology, **32**(6): p. 1421-1428. 2007. PMCID:

79. M Akhtari, A Bragin, **MS Cohen**, R Moats, F Brenker, MD Lynch, HV Vinters and J Engel, Jr., "*Functionalized magnetonanoparticles for MRI diagnosis and localization in epilepsy.*" Epilepsia, **49**(8): p. 1419-1430. 2008. PMCID: 2685186

80. L Altshuler, S Bookheimer, J Townsend, MA Proenza, F Sabb, J Mintz and **MS Cohen**, "*Regional brain changes in bipolar I depression: a functional magnetic resonance imaging study.*" Bipolar Disord, **10**(6): p. 708-717. 2008. PMCID: 3260079

81. S Harris, SA Sheth and **MS Cohen**, "*Functional neuroimaging of belief, disbelief, and uncertainty.*" Annals of Neurology, **63**(2): p. 141-147. 2008. PMCID:

82. DS Strick, RL Nunnally, JC Smith, W Clark, DJ Mills, **MS Cohen** and JW Judy, "*Towards a microcoil for intracranial and intraductal MR microscopy.*" Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference, **2008**: p. 2047-2050. 2008. PMCID: 3196548

83. JK Wynn, MF Green, S Engel, A Korb, J Lee, D Glahn, KH Nuechterlein and **MS Cohen**, "*Increased extent of object-selective cortex in schizophrenia.*" Psychiatry Research, **164**(2): p. 97-105. 2008. PMCID: 2683746

84. MF Green, J Lee, **MS Cohen**, SA Engel, AS Korb, KH Nuechterlein, JK Wynn and DC Glahn, "*Functional neuroanatomy of visual masking deficits in schizophrenia.*" Archives of General Psychiatry, **66**(12): p. 1295-1303. 2009. PMCID: 2907419

85. S Harris, JT Kaplan, A Curiel, SY Bookheimer, M Iacoboni and **MS Cohen**, "*The neural correlates of religious and nonreligious belief.*" PLoS One, **4**(10): p. e0007272. 2009. PMCID:

86. A Anderson, ID Dinov, JE Sherin, J Quintana, AL Yuille and **MS Cohen**, "*Classification of spatially unaligned fMRI scans.*" NeuroImage, **49**(3): p. 2509-2519. 2010. PMCID: 2846648

87. PK Douglas, **MS Cohen** and JJ DiStefano III, "*Chronic exposure to Mn Inhalation may have lasting effects: A physiologically-based toxicokinetic model in rat.*" Toxicological & Environmental Chemistry, **92**(2): p. 279-299. 2010. PMCID:

88. J Lee, **MS Cohen**, SA Engel, D Glahn, KH Nuechterlein, JK Wynn and MF Green, "*Regional brain activity during early visual perception in unaffected siblings of schizophrenia patients.*" Biological Psychiatry, **68**(1): p. 78-85. 2010. PMCID: 2921272

89. A Anderson, J Bramen, PK Douglas, A Lenartowicz, A Cho, C Culbertson, AL Brody, AL Yuille and **MS Cohen**, "*Large Sample Group Independent Component Analysis of Functional Magnetic Resonance Imaging Using Anatomical Atlas-Based Reduction and Bootstrapped Clustering.*" Int J Imaging Syst Technol, **21**(2): p. 223-231. 2011. PMCID: 3204794

90. A Anderson, JS Labus, EP Vianna, EA Mayer and **MS Cohen**, "*Common component classification: what can we learn from machine learning?*" NeuroImage, **56**(2): p. 517-524. 2011. PMCID: 2966513

91. A Bystritsky, AS Korb, PK Douglas, **MS Cohen**, WP Melega, AP Mulgaonkar, A Desalles, BK Min and SS Yoo, "*A review of low-intensity focused ultrasound pulsation.*" Brain stimulation, **4**(3): p. 125-136. 2011. PMCID: 21777872

92. CS Culbertson, J Bramen, **MS Cohen**, ED London, RE Olmstead, JJ Gan, MR Costello, S Shulenberger, MA Mandelkern and AL Brody, "*Effect of bupropion treatment on brain activation induced by cigarette-related cues in smokers.*" Archives of General Psychiatry, **68**(5): p. 505-515. 2011. PMCID: 21199957

93. PK Douglas, S Harris, A Yuille and **MS Cohen**, "*Performance comparison of machine learning algorithms and number of independent components used in fMRI decoding of belief vs. disbelief.*" NeuroImage, **56**(2): p. 544-553. 2011. PMCID: 3099263

94. PK Douglas, K Kelson, A Shaikh, J Brown and **MS Cohen**, "*Manganese Induced Parkinsonism: Cellular, Systems, and Clinical Aspects Considered.*" Critical Reviews in Toxicology. 2011. PMCID:

95. PO Harvey, J Lee, **MS Cohen**, SA Engel, DC Glahn, KH Nuechterlein, JK Wynn and MF Green, "*Altered dynamic coupling of lateral occipital complex during visual perception in schizophrenia.*" NeuroImage, **55**(3): p. 1219-1226. 2011. PMCID: 3049854

96. A Anderson and **MS Cohen**, "*Identifying Unique Features in Latent Generative Models: Medicinally-Induced fMRI Networks in Buproprion Trials.*" NIPS. 2012. PMCID:

97. **MS Cohen**, "*Bad advice, not young scientists, should hit the road.*" Science, **335**(6070): p. 794. 2012. PMCID:

98. **MS Cohen** and F Schmitt, "*Echo planar imaging before and after fMRI: A personal history.*" NeuroImage. 2012. PMCID:

99. JB Colby, JD Rudie, JA Brown, PK Douglas, **MS Cohen** and Z Shehzad, "*Insights into multimodal imaging classification of ADHD.*" Frontiers in Neuroscience. 2012. PMCID:

100. D Han, A Anderson, M Turk and **MS Cohen**, "*HMM-based Temporal Pattern Modeling of Brain States in Smoke Rehabilitation using fMRI.*" Neural Information Processing Systems (NIPS): p. 139. 2012. PMCID:

101. WT Kerr, A Anderson, EP Lau, AY Cho, H Xia, J Bramen, PK Douglas, ES Braun, JM Stern and **MS Cohen**, "*Automated diagnosis of epilepsy using EEG power spectrum.*" Epilepsia, **53**(11): p. e189-192. 2012. PMCID: 3447367

102. WT Kerr, A Anderson, H Xia, ES Braun, EP Lau, AY Cho and **MS Cohen**, "*Parameter Selection in Mutual Information-Based Feature Selection in Automated Diagnosis of Multiple Epilepsies Using Scalp EEG.*" Int Workshop Pattern Recognit Neuroimaging: p. 45-48. 2012. PMCID: 4169072

103. DS Rivera, **MS Cohen**, WG Clark, AC Chu, RL Nunnally, J Smith, D Mills and JW Judy, "*An Implantable RF Solenoid for Magnetic Resonance Microscopy and Microspectroscopy.*" Ieee Transactions on Biomedical Engineering, **59**(8): p. 2118-2125. 2012. PMCID:

104. JD Townsend, SY Bookheimer, LC Foland-Ross, TD Moody, NI Eisenberger, JS Fischer, **MS Cohen**, CA Sugar and LL Altshuler, "*Deficits in inferior frontal cortex activation in euthymic bipolar disorder patients during a response inhibition task.*" Bipolar Disord, **14**(4): p. 442-450. 2012. PMCID: 22631623

105. A Anderson and **MS Cohen**, "*Decreased small-world functional network connectivity and clustering across resting state networks in schizophrenia: an fMRI classification tutorial.*" Front Hum Neurosci, **7**: p. 520. 2013. PMCID: 3759000

106. A Anderson and **MS Cohen**, "*Reducing clinical trial costs by detecting and measuring the placebo effect and treatment effect using brain imaging.*" Stud Health Technol Inform, **184**: p. 6-12. 2013. PMCID: 4157941

107. AA Anderson and **MS Cohen**, "*Reducing clinical trial costs by detecting and measuring the placebo effect and treatment effects using brain imaging.*" NextMed/MMVR20, **183**. 2013. PMCID:

108. PK Douglas, E Lau, A Anderson, A Head, W Kerr, M Wollner, D Moyer, W Li, M Durnhofer, J Bramen and **MS Cohen**, "*Single trial decoding of belief decision making from EEG and fMRI data using independent components features.*" Front Hum Neurosci, **7**: p. 392. 2013. PMCID: 3728485

109. W Kerr, A Anderson, H XIA, E Braun, E Lau, A Cho and **MS Cohen**, "*Parameter selection in Mutual Information-Based Feature Selection in Automated Diagnosis of Multiple Epilepsies using Scalp EEG.*" PRNI. 2013. PMCID:

110. WT Kerr, AY Cho, A Anderson, PK Douglas, EP Lau, ES Hwang, KR Raman, A Trefler, **MS Cohen**, ST Nguyen, NM Reddy and DH Silverman, "*Balancing Clinical and Pathologic Relevence in the Machine Learning Diagnosis of Epilepsy.*" Int Workshop Pattern Recognit Neuroimaging, **2013**: p. 86-89. 2013. PMCID: 4188528

111. WT Kerr, ST Nguyen, AY Cho, EP Lau, DH Silverman, PK Douglas, NM Reddy, A Anderson, J Bramen, N Salamon, JM Stern and **MS Cohen**, "*Computer-Aided Diagnosis and Localization of Lateralized Temporal Lobe Epilepsy Using Interictal FDG-PET.*" Front Neurol, **4**: p. 31. 2013. PMCID: 3615243

112. AS Korb, FG Shellock, **MS Cohen** and A Bystritsky, "*Low-Intensity Focused Ultrasound Pulsation Device Used During Magnetic Resonance Imaging: Evaluation of Magnetic Resonance Imaging-Related Heating at 3 Tesla/128 MHz.*" Neuromodulation. 2013. PMCID:

113. A Lenartowicz, GV Simpson and **MS Cohen**, "*Perspective: causes and functional significance of temporal variations in attention control.*" Front Hum Neurosci, **7**: p. 381. 2013. PMCID: 3719045

114. H Xia, D Ruan and **MS Cohen**, "*BCG Artifact Removal for Reconstructing Full-scalp EEG inside the MR Scanner.*" Pattern Recognition in NeuroImaging. IEEE. 2013. PMCID:

115. PK Douglas, EP Lau, J Gilles, I Rodriguez-Pinto, M Malekmohammadi, S Torrisi, A Anderson, N Pouratian and **MS Cohen**, "*Modeling of Local Field Potential Oscillations in the Basal Ganglia Predicts That Direct Circuit Dominates in Parkinsonism.*" 2013 (under review). PMCID:

116. A Anderson, PK Douglas, WT Kerr, VS Haynes, AL Yuille, J Xie, YN Wu, JA Brown and **MS Cohen**, "*Non-negative matrix factorization of multimodal MRI, fMRI and phenotypic data reveals differential changes in default mode subnetworks in ADHD.*" NeuroImage, **102 Pt 1**: p. 207-219. 2014. PMCID: 4063903

117. PK Douglas, M Pisani, R Reid, A Head, E Lau, E Mirakhor, J Bramen, B Gordon, A Anderson, WT Kerr, C Cheong and **MS Cohen**, "*Method for simultaneous fMRI/EEG data collection during a focused attention suggestion for differential thermal sensation.*" J Vis Exp, (83): p. e3298. 2014. PMCID: 4063545

118. WT Kerr, PK Douglas, A Anderson and **MS Cohen**, "*The utility of data-driven feature selection: re: Chu et al. 2012.*" NeuroImage, **84**: p. 1107-1110. 2014. PMCID: 4251655

119. WT Kerr, ES Hwang, KR Raman, SE Barritt, AB Patel, JM Le, JM Hori, EC Davis, CT Braesch, EA Janio, EP Lau, AY Cho, A Anderson, DH Silverman, N Salamon, J Engel, Jr., JM Stern and **MS Cohen**, "*Multimodal diagnosis of epilepsy using conditional dependence and multiple imputation.*" Int Workshop Pattern Recognit Neuroimaging: p. 1-4. 2014. PMCID: 4188529

120. J Lee, **MS Cohen**, SA Engel, D Glahn, KH Nuechterlein, JK Wynn and MF Green, "*Neural substrates of visual masking by object substitution in schizophrenia.*" Hum Brain Mapp, **35**(9): p. 4654-4662. 2014. PMCID:

121. A Lenartowicz, GV Simpson, CM Haber and **MS Cohen**, "*Neurophysiological Signals of Ignoring and Attending Are Separable and Related to Performance during Sustained Intersensory Attention.*" J Cogn Neurosci. 2014. PMCID:

122. RC Reid, JE Bramen, A Anderson and **MS Cohen**, "*Mindfulness, emotional dysregulation, impulsivity, and stress proneness among hypersexual patients.*" J Clin Psychol, **70**(4): p. 313-321. 2014. PMCID:

123. H Xia, D Ruan and **MS Cohen**, "*Separation and reconstruction of BCG and EEG signals during continuous EEG and fMRI recordings.*" Front Neurosci, **8**: p. 163. 2014. PMCID: 4067090

124. H Xia, D Ruan and **MS Cohen**, "*Removing ballistocardiogram (BCG) artifact from full-scalp EEG acquired inside the MR scanner with Orthogonal Matching Pursuit (OMP).*" Front Neurosci, **8**: p. 218. 2014. PMCID: 4114198

125. **MS Cohen**, SA Hillyard, JR Galler, HJ Neville, MM Rasenick, AJ Reeves and JD Van Horn, "*Opinion: Advancing neuroscience interactions with Cuba.*" Proceedings of the National Academy of Science U S A. 2015. PMCID:

CHAPTERS & BOOKS

1. B Rosen, J Belliveau, D Chien, **MS Cohen** and R Weisskoff, "*MR Perfusion Imaging*," in *Special Course: MRI 1990*. Radiological Society of North America: Oak Brook, IL. p. 69-84. 1990

2. S Saini and **MS Cohen**, "*Ultrafast Liver Imaging*," in *Liver Imaging: New Techniques*, J Ferrucci, Editor. Andover Medical: Andover. 1990

3. **MS Cohen**, "*Rapid MR Imaging: techniques and performance characteristics*," in *Radiology*, J Taveras and J Ferrucci, Editors. Lippincott: New York. 1992

4. **MS Cohen**, "*Echo planar flow imaging*," in *Magnetic Resonance Angiography*, Potchen, Editor. Mosby: Philadelphia. p. 297-304. 1993

5. **MS Cohen**, "*Rapid MRI and Functional Applications*," in *Brain Mapping: the Methods*, AW Toga and JC Mazziotta, Editors. Academic Press: New York. 1996

6. S Bookheimer and **MS Cohen**, "*New Directions: Functional MRI*," in *Epilepsy: A Comprehensive Textbook*, J Engel and T Pedley, Editors. Lippincott-Raven: Philadelphia. 1997

7. J Mazziota and **MS Cohen**, "*The Measurement of Cerebral Blood Flow and Metabolism in Human Subjects*," in *Primer on Cerebral Vascular Disease*, M Welch, L Caplan, B Siesjo, B Wei and D Reis., Editors. Academic Press: San Diego. p. 38-42. 1997

8. RM Weisskoff and **MS Cohen**, "*Echo planar imaging: technology and techniques*," in *Advanced MR Imaging Techniques*, W Bradley and G Bydder, Editors. Martin Dunitz: London. p. 63-97. 1997

9. **MS Cohen**, "*Theory of Echo-Planar Imaging*," in *Echo-Planar Imaging: Theory, Technique and Application*, F Schmitt, M Stehling and R Turner, Editors. Springer Verlag: Berlin. p. 11-30. 1998

10. **MS Cohen**, "*Echo-planar imaging and functional MRI*," in *Functional MRI*, C Moonen and P Bandettini, Editors. Springer-Verlag: Berlin. p. 137-148. 1999

11. DG Mitchell and **MS Cohen**, "*MRI Principles*." 2 ed. New York: WB Saunders. 2003

12. P Douglas, A Anderson and **MS Cohen**, "*Independent Component Based Classification in Functional Neuroimaging*," in *Machine Learning: new methods*. Nova Publishers: Hauppauge, New York. 2012.

ABSTRACTS (*partial – I do not keep careful track of these*)

1. **MS Cohen** and RH Britt. "*Effects of anesthetics on the brainstem auditory evoked response*." in *Society for Neuroscience*. Los Angeles, CA. 1981
2. RJ Dooling, MH Searcy and **MS Cohen**. "*Nonsimultaneous masking and temporal summation in the parakee (Melopslttacus undalatus)*." in *The 103rd Meeting of the Acoustical Society of America*. Chicago, Illinois. 1982
3. **MS Cohen**, S Schwartz-Giblin and DW Pfaff. "*Responses of epaxial muscles and motor nerves to electrical stimulation of the pudendal nerve in the rat*." in *Society for Neuroscience*. Boston, MA. 1983
4. T Brown, **MS Cohen** and W Thoma. "*An imaging method of shimming for spectroscopy*." in *Experimental Nuclear Conference*. Asilomar, CA. 1987
5. E Unger, **MS Cohen**, R Gatenby, M Clair, H Kessler and T Brown. "*Preliminary observations: single breathholding scans of the abdomen using FISP and FLASH at 1.5 Tesla*." in *Society for Magnetic Resonance Imaging*. 1987
6. **MS Cohen**. "*Design of MR Imaging Methods for Trauma and Screening*." in *Society of Magnetic Resonance in Medicine*. San Francisco. 1988
7. **MS Cohen**. "*Magnetic Susceptiblity: Contrast and Artifacts*." in *Society for Magnetic Resonance in Medicine*. San Francisco, CA. 1988
8. D Saloner, C Anderson and **MS Cohen**. "*Vessel display and quantification of in-plane blood flow*." in *Society for Magnetic Resonance Imaging*. 1988
9. **MS Cohen** and M Rohan. "*3D volume imaging with Instant Scan*." in *Society for Magnetic Resonance in Medicine*. 1989
10. **MS Cohen**, R Weisskoff and H Kantor. "*Evidence of peripheral stimulation by time-varying magnetic fields*." in *Radiological Society of North America*. Chicago. 1989
11. **MS Cohen**, R Weisskoff and R Rzedzian. "*Clinical Methods for "Single-Shot" Instant MR Imaging of the heart*." in *Radiological Society of North America*. Chicago. 1989
12. B Rosen, J Belliveau, D Betteridge, **MS Cohen**, R Weisskoff, J Vevea and R Rzedzian. "*Perfusion imaging with magnetic-susceptibility contrast media*." in *Radiological Society of North America*. Chicago. 1989
13. R Weisskoff and **MS Cohen**. "*Instant magnetic field mapping*." in *Society of Magnetic Resonance in Medicine, Eighth Annual Meeting*. Amsterdam, The Netherlands. 1989
14. R Weisskoff, **MS Cohen** and R Rzedzian. "*Fat suppression techniques: a comparison of results in instant imaging*." in *Society for Magnetic Resonance in Medicine*. 1989

15. J Belliveau, B Rosen, D Betteridge, D Kennedy, J Vevea, K Johnson, **MS Cohen**, R Weisskoff, R Rzedzian and T Brady. "*Functional NMR Imaging of the Human Brain*." in *Society of Magnetic Resonance in Medicine*. 1990

16. A Bleier, S Hushek, D Feinberg, R Kikinis, L Panych, R Weisskoff, J Dalcanton, **MS Cohen**, R McKinstry, B Rosen and F Jolesz. "*Image acquisition and processing for real-time monitoring of laser surgery*." in *Society of Magnetic Resonance in Medicine*. 1990

17. A Bleier, S Hushek, N Higuchi, R Kikinis, L Panych, R Weisskoff, J Dalcanton, **MS Cohen**, R McKinstry, B Rosen and F Jolesz. "*MRI image acquisition and processing for real-time monitoring of laser surgery*." in *Society of Magnetic Resonance in Medicine*. New York, New York, USA. 1990

18. A Bleier, L Panych, **MS Cohen**, R Weisskoff, J Dalcanton, S Hushek, N Higuchi, B Rosen, R McKinstry and F Jolesz. "*Visualization of Laser Heat Propagation with Instant Imaging*." in *Society for Magnetic Resonance Imaging*. 1990

19. **MS Cohen**. "*High-speed MR imaging: from fast to instant*." in *Society for Magnetic Resonance Imaging*. 1990

20. **MS Cohen**, J Dalcanton, R Weisskoff and M Rohan. "*Kinematic imaging of the knee using instant MRI*." in *Society of Magnetic Resonance in Medicine*. 1990

21. N Higuchi, F Jolesz, A Bleier, R Mulkern, V Colucci, S Hushek, M El-Azouzi, D Hsu, R McKinstry, B Rosen, **MS Cohen** and R Weisskoff. "*MRI Control of Experimental Laser Surgery*." in *Society of Magnetic Resonance in Medicine*. New York, New York, USA. 1990

22. R McKinstry, J Belliveau, B Buchbinder, **MS Cohen**, R Weisskoff, J Vevea, K Thulborn, K Kwong, K Johnson and B Rosen. "*Instant NMR diffusion and susceptibility-contrast CBV imaging of patients with increased blood-brain barrier permeability*." in *Ninth Annual Meeting of the Society of Magnetic Resonance in Medicine*. New York, New York. 1990

23. R McKinstry, R Weisskoff, **MS Cohen**, J Vevea, K Kwong, R Rzedzian, T Brady and B Rosen. "*Instant MR Diffusion/Perfusion Imaging*." in *Society for Magnetic Resonance Imaging*. 1990

24. V Wedeen, A Crawley, R Weisskoff, G Holmvang and **MS Cohen**. "*Real time MR imaging of structured fluid flow*." in *Society of Magnetic Resonance in Medicine*. New York. 1990

25. R Weisskoff, J Dalcanton and **MS Cohen**. "*High resolution 64 msec instant images of the head*." in *Society for Magnetic Resonance Imaging*. 1990

26. J Belliveau, D Kennedy, R McKinstry, B Buchbinder, R Weisskoff, J Vevea, K Nadeau, **MS Cohen** and T Brady. "*Functional mapping of the human visual cortex with susceptibility contrast MR imaging*." in *Society for Magnetic Resonance in Medicine*. Chicago, Illinois. 1991

27. JW Belliveau, DN Kennedy, RC McKinstry, BR Buchbinder, RM Weisskoff, JM Vevea, K Nadeau, **MS Cohen**, TJ Brady and BR Rosen. "*Functional mapping of the human visual cortex by susceptibility-contrast NMR*." in *Ninth Annual Meeting of the Society for Magnetic Resonance Imaging*. Chicago, IL. 1991

28. JW Belliveau, RC McKinstry, DN Kennedy, BR Buchbinder, RM Weisskoff, JM Vevea, K Nadeau, **MS Cohen**, TJ Brady and BR Rosen. "*Functional mapping of the human visual cortex by nuclear magnetic resonance imaging*." in *Fifteenth International Symposium On Cerebral Blood Flow and Metabolism*. Miami, Fl. 1991

29. B Buchbinder, J Belliveau, R McKinstry, **MS Cohen**, R Weisskoff, J Vevea, H Aronen, G Hunter, F Hochberg, K Johnson, V Caviness, T Brady and B Rosen. "*Ultrafast magnetic resonance imaging of regional cerebral hemodynamics*." in *Tenth annual meeting of the Society for Magnetic Resonance in Medicine*. Sand Francisco. 1991

30. S Chang, **MS Cohen** and P Wang. "*Ultra-fast scanning of hardwood logs with an NMR scanner*." in *Fourth International Conference on Scanning Technology in the Wood Industry*. 1991

31. **MS Cohen**, F Shellock, K Nadeau, J Oldershaw, J Boxerman, R Weisskoff and T Brady. "*Acute muscle T2 changes associated with exercise*." in *Tenth Annual Meeting of the Society of Magnetic Resonance in Medicine*. San Francisco, CA. 1991

32. **MS Cohen**, R Weisskoff, M Rohan and T Brady. "*400 msec volume imaging of the heart*." in *Tenth Annual Meeting of the Society of Magnetic Resonance in Medicine*. San Francisco, CA. 1991

33. PF Hahn, P Reimer, **MS Cohen**, KT Nadeau and PR Mueller. "*An Aqueous Gastrointestinal contrast agent for use in Ultrafast MR imaging*." in *Tenth annual meeting of the Society for Magnetic Resonance in Medicine*. San Francisco. 1991

34. GJ Hunter, HL Kantor, RM Weisskoff, JD Pearlman and **MS Cohen**. "*Assessment of Myocardial perfusion by MRI: Correlation with radiolabelled microspheres*." in *Tenth annual meeting of Society for Magnetic Resonance in Medicine*. San Francisco. 1991

35. H Kytömaa and **MS Cohen**. "*Imaging of an unsteady circulating fluidized bed*." in *NMR of Materials*. San Jose, CA. 1991

36. J Pearlman, R Weisskoff, G Hunter, **MS Cohen** and T Brady. "*Cardiac variance images from single-shot MR imaging*." in *Society of Magnetic Resonance Imaging*. Chicago, Illinois. 1991

37. JD Pearlman, L Porkka, G Hunter, RM Weisskoff and **MS Cohen**. "*Quantitative real-time dose response of the heart to magnetic contrast agents: evidence for linear regime*." in *Tenth annual meeting of the Society for Magnetic Resonance in Medicine*. San Francisco. 1991

38. B Poncelet, VJ Wedeen and **MS Cohen**. "*Brain motion measurement with EPI*." in *Tenth annual meeting of the Society for Magnetic Resonance in Medicine*. San Francisco. 1991

39. P Reimer, K Kwong, **MS Cohen**, T Brady and R Weissleder. "*Single shot imaging of in vivo pharmacokinetics of T2* contrast agents in the liver using EPI*." in *Society for Magnetic Resonance Imaging*. San Francisco, CA. 1991

40. P Reimer, S Saini, P Hahn, **MS Cohen** and T Brady. "*Pancreatic imaging using ultrafast magnetic resonance*." in *Eighth annual congress of the European society for magnetic resonance in medicine and biology*. Zürich, Switzerland. 1991

41. P Reimer, S Saini, P Hahn, P Mueller, K Nadeau and **MS Cohen**. "*Ultrafast MR Imaging of the Pancreas*." in *Tenth Annual Meeting of the Society of Magnetic Resonance in Medicine*. San Francisco, CA. 1991

42. B Rosen, J Belliveau, B Buchbinder, **MS Cohen**, R Weisskoff, J Vevea, R Rzedzian and T Brady. "*Perfusion imaging with magnetic susceptibility contrast agents: "real-time" MR imaging in humans*." in *Society for Magnetic Resonance in Medicine*. Chicago, Illinois. 1991

43. BR Rosen, JW Belliveau, BR Buchbinder, **MS Cohen**, RM Weisskoff, JM Vevea, RR Rzedzian and TJ Brady. "*Perfusion imaging with magnetic susceptibility contrast: human imaging using real-time MRI*." in *Ninth Annual Meeting of the Society of Magnetic Resonance Imaging*. Chicago, IL: SMRI. 1991

44. S Saini, P Hahn, P Reimer and **MS Cohen**. "*Protocol and pulse sequence evaluation for ultrafast liver imaging*." in *Eighth annual congress of the European society for magnetic resonance in medicine and biology*. Zürich, Switzerland. 1991

45. S Saini, P Hahn, P Reimer and **MS Cohen**. "*Protocol and Pulse Sequence Design and Evaluation for Ultra-Fast Liver Imaging*." in *European Congress of Radiology*. 1991

46. S Saini, PF Hahn, P Reimer, KT Nadeau and **MS Cohen**. "*Ultrafast MR imaging of the liver: Analysis of Pulse Sequence performance*." in *Tenth annual meeting of the Society for Magnetic Resonance in Medicine*. San Francisco. 1991

47. F Shellock, **MS Cohen**, T Brady, J Mink and M Pfaff. "*Evaluation of patellar alignment and tracking: comparison between kinematic MRI and "true" dynamic imaging by hyperscan MRI*." in *Society for Magnetic Resonance Imaging*. Chicago. 1991

48. K Thulborn, R Weisskoff, **MS Cohen**, T Reese and S Kiihne. "*Quantitative Measurement of Global Cerebral Oxygen Consumption by 1H MR Imaging*." in *Society for Magnetic Resonance Imaging*. Chicago. 1991

49. R Weisskoff, SR Kiihne, **MS Cohen** and KR Thulborn. "*Quantitative in Vivo Blood Oxygenation Measurements by Echo Planar Imaging at 1.5 Tesla*." in *Tenth annual meeting of the Society for Magnetic Resonance in Medicine*. San Francisco. 1991

50. H Aronen, I Goldberg, F Pardo, F Hochberg, D Kennedy, B Buchbinder, J Belliveau, R Weisskoff, **MS Cohen**, A Fischman, T Campbell, C Calder, T Brady and B Rosen. "*Susceptibility contrast CBV imaging: clinical experience in brain tumor patients*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

51. J Baker, **MS Cohen**, C Stern, K Kwong, J Belliveau and B Rosen. "*The effect of slice thickness and echo time on the detection of signal change during echo-planar functional imaging*." in *Society of Magnetic Resonance in Medicine 11th Annual Meeting*. Berlin. 1992

52. J Belliveau, K Kwong, J Baker, C Stern, R Benson, I Goldberg, **MS Cohen**, D Kennedy, T Brady and B Rosen. "*MRI mapping of human visual cortex: retinotopic organization and frequency response of V1*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

53. J Belliveau, K Kwong, J Baker, C Stern, R Benson, I Goldberg, **MS Cohen**, D Kennedy, R Tootell, P Fox, T Brady and B Rosen. "*Functional neuroimaging by MRI: Human visual system*." in *Society for Neuroscience*. Anaheim. 1992

54. H Breiter, K Kwong, J Baker, **MS Cohen** and et al. "*Functional magnetic resonance imaging of obsessive compulsive disorder*." in *Fourth annual NARSAD scientific symposium*. Washington, DC. 1992

55. **MS Cohen**, M Goldberg and E Yucel. "*Ultra-fast MR angiographic methods*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

56. **MS Cohen**, P Hahn and S Saini. "*Breath-hold 3D multi-slab volume imaging*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

57. **MS Cohen**, D Kennedy, D Pitcher, E Halpern and P Filipek. "*Apparent cortical volume is affected by MR imaging parameters*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

58. M Goldberg, P Hahn, S Saini, P Mueller, P Reimer and **MS Cohen**. "*Quantitative tissue characterization of hepatic lesions: Results of echo planar imaging*." in *Radiological Society of America 78th Annual Meeting*. Chicago. 1992

59. M Goldberg, P Hahn, S Saini, P Reimer, T Campbell and **MS Cohen**. "*Tissue characterization of focal liver lesions using T1 and T2 relaxation time measurements with echo planar MR imaging*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

60. M Goldberg, E Yucel, S Saini, P Hahn, J Kaufman, T Campbell and **MS Cohen**. "*Echo planar angiography of the portal veins: preliminary results*." in *Society of Magnetic Resonance in Medicine eleventh annual meeting*. Berlin. 1992

61. P Hahn, S Saini, **MS Cohen**, M Goldberg, E Yucel and P Mueller. "*Clinical echo-planar abdominal MR imaging: 18 month experience*." in *Radiological Society of North America 78th Annual Meeting*. Chicago. 1992

62. G Hunter, L Hamberg, H Kantor, **MS Cohen**, R Weisskoff, B Rosen and T Brady. "*First pass susceptibility contrast MR in the clinical evaluation of myocardial ischemia and infarction*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

63. K Kwong, J Belliveau, D Chesler, I Goldberg, C Stern, J Baker, R Weisskoff, R Benson, B Poncelet, D Kennedy, R Turner, **MS Cohen**, T Brady and B Rosen. "*Real time imaging of perfusion change and blood oxygenation change with EPI*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

64. K Kwong, J Belliveau, C Stern, J Baker, D Chesler, I Goldberg, B Poncelet, D Kennedy, R Weisskoff, **MS Cohen**, R Turner, H-M Cheng, T Brady and B Rosen. "*Real-time magnetic resonance imaging (MRI) of brain activity in humans*." in *Society for Neuroscience*. Anaheim. 1992

65. B Poncelet, V Wedeen, R Weisskoff and **MS Cohen**. "*Measurement of brain parenchyma motion with ciné echo planar imaging*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

66. B Poncelet, V Wedeen, R Weisskoff, **MS Cohen**, F Holmvang, T Brady and H Kantor. "*Quantification of LAD the coronary flow with magnetic resonance echo-planar imaging*." in *American Heart Association*. New Orleans. 1992

67. P Reimer, S Saini, P Hahn, M Goldberg, P Mueller, T Brady and **MS Cohen**. "*Refinements of clinical echo planar MR imaging*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

68. P Reimer, S Saini, K Kwong, T Brady, **MS Cohen** and R Weissleder. "*Dynamic single shot echo planar imaging of the liver with gadolinium-DTPA: pulse sequence and dose-related signal changes*." in *Society of Magnetic Resonance in Medicine Eleventh Annual Meeting*. Berlin. 1992

69. S Saini, P Hahn, M Goldberg, P Reimer, **MS Cohen** and P Mueller. "*Clinical evaluation of echo-planar MR imaging of the abdomen: review of first 100 patients*." in *Radiological Society of North America 78th Annual Meeting*. Chicago. 1992

70. D Thedens, S Fleagle, R Weisskoff, G Hunter, **MS Cohen**, H Kantor and D Skorton. "*Feasibility of automated detection of myocardial borders to assess cardiac anatomy from echo-planar cardiac magnetic resonance images*." in *American Heart Association*. New Orleans. 1992

71. M Yoon, L Johnson, A Mosher, R Carbonneau, K Nadeau, **MS Cohen**, R Weisskoff and K Thulborn. "*Sensitivity and specificity of echo planar imaging for detection of neuropathology*." in *Society for Magnetic Resonance Imaging tenth annual meeting*. New York. 1992

72. R Benson, K Kwong, J Belliveau, J Baker, **MS Cohen**, N Hildebrandt, D Caplan and B Rosen. "*Selective activation of Broca's area and inferior parietal cortex for words using multi-slice gradient-echo EPI*." in *Society for Magnetic Resonance in Medicine Twelfth Annual Meeting*. New York. 1993

73. R Benson, K Kwong, J Belliveau, J Baker, **MS Cohen**, C Stern, N Hildebrandt, D Caplan and B Rosen. "*Magnetic resonance imaging studies of visual word recognition: words versus false font strings*." in *Society for Neuroscience 23d Annual Meeting*. Washington, DC. 1993

74. **MS Cohen**, J Baker, J Belliveau, T Davis, R Tootell, K Kwong and B Rosen. "*Time Course of Cerebrovascular Response to Neuronal Activity Demonstrated with Functional MR Imaging*." in *Society for Neuroscience*. Washington DC. 1993

75. R Savoy, K Kwong and **MS Cohen**. "*Searching for stereopsis in humans using ultra-fast functional MRI: stimuli, analysis techniques, and preliminary data*." in *Society for Neuroscience*. Washington DC. 1993

76. RM Weisskoff, JR Baker, JW Belliveau, TL Davis, KK Kwong, **MS Cohen** and BR Rosen. "*Power Spectrum Analysis of Functionally-Weighted MR Data: What's in the Noise?*" in *Society of Magnetic Resonance in Medicine*. New York, New York. 1993

77. R Benson, K Kwong, B Buchbinder, H Jiang, J Belliveau, **MS Cohen**, S Bookheimer, B Rosen and T Brady. "*Noninvasive evaluation of language dominance using functional MRI*." in *Society for Magnetic Resonance second annual meeting*. San Francisco. 1994

78. F Huang-Hellinger, H Breiter, G McCormack, **MS Cohen**, K Kwong, J Sutton, T Davis, R Savoy, R Weisskoff, J Belliveau and B Rosen. "*Simultaneous Functional Magnetic Resonance Imaging and Electrophysiological Recording*." in *Society of Magnetic Resonance, Second Meeting*. San Francisco. 1994

79. SY Bookheimer, **MS Cohen**, M Dapretto, I Fried, A Shewmon, K Black, J Engel and J Mazziotta. "*Functional MRI in Surgical Planning*." in *Society for Neuroscience*. San Diego, CA. 1995

80. SY Bookheimer, **MS Cohen**, B Dobkin and JC Mazziotta. "*Functional MRI During Motor Activation following stroke*." in *Human Brain Mapping*. 1995

81. **MS Cohen**, SY Bookheimer and JC Mazziotta. "*Parametric Analysis of Functional MRI data: a physiologically relevant transform*." in *Cerebral Blood Flow and Metabolism*. 1995

82. **MS Cohen**, H Breiter, G DiGirolamo, W Thompson, J.Belliveau, B Rosen and S Kosslyn. "*Mental Rotation Studied by functional Magnetic Resonance Imaging (fMRI)*." in *Brain Map '95*. Paris. 1995

83. **MS Cohen** and MF Green. "*Where the Voices Come From: Imaging of Schizophrenic Auditory Hallucinations*." in *Society for Neuroscience*. San Diego, CA. 1995

84. E Passaro, SY Bookheimer, **MS Cohen** and J Engel. "*Functional Magnetic Resonance Imaging in a Patient with Continuous Occipital Seizures*." in *American Electroencephalographic Society*. Washington, D.C. 1995

85. SY Bookheimer, MA Dapretto, **MS Cohen** and JX Wang. "*Functional MRI of the hippocampus during short-term memory tasks: parametric response to task difficulty and stimulus novelty*." in *Second Annual Conference on Functional Mapping of the Human Brain*. Boston, MA. 1996

86. M Cherrier, L Ercoli, S Bookheimer, J Wang and **MS Cohen**. "*Changes in Cortical Activity During a Spatial Versus Phonological Verbal Fluency Task*." in *International Neuropsychology Society*. 1996

87. **MS Cohen**, DA Kelley, ML Rohan and PA Roemer. "*An MR instrument optimized for intracranial neuroimaging*." in *Human Brain Mapping 96*. Boston, MA. 1996

88. MA Dapretto, SY Bookheimer, **MS Cohen** and JX Wang. "*fMRI of language in dyslexic and normally developing children*." in *Second Annual Conference on Functional Mapping of the Human Brain*. Boston, MA. 1996

89. MA Dapretto, SY Bookheimer, **MS Cohen** and JX Wang. "*Selective attention paradigms to map language representations using fMRI*." in *Society for Neuroscience*. 1996

90. BH Dobkin, **MS Cohen**, SY Bookheimer and JC Mazziotta. "*Functional Magnetic Resonance Imaging to Study Brain Adaptations During Rehabilitation of Upper Extremity Function After Hemiplegic Stroke*." in *J Neuro Rehab*. 1996

91. ZL Litvack and **MS Cohen**. "*Automated blood vessel identification in fMRI*." in *Third international conference on mapping of the human brain*. Boston, MA. 1996

92. GW Small, JR Barrio, GM Cole, SY Bookheimer, **MS Cohen**, JC Mazziotta, ME Phelps, AM Saunders, JL Haines, MA Pericak-Vance and ADRACoN Abstracts. "*APOE and Brain Imaging for Early Detection of Alzheimer Disease*." in *American College of Neuropsychopharmacology*. 1996

93. JX Wang, **MS Cohen**, SY Bookheimer and MA Dapretto. "*Functional MRI of human auditory cortex during auditory image lateralization*." in *Second Annual Conference on Functional Mapping of the Human Brain*. Boston, MA. 1996

94. **MS Cohen**. "*A Linear Systems Approach to the Parametric Analysis of fMRI Time Series*." in *Fifth Annual Meeting of the International Society for Magnetic Resonance in Medicine*. Vancouver, BC. 1997

95. **MS Cohen**, R Terwilliger, X Hong, M Rohan and P Roemer. "*Real-time observation of mental activity: the autocerebroscope*." in *Society for Neuroscience 27th annual meeting*. New Orleans, LA. 1997

96. X Hong, **MS Cohen** and P Roemer. "*Functional EPI with Real Time Imaging Processing*." in *Fifth Annual Meeting of the International Society for Magnetic Resonance in Medicine*. Vancouver, BC. 1997

97. SY Bookheimer, M Dapretto, K Black and **MS Cohen**. "*Functional MRI of language organization in patients with aggressive brain tumors*." in *Society for neuroscience 27th annual meeting*. New Orleans, LA. 1998

98. **MS Cohen**, RA Dubois and WL Scheding. "*Rapid Artifact Detection and Correction for Real-Time fMRI*." in *Human Brain Mapping*. Montreal, Canada. 1998

99. **MS Cohen** and WL Scheding. "*Real-Time functional MRI*." in *Human Brain Mapping*. Montreal, Canada. 1998

100. M Dapretto, SY Bookheimer, M Strojwas and **MS Cohen**. "*An fMRI Study of Semantic, Phonological, and Orthographic Processing Using a Selective Attention Paradigm*." in *Fourth International Conference on Functional Mapping of the Human Brain*. Montreal, CANADA. 1998

101. M Dapretto, SY Bookheimer, J Wang and **MS Cohen**. "*A fMRI study of morpho-syntactic processing using a selective attention paradigm*." in *Society for neuroscience 27th annual meeting*. New Orleans, LA. 1998

102. R Dubois and **MS Cohen**. "*Consistency of activation signal in fMRI assessed by number and magnitude of voxels*." in *Society for Neuroscience*. Los Angeles. 1998

103. R Frysinger, K Negoro, J Bronstein, D Masterman, J Mazziotta, **MS Cohen** and A De Salles. "*Estimation of lesion volumes in pallidotomy procedures: acute versus chronic volumes*." in *Society for Neuroscience*. Los Angeles. 1998

104. M Iacoboni, E Zaidel, N Sicotte, M Dapretto, RP Woods, A Ptito, **MS Cohen** and JC Mazziotta. "*Transitions in Parallel Processing: The Role of Conduction Delays*." in *Fourth International Conference on Functional Mapping of the Human Brain*. Montreal, CANADA. 1998

105. M Iacoboni, E Zaidel, N Sicotte, RP Woods, **MS Cohen** and JC Mazziotta. "*Waves of Endogenous Context: Behavior and Imaging*." in *Fourth International Conference on Functional Mapping of the Human Brain*. Montreal, CANADA. 1998

106. J Kroger, K Holyoak, S Bookheimer and **MS Cohen**. "*Processing relationally complex representations in Raven's progressive matrices: an fMRI study*." in *Society for Neuroscience*. Los Angeles. 1998

107. J Quintana, S Bookheimer, J Kroger, **MS Cohen** and J Mazziotta. "*Cerebral activity related to production and anticipation during decision making*." in *Society for Neuroscience*. Los Angeles. 1998

108. N Sicotte, R Voskuhl, **MS Cohen**, L Myers, G Ellison and J Mazziotta. "*A comparison of enhancing multiple sclerosis lesions at 1.5T and 3.0T*." in *America's Committee for Treatment and Research in Multiple Sclerosis*. Montreal, Quebec. 1998

109. M Zeineh, S Bookheimer and **MS Cohen**. "*A Parametric Trial-based Study of the Late Undershoot in fMRI with Visual Stimulation*." in *Society for Neuroscience*. Los Angeles. 1998

110. T Allison, D Madsen, **MS Cohen**, ME Jarvik and E Zaidel. "*Cigarette smoking, selective attention and brain activation: evidence from behavioral laterality and fMRI*." in *The college on problems of drug dependence*. Acapulco, Mexico. 1999

111. **MS Cohen**, T Allison, DC Madsen, ME Jarvik and R Olmstead. "*Functional MRI of Naturalistic Smoking*." in *Society for Research on Nicotine and Tobacco*. San Diego. 1999

112. R DuBois and **MS Cohen**. "*Retinotopic organization of the human superior colliculus demonstrated using fMRI*." in *Society for Neuroscience*. Miami. 1999

113. G Small, S Bookheimer, M Strojwas, **MS Cohen**, A Saunders, M Pericak-Vance and J Mazziotta. "*Functional MRI of Memory Tasks in Older Persons with APO-E4*." in *Biological Psychiatry*. 1999

114. F Chollet, B Dobkin, J Pariente, F Saab, **MS Cohen**, I Loubinoux and J Mazziotta. "*Cerebral representation of a sensory discrimination network in humans*." in *Organization for Human Brain Mapping*. 2000

115. **MS Cohen**. "*A fast and efficient method for compression of digital image time series*." in *International Society for Magnetic Resonance in Medicine Eighth annual meeting*. Denver. 2000

116. **MS Cohen**, T Allison, D Madsen, M Jarvik, R Olmstead and E London. "*fMRI of cigarette smoking: A method and preliminary results*." in *International Society for Magnetic Resonance in Medicine Eighth annual meeting*. Denver. 2000

117. R Goldman, **MS Cohen**, J Engel and J Stern. "*Combining EEG and functional MRI: Cleaning up the electrical signals*." in *International Society for Magnetic Resonance in Medicine Eighth annual meeting*. Denver. 2000

118. DC Madsen, TL Allison, SM Terrace, **MS Cohen**, ME Jarvik and RE Olmstead. "*Validation of Naturalistic Cigarette Smoking in an Magnetic Resonance setting*." in *Society for Research on Nicotine and Tobacco*. 2000

119. **MS Cohen**, R Goldman, J Stern and J Engel. "*Simultaneous EEG and fMRI Made Easy*." in *Organization for Human Brain Mapping*. Brighton, UK. 2001

120. RM DuBois, S Bookheimer, MM Cherrier and **MS Cohen**. "*Activation of early visual areas in a mental imagery task*." in *Society for Neuroscience 30th Annual Meeting*. New Orleans. 2001

121. D Glahn, S Bava, **MS Cohen**, V Poutanen, B Therman, T Van Erp, M Manninen, M Huttunen, J Lonnqvist, C Standerskjold-Nordenstam and T Cannon. "*Towards A Functional Atlas For Visuospatial Working Memory: Consistency Of Activation Patterns In Healthy Volunteers*." in *Human Brain Mapping*. Brighton, UK. 2001

122. R Goldman, **MS Cohen**, J Stern and J Engel. "*Tomographic Mapping of Alpha Rhythm Using Simultaneous EEG/fMRI*." in *Organization for Human Brain Mapping*. Brighton, UK. 2001

123. KA Schaper, JB Arnold, J-S Liow, JJ Stern, JG Sled, DW Shattuck, AJ Worth, **MS Cohen**, RM Leahy, JC Mazziotta and DA Rottenberg. "*Evaluation of Six Algorithms for Correcting Intensity Non-uniformity Effects in MRI Volumes*." in *Organization for Human Brain Mapping*. Brighton, UK. 2001

124. **MS Cohen**, RI Goldman and JH Stern. "*Simultaneous Imaging for Tomographic Electrophysiology: Issues in acquisition and interpretation*." in *International Seminar on EEG Dipole Tracing and fMRI*. Tokyo, Japan. 2002

125. RI Goldman and **MS Cohen**. "*Simultaneous EEG and fMRI of normal and abnormal brain electrophysiology*." in *International Seminar on EEG Dipole Tracing and fMRI*. Tokyo, Japan. 2002

126. E London, S Simon, A Mendrek, J Learn, **MS Cohen**, A Brody, R Olmstead, M Ernst and M Jarvik. "*Difference between smokers and nonsmokers in tests of selective attention and working memory: effects of abstinence and cigarette smoking*." in *Tobacco-Related Disease Research Program (TRDRP) Annual Investigator's Meeting*. San Jose, CA. 2002

127. E Martínez-Montes, N Trujillo-Barreto, R Goldman, **MS Cohen** and P Valdés-Sosa. "*Tri-linear Partial Least Squares Analysis for EEG/fMRI fusion*." in *Organization for Human Brain Mapping*. Sendai, Japan: NeuroImage. 2002

128. A Mendrek, S Simon, **MS Cohen**, M Jarvik, R Olmstead, A Brody, M Ernst and E London. "*Effects of smoking history and nicotine withdrawal on cognitive function*." in *National Conference on Tobacco or Health*. 2002

129. S Sinha, SY Bookheimer, J Grinstead, **MS Cohen** and L Badr. "*Neuroplasticity in Neonates – An fMRI Study of Language Stimulated Auditory Activation*." in *International Society for Magnetic Resonance in Medicine ninth annual meeting*. Honolulu, HI. 2002

130. RM Albistegui-DuBois and **MS Cohen**. "*Observations on the Consistency of Auditory Collicular Response during Adaptation to Inverted Vision*." in *Organization for Human Brain Mapping Eighth Annual Meeting*. New York, NY. 2003

131. RM Albistegui-DuBois and **MS Cohen**. "*Reversal of parietal responses in a pointing task during adaptation to inverted vision*." in *Society for Neuroscience*. New Orleans, LA. 2003

132. R Bhidayasiri, S Sinha, JM Bronstein, S Ahn, EJ Behnke, **MS Cohen**, R Frysinger, SE Krahl and FG Shellock. "*In vitro study of MRI - related heating of deep brain stimulation electrodes at 1.5 - tesla*." in *Society for Neuroscience*. New Orleans. 2003

133. **MS Cohen**. "*Simultaneous imaging for tomographic electrophysiology: Efficient tools of acquisition and analysis*." in *Organization for Human Brain Mapping Satellite Symposium on EEG-Correlated fMRI*. New York, NY. 2003

134. **MS Cohen**, RM DuBois and MM Cherrier. "*Geographic mental imagery recruits a network of early visual areas*." in *Society for Neuroscience*. New Orleans. 2003

135. RI Goldman and **MS Cohen**. "*Tomographic Distribution of Resting Alpha Rhythm Sources Revealed by Independent Component Analysis*." in *Organization for Human Brain Mapping Eighth Annual Meeting*. New York, NY. 2003

136. RI Goldman, E Martinez-Montes, PA Valdes-Sosa and **MS Cohen**. "*Convergent evidence for distributed sources of alpha rhythm*." in *Society for Neuroscience*. New Orleans. 2003

137. SE Krahl, JM Bronstein, S Sinha, S Ahn, RC Frysinger, **MS Cohen**, EJ Behnke, R Bhidayasiri, AAF DeSalles and FG Shellock. "*MRI safety test at 1.5 - tesla of a deep brain stimulation lead and trajectory guide*." in *Society for Neuroscience*. New Orleans. 2003

138. ED London, J Xu, A Mendrek, **MS Cohen**, M Jarvik, SL Simon, AL Brody, R Olmstead and J Monterosso. "*Regional brain activation during performance of a working memory task by cigarette smokers and nonsmokers*." in *Society for Neuroscience*. New Orleans. 2003

139. ED London, J Xu, PF Rodriguez, A Mendrek, **MS Cohen**, SL Simon, AL Brody, R Olmstead and ME Jarvik. "*Greater cortical activation during performance of a working memory task by smokers than non-smokers*." in *Society for Research on Nicotine and Tobacco*. Scottsdale, AZ. 2003

140. J Stern, R Goldman, Z Bilusic, J Engel and **MS Cohen**. "*fMRI correlates to contralateral interictal epileptiform discharges*." in *The American Epilepsy Society*. Boston, MA. 2003

141. EA Vessel, I Biederman, **MS Cohen**, R Albistequi-Dubois and D Glahn. "*The neural basis of spontaneous perceptual selection*." in *Vision Sciences*. 2003

142. R Albistegui-DuBois and **MS Cohen**. "*Adaptation to inverted vision: alteration in retinotopic organization*." in *Society for Neuroscience*. San Diego. 2004

143. S Harris and **MS Cohen**. "*The functional neuroanatomy of belief*." in *Society for Neuroscience*. San Diego. 2004

144. ED London, J Xu, PF Rodriguez, A Mendrek, **MS Cohen**, J Monterosso, SL Simon, AL Brody, R Olmstead, M Jarvik and M Ernst. "*Smoking and task-related brain activity after overnight vs. brief abstinence in smokers*." in *Society for Neuroscience*. San Diego. 2004

145. ED London, J Xu, PF Rodriguez, A Mendrek, SL Simon, AL Brody, ME Jarvik, J Monterosso, M Ernst and **MS Cohen**. "*More Task-Related Cortical Activity in Cigarette Smokers than in Nonsmokers Performing a Working Memory Task*." in *College for Problems on Drug Dependence 66th Annual Meeting*. San Juan, Puerto Rico. 2004

146. TGM van Erp, TA Lesh, SB Therman, M Manninen, MO Huttunen, D Shirinyan, KH Karlsgodt, LL Eldridge, BJ Knowlton, SY Bookheimer, **MS Cohen**, R Joensuu and TD Cannon. "*Hippocampal Activation is Associated with Binding of Stimulus Features During Memory Encoding*." in *Organization for Human Brain Mapping 10th annual meeting*. Budapest, Hungary. 2004

147. J Xu, A Mendrek, **MS Cohen**, J Monterosso, SL Simon, AL Brody, R Olmstead, M Jarvik, M Ernst, ED London and P Rodriguez. "*Smoking and task-related brain activity after overnight vs. brief abstinence in smokers*." in *Society for Research on Nicotine and Tobacco*. 2004

148. J Xu, J Monterosso, A Mendrek, PF Rodriguez, AL Brody, **MS Cohen**, SL Simon, R Olmstead, ME Jarvik, M Ernst and ED London. "*Cortical activation and deactivation when healthy non-smokers perform a working memory task*." in *Society for Neuroscience*. San Diego. 2004

149. RI Goldman, AD Gerson, **MS Cohen**, TR Brown and PR Sajda. "*Simultaneous EEG and fMRI for Event Related Studies*." in *Organization for Human Brain Mapping 11th Annual Meeting*. Toronto, Canada. 2005

150. E Harley, VA Carr, IV Viskontas, **MS Cohen** and SA Engel. "*Functional MRI Can Measure Timing of Transient Increases in Neural Response with High Precision*." in *Society for Neuroscience 35th Annual Meeting*. Washington, DC. 2005

151. K Karlsgodt, D Glahn, TGMv Erp, S Therman, M Huttunen, M Manninen, J Lonnqvist, C-G Standertskjold-Nordenstam, J Kaprio, D Shirinyan, **MS Cohen** and TD Cannon. "*The Relationship Between Behavior and fMRI Signal During a Working Memory Task in Patients with Schizophrenia, Unaffected Co-Twins, and Control Subjects*." in *Society for Neuroscience*. 2005

152. KH Karlsgodt, DC Glahn, TGM van Erp, S Therman, M Huttunen, M Manninen, C Standerskjold-Nordenstam, J Kaprio, D Shirinyan, **MS Cohen** and TD Cannon. "*Relationship between Behavior and fMRI Signal in a Working Memory Task in Patients with Schizophrenia, Unaffected Co-Twins, and Controls*." in *Society for Neuroscience 35th Annual Meeting*. Washington, DC. 2005

153. D Payer, R Albistegui-DuBois, J Xu, JR Monterosso, T Fong, **MS Cohen** and ED London. "*Deficits in Cortical Activation Associated with Emotion Recognition and Processing in Methamphetamine Abusers*." in *Society for Neuroscience 35th Annual Meeting*. Washington, DC. 2005

154. J Townsend, L Altshuler, M Proenza, F Sabb, **MS Cohen** and S Bookheimer. "*Reduced Activation in Orbitofrontal Cortex during Mania: A Functional Magnetic Imaging Study*." in *Organization for Human Brian Mapping 11th Annual Meeting*. Toronto, Canada. 2005

155. J Xu, A Mendrek, **MS Cohen**, J Monterosso, CP Domier, SL Simon, A Brody, M Jarvik, M Ernst and ED London. "*Effects of Cigarette Smoking on Brain Activity of Smokers Performing the Stroop Task*." in *Society for Neuroscience 35th Annual Meeting*. Washington, DC. 2005

156. AR Aron, **MS Cohen**, L Clark, DG Ghahremani, TW Robbins and RA Poldrack. "*The inferior frontal junction is not necessary for interference control: Evidence from frontal lesion patients*." in *Society for Neuroscience*. San Diego, CA. 2007

157. TD Cannon, B Knowlton, Tv Erp, T Lesh, C Bearden, M Green, **MS Cohen** and K Nuechterlein. "*Behavioral and Physiologic Indicators of Deficits in Contextual Encoding and Episodic Memory in the Prodromal and Psychotic Phases of Schizophrenia*." in *International Congress on Schizophrenia Research*. Colorado Springs, CO. 2007

158. **MS Cohen**. "*Challenges and Opportunities for MRI in Traumatic Brain Injury*." in *International Brain Mapping and Intraoperative Surgical Planning Society*. Washington, DC. 2007

159. BH Eom, K Penanen, **MS Cohen** and I Hahn. "*Development of JPL low-field SQUID MRI prototype system: In-Vivo MRI results and intraoperative imaging implications*." in *International Brain Mapping and Interventional Surgery Planning Society*. Washington, DC. 2007

160. I Hahn, K Penanen, BH Eom and **MS Cohen**. "*Development of Low- -Field SQUID MRI Prototype System*." in *International Brain Mapping and Introperative Surgical Planning Society*. Washington, DC. 2007

161. E London, J Monterosso, T Mann, A Ward, G Ainslie, J Xu, A Brody, S Engel and **MS Cohen**. "*Neural Activation during Smoking Self-Control: fMRI Assay*." in *College for Problems on Drug Dependence*. Scottsdale, AZ. 2007

162. J Stern, M Tripathi, M Akhtari, A Korb, J Engel and **MS Cohen**. "*Musicogenic seizure localization with simultaneous EEG and functional MRI*." in *American Academy of Neurology*. 2007

163. D Strick, **MS Cohen**, FG Shellock and JW Judy. "*Intracranial MR and implant safety*." in *Society for Neuroscience 37th annual meeting*. San Diego. 2007

164. DS Strick, **MS Cohen** and JW Judy. "*MRI Microcoil and Depth Electrode*." in *International Society for Magnetic Resonance in Medicine*. Berlin, Germany. 2007

165. JD Townsend, L Altshuler, **MS Cohen**, N Eisenberger, L Foland and SY Bookheimer. "*Persistent deficits in orbitofrontal cortex function in euthymic bipolar subjects*." in *Society for Neuroscience 37th annual meeting*. San Diego. 2007

166. J Xu, J Monterosso, **MS Cohen**, T Fong and ED London. "*Abnormal Brain Activation of Methamphetamine Abusers Performing the N-Back Working Memory Task*." in *Society for Neuroscience*. San Diego, CA. 2007

167. A Anderson, **MS Cohen**, ID Dinov, J Quintana, J Sherin and A Yuille. "*Classification of Schizophrenic and Normal Resting State fMRI scans using Temporal Network Associations*." in *Human Brain Mapping*. Melbourne, Australia. 2008

168. B-H Eom, **MS Cohen**, I Hahn and KI Penanen. "*An Ultra-Low Field imaging instrument and analysis of its SNR and scaling properties*." in *International Society of Magnetic Resonance in Medicine*. Toronto, CANADA. 2008

169. B-H Eom, **MS Cohen**, I Hahn and KI Penanen. "*Characterization of MRI properties of human body tissues at microTesla magnetic fields*." in *International Society of Magnetic Resonance in Medicine*. Toronto, CANADA. 2008

170. J Townsend, L Altshuler, S Bookheimer and **MS Cohen**. "*Amygdala Function in Major Depressive Disorder (MDD)*." in *American Psychological Association*. 2008

171. AE Anderson, J Labus, EPM Vianna, J Jarcho, EA Mayer and **MS Cohen**, "*fMRI Scan Classification using Temporal Activity of Independent Components Applied to IBS and Normal Patient Groups*, in *Organization for Human Brain Mapping 15th Annual Meeting*: San Francisco. p. 437. 2009. PMCID: PMCID

172. **MS Cohen**. "*Electricity and magnetism: Insights into the brain from multimodal imaging*." in *Forty-Third Asilomar Conference on Signals, Systems and Computers,*. Pacific Grove, CA. 2009

173. C Culbertson, J Bramen, **MS Cohen**, E London and A Brody. "*Pre- to post- treatment changes in neural activation to smoking cues*." in *Society for Neuroscience 39th annual meeting*. San Diego. 2009

174. PK Douglas, S Harris and **MS Cohen**. "*Naïve Bayes Classification of Belief versus Disbelief using Event Related Neuroimaging Data*." in *Organization for Human Brain Mapping fifteenth annual meeting*. San Francisco. 2009

175. B Eom, K Penanen, PK Day, I Hahn and **MS Cohen**. "*Development of Cryogen-Free Ultra-Low Field MRI Instrument*." in *International Society for Magnetic Resonance in Medicine 17th Annual Meeting*. Honolulu. 2009

176. A Anderson, J Bramen, A Lenartowicz, P Douglas, C Culbertson, A Brody and **MS Cohen**. "*Categorization and Generation of group-wide independent components in fMRI using clustering*." in *Organization for Human Brain Mapping*. Barcelona, Spain. 2010

177. P Douglas, M Durnhofer, E Lau, W Lei and **MS Cohen**. "*Machine Learning Classification of Belief vs. Disbelief States Using both Tomographic and Topographic Dimension Reduction*." in *Society for Neuroscience*. San Diego. 2010

178. PK Douglas, JD Rudie, JA Brown, A Yuille, A Andersen, **MS Cohen**, SY Bookheimer and M Dapretto, "*Resting State Functional Connectivity MRI Based Prediction of Autism vs. Typically Developing*, in *Organization for Human Brain Mapping*: Quebec City, Canada. p. 130. 2011. PMCID: PMCID

179. PO Harvey, J Lee, **MS Cohen**, SA Engel, DC Glahn, KH Nuechterlein, JK Wynn and MF Green. "*Altered dynamic coupling of lateral occipital complex during visual perception in schizophrenia*." in *Schizophrenia*. 2011

180. A Anderson and **MS Cohen**. "*Functional localization of the placebo effect*." in *Society for Neuroscience*. New Orleans, LA: Society for Neuroscience. 2012

181. A Anderson, M Owyong, J Bramen, P Douglas, W Kerr, D Han, R Reid, H Xia, A Cho, A Brody and **MS Cohen**. "*fMRI Imaging Biomarkers for Predicting Treatment Response*." in *International Society for CNS Clinical Trials and Methodology 8th annual meeting*. Washington, DC. 2012

182. JE Bramen, A Lenartowicz, GV Simpson and **MS Cohen**. "*Higher default mode network activity is associated with poorer performance during a multi-modal continuous attention task.*" in *Society for Neuroscience*. New Orleans, LA: Society for Neuroscience. 2012

183. **MS Cohen**. "*Classifying for Discovering: Multimodal Data and Optimal Bases*." in *Social and Affective Neuroscience*. Beijing, China: Beijing Normal University. 2012

184. **MS Cohen**. "*Unnatural Images*." in *Frontiers in Computer Vision*. Providence, Rhode Island. 2012

185. PK Douglas, J Colby, J Rudie, JA Brown, **MS Cohen** and Z Shehzad. "*Insights into multimodal imaging classification of ADHD*." in *Organization for Human Brain Mapping*. Beijing, China. 2012

186. PK Douglas, D Moyer and **MS Cohen**. "*Colocalizing EEG and fMRI in Space*." in *Society for Neuroscience*. New Orleans, LA: Society for Neuroscience. 2012

187. A Gupta, GC Gee, AF Leuchter, **MS Cohen**, GE Wyatt and M-F O'Connor. "*The social environment impact: Brain activation and distress during imagery of racial discrimination experiences*." in *Society for Neuroscience*. New Orleans, LA: Society for Neuroscience. 2012

188. A Head, W Li, A Lenartowicz, GV Simpson and **MS Cohen**. "*Increased intra-individual variability of ultra-slow cortical EEG activity during sustained attention in adults with ADHD*." in *Society for Neuroscience*. New Orleans, LA: Society for Neuroscience. 2012

189. WT Kerr, A Anderson, EP Lau, AY Cho, H Xia, J Bramen, PK Douglas, ES Braun, JM Stern and **MS Cohen**. "*Automated diagnosis of epilepsy using EEG power spectrum*." in *Society for Neuroscience*. New Orleans, LA: Society for Neuroscience. 2012

190. WT Kerr, A Anderson, H Xia, ES Braun, EP Lau, AY Cho and **MS Cohen**. "*Parameter Selection in Mutual Information-Based Feature Selection in Automated Diagnosis of Multiple Epilepsies Using Scalp EEG*." in *Pattern Recognition in NeuroImaging (PRNI), 2012 International Workshop on*. 2012

191. A Lenartowicz, GV Simpson and **MS Cohen**. "*Control of non-spatial attention involves both enhancement of target and suppression of distractor related cortical EEG activity*." in *Society for Neuroscience*. New Orleans, LA: Society for Neuroscience. 2012

192. C Rodriguez and **MS Cohen**. "*A method for fully automated localization and identification of electroencephalographic electrodes from magnetic resonance images*." in *Society for Neuroscience*. New Orleans: Society for Neuroscience. 2012

193. JD Rudie, JB Colby, Z Shehzad, PM Douglas, JA Brown, D Beck-Pancer, LM Hernandez, DH Geschwind, PM Thompson, **MS Cohen**, SY Bookheimer and M Dapretto, "*Autism Classification Using Local, Global, and Connectome-Wide Measures of Functional Connectivity*, in *International Meeting for Autism Research*: San Diego. 2012. PMCID: PMCID

194. H Xia, **MS Cohen** and D Ruan. "*Regional variations in the time course of EEG-fMRI signal coupling*." in *Society for Neuroscience*. New Orleans, LA: Society for Neuroscience. 2012

195. H Xia, **MS Cohen** and D Ruan. "*Regional Variations in the time course of EEG--fMRI signal coupling*." in *Organization for Human Brain Mapping*. Beijing, China. 2012

196. A Anderson, M Owyong, J Bramen, PK Dougles, WT Kerr and **MS Cohen**. "*fMRI imaging biomarkers for predicting treatment response in craving and addiction*." in *Society for Neuroscience 43d annual meeting*. 2013

197. **MS Cohen** and WT Kerr, "*Pattern analysis in the diagnosis of epilepsy*, in *American Society for Neuroradiology 51st annual meeting*: San Diego, CA. 2013. PMCID: PMCID

198. WT Kerr, A Trefler, KR Raman, ES Hwang and **MS Cohen**, "*Quantifying when epilepsy is observable using MRI and FDG-PET*, in *Society for Neuroscience*: San Diego. 2013. PMCID: PMCID

199. N Reggente, **MS Cohen**, Z Zheng, De S N.G., AD Castel, BJ Knowlton and J Rissman, "*Memory recall for high value items correlates with individual differences in white mat- ter pathways associated with reward processing and fronto-temporal communication*, in *Society for Neuroscience Annual Meeting*: San Diego. 2013. PMCID: PMCID

200. H Xia, D Ruan and **MS Cohen**. "*BCG Artifact Removal for Reconstructing Full-scalp EEG inside the MR Scanner*." in *Pattern Recognition in NeuroImaging*. Philadelphia, PA. 2013

201. A Anderson, W Kerr, P Douglas and **MS Cohen**. "*Modeling and Measuring the Placebo Effect in Craving and Nicotine Addiction Using fMRI*." in *Organization for Human Brain Mapping 2oth annual meeting*. Hamburg, Germany. 2014

202. PK Douglas, AA Anderson, WT Kerr and **MS Cohen**. "*Investigating the Spectrally Dependent Relationship between EEG and fMRI Signals*." in *Organization for Human Brain Mapping 20th annual meeting*. Hamburg, Germany. 2014

203. WT Kerr, AY Cho, ST Nguyen, NM Reddy, DHS Silverman, N Salamon, JM Stern and **MS Cohen**. "*Interictal metabolic alterations in patients with psychogenic non-epileptic seizure*." in *Organization for Human Brain Mapping 20th annual meeting*. Hamburg, Germany. 2014

204. WT Kerr, EA Janio, CT Braesch, JM Hori, JM Le, KR Raman, AB Patel, SE Barritt, ES Hwang, EC Davis, D Torres-Barba, J Jerome Engel, JM Stern, N Salamon and **MS Cohen**. "*Diagnosing Seizure Disorder by Understanding Patterns of Comorbidities and Pharmaceutical Management*." in *American Epilepsy Society 68th Annual Meeting*. Seattle, WA. 2014.

205. A Lenartowicz, GV Simpson, SR O'Connell, SLM Noah, AL Head, RM Bilder, JT McCracken, SY Bookheimer, R Reid and **MS Cohen**. "*New EEG measures reveal infra-slow fluctuations in both attending and ignoring in adults with ADHD that provide high accuracy in discriminating ADHD from control.*" in *Society for Neuroscience 45th Annual Meeting*. Chicago. 2015 (*submitted*)