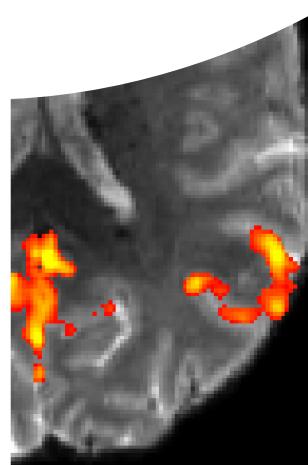
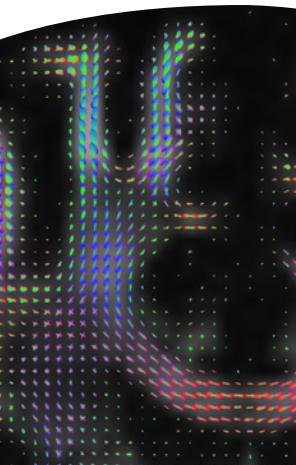


PROGRAM

4th Biennial Conference

on

Resting State Brain Connectivity



11-13 SEPTEMBER 2014

Technical advances and methodological issues
in measuring functional and structural brain
connectivity: multimodal human imaging
methods, animal models, and applications
in neurological and psychiatric diseases.

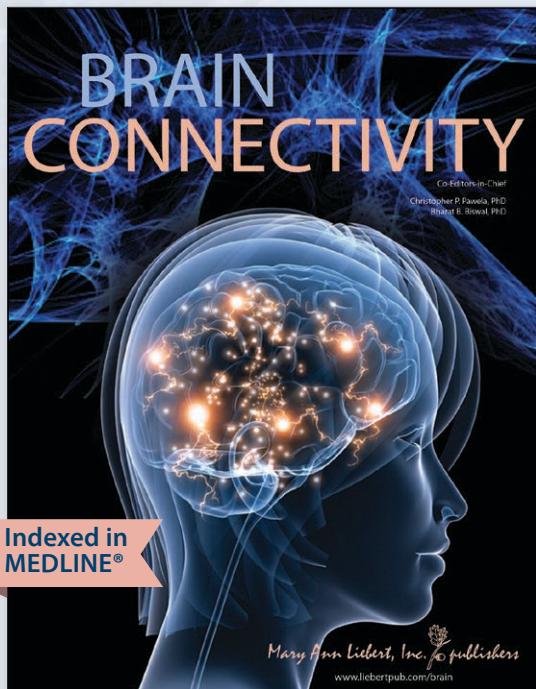


Cambridge, MA USA

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Exploring Critical Advances in Brain Connection Research

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- * Led by Co-Editors-in-Chief **Christopher P. Pawela, PhD** and **Bharat B. Biswal, PhD**

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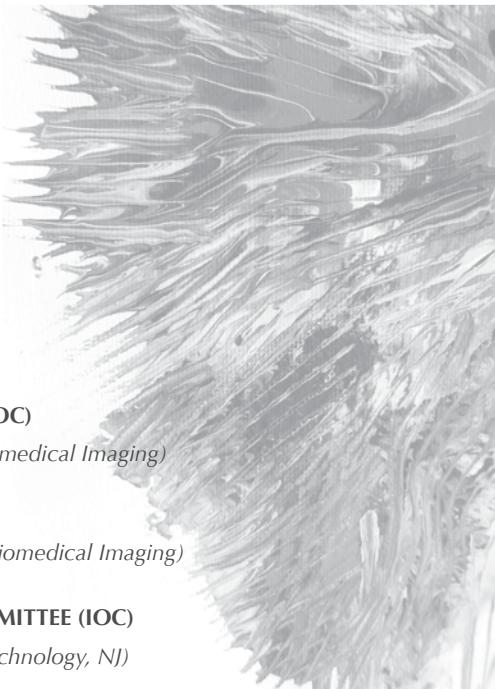
Mary Ann Liebert, Inc.  publishers

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Artwork on pages 4, 23, 43, and 46 by Hulya Kara (hulyakaraya@gmail.com)

VENUE AND DATE

Kresge Auditorium
Building W16
48 Massachusetts Ave
MIT, Cambridge, USA
11-13 September 2014



Hulya Kara

LOCAL ORGANIZING COMMITTEE (LOC)

Koene Van Dijk (*Martinos Center for Biomedical Imaging*)
Satrajit Ghosh (*MIT*)
Michael Fox (*Harvard Medical School*)
Anastasia Yendiki (*Martinos Center for Biomedical Imaging*)

INTERNATIONAL ORGANIZING COMMITTEE (IOC)

Bharat Biswal (*New Jersey Institute of Technology, NJ*)
Mark Lowe (*Cleveland, OH/US*)
Christopher Pawela, PhD (*Milwaukee, WI/US*)
Martin Walter (*Otto V. Guericke University, Magdeburg, Germany*)

CONFERENCE ORGANIZATION

MIT Conference Services
Conference website: **www.restingstate.com**

ABSTRACT COMMITTEE

Koene Van Dijk (Chair)	Lisa Nickerson
Sheeba Arnold	Christopher Pawela
Eric Beall	Moriah Thomason
Bharat Biswal	Lucina Uddin
Michael Fox	Martijn van den Heuvel
Satrajit Ghosh	Martin Walter
Vesa Kiviniemi	Susan Whitfield-Gabrieli
Katherine Koenig	Anastasia Yendiki
Stephen Laconte	Yufeng Zang
Mark Lowe	

DEAR COLLEAGUES,

It is my pleasure to welcome you to the Fourth Biennial Conference on Resting State/Brain Connectivity.

Initiated in 2008, with prior meetings in Magdeburg (2008, 2012) and Milwaukee (2010), this conference has grown in intellectual scope and size. While maintaining its initial focus on the analysis of resting state fMRI to reveal the intrinsic functional organization of the brain, the conference now considers all aspects of brain connectivity, including structural connectivity, multimodal integration, and emerging technologies. The conference aims to convene the international community of researchers who analyze brain connectivity in order to discover the organization of the brain in both health and disease.

We welcome to MIT approximately 500 conference attendees, 50 speakers, and more than 300 poster presentations. The organization of the conference is aimed to create a shared and interactive intellectual environment with 50 outstanding platform presentations from many of the world leaders in brain connectivity.

Topics range from the physiological and cellular bases of functional and structural brain connectivity, to data acquisition and analysis strategies, to the understanding of how the brain works and how the brain works differently in major neurological and neuropsychiatric diseases. We include a session about the remarkable advances in laboratory studies of brain organization in animals that has increasing relevance for conceptualizing and verifying brain connectivity in humans. Approximately one third of the conference is dedicated to applications of brain connectivity methods and models to neurological and psychiatric diseases.

We hope that the speaker presentations, poster sessions and the conversations stimulated by these presentations will help us integrate research findings and motivate new collaborations and ideas for future research.

The times are unprecedented in their hope and ambition of a deeper understanding of the brain and a translation of that understanding into help for millions who have brain disorders. Throughout the world, nations and international communities have identified progress in understanding the brain as a road to the betterment of society and its individuals. New technologies and freely available large data sets provide remarkable opportunities for advancement in brain science and brain health. This is a galvanizing moment to collectively consider what we know, and what we need to do next. On behalf of all the organizers, I hope you will enjoy an exciting conference.

**Susan Whitfield-Gabrieli***Conference Chair*

McGovern Institute, MIT

VENUE AND DATE Kresge Auditorium
 MIT, Cambridge, MA, USA
 11-13 September 2014

DAYTIME SCHEDULE**Thursday**

Continental Breakfast & Registration	7:00 – 8:00 am
Opening Remarks	8:00 – 8:10 am
Platform Presentations	8:10 – 5:00 pm
	<i>Break 9:30 am / Lunch 11:55 am</i>
Poster Presentations	2:15 – 3:20 pm
Industrial Exhibitions	8:00 – 5:00 pm

Friday

Continental Breakfast & Registration	7:00 – 8:00 am
Platform Presentations	8:00 – 5:00 pm
	<i>Break 9:20 am / Lunch 11:45 am</i>
Poster Prize Session	2:05 pm
Poster Presentations	2:25 – 3:30 pm
Industrial Exhibitions	8:00 – 5:00 pm

Saturday

Continental Breakfast & Registration	7:00 – 8:00 am
Platform Presentations	8:00 – 4:20 pm
	<i>Break 9:20 am / Lunch 11:40 am</i>
Poster Presentations	1:45 – 2:50 pm
Industrial Exhibitions	8:00 – 5:00 pm
Closing Remarks	4:20 – 4:30 pm

INDUSTRIAL EXHIBITION

There is an accompanying industrial exhibition. The exhibitors are looking forward to welcoming you to present their comprehensive range of innovative products. The exhibitions are in the lobby of the Kresge Auditorium.

WIRELESS INTERNET

MIT offers complimentary wireless access to guests. For wireless connections, visitors need to make sure their wireless card is on and enabled. Select MIT GUEST as the wireless network option. A connection will occur without registration. If you experience any difficulty connecting, you may contact the MIT IS&T Help Desk during regular business hours (8:00 am to 6:00 pm) at 617-253-1101.

BADGE

Please be sure to wear your badge for all conference sessions and events.

EMERGENCY SERVICES

For emergency services while on campus, dial 617-253-1212 or 100 from any campus phone. MIT Campus Police will answer your call.

SMOKING POLICY

In accordance with the City of Cambridge's smoking ordinance, smoking is prohibited in all academic, administrative and service buildings on campus.

GENERAL TIPS FOR PRESENTERS

PRESENTERS

A PC laptop and laser pointer are available at the speaker's podium in the Kresge Auditorium. A technical supervisor can help you load your presentation onto the laptop. It is also possible to connect your own PC or laptop.

SPEAKING TIME

Please prepare your presentation for the allotted amount of time. Chairs and moderators may interrupt should you overrun your time limit. Speaking time is assigned as follows (speaking + discussion time):

1. Keynote 35 + 5 minutes
2. Lectures 15 + 5 minutes

POSTER SESSIONS

Poster sessions are scheduled for Thursday, Friday and Saturday.

Location: Sala de Puerto Rico, second floor of the Stratton Student Center

- Posters should be prepared in portrait orientation (i.e. not landscape).
- Dimensions of each poster should be 3 ft wide x 3.75 ft high (=38x45 in, 96x114cm).
- Posters should be mounted with pushpins that will be provided.
- Each poster should be mounted on its poster board between 7:00 am and 8:00 am on the morning of the designated day of that poster to get maximum exposure.
- Each poster should be removed from the poster board after the poster session but not later than 6:00 pm on the designated day of that poster. Any posters still mounted at 6:00 pm will be discarded.
- Presenting authors are required to be present at their poster during the assigned presentation session.

LOCATION: Kresge Auditorium
MIT – Building W16
48 Massachusetts Avenue
Cambridge, MA 02139

TECHNICAL ADVANCES AND METHODOLOGICAL ISSUES REGARDING RESTING-STATE FMRI.

- 7:00 AM Continental breakfast + registration at Kresge Auditorium
8:00 AM Opening

Emerging technologies

Session Chair: LAWRENCE WALD

- 8:10 AM **Karl Zilles** (Forschungszentrum Jlich)
Ultra-high resolution imaging of single fibers, fiber tracts and myeloarchitecture in human and non-human brains
- 8:30 AM **Kamil Ugurbil** (University of Minnesota)
The state of resting state in the Human Connectome Project
- 8:50 AM **Ed Boyden** (Massachusetts Institute of Technology)
Tools for systematically mapping brain computations
- 9:10 AM **Kwanghun Chung** (Massachusetts Institute of Technology)
CLARITY and beyond: tools for integrated brain mapping
- 9:30 AM Break

Acquisition

Session Chair: TODD CONSTABLE

- 9:50 AM **YuFeng Zang** (Hangzhou Normal University)
Mapping the local activity by resting-state ASL- and BOLD-fMRI.
- 10:10 AM **Gary Glover** (Stanford University)
Intrinsic networks at temporal frequencies beyond 0.1 Hz
- 10:30 AM **Peter Bandettini** (National Institute of Mental Health)
Resting-state based brain reading, de-noised time series, and sub-cortical network mapping
- 10:50 AM **Larry Wald** (A.A. Martinos Center for Biomedical Imaging)
High speed and high resolution acquisition approaches for resting-state functional connectivity

- 11:10 AM **Stephen Cauley** (A.A. Martinos Center for Biomedical Imaging)
 Advancement of Simultaneous Multi-slice Imaging for Functional
 and Structural Connectivity: MGH-Siemens Collaboration
Introduction by Keith Heberlein, Siemens Healthcare

11:55 AM Lunch

Analysis

Session Chair: CHRISTIAN BECKMANN

- 12:55 PM **Xiaoping Hu** (Emory University)
 Probing further into the dynamics of resting state fMRI data
- 1:15 PM **Koene Van Dijk** (A.A. Martinos Center for Biomedical Imaging)
 Feasibility of high-gradient structural connectivity MRI across the lifespan
- 1:35 PM **Stephen LaConte** (The Virginia Tech Carilion School of Medicine)
 Sampling rare events in the state space dynamics of resting state networks
- 1:55 PM **Christian Windischberger** (Medical University of Vienna)
 RESCALE revisited: group level benefits at 3T and 7T
- 2:15 PM **POSTER SESSION 1** (all posters containing "A" in their Poster ID)

Connectomics I

Session Chair: KAMIL UGURBIL

- 3:30 PM **Bruce Fischl** (A.A. Martinos Center for Biomedical Imaging)
 Ultra-high resolution ex vivo microscopy: finding nodes and
 tracing wires in human brain networks.
- 3:50 PM **Randy Buckner** (Harvard University)
 How modern human connectomics was uniquely positioned
 to map the cerebellum
- 4:10 PM KEYNOTE
David Van Essen (Washington University)
 Insights into brain structure, function, and connectivity
 emerging from the Human Connectome Project
- 4:50 PM **End of lectures Day 1**
- 6:30-10:00 PM **Dinner at the Museum of Science | The James Hyde Lecture:**
with dinner speaker Dr. Karl Friston (University College London)
 On the intimate relationship between functional and
 effective connectivity
Bus Transportation
 6:00 pm from Kresge Auditorium / Return beginning at 9:00 pm

LOCATION: Kresge Auditorium
MIT – Building W16
48 Massachusetts Avenue
Cambridge, MA 02139

STRUCTURAL BRAIN CONNECTIVITY / MULTI-MODAL APPROACHES / ANIMAL MODELS

7:00 AM Continental breakfast at Kresge Auditorium

Complex Networks

Session Chair: **BHARAT BISWAL**

8:00 AM **Martijn van den Heuvel** (University Medical Center)
An anatomical rich club infrastructure for functional communication
and integration in the human connectome

8:20 AM **Daniel Margulies** (Max Planck Institute)
The convergence of cortical structure and network topology

8:40 AM **Xin Di** (New Jersey Institute of Technology)
Modulatory interactions of resting-state brain functional connectivity

9:00 AM **Christian Beckmann** (Donders Centre for Cognitive Neuroimaging)
Investigating fMRI using Independent Component Analysis

9:20 AM Break

Multi-modal

Session Chair: **MARK LOWE**

9:40 AM **John Gore** (Vanderbilt University)
Resting state connectivity in the spine and white matter

10:00 AM **Ching-Po Lin** (National Yang-Ming University)
Combining dMRI and fcMRI in the human brain network analysis

10:20 AM **Vesa Kiviniemi** (University of Oulu)
DC-potential oscillations and cardiorespiratory activity in
multimodal MREG data

10:40 AM **Vince Calhoun** (University of New Mexico)
Multivariate methods for characterizing variability in spatial
and temporal connectivity among intrinsic brain networks

11:00 AM	Martin Walter (Otto v. Guericke University) Metabolic underpinnings of resting state connectivity
11:20 AM	GE: Ajit Shankaranarayanan (GE Healthcare) Advances in Quantitative Imaging Tools for Neuroscience
11:45 AM	Lunch

Animal*Session Chair: CHRISTOPHER PAWELA*

12:45 PM	Shella Keilholz (Emory University School of Medicine) Electrophysiological correlates of functional network dynamics
1:05 PM	Christopher Pawela (Medical College of Wisconsin) Genetic and physiological influence on resting state connectivity in rat
1:25 PM	James Hyde (Medical College of Wisconsin) Functional connectivity in rat brain at 200 micron resolution
1:45 PM	Rasmus Birn (University of Wisconsin-Madison, WI) Functional connectivity in non-human (and human) primates
2:05 PM	Poster prize session
2:25 PM	POSTER SESSION 2 (all posters containing "B" in their Poster ID)

Connectomics II*Session Chair: DAVID VAN ESSEN*

3:40 PM	Maurizio Corbetta (Washington University) The effect of focal lesions on the functional organization of the brain measured with resting state fMRI
4:00 PM	Bharat Biswal (New Jersey Institute of Technology) Brain at rest vs brain at work: differences in network configuration
4:20 PM	KEYNOTE Bruce Rosen (A.A. Martinos Center for Biomedical Imaging) Insights into connectional anatomy and white matter microstructure from the Connectom 300 mT/m scanner
	Van J Wedeen (AA Martinos Center Harvard-MGH) Congruent organization of fiber architecture in cerebral white matter and gray matter from axonal to macroscopic scales
5:00 PM	End of lectures Day 2
5:00-8:00 PM	Networking Reception at Kresge Auditorium

LOCATION: Kresge Auditorium
MIT – Building W16
48 Massachusetts Avenue
Cambridge, MA 02139

APPLICATIONS IN NEUROLOGICAL AND PSYCHIATRIC DISEASES

7:00 AM Continental breakfast at Kresge Auditorium

Typical and atypical development

Session Chair: XAVIER CASTELLANOS

8:00 AM **Moriah Thomason** (Wayne State University)
Emerging functional neurocircuitry in the human fetus

8:20 AM **Lucina Uddin** (University of Miami)
Functional organization of brain networks in children
with hemispherectomy

8:40 AM **Michael Milham** (Child Mind Institute)
Unraveling the miswired connectome:
A developmental perspective

9:00 AM **Michael Chee** (Duke-NUS Graduate Medical School)
Predicting vulnerability to sleep deprivation with
resting-state connectivity

9:20 AM Break

Psychiatry I

Session Chair: HELEN MAYBERG

9:40 AM **Qiyong Gong** (Sichuan University Hospital)
MR Psychiatric Imaging: A Multimodal Approach

10:00 AM **Susan Whitfield-Gabrieli** (Massachusetts Institute of Technology)
Pre-treatment intrinsic functional and structural brain connectivity
predicts clinical outcome in social anxiety disorder

10:20 AM **Elliot Stein** (National Institute of Drug Abuse)
Network and circuit modifications in nicotine addiction

10:40 AM **Xavier Castellanos** (NYU Langone Medical Center)
Towards HD clinical functional connectomics: How do we harness
the exquisite resolutions of the HCP to attain clinical relevance?

11:00 AM

KEYNOTE

Thomas Insel (National Institute of Mental Health)
From connectomes to biomarkers

11:40 AM

Lunch

Psychiatry II*Session Chair: MARTIN WALTER*

12:45 PM

Mark Lowe (Cleveland Clinic)

HARDI and rs-fMRI connectivity measures correlate with cognitive deficits in MS

1:05 PM

Michael Fox (Harvard Medical School)

Using brain networks to guide brain stimulation

1:25 PM

Helen Mayberg (Emory University School of Medicine)

Defining depression subtypes using resting State fMRI

1:45 PM

POSTER SESSION 3 (all posters containing "C" in their Poster ID)**Aging and Alzheimer's disease***Session Chair: MICHAEL MILHAM*

3:00 PM

Reisa Sperling (Brigham and Women's Hospital)

Functional network disconnection in aging and preclinical Alzheimer's disease

3:20 PM

Shi-Jiang Li (Medical College of Wisconsin)

Aging modulation on the functional effects of APOE Polymorphism

3:40 PM

Yong He (Beijing Normal University)

Identifying and mapping connectivity patterns of brain Network hubs in Alzheimer's disease

4:00 PM

Cheryl Grady (Rotman Research Institute-Toronto, Canada)

Functional connectivity in healthy aging

4:20 PM

Closing & Farewell

4:30 PM

End of 3-day conference

2:15–3:15PM (all posters containing “A” in their Poster ID)

Theme 1: TECHNICAL ADVANCES AND METHODOLOGICAL ISSUES REGARDING RESTING-STATE FMRI

- | ID | Abstract Author(s) / Abstract Title |
|-----|---|
| 1A | S.A. Anteraper, C. Triantafyllou, M.R. Geddes, A.T. Mattfeld, J. Gabrieli, and S. Whitfield-Gabrieli
Subthalamic Nucleus in the Stop Network: Evidence from resting state functional connectivity MRI |
| 2A | P. R. Baldwin, T. Lal, K. Collins, S. Mathew, J. Murrough, R. Salas
Analysis of depression and the effect of ketamine in depression patients by use of ROIs designed from genetic expression analysis |
| 3A | E.B. Beall, M.J. Lowe
A comparison of existing volumetric and new retrospective slicewise motion metrics: current methods do not reliably identify corruption |
| 4A | R.F. Casseb, G. C. Beltramini, M. Albuquerque, G. Castellano, M.C. França Jr
The size matters: the influence of the size of the posterior cingulate cortex seed on the correlation values of the voxels of the medial prefrontal cortex |
| 5A | E. Damaraju, E.A. Allen, V.D. Calhoun
Impact of head motion on ICA-derived functional connectivity measures |
| 6A | Z. Ding, X. Wu, R. Xu, V.L. Morgan, A.W. Anderson, J.C. Gore
Tracking functional pathways in the human brain using resting state functional magnetic resonance imaging |
| 7A | B. Erem, A. Akhondi-Asl, O. Afacan, S.K. Warfield
Removal of motion-corrupted resting state functional MRI data using dynamic system identification and interpolation of motion-free data |
| 8A | M.D. Fox, T. Qian, J.R. Madsen, D. Wang, M. Ge, H Zuo, Bo Hong, H.Liu
Combining task-evoked and spontaneous activity mapping for pre-operative fMRI |
| 9A | A. M. Golestani, J. J. Chen
Effect of low-frequency physiological noise correction on the reproducibility of resting-state functional connectivity measurements |
| 10A | D.A. Handwerker, J. Gonzalez-Castillo, C. Chang, P.A. Bandettini
Resting state frequency signatures across regions |
| 11A | A. Hoffmann, R. Sladky, M. Spies, D. Pfabigan, M. Küblböck, A. Höflich, K. Paul, A. Hummer, G.S. Kranz, C. Lamm, R. Lanzenberger, C. Windischberger
Frequency-dependency of the default-mode network |

ID	Abstract Author(s) / Abstract Title	2:15–3:15PM
12A	N. Honnorat, H. Eavani, T. D. Satterthwaite, R. E. Gur, R. C. Gur, C. Davatzikos Discrete functional parcellation of the cortex with clustering methods and MRF	
13A	J. Jang, J Gabriel Castrillon, C. Preibisch, V. Riedl, A.M. Wohlschläger Investigation of the dynamics of inter-network brain connectivity from multiband EPI acquisition of resting state fMRI data	
14A	J. Jovicich, L. Minati, R. Marchitelli, G.B. Frisoni, The Pharmacog Consortium Resting state functional connectivity in the default mode network: preliminary evaluation of multicentre test-retest reproducibility	
15A	P. Kohn, J. Czarapata, M. Gregory, S. Kippenhan, N. Turner, K.F. Berman Fine structure of regional network organization revealed by local PCA of resting state data	
16A	H.-L. Lee, J. Assländer, P. LeVan, J. Hennig Dynamic mapping of resting-state network coherence at multiple frequencies	
17A	D. Linsley, S MacEvoy Functional crosstalk between object- and space-encoding brain regions during scene viewing	
18A	D. Mastrovito, S. Hanson, C. Hanson Spatio-Temporal Dynamics of Low Frequency Oscillations in Resting-state fMRI	
19A	A. Michael, M. Anderson, R. Miller, T. Adali, V. Calhoun Application of independent vector analysis for resting state fMRI can better preserve subject specific features	
20A	L.D. Nickerson, S.M. Smith, C.F. Beckmann Why timecourse normalization is crucial in dual regression for assessing functional connectivity	
21A	A. Razi, M. L. Seghier, G. Rees, and K. J. Friston On large DCMs for resting state fMRI	
22A	G.M Rojas, J.A. Fuentes, M. Gálvez, D.S. Margulies Two Intrinsic Functional Connectivity Visualization Mobile Applications: iBraIN and iBraINEEG	
23A	S. Saperstein, R. Sekuler, J.W. Bohland Network signatures of resting state in high-density EEG	
24A	S.Shakil, S.D.Keilholz, C.-H.Lee Evaluation of dynamic analysis methods for characterization of time-varying functional connectivity	

2:15–3:15PM (all posters containing “A” in their Poster ID)

ID Abstract Author(s) / Abstract Title

- 25A H. Shou, A. Eloyan, M.B. Nebel, A.F. Mejia1, J. J. Pekar, S.H. Mostofsky, B. Caffo, M.A. Lindquist, C. Crainiceanu
Shrinkage prediction of seed-voxel brain connectivity using resting state fMRI
- 26A L. C. T. Herrera, H. F. B. Ozelo, A. Alessio, M. S. Oliveira, M. Cordeiro, R. J. M. Covolan, G. Castellano
Evidence of decrease of the network mean degree when healthy volunteers go from resting state to language task
- 27A A. Tourotoglou, J. Andreano, L.F. Barrett, B.C. Dickerson
Hippocampal connectivity to posterior cingulate cortex reliably predicts memory across sessions and age groups
- 28A V. Vuksanovic, P Hovel
Role of remote synchronization and symmetry in indirect interactions in functional correlations between distant cortical regions
- 29A X. Miao, H. Gu, L. Yan, H. Lu, D.J. Wang, X.J. Zhou, Y. Zhuo, Y. Yang
Detecting Intrinsic Brain Activity Using Whole Brain 3D-VASO Imaging
- 30A R.Yuan, X. Di, P.Taylor, S. Gohel, Y.H. Tsai, B.B. Biswal
Intrinsic functional interactions between the thalamus and cortical networks in human

**Theme 2: STRUCTURAL BRAIN CONNECTIVITY /
MULTI-MODAL APPROACHES / ANIMAL MODELS**

- 31A T.M. Arefin, A. Mechling, S.B. Hamida, T. Bienert, H.L. Lee, D.V. Elverfeldt, J. Hennig, B. Kieffer, L.A. Harsan
Alterations of the resting state functional connectivity in the GPR88 knockout mice
- 32A V. Beliveau, D. N. Greve, C. Svarer, V. G. Frokjaer, G. M. Knudsen, P. M. Fisher
Functional connectivity of the dorsal and median raphe nuclei at rest
- 33A I. Blank, E. Fedorenko
The functional dissociation between the language and the cognitive control systems persists in subcortical and cerebellar regions
- 34A K. Casimo, J.D. Wander, F. Darvas, T.J. Grabowski, J.G. Ojemann, K.E. Weaver
Characterizing Network Connectivity with Infraslow Fluctuations of the High Gamma Band Using Electrocorticography

ID	Abstract Author(s) / Abstract Title	2:15–3:15PM
35A	Kai-Hsiang Chuang, Wei-Tang Chang, Hui Chien Tay, Lynn YC Ho, Porshin Ng, Michael R. Hayden, Mahmoud A. Pouladi Functional connectivity mapping in mouse model of Huntington disease	
36A	D. Bajic, M.M. Craig, D. Borsook, L. Becerra Long-term effects in rat resting state networks following postnatal morphine exposure	
37A	E. Florin, S. Baillet Cross-frequency coupling mechanisms in the ongoing resting-state	
38A	L.M. Chen, A. Mishra, F. Wang, J.C. Gore Injury alters the intrinsic functional connectivity of spinal cord grey matter in monkeys	
39A	M.C. Baker, D. Patel, T. Monday, R.C. Anderson, E. Hames. Correlations between DTI structural connectivity and EEG functional connectivity coherence measures in autistic and neurotypical populations	
40A	T. Hiltunen, V. Korhonen, T. Starck, V. Kiviniemi Temporal variation of correlations between EEG low frequency fluctuations and MREG	
41A	C. Karmonik1, A. Verma2, S.H. Fung3 T, R.G. Grossman1 Identification of Brain Networks participating in the Transition from the Default Resting State to an Emotionally Willed Movement	
42A	Z. Liang, X. Liu, N. Zhang Dynamic resting state functional connectivity in awake and anesthetized rodents	
43A	C.J. Lynch, X. You, M. Norr, E.M. Gordon, C. Vaidya Temporoparietal junction connectivity is modulated by attentional state	
44A	K. Ohashi, C.M. Anderson, E. Bolger, C.E. McGreenery, H. McCormack, A. Khan, G. Vitaliano, M.H. Teicher Effects of childhood maltreatment on brain connectivity of the fiber-stream networks	
45A	Y.D. Reijmer, A.P. Schultz, M.E. Gurol, R.A. Sperling, S.M. Greenberg, A.Viswanathan, T. Hedden Decoupling of structural and functional brain connectivity in older adults with white matter hyperintensities	
46A	Z.M. Saygin, N.G. Kanwisher Structural and functional connectivity fingerprints for face, body, scene, and object perception	

2:15–3:15PM (all posters containing “A” in their Poster ID)

ID Abstract Author(s) / Abstract Title

- 47A A. Sinha, W. G. Roncal, N. Kasthuri, J. W. Lichtman, R. Burns
Automatic Annotation of 3D Axoplasmic Reticula for Neuron Segmentation
- 48A M. Termenon, A. Jaillard, S. Achard, C. Delon-Martin
Hemispheric specialization in men and women using graph theory: a resting-state functional connectivity MRI study in highly educated healthy adults
- 49A H. Wen, Z. Liu
Functional Networks Observed with Scale-Free and Oscillatory Cortical Activity
- 50A M. Yoon, B. Park, H.C.T. Do, C. Pae, J.D. Lee, H.J. Park
MNET : a multimodal network analysis toolbox for the brain

Theme 3: APPLICATIONS IN NEUROLOGICAL AND PSYCHIATRIC DISEASES

- 51A K. Abbas, T.E. Shenk, V.N. Poole, L.J. Leverenez, E.A. Nauman, T.M. Talavage, M.E. Robinson
Hyper-Connectivity in the Default Mode Network (DMN) of Asymptomatic High School Football Athletes as a Result of Repetitive Subconcussive Head Trauma
- 53A C.M. Bauer, B.B. Koo, L. Zajac, L.B. Merabet
Occipital networks in the blind and visually impaired
- 54A D.J. Walder, J.D. Coplan, C.Y. Tang, V. Wang, E.F. Walker, J. Kaufman, B. Yaffe, Y. Ehrlich, L.H. Ospina
Functional connectivity biomarkers of depression risk: Resting state activity in relation to mood and stress among healthy youth
- 55A D.J. Bos, T.R. van Raalten, B. Oranje, A.R. Smits, N.A. Kobussen, J. van Belle, S.A.R.B. Rombouts & S. Durston
Resting-State Networks in Autism Spectrum Disorder
- 56A J. Cha, J.E. Steinglass, J. Posner
Increased corticostriatal functional and structural connectivity in Anorexia Nervosa
- 57A K. Choi, P. Riva-Posse, P. E. Holtzheimer, C. McIntyre, R. Gross, S. J. Garlow, J. K. Rajendra, H. S. Mayberg
Prospective Target Selection Based on Structural Connectivity Pattern for Subcallosal Cingulate Deep Brain Stimulation

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58A	K.R. Cullen, M. Westlund, B. Klimes-Dougan, B.A. Muller, A. Houri, L.E. Eberly, K.O. Lim Change in amygdala circuitry with treatment in adolescent depression	
59A	M. Datko, I. Fishman, Y. Cabrera, R. Carper, R.-A. Müller Functional overconnectivity accompanied by anatomical white matter compromise of the imitation network in children with autism	
60A	D. Devakumar, M.B. Anila, J.B. Jeeva Epileptic Source Localization using Regional Homogeneity from Resting State-fMRI	
61A	K. Farrant and L.Q. Uddin Asymmetric Development of Dorsal and Ventral Attention Networks In the Human Brain	
62A	A.S. Fischer, S. Whitfield-Gabrieli, R.M. Roth, M.F. Brunette, A.I. Green Effects of cannabis and THC on reward circuitry in patients with schizophrenia and cannabis use disorder.	
63A	T. Gandhi, P. Swami, A. Kalia, V. Mahajan, M. Meng, S. Gorlin, S. Ganesh, S. Whitfield- Gabrieli, P. Sinha Emergence of resting state functional connectivity across face selective cortical regions in congenital late sight-onset blind individuals	
64A	Y.Yan, J.-H. Gao, J.Ge Effective connectivity during the processing of intelligible speech in Chinese: a Granger causality analysis study	
65A	R. Goya-Maldonado, K. Weber, S. Trost, E. Diekhof, M. Keil1, P. Dechent, O. Gruber Aberrant large-scale networks differentiate unipolar from bipolar depression	
66A	D.L. Harrington, M. Rubinov, S. Durgerian, L. Mourany, C. Reece, K. Koenig, M.J. Lowe, J.D. Long, J.S. Paulsen, E. Bullmore, S.M. Rao Topological and functional connectivity disturbances precede the onset of Huntington disease	
67A	T.J. Herron, A.U. Turken Characterizing chronic stage acquired brain injury using a white matter distance-based energetic cost measure of fMRI resting-state cortical connectivity	

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ID Abstract Author(s) / Abstract Title

- 68A M.H. Hunter, V.P. Clark, V.D. Calhoun, C. Wootton, Y. Chen, J.C. Edgar, M.X. Huang, B. Howell, and J.M. Cañive
Intrinsic network connectivity differentially predicts sub-components of executive attention in patients with schizophrenia and bipolar disorder
- 69A J. Jang, C. Sorg, D. Schwerthöfer, J. Bäuml, V. Riedl, A.M. Wohlschläger
Single-session effects of electroconvulsive therapy on the dynamics of functional inter-network connectivity in major depressive disorder: a resting-state fMRI study
- 70A Himanshu Joshi, John P. John, Srikala Bharath, Rakesh B, Shilpa S, Jitendra Saini, Mathew Varghese
Functional connectivity at rest in amnestic mild cognitive impairment- A functional magnetic resonance study
- 71A R.H. Kaiser, S. Whitfield-Gabrieli, F. Goer, M. Beltzer, D.A. Pizzagalli
Temporal dynamics of neural network dysfunction in Major Depressive Disorder
- 72A D.N. Kennedy, T.V. Mitchell, S.M. Hodge, D. Cochran, J.A. Frazier
Altered Interhemispheric Resting-State Connectivity in Autism
- 73A Sara Kimmich, Sanja Kovacevic, Lisa T. Eyler
Sex Differences in the Resting State Brain Co-activity of Bipolar I Disorder
- 74A K.A. Koenig, M.J. Lowe, J. Lin, D.L. Harrington, K.E. Sakaie, J.S. Paulsen, S.M. Rao
Functional connectivity from the primary motor cortex to the posterior cingulate is dependent on genetic burden in prodromal HD
- 75A M.A. Kriegsman, N. Kovacevic, A.R. McIntosh, C. Grady, H.A. Abdi
Default mode and task positive subnetworks across age
- 76A S. Kurth, M.A. Bahri, E. Moyse, C. Bastin, E. Salmon
Functional connectivity and recognition of familiar faces in Alzheimer’s disease
- 77A D.Y. Kim, J.H. Lee
Non-Resting-State fMRI Data Analysis via Default-Mode Networks: Feasibility Study
- 78A Y.H. Li, Y.J. Hong, Y.T. Ko , P.J. Tsai , P.C. Hung , C.W. Wu
Investigating local changes of EEG and fMRI spectral power in multiple sleep stages
- 79A S.B. Lowen, C.M. Anderson, E. Bolger, C.E. McGreenery, H. McCormack, M.H. Teicher
Effects of type and timing of childhood maltreatment on volume of ICA-based functional connectivity networks

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80A	T. Maloney, J. Tenney, J.P. Szaflarski, K.C. Hibbard, J. Vannest Centrotemporal Spike Networks in Children with BECTS	
81A	J. H. Manning, L. G. Grove, J. D. Sakhardande, T. A. Ricard, P. Srivastava, M. E. Thomason Fetal functional connectivity and infant behavior: A preliminary report.	
82A	A.K. Martin, G. Robinson, Reutens, D. Mowry, B. Copy number deletions in schizophrenia: the relationship between mutation load, cognition, and functional connectivity of resting-state networks	
83A	D.G. McLaren, R.A. Sperling, A. Atri A Biomarker Signal: Context-Dependent fMRI Connectivity Analysis of Clinical Trial Measures in AD	
84A	S. Modi, M. Kumar, C. P. Jeenger, P. Kumar, S. Khushu Aberrant functional connectivity of resting state networks associated with trait anxiety Aberrant functional connectivity of resting state networks associated with trait anxiety	
85A	L.S. Morris, P. Kundu, M.A. Irvine, T.W. Robbins, E.T. Bullmore, V. Voon Cortical-subcortical circuits underlying parallel behavioural control systems	
86A	D.E. Nathan, P.H. Yeh, J.L. Graner, W. Liu, T.R. Oakes, G. Riedy To what extent do abnormal default mode network cerebellar activations coincide with mTBI impairments ?	
87A	F. Orliac, N. Delcroix, M. Naveau, P. Delamillieure, M. Joliot Network modeling of resting state connectivity points towards the bottom up theories of schizophrenia	
88A	S.J. Peltier, M.G. Berman, M.K. Askren, B. Misic, M.S. Jung, A.R. McIntosh, L. Ossher, M. Zhang, P.A. Reuter-Lorenz, B. Cimprich Resting-state connectivity changes in women with breast cancer	
89A	N.S. Philip, S.L. Carpenter, L.H. Sweet, H.T. Kao, B. Porton, L.H. Price, L.L. Carpenter and A.R. Tyrka Telomere Length Is Associated With Altered Amygdala Resting State Functional Connectivity	
90A	Z. Qi, Y. Wang, Q. Liu, C. de los Angeles, S. Whitfield-Gabrieli, J. D. E. Gabrieli Foreign Language Learning Experience Enhances Inter-hemispheric Functional Connectivity	
91A	S. Ray, S. Gohel, B. Biswal Reduced intra- and inter-hemispheric resting state functional connectivity in chronic cocaine smokers	

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- 92A A. Rigon, M.C. Duff, M.W. Voss
Does traumatic brain injury lead to a functionally split brain? A study of resting state networks following traumatic brain injury
- 93A Z. Samara, E.A.T. Evers, H.B.M. Uylings, G. Rajkowska, J.G. Ramaekers, P. Stiers
Can graph-theory parcellation schemes based on resting state functional connectivity inform us about depression disease and vulnerability status?
- 94A A. K Saunders, J. P Hamm, K. E Waldie, I. J Kirk
Resting state connectivity in high functioning autism and ADHD using EEG coherence: A preliminary study
- 95A D. Shah, E. Jonckers, I. Blockx, F. Kara, S. Rossner, M. Verhoye, A. Van der Linden
Modulation of the Default-Mode-Network in the mouse brain using functional connectivity MRI
- 96A A.K. Shinn, J.T. Baker, K.E. Lewandowski, D. Öngür
Abnormal Cerebellum Functional Connectivity in Schizophrenia
- 97A M. Sikora, M. Peciña, E. Avery, B. J. Mickey, J. Zubieto
Placebo effect on resting-state subgenual cingulate functional connectivity in Major Depressive Disorder
- 98A K.C. Skatun, L.T. Westlye, O.A. Andreassen
Reduced frontostriatal functional connectivity in schizophrenia revealed by eigenvector centrality mapping
- 99A B. Sundermann, S. Feder, H. Wersching, A. Teuber, H. Kugel, W. Heindel, K. Berger, B. Pfleiderer
A disenchanting attempt to use resting state fMRI as a diagnostic biomarker of major depression in a clinically realistic sample
- 100A B.C. Taber-Thomas, S. Morales, K.E. Perez-Edgar
Default and salience network intrinsic connectivity in behaviorally inhibited children at risk for anxiety
- 101A S.M. Tobyne, D. Boratyn, J.L. Johnson, D.N. Greve, E.C. Klawiter
Surface-based homologous inter-hemispheric connectivity: reliability, validation and relationship with callosal atrophy in multiple sclerosis
- 102A V. Voon, M. Irvine, P. Vertex, P. Bandettini, E.T. Bullmore, P. Kundu
Multi-echo atlas of seed-based functional connectivity

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103A	M. Weiler, B.M. de Campos, M.H. Nogueira, C.V.L. Teixeira, B.P. Damasceno, F. Cendes, M.L.F. Balthazar Differences and the Relationship in DMN Intrinsic Activity and Functional Connectivity in Mild AD and aMCI	
104A	B.L. Klaassens, H. van Gorsel, N. Mahani, J. van der Grond, M. van Buchem, B. Whitcher, B.T. Wyman, J.M.A. van Gerven, S.A.R.B. Rombouts Single-dose serotonergic stimulation shows widespread effects on functional brain connectivity	
105A	Diane Yan, Omar Singleton, Sara W. Lazar Stress in the spontaneous brain activity: a resting state fMRI study of individual variability and vulnerability	
106A	J.J. Yang, H.K. Kwon, H.J. Kim, S.W. Seo, DL. Na, J.M Lee Identifying cortical brain connections using cortical morphological pattern and structural connectivity in pure subcortical vascular dementia and Alzheimer's disease	
107A	X. You, M. Norr, E. Murphy, W.D. Gaillard, L. Kenworthy, C.J. Vaidya Local efficiency is sensitive to social functioning and Autism Spectrum Disorder	
108A	S. Zhang, S. Hu, S.R. Bednarski, E. Erdman, C.R. Li Thalamic dysfunction in cocaine dependence – a framework for functional connectivity analysis	
109A	C. Mastropasqua, B. Sonia, M. Bozzali, M. Mancini, C. Caltagirone, M. Cercignani, G. Koch Theta burst stimulation of the precuneus induces resting state functional changes in the left temporal pole	



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Theme 1: TECHNICAL ADVANCES AND METHODOLOGICAL ISSUES REGARDING RESTING-STATE FMRI

- | ID | Abstract Author(s) / Abstract Title |
|-----|---|
| 1B | T. Aso, S. Urayama, H. Fukuyama
Differential effect of ICA denoising on gradient-echo and spin-echo BOLD fcMRI |
| 2B | R.L. Barry, S.A. Smith, A.N. Dula, J.C. Gore
Resting state functional connectivity in the human spinal cord at 7 Tesla |
| 3B | Billings, Jacob; Medda, Alessio; Keilholz, Shella
A method for assessing the similarity between resting state networks |
| 4B | J.H. Cha, H.J. Jo, D.K. Lee, J.M. Lee
Functional connectivity based parcellation of posterior cingulate cortex |
| 5B | X. Di, R. Yuan, B. B. Biswal
Modulatory interactions between the thalamus and visual cortex in resting-state are modulated by eye open/closed conditions |
| 6B | H.C.T. Do, M. Yoon, J.I. Kim, H. J. Park
Hub crosslinks in resting state fMRI |
| 7B | E.S. Finn, M.D. Rosenberg, X. Shen, D. Scheinost, X. Papademetris, M.M. Chun, R.T. Constable
Resting-state brain networks predict working memory and sustained attention across individuals |
| 8B | N.K. Aurich, A.M. Marques da Silva, A.R. Franco
Comparing Scrubbing Strategies and how they Affect Graph Theoretical Measures in Resting State fMRI |
| 9B | J Gonzalez-Castillo, Laura C. Buchanan, Colin W. Hoy, Daniel A. Handwerker, Peter A. Bandettini
Which graph theory metrics best convey information about on-going cognition? |
| 10B | P. Haukeis
The Virtues of Exploration: A Philosophical Framework for Resting State Connectivity and Data-Driven Connectomics Approaches |
| 11B | A. Hoffmann, R. Sladky, M. Spies, D. Pfabigan, M. Küblböck, A. Höflich, E. Seidel, A. Hummer, C. Lamm, R. Lanzenberger, C. Windischberger
Sensitivity of the default-mode network at 7T |

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12B	A.L. Hsu, C.W. Wu, C.P. Lin, J.H. Chen Exploring the feasibility of high-resolution functional connectivity through the perspective of physiological contribution ratio	
13B	M. Joliot, E. Mellet, L. Petit, B. Mazoyer, N. Tzourio-Mazoyer Variability of the inter-hemispheric connectivity of homotopic hemispheric resting-state region pairs: Effects of handedness and sex in a cohort of 414 subjects	
14B	C. Kelly, K. Somandepalli, A. Di Martino, P. Velasco, M.P. Milham, F.X. Castellanos Validity and Reliability of a Proposed New Standard for Resting fMRI Data	
15B	M.Küblböck, A. Hoffmann, A. Hahn, D. Pfabigan, A. Hummer , M.Woletz, R. Sladky, S. Ganger, E. Seidel, R. Lanzenberger, C. Lamm, C. Windischberger Reduction of vascular confounds in fMRI group analysis results using modified RESCALE method	
16B	A.C. Leitão, A.P. Francisco, R. Abreu, P. Figueiredo, L.L. Wald, L.M. Silveira Large functional connectivity network analysis of whole-brain high-resolution resting-state fMRI	
17B	X. Liu, C. Chang, J.H. Duyn A novel, data-driven approach to whole-brain analysis of fMRI network activity	
18B	J. McGonigle, C. Orban, A.R. Lingford-Hughes Choice of affine registration systematically alters apparent seed based synchrony	
19B	R.L. Miller, M. Yaesoubi, V.D. Calhoun Meta-state analysis reveals reduced resting fMRI connectivity dynamism in schizophrenia across multiple multivariate analytic techniques	
20B	C. Orban, A. Santos Ribeiro, A.R. Lingford-Hughes, J. McGonigle On the parcellation of the amygdala in studies of resting state functional connectivity	
21B	B.P. Rogers, D.M. Wilkes, J.C. Gore, Z. Shi, V.L. Morgan A confound between static and dynamic connectivity	
22B	C. Montoya, G.M. Rojas, M. Galvez, J. Cisternas Pattern Approach for brain connectivity using K-means clustering of resting-state fMRI time series using 10-10 EEG related seeds	
23B	S.N. Sarkar, R.R. Rojas, F.A. Barrios, L.C. Shih, R.L. Alterman, E. Papavassiliou, D.B. Hackney and M.D. Fox Structural and resting state functional connectivity mapping in patients with implanted deep brain stimulation electrodes using low-power MRI	

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- 24B Z.Shehzad, C.Kelly, P.T.Reiss, R.C.Craddock, J.W.Emerson, F.X.Castellanos, M.P.Milham
Connectome-Wide Associations Studies for Brain-Phenotype Relationships
- 25B K. Somandepalli, C. Kelly, F.X. Castellanos, X.N. Zuo, M.P. Milham, A. Di Martino
A systematic examination of test retest reliability for R-fMRI metrics in childhood
- 26B Y. Tong, B.deB. Frederick
Denoising fMRI resting state data using systemic evolving regressors
- 27B P.J. Tsai, C.W. Wu, C.P. Lin
Enhancement of BOLD complexity after a long work
- 28B T. Xu, A. Opitz, C. Craddock, X.N. Zuo, M. Milham
Multifaceted characterization of functional gradients in the intrinsic brain
- 29B G.J. Yang, J.D. Murray, G. Repovs, M.W. Cole, A. Savic, M.F. Glasser, C. Pittenger, J.H. Krystal, X-J. Wang, G.D. Pearlson, D.C. Glahn, A. Anticevic
Neuropsychiatric biomarkers hidden in global signal: focus on schizophrenia and bipolar illness
- 30B Qihong Zou, Binke Yuan, Hong Gu, Dongqiang Liu, Danny JJ Wang, Jia-Hong Gao, Yihong Yang, Yu-Feng Zang
Detecting differences between eyes closed and open resting-states using ASL and BOLD fMRI

**Theme 2: STRUCTURAL BRAIN CONNECTIVITY /
MULTI-MODAL APPROACHES / ANIMAL MODELS**

- 31B C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei
Comparing and parcellating voxel-scale multimodal human brain connectivity
- 32B J. Athilingam, J. Jones-Rounds, D.J. Post, B.L. Ganzel, M.K. Belmonte
Temporo-parietal source localisation and functional connections of the N250 emotion-related potential evoked by social and non-social stimuli
- 33B A. Breeden, M. Norr, G. Siegle, C.J. Vaidya
Pupil diameter relates to time-varying BOLD functional connectivity
- 34B C. Chang, D.A. Leopold, M.L. Scholvinck, J.H. Duyn
Electrophysiological and behavioral contributions to the resting-state fMRI signal

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35B	P. Cook, L. Libby, A. Rouse, C. Reichmuth, B. Van Bonn, C. Ranganath, F. Gulland Altered hippocampal connectivity in wild sea lions exposed to a naturally occurring neurotoxin: a resting state BOLD analysis	
36B	A. Custo, D. Van de Ville, M.I. Tomescu, C.M. Michel Large EEG data analysis for estimating microstates at rest in sensor and source spaces	
37B	J.H. Ford, E.A. Kensinger The influence of participant and task characteristics on the relation between functional and structural connectivity	
38B	M. Gorges, H.-P. Müller, V. Rasche, A.C. Ludolph, J. Kassubek 'Resting-state' Functional Connectivity Networks with Underlying Structural White Matter Tracts in the Healthy Elderly	
39B	R. Hardstone, B.A. Diaz, S.-S. Poil, H.D. Mansvelder, K. Linkenkaer-Hansen EEG correlates of cognition during the resting state	
40B	LM. Hsu, J.A. Stark, J.K. Brynildsen, H. Gu, HB. Lu, E.A. Stein, YH. Yang Reproducibility of Resting-State fMRI Data in Rats across Three Months	
41B	S. Kinreich, I. Podlipsky, S. Jamshy, N. Intrator, T. Handler Delineation of functional parts of the salience network concerning intrapersonal/extrapersonal aspects of awareness	
42B	X. Liu, T. Yanagawa, D.A. Leopold, N. Fujii, J.H. Duyn Resting-state ECoG networks persist during loss of consciousness while losing their spectral signature	
43B	A.E. Mechling, T. Arefin, H.-L. Lee, M. Reisert, J. Hennig, D. von Elverfeldt, B. Kieffer, L.-A. Harsan Insight into functional brain connectivity remodeling in mu-opioid receptor knock-out mice	
44B	J.P. Owen, Y.S. Chang, P. Mukherjee The Anatomic Embedding of the Structural Connectome in the White Matter of the Human Brain	
45B	V.Riedl, C.Sorg, A.Drzegza Local Activity Determines Functional Connectivity in the Resting Human Brain: A Simultaneous FDG PET/fMRI Study	
46B	ZY Shi, A Mishra, L Chen, DM Wilkes, VL Morgan, JC Gore, BP Rogers Apparent dynamic changes in resting-state connectivity in somatosensory cortex	

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- 47B R.Siugzdaite, B.Descamps, N.Van Den Berge, G.Wu, P.Van Mierlo, W.Fias, R.Raedt, D.Marinazzo
Lesion to left hippocampus changes functional connectivity according to changes in structure
- 48B G.J. Thompson, W.J. Pan, J.C.W. Billings, J.K. Grooms, S. Shakil, D. Jaeger, S.D. Keilholz
Phase-amplitude coupling indicates independence of infraslow versus high frequency neural electrical activity regarding their relationship to resting state fMRI in rats
- 49B Z. Yang, T. Xu, J. Qiu, X-N. Zuo
Covariance between brain structural and functional metrics
- 50B J. Zhang, A. Touroutoglou, E. Bliss-Moreau, D. Mantini, W. Vanduffel, B.C. Dickerson, L.F. Barrett
Dissociable salience networks in the macaque brain anchored in right anterior insula

Theme 3: APPLICATIONS IN NEUROLOGICAL AND PSYCHIATRIC DISEASES

- 51B S. Alcauter, J.H. Gilmore, J.K. Smith, W. Lin, W. Gao
Resting state functional connectivity abnormality in neonates at genetic risk for schizophrenia, bipolar and mood disorders not otherwise specified
- 52B A.D. Barber, L.A. Jacobson, J.L. Wexler, M.B. Nebel, B.S. Caffo, J.J. Pekar, S.H. Mostofsky
Between-Network Connections Supporting Attentional Control in Children with ADHD
- 53B E.H. Beam, G. Coombs III, E. Boeke, S. Crowell, M. Fava, A. Farabaugh, D.J. Holt, R.L. Buckner, A.J. Holmes
Frontoparietal network connectivity associates with executive functioning deficits in young adults at risk for depression
- 54B A.D. Boes, S.S. Ayache, J.P. Lefaucheur, A. Pascual Leone, M.D. Fox
Predicting the network effects of central pain lesions using resting-state functional connectivity MRI
- 55B M.R. Brier, A.Z. Snyder, A. Mitra, J.C. Morris1, B.M. Ances
Evidence of distinct stages of functional connectivity changes in Alzheimer’s disease

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56B	C.R. Chin Fatt, M. D. Devous, S. Whitfield-Gabrieli, H. Abdi Integrating Functional Connectivity and Cognition to Understand Alzheimer's Disease	
57B	T. Chou, J.M. Hooley Abnormal default mode network activation specific to negative, not positive or neutral, stimuli in currently depressed and recovered depressed individuals	
58B	J.B. Czarampata, D.P. Eisenberg, M. Gregory, C. Hegarty, P.D. Kohn, K.F. Berman Association of resting state fronto-striatal network function with striatal presynaptic dopamine synthesis in humans	
59B	B. Deen, H. Richardson, A. Fulton, R. Saxe, M. Bedny Development of Fronto-Occipital Connectivity in Congenitally Blind Children	
60B	C. Dockstader, S. Gauvreau, J. Piscione, S. Laughlin, T. Cunningham, B. Timmons, Eric Bouffet, S. Doesburg, D.J. Mabbott Exercise increases neural synchrony power in children treated with cranial radiation for brain tumors	
61B	D.C. Farrar, M. Moss, R. Killiany Functional network correlates of impaired executive function in mild cognitive impairment	
62B	C.E. Fulwiler, N. Zhang, J.A. King Mindfulness and resting state connectivity of amygdala	
63B	M. G. García- Gomar, F. Velasco, L. Concha Anatomical connectivity of the prelemniscal radiations: Implications in Parkinson's disease.	
64B	F. Geranmayeh, R.J.S. Wise, R. Leech Connectivity of midline pre-frontal cortex during speech production in aphasic stroke and controls.	
65B	Y. Han, S.E. Lee, D.C. Kim, H.W. Park Resting state analysis of neural dynamics for music therapy with guided imagery and music	
66B	I.M. Haugen, J.M. Carré, H.A. Marusak, T.A. Ricard, J.H. Manning, M.E. Thomason Exogenous testosterone modulates resting state functional connectivity in healthy young men	
67B	S.G. Horovitz, P. Lauro, P. Malone, M Hallett, S. Tinaz Resting-state reorganization in Parkinson's Disease.	

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- 68B A. Ivanova, L.Q. Uddin, and S. de Bode
Functional Organization of Language Networks in Children with Left Hemispherectomy
- 69B J.W. Jeong, A. Kumar, D.O. Kamson, W. Guy, H.T. Chugani, M.E Behen
Altered functional and structural connectivity in children with histories of early deprivation
- 70B Himanshu Joshi, HarshaN Hallahalli, John P John
Resting state fMRI functional connectivity in schizophrenia using an independent components analysis (ICA)-based approach
- 71B K.J. Kallianpur, G.R. Kirk, C.M. Shikuma, T. Blumensath , A.L. Alexander
Decreased local variance of resting-state functional MRI signal correlations in HIV patients may indicate cortical injury
- 72B D. Kessler, M.A. Angstadt, Y. Fang, R.C. Welsh, C. Sripada
Linked Structural and Functional Maturational Lag in ADHD
- 73B V.Kiviniemi, J.Kortelainen, M.Isovargas, T.Siniluoto, E.Sonkajärvi, V.Korhonen, T. Hiltunen, T. Myllylä, T. Seppänen, O. Kuittinen
DC-EEG potential reflects blood brain barrier (BBB) integrity.
- 74B K.A. Koenig, M.J. Lowe, J. Lin, D.L. Harrington, K.E. Sakaie, J.S. Paulsen, S.M. Rao
Default mode connectivity is mediated by genetic burden in prodromal HD
- 75B M. Kumar1, S. Modi1, J. Rajagopalan1, P. Kumar1, S. Khushu1
Empathy deficits in alcohol dependents: evidence from fMRI and functional connectivity analysis
- 76B C. La, P. Mossahebi, V.A. Nair, J. Sattin, M. Chacon, M. Jensen, E.M. Meyerand, V. Prabhakaran
Differential effect of normal aging and ischemic stroke in the deficit of low-frequency fluctuations of the default-mode network
- 77B Julia A. Leonard, Amy S. Finn, Allyson P. Mackey, Carlo de los Angeles, Calvin A. Goetz, John D.E. Gabrieli, Susan Whitfield-Gabrieli
Relation of functional connectivity to cognitive abilities in adolescents from socioeconomically diverse backgrounds.
- 78B Xia Liang, Hong Gu, Betty Jo Salmeron, Yuzheng Hu, Yong He, Elliot Stein, and Yihong Yang
Disrupted network interactions in chronic cocaine dependents as revealed by modular network analysis of resting-state functional MRI

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79B	M. Gorges, J. Heimrath, N., J. Kassubek, Birbaumer, A.C. Ludolph, D. Lulé Dsyregulation of antiparallel task-negative and task-positive network components in the course of neurodegeneration	
80B	Sandhya M, RD Bharath, Rajanikanth P, Neeraj Upadhyay, AK Gupta Imaging of resting state pathological networks in various neuropsychiatric disorders.	
81B	K. Mareckova, L. Holsen, R. Admon, K. Lancaster, S. Whitfield- Gabrieli, J. Goldstein Neural circuitry associated with mood dysregulation in response to stress: shared across psychiatric diagnoses and differs by sex	
82B	V. Balaev, L. Mayorova, A. Petrushevsky, O. Martynova Functional connectivity in chronic stroke compared with normal aging changes	
83B	C. D. Metzger, M. Wiegers, M. Walter, B. Abler, H. Graf Subchronic administration of reboxetine or amisulpride influences local and global resting state activity within the noradrenergic and dopaminergic pathway in healthy volunteers	
84B	L.V. Moran, L.E. Stoeckel, K. Wang, D. Ongur, D.A. Pizzagalli, A.E. Evins Functional Connectivity within Reward Network Regions is Associated with Sensitivity to Reward in Schizophrenia	
85B	M. Gorges, H.-P. Müller, A.C. Ludolph, J. Kassubek Functional Hyper-Connectivity State in Parkinson's Disease Patients Without Cognitive Impairment: Disease-Specific Pathological Process or Adaptive Changes?	
86B	T. Q. Nguyen, B. Baran, K. R. Van Dijk, S. Santangelo, D. S. Manoach, S. Whitfield-Gabrieli Developmental Changes in the Functional Connectivity of the Insular Cortex in Individuals with Autism Spectrum Disorder	
87B	M. Ortega, M.R. Brier, R. Paul, B.M. Ances Effects of HIV on fronto-striatal connectivity in the combination anti-retroviral therapy (CART) era	
88B	S. Peltier, J. Wiggins, L. Swain, Y. Kwak, B. Fling, C. Monk, R. Seidler, S.F. Taylor, R.C. Welsh Support vector prediction of aging using resting-state functional MRI connectivity	

1:45–2:45PM (*all posters containing “C” in their Poster ID*)

- | ID | Abstract Author(s) / Abstract Title |
|-----|--|
| 89B | M. Pincus, M. Prietula, G. Berns
Decoupling between left vIPFC and parahippocampal gyrus during sacred value processing |
| 90B | E. Quattroki Knight, Lisa Nickerson, Steven Lowen, Blaise de Frederick, Xiaoying Fan, Bruce Cohen
Independent component analysis of passive listening reveals alterations in inter-network connectivity that correlate with emotional valence |
| 91B | B.B. Reynolds, T. Chatlos, D.K. Broshek, M. Wintermark, S. Saliba, H.P. Goodkin, T.J. Druzgal
Resting-State Functional Magnetic Resonance Imaging of Subconcussion |
| 92B | M.E. Robinson, R.E. McGlinchey, W.P. Milberg, D.H. Salat
Incorporation of multiple processing strategies increases the diagnostic utility of resting state BOLD acquisitions |
| 93B | N. Samudra, E. I. Ivleva, N. Hubbard, B. Rypma, C.A. Tamminga
Anterior hippocampal-cortical resting-state fMRI dysconnectivity is a psychosis biomarker. |
| 94B | A. Schläpfer, T. Koenig, D. Brandeis
State-dependent functional connectivity disturbance within and between brain networks in children with ADHD |
| 95B | E.E. Shaw, A. Schultz, R.A. Sperling, R.L. Buckner, T. Hedden
Functional connectivity in multiple cortical networks is associated with cognition during aging |
| 96B | J. S. Siegel, L. E. Ramsey, A. Z. Snyder, Ravi V Chacko, K.Q. Weinberger, G. L. Shulman, M. Corbetta
Lesion topography and functional connectivity disruption influence different domains of post-stroke deficit |
| 97B | Simons LE, Pielech M, Erpelding N, Linnman C, Moulton E, Sava S, Lebel A, Serrano P, Sethna N, Berde C, Becerra L, Borsook D
The Responsive Amygdala: Treatment-induced Alterations in Functional Connectivity in Pediatric Complex Regional Pain Syndrome |
| 98B | D.D. Sliva, B. Peysakhovich, Y. Wang, P.E. Grant, N. Gaab, M. Dehaes
Resting state auditory network strength is related to age, brain structure and familial risk for developmental dyslexia in infants |

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99B	B. Sundermann, S. Feder, H. Wersching, A. Teuber, H. Kugel, W. Heindel, K. Berger, B. Pfleiderer Identifying possible subtypes in depression by whole brain data mining - a strategy to refine future diagnostic classification	
100B	S. F. Taylor, Y. Fang, D. Kessler, R. C. Welsh, C. Sripada Evaluating global connectivity in schizophrenia patients	
101B	L. Van Calster, A. D'Argembeau, E. Salmon, F. Péters, S. Majerus Fluctuations of attention network activation during the resting state reflect fluctuations in subjective attentional state.	
102B	A. Hahamy, M. Behrmann, R. Malach The Idiosyncratic brain: Spatial distortion of spontaneous connectivity patterns in adults with Autism Spectrum Disorder	
103B	T.B. Weng, G.L. Pierce, W.G. Darling, D. Falk, V.A. Magnotta, M.W. Voss Acute increases in functional connectivity following physical exercise are associated with cerebrovascular reactivity.	
104B	V.L. Wolf, A.M. Shetty, M.E., A.A. Wilfong, and D.J. Curry How Hypothalamic Hamartoma Induces Multifocal Epilepsy and Global Encephalopathy – As Seen By Resting State Connectivity	
105B	D Yan, C.M. Anderson, E. Bolger, H. McCormack, C.E. McGreenery, K. Ohashi, M.H. Teicher Childhood maltreatment affects spontaneous brain activity in young adults	
106B	J. Yang 1, R. D. Welch 2, Z. Kou3, R. Gattu3, E. M. Haacke3 Neurovascular and Functional Connectivity Changes in Mild Traumatic Brain Injury (mTBI): from Acute Stage to Recovery	
107B	H. Yuan, K.D. Young, R. Phillips, V. Zotev, M. Misaki, J. Bodurka Real-time fMRI neurofeedback training of amygdala modulates resting-state functional connectivity in depression	
108B	L. Zhang, E-Y. Lee, Y. Truong, G. Du, M. Lewis, and X. Huang Resting State Functional Connectivity in non-demented Parkinson's disease	
109B	R.H. Bennett, K. Somandepalli, A. Atasuntseva, A.K. Roy, A. Di Martino Limbic system connectivity in children with ASD in relation to emotional lability	

1:45–2:45PM (*all posters containing “C” in their Poster ID*)

Theme 1: TECHNICAL ADVANCES AND METHODOLOGICAL ISSUES REGARDING RESTING-STATE FMRI

- | ID | Abstract Author(s) / Abstract Title |
|-----|--|
| 1C | C.A. Bagne
A new metric to quantify functional and effective connectivity for individual brains |
| 2C | C.C.C. Bauer, S. Whitfield-Gabrieli, J.A. Brewer, J.L. Díaz, E.H. Pasaye, F.A. Barrios
Revealing brief meditation brain functional connectivity remnants |
| 3C | M.G. Bright, J. Whittaker, I. Driver, K. Murphy
Spatially coupled brain networks of neural and vascular origins |
| 4C | R.C. Craddock, A. McDonald, J. Lisinski, P. Chiu, H. Mayberg, S. LaConte
Using Real-Time fMRI Based Neurofeedback to Probe Default Network Regulation |
| 5C | X. Di, B.B. Biswal
Task related brain networks derived from trial-by-trial variability of a slow event-related designed Flanker task |
| 6C | Harini Eavani, Theodore D. Satterthwaite, Raquel E. Gur, Ruben C. Gur, Christos Davatzikos
Sparse Connectivity Patterns in Resting State fMRI |
| 7C | F.A. Fishburn, M.E. Norr, A.V. Medvedev, C.J. Vaidya
Delineation of intrinsic connectivity networks from resting-state fNIRS signals |
| 8C | S.R. Gohel, B.B. Biswal
Functional integration between brain regions at rest occurs in multiple-frequency bands |
| 9C | K.S. Gopinath, V. Krishnamurthy, R. Cabanban
Anti-hubs and negative hubs in resting functional connectivity network architecture |
| 10C | L.M. Hocke, Y. Tong, B.deB. Frederick
Comparison of peripheral NIRS to other denoising methods in resting state functional MRI |
| 11C | Y.J. Hong, P.J. Tsai, Y.T. Ko, Y.H. Li, C.W. Wu
Mapping the sleep inertia effect in the sensorimotor connectivity |

ID	Abstract Author(s) / Abstract Title	1:45–2:45PM
12C	C.J. Hyatt, V.D. Calhoun, G.D. Pearlson, M. Assaf Interactive game and semantic memory tasks show opposing modulation of functional connectivity in default mode networks underlying mentalizing processes	
13C	G. Mousnier, P-Y. Hervé, M. Joliot Effects of sex and handedness on the inter-hemispheric connectivity of homotopic hemispheric resting-state networks	
14C	V.Kiviniemi, X.Wang, V.Korhonen, T.Hiltunen, Y-F. Zang, P.LeVan, S. Keilholz Separation of quasiperiodic VLF fluctuations from periodic cardiorespiratory pulses with ultra-fast MREG	
15C	R.F. Lee Emergence of the default-mode network in social interaction	
16C	T.Y. Lin, A.L. Hsu, P.J. Tsai, S.H. Lin, C.W. Wu Impact comparison between physiological-noise-removal and low-pass filter in resting-state functional connectivity	
17C	G. Wu, S. Laureys, D. Marinazzo Retrieving the hemodynamic response function at rest: implication for connectivity and brain function	
18C	A.F. Mejia, M.B. Nebel, H. Shou, C. Crainiceanu, J.J. Pekar, S.H. Mostofsky, B. Caffo, M.A. Lindquist Improving reliability of subject-level resting state fMRI parcellation with empirical Bayes shrinkage	
19C	G. Mingoia, I. Nenadic Power spectral density (PSD) of brain signal differs between genders and networks.	
20C	D. Papo How can resting brain activity help cognitive neuroscientists?	
21C	G.M Rojas, J.A. Fuentes, M. Gálvez, D.S. Margulies Augmented reality and intrinsic functional connectivity visualization application: ARiBraN3T	
22C	J.D. Ramsey, R. Sanchez-Romero, C. Glymour Non-Gaussian methods and high-pass filters in the estimation of effective connections	
23C	AP Schultz, JP Chhatwal, W Huijbers, T Hedden, KRA van Dijk, DG McLaren, A Ward, S Wigman, and RA Sperling Template Based Rotation: A method for functional connectivity analysis with a priori templates.	

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- 24C Z. Shehzad, Q. Li, Y. Benhajali, C.G. Yan, Z. Yang, M. Milham, P. Bellec, R.C. Craddock
Measuring the quality of resting state fMRI data
- 25C J.M. Spielberg
Graph theoretic general linear model: a MATLAB toolbox
- 26C S. Torrisi, R. Reynolds, N. Balderston, M. Ernst, C. Grillon
Resting connectivity of the Bed Nucleus of the Stria Terminalis
- 27C L. Tüshaus, A. Schläpfer, D. Brandeis, P. Achermann
Changes of default mode network connectivity in subjects under different sleep pressure can be demonstrated both with BOLD- and ASL-fMRI
- 28C C.G. Yan, S. Colcombe, Z. Yang, R.C. Craddock, C.E. Schroeder, F. X. Castellanos, M.P. Milham
Lifespan developmental trajectories of temporal dynamics in intrinsic regional activity
- 29C Q. Yu, E.B. Erhardt, V.D. Calhoun
Characterizing Dynamic Brain Graphs in fMRI Data: Application to Schizophrenia
- 30C M.J. Hove, J. Stelzer, T. Nierhaus, S.D. Thiel, G. Gundlach, D.S. Margulies, K.R.A. Van Dijk, R. Turner, P.E. Keller, B. Merker
Brain Network Reconfiguration and Perceptual Decoupling during Shamanic Trance

**Theme 2: STRUCTURAL BRAIN CONNECTIVITY /
MULTI-MODAL APPROACHES / ANIMAL MODELS**

- 31C C.M. Bauer, L. Zajac, B.B. Koo, G. Heidary, L.B. Merabet
Choice of optimal quantitative anisotropy threshold for clinical HARDI reconstruction
- 32C M. Bianciardi, N. Toschi, C. Eichner, B. Edlow, J.R. Polimeni, K. Setsompop, D. Boas, L.L. Wald
In vivo delineation of human brainstem grey matter with Diffusion Tensor Imaging at 7 Tesla
- 33C R.A. Carper, S. Solders, I. Fishman, R.-A. Müller
Corticostratial connectivity in children and adolescents with autism spectrum disorder

ID	Abstract Author(s) / Abstract Title	1:45–2:45PM
34C	George Wilson, Pai-Feng Wang, John C. Gore, Li Min Chen Inter-regional resting state MRI functional connectivity covaries with correlations between Delta band local field potentials in primary somatosensory cortex of monkeys	
35C	G. Berns, P. Cook, M. Spivak Functional connectivity of the ventral striatum during a reward/no-reward task in awake unrestrained domestic dogs	
36C	M.K. Drews, Q. Fan, A. Nummenmaa, R. Zanzonico, A. Fotros, T. Witzel, B. Kiel, J.R. Polimeni, K. Setsepop, V. Renvall, T.G. Reese, S.M. Stufflebeam, B. Fischl, V.J. Wedeen, L.L. Wald, B.R. Rosen, R.L. Buckner, K.R.A. Van Dijk High b-value multi-shell diffusion MRI for the Human Connectome Project	
37C	Y. Gao, B.A. Landman, A. J. Plassard, K. Shillings, A.S. Choe, I. Stepniewska, X. Li, Z. Ding, A.W. Anderson Cortical parcellation based on DTI connectivity using classification methods – validation in the squirrel monkey	
38C	J.K. Grooms, G.J. Thompson, E. Schumacher, C. Epstein, S.D. Keilholz Dynamic BOLD correlates of infraslow EEG	
39C	J. A. Hashmi, S. Khan, R. L. Gollub, J. Kong, M.S. Hamalainen, S.M. Stufflebeam, T. Kenet Spectral Signatures of Brain Network Development in Resting State MEG	
40C	Seun Jeon, Jong-Min Lee Cortical myelination and structural brain network changes during childhood and adolescence: comparing with cortical thickness network	
41C	B.-B Koo, Y. Zhao, P. Shultz, L. Zajac, D. Rosene, R.J. Killiany Classifying two major axes in non-demented aging from structural and resting-functional brain connectivity	
42C	H. B. Lu, L Wang, W. Rea, E.A. Stein, Y. Yang Spontaneous fluctuations in low frequency local field potential correlate with resting state MRI signal in rat whisker barrel cortex	
43C	C. Meng, J. Bäuml, C. Zimmer, A.M. Wohlschläger, C. Sorg Altered white matter integrity and structural connectivity in adults born preterm	
44C	W.-J. Pan, J.C.W. Billings, S.D. Keilholz Simultaneous recording of slow hemodynamic signals from the brain and periphery	
45C	M.H A'arabi, A. Fathi Kazerooni, N. Mohammadi, H. Saligheh Rad Efficiency of Diffusion Tensor Imaging in the Estimation of Brain Connectivity; A Simulation Study	

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- 46C A.J. Simmonds, R.J.S. Wise, C. Collins, O. Redjep, D.J. Sharp, P.Iverson, R. Leech
Parallel systems in the control of speech.
- 47C W. Tang, H. Liu, L. Douw, U.T. Eden, M.A. Kramer, M.S. Hamalainen, S.M. Stufflebeam
Dynamic cortical connectivity underlies the brain's default mode network
- 48C N. Van Den Berge, I. Dauwe, P. van Mierlo, K. Vonck, R. Raedt, P. Boon, C. Vanhove, R. Van Holen
FMRI of hippocampal deep brain stimulation in the rodent brain
- 49C Y. Yoncheva, K. Somandepalli, P. T. Reiss, C. Kelly, A. Di Martino, M. Lazar, M. P. Milham, F. X. Castellanos
Structural connectivity à la mode: complementing conventional indices of white matter microstructure disorganization in ADHD
- 50C F.Q. Zhou, Y. Zhuang, H.H. Gong, B. Wang, Q. Chen, L. Wu
Altered inter-subregion connectivity of the default mode network in relapsing remitting multiple sclerosis: a functional and structural connectivity study

Theme 3: APPLICATIONS IN NEUROLOGICAL AND PSYCHIATRIC DISEASES

- 52C P.G. Vázquez, S. Whitfield-Gabrieli, C.C.C. Bauer, F.A. Barrios
Connectivity dynamics during hypnosis without target suggestion.
- 53C L. Becerra LE, Simons AA, Lebel, D. Borsook
Intrinsic Brain Networks normalize with Treatment in Pediatric Complex Regional Pain Syndrome
- 54C J.W. Bohland, K. Kapse, S. Kiran
Graph-theoretic analysis of resting state brain networks in post-stroke aphasia
- 55C S.J. Buetof, D.J. Hawellek, S.M. Gold, S. Siemonsen, C. Heesen, G. Nolte, A.K. Engel
Association between integrity of white matter, cognitive deficits and spontaneous functional connectivity in multiple sclerosis
- 56C B.A. Chodkowski, K.D. Niswender, R.L. Cowan
Brain network functional connectivity is disrupted in childhood obesity

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57C	K.R. Ciesielski, B.R. Rosen, T. Kenet, K.R.A. Van Dijk, S. Khan, S.M. Stufflebeam, M.S. Hämäläinen Developmental connectivity among nodes of dorsal and ventral visual networks as reflected in resting state MEG alpha oscillatory synchronization	
58C	G. Deshpande, J.A. Dahlen, W.S. Woltosz The application of artificial neural network ensembles to autism classification using resting state functional magnetic resonance imaging data	
59C	A. Demertzi, G. Antonopoulos, H. U. Voss, J.S. Crone, N. D. Schiff, C. de Los Angeles, F. Gomez, M.A. Bahri, L. Heine, L. Tshibanda, V. Charland-Verville, S. Whitfield-Gabrieli, S. Laureys Intrinsic fMRI crossmodal interaction accurately differentiates minimally responsive from unresponsive brain-damaged patients	
61C	S. Whitfield-Gabrieli, A.S. Fischer, R.M. Roth, A.I. Green Cannabis improves intrinsic functional brain organization of the default mode network in patients with schizophrenia and cannabis use disorder	
62C	T.K. Gandhi, S. Chouhan, S. A. Anteraper, R. Kumar, K. Ray, U. Panjwani, S. Whitfield-Gabrieli, S. B. Singh Hyper connectivity in DMN and hypo connectivity in ECN in subjects exposed to High altitude	
63C	E.A. Garza-Villarreal, Z. Jiang, L. Vase, E. Brattico, F.A. Barrios, E. Pasaye, T.S. Jensen, P. Vuust Music-induced analgesia in fibromyalgia is related to lower fALFF in the pain network and higher fALFF to the posterior cingulate cortex.	
64C	R. Dawn, S.R. Gohel, R. Panda, B.B. Biswal Transcranial magnetic stimulation induced modulations of resting state motor connectivity in Writer's Cramp	
65C	K. Han, S.B. Chapman, D.C. Krawczyk Reduced anti-correlations between cingulo-opercular and default mode networks in individuals with chronic traumatic brain injury following strategy-based reasoning training	
66C	C.R Hernandez-Castillo, R. Mercadillo, V. Galvez, L. Beltran- Parrazal, R. Diaz, J. Fernandez-Ruiz Abnormal Functional Connectivity in Spinocerebellar Ataxia 2 Correlates with Clinical Measurements	
67C	W. Huang, J.A. King, S. Ursprung, J.R. DiFranza Measure of physical nicotine dependence corresponds to structural and functional alterations in the anterior cingulate-precuneus pathway	

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- 68C H.I.L. Jacobs, S. Wiese, V. van de Ven, E.H.B.M. Gronenschild, F.R.J. Verhey, P.M. Matthews
Relevance of parahippocampal - locus coeruleus functional connectivity to memory dysfunction in early Alzheimer's disease
- 69C F. Orliac, N. Delcroix, M. Naveau, P. Delamillieure, M. Joliot
Network modeling of resting state connectivity points towards the bottom up theories of schizophrenia
- 70C G. Joshi, X.J. Chai, J. Z. M. Saygin, Gabrieli, J. Biederman, S.L. Furtak, S.W. Gabrieli
Resting State Functional Connectivity Analysis of Social and Emotion Processing Neural Networks in Autism
- 71C J.B. Keller, T. Hedden, T.W. Thompson, S.A. Anteraper, J.D.E. Gabrieli, S. Whitfield-Gabrieli
Resting-state anticorrelations between medial and lateral prefrontal cortex: Association with working memory, aging and individual differences
- 72C J. Kim, S. As-Sanie, P.C. Sundgren, D.J. Clauw, R.E. Harris, V. Napadow
Functional connectivity is associated with altered brain chemistry in chronic pelvic pain
- 73C Dickerson, Karen S. Quigley, W. Kyle Simmons, Lisa Feldman Barrett
Resting State Functional Networks Supporting Interoceptive Sensitivity
- 74C M.S. Koyama, Z. Shehzad, M. P. Milham
Intrinsic functional indices underlying numerical competence in adults
- 75C C.Y. Kuo, T.H. Lan, C.W. Wu, K.H. Chou C.Y. Lo, C.P. Lin
Frequency-specific alterations of thalamocortical connectivity in schizophrenia
- 76C E-Y. Lee, L. Zhang, Y. Truong, G. Du, M. M. Lewis, & X. Huang
Changes in Resting-State Functional Networks in Asymptomatic Welders
- 77C K.E., Lewandowski, B.M. Cohen, M.S. Keshavan, S.H. Sperry, D. Ongur
Task-based and resting state functional connectivity changes after cognitive remediation in bipolar disorder
- 78C S. Lin, P. Lin, S. Lee, S. Yeh, Y. Yang, C. Lin, C.W. Wu
Lesion site specific intrinsic and evoked brain activity after stroke
- 79C T. M. Madhyastha, J Zhang, J. Leverenz, S. Hu, T. J. Grabowski
BOLD variability at rest is correlated with CSF α -Synuclein in Parkinson Disease

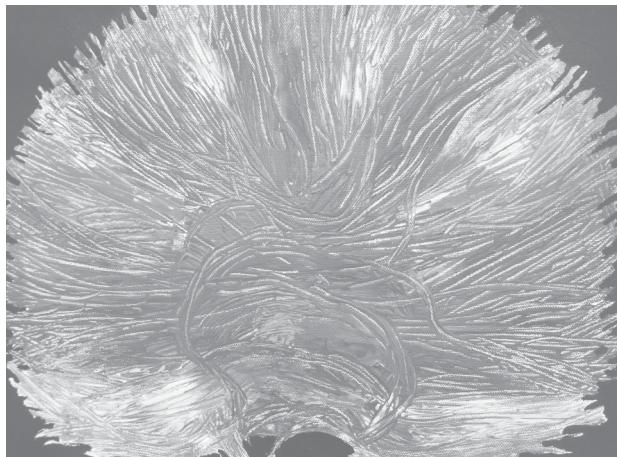
ID	Abstract Author(s) / Abstract Title	1:45–2:45PM
80C	J. Manning, G. Reynolds, S. G. Hofmann, M. Pollack, J. D. E. Gabrieli, S. Whitfield-Gabrieli Decreased resting-state functional connectivity in the frontal-striatal reward system in social anxiety disorder	
81C	S. Markett, C. Montag, B. Heeren, R. Saryiska, B. Lachmann, B. Weber, M. Reuter Voxelwise eigenvector centrality mapping of the human functional connectome reveals an influence of the COMT val158met polymorphism on the default mode and somatomotor network.	
82C	A.T. Mattfeld, J.D.E. Gabrieli, J. Biederman, T. Spencer, A. Brown, A. Kotte, E. Kagan, S. Whitfield-Gabrieli Brain differences between persistent and remitted attention-deficit/hyperactivity disorder	
83C	C. Mills-Finnerty, L.H. Sweet, U.S. Clark, C. Hanson, S.J. Hanson Effects of nicotine on brain network dynamics in current, former, and non-smokers	
84C	V.L. Morgan, J.C. Gore, B. Abou-Khalil, B.P. Rogers Identification of frequencies of impaired functional connectivity related to duration of disease in temporal lobe epilepsy using wavelet coherence analysis	
85C	R.E. Amariglio, D.M. Rentz, K.A. Johnson, R.A. Sperling, G.A. Neuropsychiatric symptoms and functional connectivity in mild cognitive impairment and cognitively normal elderly	
86C	G. Niso, S. Carrasco, M. Gudín, F. Maestú, F. del-Pozo, E. Pereda Graph theoretic characterization of functional MEG networks during interictal resting state in epilepsy	
87C	R Panda, R.D. Bharath, S. Sinha, A. Sahoo, L. George, K Raghavendra, B.B. Biswal, A.K. Gupta , P Satishchandra Complex network analysis of Hot Water Epilepsy in Drug Naïve Patients	
88C	D.H. Peng, F. Shi, T. Shen, Z.W. Peng, Y.R. Fang, D.G. Shen Major Depressive Disorder Splits the Brain Network Modules Responsible for Helplessness	
89C	A.V. Poliakov, E.J. Novotny, S.L. Poliachik, S.D. Friedman, G.E. Ishak, J.N. Nixon, D.W. Shaw and J.G. Ojemann Voxel-mirrored homotopic connectivity analysis of pediatric epilepsy patients with focal cortical dysplasia	

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- 90C L.E. Ramsey, A. Baldassarre, G.L. Shulman, M. Corbetta
Importance of task positive and task negative interactions in neglect recovery
- 91C A. Rieckmann, S.N. Gomperts, K. A. Johnson, J. H. Growdon, K.R.A. Van Dijk
Functional connectivity MRI between the putamen and midbrain is related to striatal dopamine transporter density in patients with Lewy body disease
- 92C R. Salas, H. Viswanath, K. Curtis P.R. Baldwin, C.B. Frueh, J.C. Fowler
Insular and inferior frontal gyrus interhemispheric RSFC are associated to substance use disorder in a psychiatric population
- 94C D.H. Schultz, N.L. Balderston, L.S. Hopkins, F.J. Helmstetter
Resting-state connectivity changes during consolidation of delay and trace fear conditioning memory
- 95C J.Shin, J.S. Stevens, N. Fani, T. Jovanovic, L.M. Almli, K.B. Mercer, K. J. Ressler
PACAP receptor gene polymorphism impacts resting-state functional connectivity of the amygdala among highly traumatized women
- 96C E.M. Sikoglu, S.M. Czerniak, A.A. Liso Navarro, J. McCafferty, J. Eisenstock, J.H. Stevenson, J.A. King, C.M. Moore
Effect of concussion on collegiate athletes: a resting-state fMRI study
- 97C Z. Sjoerds, S.M. Stufflebeam, D.J. Veltman, W. van den Brink, B.W. Penninx, L. Douw
Progressive loss of local and global brain network efficiency in alcohol dependence
- 98C B. Adinoff, H. Gu, C. Merrick, M. McHugh, M.D. Devous, H. Jeon-Slaughter, H. Lu, Y. Yang, E.A. Stein
Hippocampal resting activity and functional connectivity predict relapse to cocaine use
- 99C K.Supekar, J. Kochalka, V. Menon
Regional imbalance of excitation and inhibition explains intrinsic functional brain hyper-connectivity in childhood autism
- 100C Y. Tie, L. Rigolo, O. Olubiyi, K. Doolin, A.J. Golby
Motor network functional connectivity increases during movie-watching fMRI compared to resting- state fMRI
- 101C M. Veldsman, T. Cumming, A. Brodtmann
Longitudinal brain connectivity changes in a sensorimotor network in ischaemic stroke patients

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102C	L. Wang, T.L. Benzinger, A. Goate, J.C. Morris, B.M. Ances Apolipoprotein E genotype is associated with distinct resting state functional connectivity phenotypes in Alzheimer's disease	
103C	E. Duff, B. Whitcher, W. Vennart, B.T. Wyman, B.L. Klaassens, H. van Gorsel, J.M.A. van Gerven, S.A.R.B. Rombouts, R. Sala-Llonch, M. Woolrich, S. Smith Optimizing resting-state data analysis pipelines for early-phase drug development	
104C	M. Xu, L.H. Tan Brain activation and effective connectivity are modulated by visual-orthographic load during Chinese orthography-phonology mapping	
105C	Z. Yang, N.A. Fox, C.W. Lejuez, Z. Shehzad, B. Leventhal, F.X. Castellanos, R.C. Craddock, M.P. Milham Toward Neurophenotypic Markers of Distress Tolerance	
106C	G.J. Yang, J.D. Murray, G. Repovs, M.W. Cole, D.C. Glahn, J.H. Krystal, G.D. Pearlson, A. Anticevic Associative network desegregation in schizophrenia relates to thalamic filtering deficit	
107C	H. Yuan, D. Urbano, L. Ding, Y.H. Cha Impact of rTMS on resting state functional connectivity in mal de débarquement syndrome: lasting neuromodulatory effect and correlation with efficacy	
108C	X.Zhu, C. Carlos, K. Marthur, D. Tomasi, R. Momenan Altered Orbitofronto-striatal Functional Connectivity in Alcoholics using Independent Component Analysis	



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Harvard-MIT
Health Sciences & Technology

WEDNESDAY, 10 SEPTEMBER 2014

6:00-8:30 PM

McGovern Welcome Reception

Folie à Quatre (Classical Quartet led by Psyche Loui)

Kresge Auditorium
MIT – Building W16
48 Massachusetts Avenue
Cambridge, MA 02139

THURSDAY, 11 SEPTEMBER 2014

6:30-10:00 PM

Dinner, James Hyde Lecture: Dr. Karl Friston

On the intimate relationship between functional and effective connectivity

Museum of Science
1 Science Park
Boston, MA 02114

Bus Transportation
6:00 pm from Kresge Auditorium
Return beginning at 9:00 pm

Sponsored by



FRIDAY, 12 SEPTEMBER 2014

5:00-8:00 PM

Network Reception

Jazz Quartet led by Jorrit Dijkstra

Kresge Auditorium
MIT – Building W16
48 Massachusetts Avenue
Cambridge, MA 02139



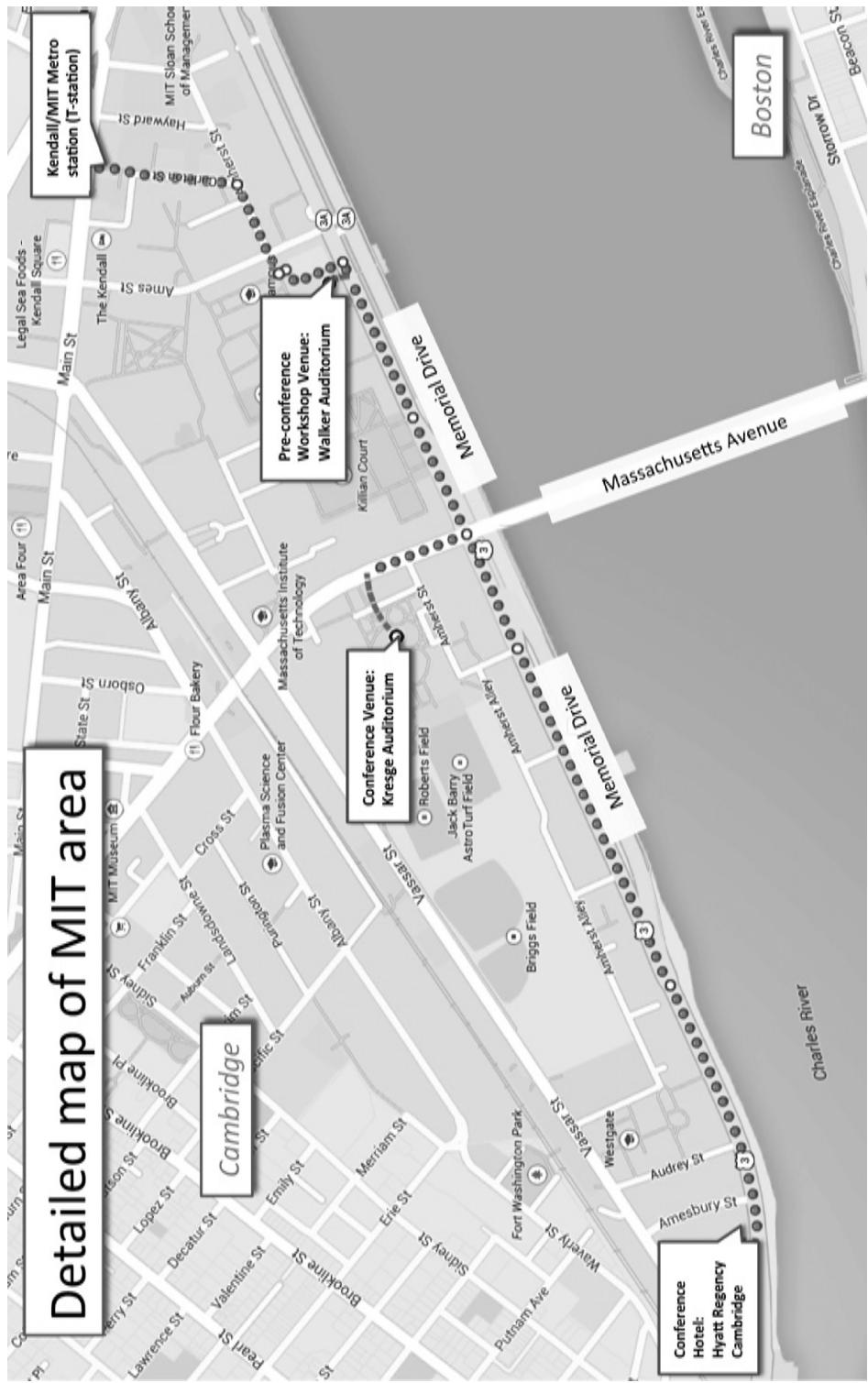
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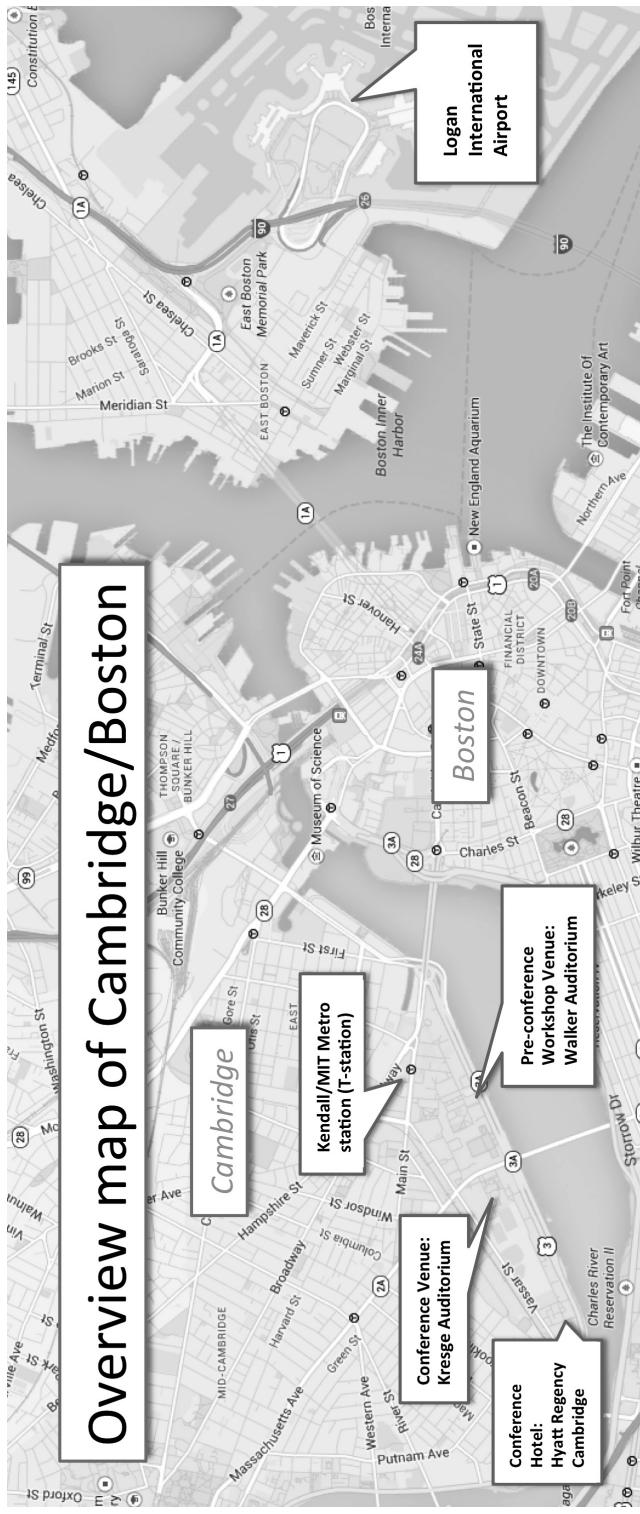
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