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- **1.** The geometric, genetic, and structural basis of functional connectivity in whole-brain intracranial EEG networks Richard Betzel and Danielle Bassett
- 2. Out-degree rich clubs in networks of spiking cortical neurons feed neural computations while in-degree rich clubs perform neural computations Samantha Faber, Nicholas Timme, John Beggs and Ehren Newman
- 3. Oscillatory network dynamics of non-rapid eye movement sleep Roy Cox, Anna Schapiro and Robert Stickgold
- 6. Graph embedded sparse association model for joint identification of discriminative imaging proteomic markers and their associations Jingwen Yan, Kefei Liu, Shannon Risacher, Kwangisk Nho, Andrew Saykin and Li Shen
- 10. Distinguishing individuals with schizophrenia from healthy controls using fMRI brain networks Sarah Morgan, Jonathan Young, Therese van Amelsvoort, Jim van Os, Machteld Marcelis and Ed Bullmore
- 11. From connectome to behavior: Circuit motifs that generate oscillations to drive forward and backward locomotion in C.elegans Erick Olivares, Eduardo Izquierdo and Randall Beer
- 12. Modeling multiple brain networks through linear mixed effects models Yura Kim and Elizaveta Levina
- 13. Geometric and Topological Analysis at Different Scales of Organization of the Mouse Brain Connectivity Network Jose Brum, Emma Towlson, Soodabeh Milanlouei and Albert-László Barabási
- **14. Structure-function relationships in segregated and integrated states of time-resolved brain networks** Makoto Fukushima, Richard F. Betzel, Ye He, Marcel A. de Reus, Martijn P. van den Heuvel, Xi-Nian Zuo and Olaf Sporns
- **15. Reconfiguration of Brain Functional Network Community Structure in Major Depressive Disorder** Ye He, Sol Lim, Santo Fortunato, Lei Zhang, Xi-Nian Zuo, Jiang Qiu and Olaf Sporns
- **16. Altered Dynamic Brain Network Modularity in Adolescent Remitted Depression** Olu Ajilore, Rachel Jacobs, Katie Bessette, Claudia Feldhaus, Alyssa Barba, Lisanne Jenkins, Alex Leow and Scott Langenecker
- 17. Development of Community Structure in the Human Connectome across the Life Span: An Application of Weighted Stochastic Blockmodels Joshua Faskowitz, Xiaoran Yan, Xi-Nian Zuo and Olaf Sporns



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- 22. Navigational Core vs Link Prevalence Score in Structural Networks of the Human Brain Andras Majdan, Andras Gulyas, Zalan Heszberger and Jozsef Biro
- 24. Optimal modularity in rodent cortical slices Nathaniel Rodriguez, John Beggs, Yong-Yeol Ahn and Zachary Tosi
- 25. Curvature-based Analysis of Brain Networks Melanie Weber, Emil Saucan, Johannes Stelzer, Gabriele Lohmann and Jürgen Jost
- **26.** Dynamic Multivariate Kurtosis as a measure of temporal variations in task-rest functional connectivity with applications to family history of alcoholism Vibha Viswanathan, Mario Dzemidzic, David Kareken and Joaquín Goñi
- 28. Detecting optimal subgraphs in connectomes across individuals and species Filip Miscevic and Olaf Sporns
- 30. Loss of brain inter-frequency hubs in Alzheimer's disease Jeremy Guillon, Yohan Attal, Oliver Colliot, Valentina La Corte, Bruno Dubois, Denis Schwartz, Mario Chavez and Fabrizio De Vico Fallani
- 31. A statistical model for brain networks inferred from large-scale electrophysiological signals Catalina Obando Forero and Fabrizio De Vico Fallani
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- 34. Organization and hierarchy of the human functional brain network lead to a chain-like core Rossana Mastrandrea, Andrea Gabrielli, Fabrizio Piras, Gianfranco Spalletta, Guido Caldarelli and Tommaso Gili
- 35. Inhibitory synapses are central to structural balance in C. elegans neuronal network Rahul Badhwar and Ganesh Bagler
- 37. Music and Emotion in Context: A Constructionist Approach to a Network Neuroscience Investigation into Changes in Functional Brain Network Connectivity Based on Emotional Responses to Music Stimuli Robin.W. Wilkins, Sahana Giridharan, Kristen A. Lindquist, Jeffrey A. Brooks, Megan Johnston and Robert A. Kraft.
- **38.** Chaos and Correlated Avalanches in Excitatory Neural Networks with Synaptic Plasticity Fabrizio Pittorino, Miguel Ibanez Berganza, Matteo Di Volo, Alessandro Vezzani and Raffaella Burioni
- **39.** Experimental Test of Network Control: Functional predictions in the C. elegans nervous system E.K. Towlson, G. Yan, P.E. Vértes, Y.L. Chew, D.S. Walker, W.R. Schafer, and A-L Barabási

