

POSTERS SFN 2014

SATURDAY, NOVEMBER 15

1:00 - 5:00 PM

29.06/A6 - Molecular characterization of human cortical interneurons

J.L. Close, B. Levi, V. Menon, S. Anderson, S. Ramanathan

60.01/Z8 - Electrophysiological characterization of cortical neuron subtypes in mouse visual cortex

J. Berg, T. Jarsky, S. Sorensen, C. Anastassiou, A. Oldre, A. Bernard, C. Koch, H. Zeng

60.02/Z9 - Dynamics of neural activity in mouse cortex during visual behavior

D.R. Ollerenshaw, P.A. Groblewski, M.E. Garrett, J. Zhuang, J. Waters, S.R. Olsen

60.03/Z10 - On spike detection and the development of quantitative measures for spike clustering using "ground truth" data: A computational and slice electrophysiology study

C. Mitelut, S.L. Gratiy, S. Durand, K. Mizuseki, K. Godfrey, C. Lee, T. Blanche, N. Swindale, C. Reid, M. Hawrylycz, C. Koch, C. Anastassiou

60.04/Z11 - Building a biophysically detailed computational model of the layer 4 of mouse primary visual cortex

A. Arkhipov, J. Berg, N.M. da Costa, S. Durand, D. Feng, T.P. Fliss, K.B. Godfrey, M.L. Hines, L. Li, A. Oldre, S.R. Olsen, S.A. Sorensen, Z. Zhou, C.A. Anastassiou, A.S. Shai, A. Bernard, C. Dang, L. Ng, H. Peng, J.W. Phillips, R.C. Reid, H. Zeng, S. Mihalas, M.J. Hawrylycz, C. Koch

60.05/Z12 - Cholinergic neurons modulate performance of a visual discrimination task in mice

B. Danskin, P.A. Groblewski, D.R. Ollerenshaw, S.R. Olsen, J. Waters

60.06/Z13 - In vitro single cell morphology in mouse V1 and LGN

S.A. Sorensen, H. Peng, J. Berg, S. Sunkin, A. Oldre, N. Dee, S. Caldejon, Z. Zhou, C. Anastassiou, M. Fisher, K. Joines, D. Sandman, A. M. Henry, T. Desta, W. Wakeman, C. Koch, C. Dang, A. Bernard, J. Hohmann, J.W. Phillips, H. Zeng

60.07/Z14 - Simulating *in vivo* LFPs and intracellular [Ca²⁺] imaging data in mouse V1 using a detailed biophysical model of the cortical column

S.L. Gratiy, A. Garner, A.D. Cheng, S. Durand, K. Mizuseki, J. Berg, S. Sorensen, A. Arkhipov, M.L. Hines, A. Shai, S. Sunkin, J.W. Phillips, H. Zeng, R.C. Reid, M. Hawrylycz, C. Koch, C.A. Anastassiou

60.08/Z15 - Characterization of cell-type specific role in circuit structure and function of mouse visual cortex *in vivo*

L. Li, R. Iyer, C. Teeter, S. de Vries, B. Long, J. Berg, S. Mihalas, L. Madisen, H. Peng, C. Koch, C. Reid, H. Zeng

60.09/Z16 - The influence of long-range inputs on single-cell dendritic signaling

A. Shai, C.A. Anastassiou, M. Larkum, C. Koch

61.10/AA9 - The cat's curious computation of contrast adaptation and normalization

A.J. Keller, N.M. da Costa, K.A.C. Martin

96.03/TT9 - Single-cell transcriptomic analysis identifies molecularly distinct subclasses of excitatory and inhibitory neurons in mouse visual cortex

V. Menon, B. Tasic, T.-N. Nguyen, C. Lee, T. Kim, N. Shapovalova, B. Levi, J. Goldy, D. Bertagnolli, S. Parry, K. Smith, S.M. Sunkin, M. Hawrylycz, H. Zeng

99.02/TT81 - Emergence of spatially localized slow activity in structured leaky-integrate-and-fire networks

Y.N. Billeh, M.T. Schaub, C.A. Anastassiou, M. Barahona, C. Koch

SUNDAY, NOVEMBER 16

8:00 AM - 12:00 PM

185.04/SS63 - A next generation common coordinate framework of the adult mouse brain for data integration and discovery

L. Ng, Q. Wang, Y. Li, C. Lau, L. Kuan, D. Feng, J. Royall, B. Facer, A. Ho, C. White, S. Caldejon, S.M. Sunkin, A. Szafer, W. Wakeman, J. Hohmann, A. Bernard, M. Hawrylycz, H. Zeng, C. Dang

185.10/TT1 - Automated, label-free cell body detection for multi-modal characterization of neurons in brain slice

B. Long, J.T. Ting, M. Hawrylycz, C. Koch, E. Lein, H. Peng

186.23/TT44 - Refining local cortical circuit models using optogenetic modulation

J. Lee, S.R. Olsen, N. Cain, A. Arkhipov, M. Hawrylycz, C. Koch, S. Mihalas

1:00 - 1:15 PM

207.01 - Performance evaluation of 3D automatic neuron reconstruction approaches



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Z. Zhou, S. Sorensen, M. Fisher, D. Sandman, A. Henry, K. Joines, T. Desta, J. Hohmann, W. Wakeman, N.M. da Costa, L. Li, S. Sunkin, E. Lein, H. Zeng, M. Hawrylycz, C. Koch, H. Peng

1:00 - 5:00 PM

270.07/TT65 - Development of an integrated platform for standardized, high-throughput *in vivo* functional imaging
T.M. Keenan, K. Roll, J. Perkins, E. Mount, M. Garrett, C. White, N. Orlova, S. de Vries, C. Farrell, C. Lau, L. Ng, S. Olsen, D. Rizzuto, C. Slaughterbeck, W. Wakeman, J. Waters, D. Williams, C. Reid, A. Jones, J. Phillips, A. Bernard

MONDAY, NOVEMBER 17

8:00 AM - 12:00 PM

368.26/VV12 - Layer-specific inter-areal cortical connectivity patterns in mouse brain
J.A. Harris, L. Ng, C. Gerfen, K.E. Hirokawa, N. Cain, S. Mihalas, H. Zeng

2:30 - 2:45 PM

393.07 - Next generation, ultra-high density implantable nano-optoelectrical neural interfaces
M. Chamanzar, M. Borisov, D.J. Denman, M.M. Maharbiz, T.J. Blanche

1:00 - 5:00 PM

397.04/B7 - Using human embryonic stem cells to understand *in vitro* cortical excitatory neurogenesis and lineage
S. Ku, J. Close, B. Gregor, J. Grimley, A. Jayabalu, A.-R. Krostag, B. Levi, R. Martinez, R. May, V. Menon, H. Mulholland, A. Nelson, K. Ngo, N. Shapovalova, M. Smith, C. Thompson, E. Thomsen, A. Wall, Y. Wang

434.10/FF22 - Morphological analysis of the layer 6 input to layer 4 in primary visual cortex of the mouse
A.L. Bodor, M. Takeno, N.M. da Costa

TUESDAY, NOVEMBER 18

8:00 AM - 12:00 PM

494.08/A32 - Spatiotemporal expression atlas of brain development in non-human primate
T. Bakken, J. Miller, S.-L. Ding, S. Sunkin, K. Smith, L. Ng, A. Szafer, J. Goldy, C. Lee, A. Ebbert, R. Dalley, N. Dee, J. Royall, P.D. Parker, Z. Riley, Z. Molnar, R. Hevner, D. Amaral, M. Hawrylycz, A. Jones, J. Phillips, P. Wohnoutka, C. Dang, A. Bernard, J. Hohmann, E. Lein

498.10/C1 - Molecular architecture of the developing and adult human hippocampal formation
S.-L. Ding, J.J. Royall, A. Bongaarts, R. Dalley, P.D. Parker, M. Hawrylycz, A.R. Jones, E.S. Lein, J.G. Hohmann

532.01/GG4 - Exploring the network anatomy of visual cortical processing
W.-C.A. Lee, V. Bonin, M. Reed, K. Glattfelder, J. Hohmann, R.C. Reid

532.17/GG20 - Cellular imaging of genetically defined populations in layer 4 of mouse primary visual cortex reveals functional diversity
A.R. Garner, A. Cheng, L. Madisen, H. Zeng, R.C. Reid

1:00 - 5:00 PM

655.16/UU41 - Cortical projections to the amygdala in mouse
Q. Wang, L. Ng, J.A. Harris, S.W. Oh, A. Bernard, A.M. Henry, M.T. Mortrud, B. Ouellette, J.J. Hohmann, C. Koch, H. Zeng

658.05/VV8 - High level expression of genetic tools with improved cell type specificity
L. Madisen, A. Garner, A. Chuong, N. Klapoetke, L. Li, A. Cheng, B. Tasic, H. Gu, M. Mills, T. Nguyen, T. Knöpfel, E. Boyden, R.C. Reid, H. Zeng

660.03/VV42 - Creation of an *in vitro* slice electrophysiology platform to characterize human and mouse electrophysiological cell classes
A. Oldre, J. Berg, T. Jarsky, C. Anastassiou, A. Arhipov, S. Caldejon, P. Chong, C. Cuhaciyani, S. Datta, N. Dee, C. Farrell, K. Godfrey, D. Hill, L. Li, S. Mihalas, L. Ng, H. Peng, J. Perkins, S. Parry, C. Slaughterbeck, G. Soler-Llavina, S. Sorensen, S. Sunkin, N. Taskin, C. Teeter, J. Ting, K. Trett, W. Wakeman, R. Young, C. Dang, M. Hawrylycz, E. Lein, J. W. Phillips, C. Koch, H. Zeng, A. Bernard

661.20/VV72 - End of anonymity for single units in extracellular recordings
P. Ledochowitsch, D. Denman, A. Cheng, G. Soler-Llavina, H. Zheng, T.J. Blanche

WEDNESDAY, NOVEMBER 19

9:15 - 9:30 AM

676.06 - Preoptic hypothalamus modulation of sleep
S. Chung, F. Weber, W.-C. Chang, A. Cetin, Y. Dan

1:00 - 5:00 PM

853.08/VV43 - Quantification and analysis of kernel smoothed peristimulus time histograms
M.R. Hill, I. Fried, C. Koch

