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Date & Time:	Location:	Session:	Title:	Authors:
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 095 - New Approaches for Neuromodulation	95.10 / KKK70 - Pulsed infrared stimulation of the vestibular system evokes vestibulo-ocular and vestibulo-sympathetic reflex responses.	*S. RAJGURU ¹ , W. JIANG ² , G. R. HOLSTEIN ³ , G. P. MARTINELLI ³ , C.-P. RICHTER ⁴ , R. D. RABBITT ⁵ ; 1Biomed. Engin. and Otolaryngology, 2Biomed. Engin., Univ. of Miami, Coral Gables, FL; 3Icahn Sch. of Med. at Mount Sinai, New York, NY; 4Northwestern Univ., Chicago, IL; 5Univ. of Utah, Salt Lake City, UT
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 090 - Cognitive Development	90.05 / JJJ23 - Resting brain interactions during natural sleep in typically developing toddlers are biased to the left hemisphere	*S. J. GOTTS ¹ , E. REDCAY ² , S. C. MILLEVILLE ¹ , A. THURM ³ , S. SHUMWAY-MANWARING ⁴ , A. MARTIN ¹ ; 1Lab. of Brain and Cognition, NIMH/NIH, Bethesda, MD; 2Psychology, Univ. of Maryland, College Park, MD; 3Pediatrics and Developmental Neurosci. Br., NIMH/NIH, Bethesda, MD; 4Communication Sci. & Disorders, Univ. of Utah, Salt Lake City, UT
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 097 - Data Analysis and Statistics: Software Tools I	97.23 / LLL43 - A novel method for automated cytoarchitectonic parcellation of the rhesus monkey neocortex	*A. NAZARAN ¹ , J. J. WISCO ^{2,4} , N. K. BANGERTER ³ ; 2Dept. of Physiol. and Developmental Biology, Neurosci. Ctr., 3Dept. of Electrical and Computer Engineering, Neurosci. Ctr., 1Brigham Young Univ., Provo, UT; 4Dept. of Neurobio. and Anat., Univ. of Utah Sch. of Med., Salt Lake City, UT
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 068 - Motivation: Risky Behaviors	68.11 / SS15 - 5alpha-reductase type 2 contributes to emotion and mood regulation	*M. BORTOLATO ¹ , L. J. MOSHER ^{1,2} , S. C. GODAR ¹ , K. M. MCFARLIN ^{1,2} ; 1Pharmacol. and Toxicology, Univ. of Utah, Salt Lake City, UT; 2Pharmacol. and Toxicology, Univ. of Kansas, Lawrence, KS
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 095 - New Approaches for Neuromodulation	95.09 / KKK69 - Vestibular nuclear neurons of the vestibulo-sympathetic reflex (VSR) activated by pulsed infrared stimulation of vestibular end organs.	*G. R. HOLSTEIN ¹ , G. P. MARTINELLI ² , R. D. RABBITT ³ , S. M. RAJGURU ⁴ ; 1Depts Neurol, Neurosci, Anat/Cell Bio, 2Dept. Neurol., Icahn Sch. of Med. at Mount Sinai, New York, NY; 3Univ. of Utah, Salt Lake City, UT; 4Univ. of Miami, Miami, FL
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 043 - Ataxia	43.10 / M2 - Dysfunction of mGluR1 signaling as a potential cause for ATX2-mediated purkinje neuron death in a spinocerebellar ataxia 2 mouse model	*P. MEERA ¹ , S. M. PULST ² , T. S. OTIS ¹ ; 1Neurobio., Univ. of California Los Angeles, Los Angeles, CA; 2Neurol., Univ. of Utah, Salt Lake City, UT
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 073 - New Molecular Targets in Animal Models of Depression	73.14 / WW19 - Ablation of interferon inducible IFITM genes leads to anxiety- and depression- like behaviors	*S.-K. CHEN ¹ , W.-K. LIN ¹ , H.-C. CHANG ¹ , Y. WEE ³ , P.-W. CHU ² ; 1Inst. of Neurosci., 2Dept. of Psychology, Natl. Chengchi Univ., Taipei, Taiwan; 3Dept. of Pathology, Univ. of Utah, Salt Lake City, UT
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 043 - Ataxia	43.06 / L12 - ASO-mediated reduction of ATXN2 expression after motor phenotype onset in SCA2 mice restores cerebellar Purkinje cell electrophysiological phenotypes	*D. R. SCOLES ¹ , P. MEERA ² , M. SCHNEIDER ¹ , K. FIGUEROA ¹ , F. RIGO ³ , F. BENNETT ³ , T. OTIS ² , S. PULST ¹ ; 1Dept. of Neurol., Univ. of Utah, Salt Lake City, UT; 2Univ. of California Los Angeles, Los Angeles, CA; 3Ionis Pharmaceuticals, Carlsbad, CA
November 12, 2016, 1:00 - 5:00 PM	Halls B-H	Session 062 - Stress: Sex Differences	62.06 / MM7 - Sex, stress, and migraine: differential effects of stress on the migraine relevant responses of males and females	*D. KAUFMANN ¹ , K. C. BRENNAN ² ; 2Dept. of Neurol., 1Univ. of Utah, Salt Lake City, UT
November 13, 2016, 8:00 - 12:00 PM	Halls B-H	Session 133 - Animal Models of Parkinson's Disease and LID Therapy	133.05 / N1 - Inhibition of 5-alpha reductase reduces L-DOPA-induced dyskinesia in a rat model of Parkinson's disease	*R. FRAU ¹ , S. FANNI ¹ , C. FIDALGO ² , E. TRONCI ¹ , P. SABA ¹ , R. STANCAMPIANO ¹ , P. DEVOTO ¹ , M. BORTOLATO ³ ; 1Univ. of Cagliari, Cagliari, Italy; 2Univ. of Oviedo, Oviedo, Spain; 3Univ. of Utah, Salt Lake City, UT
November 13, 2016, 8:00 - 12:00 PM	Halls B-H	Session 121 - Kainate and Other Non-NMDA Receptors	121.09 / D16 - AMPA and Kainate Receptors are required for navigation in taxis behaviors in <i>C. elegans</i>	*P. J. MALDONADO-CATALA ¹ , P. J. BROCKIE ² , J. MELLEM ² , D. MADSEN ² , A. V. MARICQ ² ; 2Dept. of Biol., 1Univ. of Utah, Salt Lake City, UT
November 13, 2016, 8:00 - 12:00 PM	Halls B-H	Session 127 - Astrocyte Cell Biology and Modulation I	127.15 / G9 - The role of SOC channels and other calcium fluxes in astrocyte calcium signaling investigated through mathematical modeling	G. HANDY ¹ , M. TAHERI ¹ , J. A. WHITE ² , *A. BORISYUK ¹ ; 1Univ. of Utah, Salt Lake City, UT; 2Dept. of BME, Boston U., Boston, MA
November 13, 2016, 8:00 - 12:00 PM	Halls B-H	Session 127 - Astrocyte Cell Biology and Modulation I	127.16 / G10 - Diversity of GPCR-evoked calcium signaling in astrocytes investigated through experimental measurements and mathematical modeling	*M. TAHERI ¹ , G. HANDY ¹ , A. BORISYUK ¹ , J. A. WHITE ² ; 1Univ. of Utah, Salt Lake City, UT; 2Biomed. Engin., Boston Univ., Boston, MA
November 13, 2016, 8:00 - 12:00 PM	Halls B-H	Session 127 - Astrocyte Cell Biology and Modulation I	127.14 / G8 - Prodromal events in the propagation of cortical spreading depression	*P. M. SAWANT, J. M. MENDEZ, P. SURYAVANSHI, J. THERIOT, K. C. BRENNAN; Neurol., Univ. of Utah, Salt lake city, UT
November 13, 2016, 8:00 - 12:00 PM	Halls B-H	Session 118 - Axon Outgrowth and Guidance	118.26 / B26 - A novel developmental requirement for NMDA receptors in axon guidance is disrupted by hypoxic injury	*J. BONKOWSKY ¹ , J. GAO ² , T. STEVENSON ² ; 1Dept. of Pediatrics, Univ. of Utah Sch. of Med., Salt Lake City, UT; 2Univ. of Utah, Salt Lake City, UT

November 13, 2016, 8:00 - 12:00 PM	Halls B-H	Session 026 - Public Awareness of Neuroscience: Outreach	26.15SU / O004 - Neuroscience in Nicaragua: bringing brain awareness to developing nations	*E. RATZAN ¹ , P. PARKER ² , J. SIMCOX ³ , D. CHAVEZ ⁴ ; 1Neurobio. and Anat., 2Neurol., 3Biochem., 4Human Genet., Univ. of Utah, Salt Lake City, UT
November 13, 2016, 8:00 - 12:00 PM	Halls B-H	Session 164 - Stress: Hypothalamic Mechanisms	164.03 / XX4 - A conserved role for Lef1-mediated Wnt signaling in hypothalamic neurogenesis and anxiety	*Y. XIE ¹ , D. KAUFMANN ¹ , S. PANAH ¹ , J. A. GAYNES ¹ , D. ZHOU ² , H.-H. XUE ³ , C. M. FUNG ¹ , E. M. LEVINE ⁴ , K. BRENNAN ¹ , R. I. DORSKY ¹ ; 1Univ. of Utah, Salt Lake City, UT; 2Peking Univ., Beijing, China; 3Univ. of Iowa, Iowa City, IA; 4Vanderbilt Univ., Nashville, TN
November 13, 2016, 1:00 - 5:00 PM	Halls B-H	Session 265 - Human Learning: Perceptual, Motor, and Category	265.10 / JJJ23 - Human EEG exhibits task related changes in fractal scaling and dimensionality, congruent with a soft-assembled system	*T. L. MCKINNEY ¹ , T. J. WILTSHIRE ² , M. J. EULER ² , J. E. BUTNER ² ; 1Psychology, Univ. of Utah, Salt Lake City, UT; 2Psychology, University of Utah, Salt Lake City, UT
November 13, 2016, 1:00 - 5:00 PM	Halls B-H	Session 248 - Neuroprosthetics: Sensory Processing	248.09 / UU6 - The potential for evoking visual perception using epicortical microelectrodes: micro-stimulation of primary visual cortex in nonhuman primates	*D. OSWALT ¹ , D. ZHOU ² , D. TOBEY ² , P. DATTA ² , N. TALBOT ² , R. GREENBERG ² , L. RIETH ³ , R. SHARMA ³ , P. HOUSE ⁴ , B. GREGER ¹ ; 1Sch. of Biol. and Hlth. Systems Engin., Arizona State Univ., Tempe, AZ; 2Second Sight Med. Products, Sylmar, CA; 3Blackrock Microsystems, Salt Lake City, UT; 4Univ. of Utah, Salt Lake City, UT
November 13, 2016, 1:00 - 5:00 PM	Halls B-H	Session 272 - Data Analysis and Statistics: Software Tools II	272.09 / LLL47 - The real-time experiment interface: a hard real-time closed-loop data acquisition system with sub-millisecond latencies.	*A. GEORGE ¹ , Y. PATEL ² , F. ORTEGA ¹ , D. CHRISTINI ¹ , A. DORVAL ³ , R. BUTERA ² , J. WHITE ⁴ ; 1Weill Cornell Med. Col., New York, NY; 2Georgia Inst. of Technol., Atlanta, GA; 3The Univ. of Utah, Salt Lake City, UT; 4Boston Univ., Boston, MA
November 13, 2016, 1:00 - 5:00 PM	Halls B-H	Session 223 - Long-Term Depression	223.09 / N12 - The expression of mGluR5 predicts interneuron plasticity in the stratum radiatum	*T. M. NUFER ¹ , C. MERILL ³ , L. FRIEND ¹ , Z. HOPKINS ⁴ , J. EDWARDS ² ; 1Physiol. and Developmental Biol., 2Brigham Young Univ., Provo, UT; 3Univ. of California Irvine, Irvine, CA; 4Univ. of Utah Sch. of Med., Salt Lake City, UT
November 13, 2016, 1:00 - 5:00 PM	Halls B-H	Session 222 - Long-Term Potentiation: Pre- and Postsynaptic Mechanisms	222.14 / M9 - Increase in metabolic efficiency underlies Hebbian hippocampal long term potentiation	*P. MIRANDA ¹ , H.-A. PARK ¹ , P. LICZNEK ¹ , C. PEQUIGNOT ² , S. SACCHETTI ¹ , K. ALAVIAN ³ , H. LI ¹ , H. IMAMURA ⁴ , H. NOJI ⁵ , J. SHEPHERD ⁶ , A. E. CHAVES ⁷ , R. S. ZUKIN ⁷ , E. A. JONAS ¹ ; 1Yale Univ. Dept of Intrnl. Med., New Haven, CT; 2Yale Univ., New Haven, CT; 3Imperial Col., London, United Kingdom; 4Kyoto Univ., Kyoto, Japan; 5Univ. of Tokyo, Tokyo, Japan; 6Univ. of Utah Sch. of Med., Salt Lake City, UT; 7Albert Einstein Col. of Med., Bronx, NY
November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 310 - Parkinson's Disease: Cell and Circuit Mechanisms	310.20 / K5 - Development of an <i>In vivo</i> model of basal ganglia pathway isolation for study of information transmission	*K. M. LAMBERT ¹ , J. A. WHITE ² , A. D. DORVAL ¹ ; 1Univ. of Utah, Salt Lake City, UT; 2Boston Univ., Boston, MA
November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 303 - Oscillations and Synchrony: Unit Studies	303.01 / F27 - Intracellular dynamics during self-generated theta oscillations in the whole hippocampal preparation	*F. FURMANOV ^{1,2} , S. WILLIAMS ³ , J. A. WHITE ¹ ; 1Biomed. Engin., Boston Univ., Boston, MA; 2Interdepartmental Program in Neurosci., Univ. of Utah, Salt Lake City, UT; 3Dept. of Psychiatry, Douglas Mental Hlth. Univ. Institute, McGill Univ., Montreal, QC, Canada
November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 332 - Reaching: Human Motor-Learning and Adaptation	332.13 / LL7 - Selective retroactive interference between two different functional motor tasks: Effect of training order	*T. K. LUMBRERAS ¹ , C. S. WALTER ² , S. Y. SCHAEFER ³ ; 1Biol., Utah State Univ., Lewiston, UT; 2Physical Therapy, Univ. of Utah, Salt Lake City, UT; 3Arizona State Univ., Tempe, AZ
November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 367 - Staining, Tracing, and Imaging Techniques: Novel Probes	367.17 / NNN8 - Predictive sub-voxel fiber tractography of the primate limbic system using high-resolution confocal to diffusion-tensor MRI maps	*A. VAN HOEK ¹ , L. DAL ² , I. YEUNG ³ , O. ABDULLAH ⁴ , E. HSU ⁴ , S. JOSH ⁴ , J. R. KORENBERG ⁵ ; 1Neurol., 2Dept. of Pediatrics, Sch. of Med., 4Bioengineering, 5Pediatrics, Med. Genet., 3Univ. of Utah, Salt Lake City, UT
November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 355 - Animal Cognition: Memory Consolidation and Reconsolidation	355.12 / III33 - Paired and unpaired conditioning during aging: BDNF, GABA, glutamate and serotonin changes after memory consolidation	*C. E. VASQUEZ ¹ , V. MITCHELL ² , R. COSSIO ¹ , J. FORNAGUERA ³ , G. BRITTON ¹ ; 1INDICASAT AIP, Panama, Panama; 2Univ. of Utah, Salt Lake City, UT; 3Univ. de Costa Rica, San José, Costa Rica
November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 366 - Transsynaptic Tracing	366.02 / DP10 - High resolution and high field diffusion MRI in the visual system of primates	*J. R. KORENBERG ¹ , O. ABDULLAH ² , L. DAL ³ , J. TIPPETS ² , M. NAVAS-MORENO ⁴ , M. BURBACK ⁵ , A. ANGELUCCI ⁶ , E. HSU ² , S. JOSH ² ; 1Brain Institute, Pediatrics, Univ. of Utah, Salt Lake City, UT; 2Bioengineering, 3Dept. of Pediatrics, Sch. of Med., 4Brain Inst., 5Univ. of Utah, Salt Lake City, UT; 6Ophthalmology Res., Univ. of Utah/Moran Eye Ctr., Salt Lake City, UT
November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 362 - Cortical Control of Executive Function	362.24 / LLL40 - Sustained vs. instantaneous connectivity differentiates processing speed and fluid intelligence	*J. B. KING, A. K. MALLIK, L. M. SHAH, J. S. ANDERSON; Univ. of Utah, Salt Lake City, UT
November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 332 - Reaching: Human Motor-Learning and Adaptation	332.14 / LL8 - Motor skill transfer of functional tasks: Is task similarity important?	*C. WALTER ¹ , G. N. OLIVIER ¹ , L. G. RICHARDS ¹ , S. Y. SCHAEFER ^{1,2} ; 1Univ. of Utah, Salt Lake City, UT; 2Utah State Univ., Logan, UT

November 14, 2016, 8:00 - 12:00 PM	Halls B-H	Session 368 - Models of Excitability: Networks and Single Neurons I	368.05 / NNN21 - A closed-loop multi-scale simulation paradigm for accurate modeling of electrical stimulation in hippocampus	*P. HENDRICKSON ¹ , K. LOIZOS ² , A. GILBERT ² , D. SONG ¹ , G. LAZZI ² , T. W. BERGER ¹ ; ¹ USC, Los Angeles, CA; ² Electrical Engin., Univ. of Utah, Salt Lake City, UT
November 14, 2016, 9:45 - 10:00 AM	SDCC 30B	Session 286 - Structural Changes, Connectivity, and Deep Brain Stimulation Treatment in Parki	286.08 - DBS of the STN creates impulse control disorders and fails to restore parkinsonian apathy and action selection deficits.	*C. ANDERSON ; Univ. of Utah, Salt Lake City, UT
November 14, 2016, 10:00 - 10:15 AM	SDCC 2	Session 288 - Neural Coding in the Somatosensory System	288.09 - Microstimulation of residual nerve fibers with Utah Slanted Electrode Arrays can restore biologically realistic cutaneous and proprioceptive percepts after hand amputation	*G. A. CLARK , D. M. PAGE, D. T. KLUGER, S. M. WENDLEKEN, T. S. DAVIS, C. DUNCAN, D. T. HUTCHINSON; Bioengineering Dept., Univ. of Utah, Salt Lake City, UT
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 438 - Neuroprosthetics: Electrodes and Tissue	438.17 / WW15 - Chronic recording and stimulation of rodent peripheral nerves using implanted microelectrode arrays	*S. VASUDEVAN ¹ , K. PATEL ² , R. SHARMA ³ , R. CALDWELL ⁴ , L. RIETH ³ , C. WELLE ⁵ ; ¹ CDRH/OSEL/Division of Biomed. Physics, U.S. Food and Drug Admin., Silver Spring, MD; ² Univ. of Maryland, College Park, MD; ³ Electrical and Computer Engin., ⁴ Dept. of Bioengineering, Univ. of Utah, Salt Lake City, UT; ⁵ Departments of Neurosurg. and Bioengineering, Univ. of Colorado, Denver, CO
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 439 - Neuroprosthetics: Human Microelectrode-Based Control	439.16 / XX9 - Closed-loop control of a sensorized virtual prosthetic hand by a human subject after amputation	*D. T. KLUGER , D. M. PAGE, S. M. WENDELKEN, T. S. DAVIS, D. T. HUTCHINSON, C. DUNCAN, D. J. WARREN, G. A. CLARK; Bioengineering, Univ. of Utah, Salt Lake City, UT
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 428 - Pain: Thalamic and Cortical Processing	428.19 / MM1 - Hyperexcitability of somatosensory cortical neurons in CK1d migraine mutant mice.	*P. S. SURYAVANSHI ^{1,2} , P. A. SAWANT-POKAM ² , K. C. BRENNAN ² ; ¹ Univ. of Utah, Salt Lake City, UT; ² Neurol., Univ. of Utah, Salt lake city, UT
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 397 - AMPA Receptors	397.05 / E26 - Identification of a novel protein that regulates endosome pH, AMPAR trafficking and synaptic function	*A. J. KALLARACKAL ¹ , J. MELLEM ² , D. M. MADSEN ² , V. MARICQ ² ; ¹ Dept Biol., ² Biol., Univ. of Utah, Salt Lake City, UT
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 434 - Striate Cortex Plasticity I	434.10 / SS18 - Increasing Arc prolongs the critical period for juvenile plasticity in primary visual cortex	*T. KIM ¹ , E. D. PASTUZYNS ³ , K. R. JENKS ³ , H. OKUNO ⁴ , J. ICHIDA ³ , H. BITO ⁵ , M. F. BEAR ² , J. D. SHEPHERD ³ ; ¹ Brain and Cognitive Sci., ² The Picower Inst. for Learning and Memory, MIT, Cambridge, MA; ³ Neurobio. and Anat., Univ. of Utah, Salt Lake City, UT; ⁴ Med. Innovation Ctr., Kyoto Univ., Kyoto, Japan; ⁵ Neurochemistry, Univ. of Tokyo, Tokyo, Japan
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 438 - Neuroprosthetics: Electrodes and Tissue	438.09 / WW7 - Elucidating the role of macrophage lineage in the FBR to chronically implanted microelectrode arrays	*B. VELAGAPUDI , M. B. CHRISTENSEN, P. A. TRESKO; The Univ. of Utah, Salt Lake City, UT
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 442 - Neuroethology of Sensory and Motor Systems: Vertebrates	442.10 / AAA9 - Modulation of locomotor behaviors by a dopaminergic population in the zebrafish hypothalamus	*J. P. BARRIOS ¹ , A. D. MCPHERSON ³ , S. ANJEWIERDEN ² , J. B. NEWTON ² , S. J. LUKS-MORGAN ¹ , R. I. DORSKY ¹ , A. D. DOUGLASS ¹ ; ¹ Neurobio. and Anat., ² Bioengineering, Univ. of Utah, Salt Lake City, UT; ³ Univ. of California San Diego, San Diego, CA
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 444 - Social Communication in Non-Avian Models	444.20 / BBB25 - Call initiation in African clawed frogs	*A. YAMAGUCHI ; Biol., Univ. of Utah, Salt Lake City, UT
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 430 - Second-Order Processing of Olfactory Inputs	430.03 / NN9 - Control of mitral/tufted cell output by selective inhibition among olfactory bulb glomeruli	*M. WACHOWIAK ¹ , T. BOZZA ³ , K. R. HANSEN ² , M. N. ECONOMO ¹ ; ¹ Dept. of Neurobio. and Anat., ² Dept. of Bioengineering, Univ. of Utah, Salt Lake City, UT; ³ Neurobio., Northwestern Univ., Evanston, IL
November 14, 2016, 1:00 - 5:00 PM	Halls B-H	Session 438 - Neuroprosthetics: Electrodes and Tissue	438.10 / WW8 - Extracellular matrix coatings minimize the FBR to high density microelectrode arrays	*M. POLEI , P. A. TRESKO; Bioengineering, Univ. of Utah, Salt Lake City, UT
November 14, 2016, 1:15 - 1:30 PM	SDCC 30B	Session 379 - Axon and Dendrite Development and Regeneration	379.02 - Vangl2 directs stereotyped turning of peripheral neuronal processes during development of the mouse cochlea	*M. R. DEANS ¹ , S. R. GHIMIRE ² ; ¹ Surgery, ² Neurobio. & Anat., Univ. of Utah, Salt Lake City, UT
November 15, 2016, 8:00 - 12:00 PM	Halls B-H	Session 525 - Pain Models: Physiology	525.24 / SS11 - Identification of metabolite-sensing muscle afferents <i>In vivo</i> using GCaMP6s.	*K. M. SMITH-EDWARDS ¹ , A. R. LIGHT ² , C. J. WOODBURY ¹ ; ¹ Zoology & Physiol., Univ. of Wyoming, Laramie, WY; ² Univ. of Utah, Salt Lake City, UT

November 15, 2016, 8:00 - 12:00 PM	Halls B-H	Session 503 - Exocytosis and Endocytosis: Mechanisms and Regulation	503.13 / J8 - A chimeric approach to studying the Syntaxin Habc domain uncovers roles in exocytosis and Syntaxin trafficking	*L. A. PARRA, M. T. PALFREYMAN, E. M. JORGENSEN; Univ. of Utah, Salt Lake City, UT
November 15, 2016, 8:00 - 12:00 PM	Halls B-H	Session 533 - Reaching: Humans in Health and Disease	533.14 / AAA25 - Relationship between beta-amyloid deposition and motor ability, but not motor memory, in patients with amnesic Mild Cognitive Impairment	*S. Y. SCHAEFER ¹ , K. DUFF ² , J. M. HOFFMAN ² ; 1SBHSE, Arizona State Univ., Tempe, AZ; 2Univ. of Utah, Salt Lake City, UT
November 15, 2016, 8:00 - 12:00 PM	Halls B-H	Session 508 - Epilepsy: In Vivo and Behavior	508.02 / Q5 - Telemetric analysis of the dentate gyrus using the lithium/pilocarpine model of acquired epilepsy provides evidence for the progressive nature of epileptogenesis	*Z. Z. SMITH ¹ , F. E. DUDEK ² , D. S. BARTH ¹ ; 1Psychology and Neurosci., Univ. of Colorado Boulder, Boulder, CO; 2Dept. of Neurosurg., Univ. of Utah Sch. of Med., Salt Lake City, UT
November 15, 2016, 8:00 - 12:00 PM	Halls B-H	Session 503 - Exocytosis and Endocytosis: Mechanisms and Regulation	503.03 / I10 - Molecular mechanisms of ultrafast endocytosis	*S. WATANABE ¹ , L. E. MAMER ² , T. TRIMBUCH ² , M. CAMACHO-PÉREZ ³ , I. MILOSEVIC ⁴ , P. DE CAMILLI ⁵ , C. ROSENEMUND ³ , E. JORGENSEN ⁶ ; 1Dept. of Cell Biol., Johns Hopkins Univ., Baltimore, MD; 2Neurocare, Charité universitätsmedizin, Berlin, Germany; 3Neurocare, Charité Universitätsmedizin, Berlin, Germany; 4European Neurosci. Inst., Göttingen, Germany; 5Yale Univ., New Haven, CT; 6Dept. of Biol., Univ. of Utah, Salt Lake City, UT
November 15, 2016, 9:30 - 9:45 AM	SDCC 24A	Session 483 - Therapy of Parkinson's Disease: Alpha-Synuclein Target	483.07 - Accumulation of α -synuclein in SCA2 models	*D. P. HUYNH, W. DANSITHONG, S. PAUL, D. R. SCOLES, S. M. PULST; Dept Neurol, Univ. Utah, Salt Lake City, UT
November 15, 2016, 10:30 - 10:45 AM	SDCC 32B	Session 484 - Traumatic Brain Injury: Models, Mechanisms, and Deficits	484.11 - Intranasal administration of low-dose paclitaxel is neuroprotective for cognitive deficits after repeat concussive brain injury in mice	*M. M. CLINE ¹ , B. NEEL ¹ , C. CROSS ² , G. G. GARWIN ³ , J. YUMUL ¹ , D. MURRA ¹ , L. HYSYA ¹ , E. BRIM ¹ , S. MINOSHIMA ³ , D. J. CROSS ³ ; 1Univ. of Washington, Seattle, WA; 2Brown Univ., Providence, RI; 3Univ. of Utah, Salt Lake City, UT
November 15, 2016, 10:45 - 11:00 AM	SDCC 25A	Session 481 - Molecular and Cellular Mechanisms in Autism: Models and Other Developmental	481.12 - Parsing the genetic brain connectome using rare identical twins discordant for Down syndrome	*L. DAI ¹ , J. ANDERSON ² , M. BURBACK ³ , J. EDGIN ⁵ , G. GERIG ⁶ , J. R. KORENBERG ⁴ ; 1Brain Institute/Department of Pediatrics, Univ. of Utah Brain Inst., Salt Lake City, UT; 2Radiology, Univ. of Utah, University of Utah, UT; 4Pediatrics, Med. Genet., 3Univ. of Utah, Salt Lake City, UT; 5Psychology, Univ. of Arizona, Tucson, AZ; 6NYU Tandon Sch. of Engin., Brooklyn, NY
November 15, 2016, 1:00 - 5:00 PM	Halls B-H	Session 615 - Neuropathic Pain I	615.27 / LL5 - Purinergic dose response analysis in mouse dorsal root ganglion neurons	R. W. HUGHEN, K. J. VOLL, J. C. JENSEN, L. R. KEMKER, A. R. LIGHT, *J. ZHANG; Anesthesiol., Univ. of Utah, Salt Lake City, UT
November 15, 2016, 1:00 - 5:00 PM	Halls B-H	Session 583 - Mechanisms of Synapse Formation	583.17 / C30 - The neurodevelopmental disorder gene Kirrel3 regulates target-specific hippocampal mossy fiber synapse development	*E. A. MARTIN ¹ , D. WOODRUFF ² , R. RAWSON ² , A. SCHNEGGENBURGER ² , M. WILLIAMS ² ; 1Dept of Neurobio. and Anat., 2Univ. of Utah, Salt Lake City, UT
November 15, 2016, 1:00 - 5:00 PM	Halls B-H	Session 615 - Neuropathic Pain I	615.28 / LL6 - Mu and delta opioid receptors on muscle innervating group III/IV afferent neurons modulate muscle fatigue and ache	J. ZHANG ¹ , *A. R. LIGHT ³ , R. W. HUGHEN ³ , H. HUANG ¹ , W. TANG ² , J. C. JENSEN ² , S. A. LOW ⁴ , G. SCHERRER ⁵ ; 1Anesthesiol., 2Univ. of Utah, Salt Lake City, UT; 3Anesthesiol., Univ. of Utah Dept. of Anesthesiol., Salt Lake City, UT; 4Univ. of Arizona Col. of Med., Tucson, AZ; 5Anesthesiology, Mol. and Cell. Physiology, and Neurosurg., Stanford Univ. Sch. of Med., Palo Alto, CA
November 15, 2016, 1:00 - 5:00 PM	Halls B-H	Session 583 - Mechanisms of Synapse Formation	583.22 / D1 - Non-canonical heterophilic cadherin interactions contribute to layer specific hippocampal plasticity.	*R. BASU ¹ , X. DUAN ⁴ , M. TAYLOR ² , S. MURALIDHAR ² , J. HUNTER ² , M. YAMAGATA ⁴ , P. J. WEST ³ , M. E. WILLIAMS ² , J. R. SANES ⁴ ; 2Neurobio. and Anat., 3Dept. of Pharmacol. and Toxicology, 1Univ. of Utah, Salt Lake City, UT; 4Ctr. for Brain Sci. and Dept. of Mol. and Cell. Biol., Harvard Univ., Cambridge, MA
November 15, 2016, 1:00 - 5:00 PM	Halls B-H	Session 583 - Mechanisms of Synapse Formation	583.02 / C15 - The role of cadherin diversity in synapse development	*M. TAYLOR, R. BASU, M. E. WILLIAMS; Neurobio. and Anat., Univ. of Utah, Salt Lake City, UT
November 15, 2016, 1:00 - 5:00 PM	Halls B-H	Session 629 - Bird Song: Vocal Performance and Motor Control	629.15 / BBB7 - Identification of a neural circuit that carries viscerosensory feedback to forebrain song control nuclei	A. PERLEGOS ¹ , A. PERKES ¹ , J. MENDEZ ² , F. GOLLER ² , *M. F. SCHMIDT ¹ ; 1Univ. of Pennsylvania, Philadelphia, PA; 2Univ. of Utah, Salt Lake City, UT
November 15, 2016, 1:00 - 5:00 PM	Halls B-H	Session 585 - ADHD and Other Behavior Disorders	585.20 / E7 - Optimized stimulation protocol of the rIFG for the application of tDCS in children and adolescents with ADHD	*C. BREITLING ¹ , K. KRAUEL ^{1,4} , T. ZAEHLE ² , J. TEGELBECKERS ¹ , H.-H. FLECHTNER ¹ , V. LESSMANN ^{3,4} , C. SEIDENBECHER ^{5,4} , S. GULER ^{6,7} , M. DANNHAUER ⁶ ; 1Child- and Adolescent Psychiatry, 2Neurol., 3Inst. of Physiol., Otto-von-Guericke Univ., Magdeburg, Germany; 4Ctr. for Behavioral Brain Sci., Magdeburg, Germany; 5Dept. of Neurochemistry and Mol. Biol. and Dept. of Behavioral Neurol., Leibniz Inst. for Neurobio., Magdeburg, Germany; 6Scientific Computing and Imaging Institute, Ctr. for Integrated Biomed. Computing, Univ. of Utah, Salt Lake City, UT; 7Dept. of Electrical and Computer Engineering, Northeastern Univ., Boston, MA

November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 697 - Alzheimer's Disease: Imaging Techniques	697.04 / T3 - Using ultra-short echo time (UTE) MRI to visualize Alzheimer's and cerebrovascular disease pathophysiology	*J. J. WISCO ^{1,4} , A. NAZARAN ² , D. JEFFS ² , B. HELDT ¹ , J. KUDLACEK ¹ , H. W. LAMBERT ⁵ , D. A. MORTON ⁴ , R. K. WATT ³ , H. V. VINTERS ⁶ , N. K. BANGERTER ² ; 1Physiol. and Developmental Biol., 2Dept. of Electrical and Computer Engineering, Neurosci. Ctr., 3Chem. and Biochem., Brigham Young Univ., Provo, UT; 4Neurobio. and Anat., Univ. of Utah Sch. of Med., Salt Lake City, UT; 5Neurobio. and Anat., West Virginia Univ. Sch. of Med., Morgantown, WV; 6Pathology and Lab. Med., David Geffen Sch. of Med. at UCLA, Los Angeles, CA
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 724 - Defensive Behavior and Aggression	724.12 / WW6 - Gene x environment interactions in pathological aggression modify the expression and function of CB1 receptors: relevance to the comorbidity between antisocial behavior and cannabis use	*K. M. MCFARLIN ^{1,2} , M. BORTOLATO ² ; 1Univ. of Kansas, Lawrence, KS; 2Dept. of Pharmacol. and Toxicology, Univ. of Utah, Salt Lake City, UT
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 690 - Epilepsy: Anticonvulsant Therapies	690.19 / M2 - Staged anticonvulsant screening for chronic epilepsy	*Y. SAPONJIAN ^{1,2} , Y. BERDICHEVSKY ³ , K.-I. PARK ⁴ , B. ROACH ⁵ , W. POULIOT ⁵ , K. LU ⁶ , W. SWIERCZ ^{1,2} , E. DUDEK ⁵ , K. STALEY ^{1,2} ; 1Neurol. Dept., Massachusetts Gen. Hosp., Charlestown, MA; 2Harvard Med. Sch., Boston, MA; 3Dept. of Electrical and Computer Engin., Lehigh Univ., Bethlehem, PA; 4Dept. of Neurol., Seoul Natl. Univ. Hosp. Healthcare Syst. Gangnam Ctr., Seoul, Korea, Republic of; 5Dept. of Neurosurg., Univ. of Utah Sch. of Med., Salt Lake City, UT; 6Boston Univ. Sch. of Med., Boston, MA
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 679 - Genetic Mechanisms in Autism Models	679.13 / E12 - Identifying potentially haploinsufficient genes in 22q13 deletion syndrome	*A. R. MITZ ¹ , A. SHCHEGLOVITOV ² , L. BOCCUTO ^{3,4} , A. THURM ⁵ ; 1Lab. of Neuropsychology, NIH, Bethesda, MD; 2Dept. of Neurobio. & Anat., Univ. of Utah, Salt Lake City, UT; 3JC Self Res. Inst. of the Greenwood Genet. Ctr., Greenwood, SC; 4Clemson Univ. Sch. of Hlth. Res., Clemson, SC; 5Pediatrics and Developmental Neuropsychiatry Br., Natl. Inst. of Mental Hlth., Bethesda, MD
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 713 - Visual Cortex Dynamic Properties	713.13 / II10 - Gamma oscillations as a marker of collinear horizontal and feedback connectivity in primate primary visual cortex	*M. BIJANZADEH ¹ , A. ANGELUCCI ² ; 1Moran Eye Inst., Neurosci. program, Univ. of Utah, Salt Lake City, UT; 2Moran Eye Inst., Salt Lake City, UT
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 724 - Defensive Behavior and Aggression	724.16 / WW10 - mGluR2 mediates the interaction between low MAO A activity and early stress model of aggression	*S. C. GODAR ^{1,2} , L. J. MOSHER ^{1,2} , C. M. JONES ¹ , H. STRATHMAN ¹ , S. SCHEGGI ³ , C. GAMBARANA ³ , M. DE MONTIS ³ , M. BORTOLATO ² ; 1Pharmacol. and Toxicology, Univ. of Kansas, Lawrence, KS; 2Pharmacol. and Toxicology, Univ. of Utah, Salt Lake City, UT; 3Mol. and Developmental Med., Univ. of Siena, Siena, Italy
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 700 - Parkinson's Disease: Biomarkers and Therapeutics	700.15 / X2 - Optimized programming algorithm for cylindrical and directionally segmented deep brain stimulation electrodes	*D. N. ANDERSON, B. OSTING, A. DORVAL, C. R. BUTSON; Univ. of Utah, Salt Lake City, UT
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 700 - Parkinson's Disease: Biomarkers and Therapeutics	700.23 / X10 - Stimulation of the subthalamic nucleus exacerbates dysarthria in a rat model of Parkinsonism	*A. D. DORVAL ¹ , N. O. KING ³ , C. J. ANDERSON ² ; 1Dept. of Bioengineering, 2Dept. of Neurol., Univ. of Utah, Salt Lake City, UT; 3Dept. of Biomed. Engin., Washington Univ., St. Louis, MO
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 713 - Visual Cortex Dynamic Properties	713.16 / II13 - Optogenetic inactivation of V2 feedback to primate V1 affects contrast gain, receptive field size and near surround suppression	*L. NURMINEN, S. MERLIN, M. BIJANZADEH, F. FEDERER, A. ANGELUCCI; Moran Eye Ctr., Univ. of Utah, Salt Lake City, UT
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 697 - Alzheimer's Disease: Imaging Techniques	697.03 / T2 - Relationship between ¹⁸ F-Flutemetamol uptake and RBANS performance in non-demented community-dwelling older adults	*T. ATKINSON ¹ , D. B. HAMMERS ¹ , B. C. ALLRED DALLEY ¹ , K. R. SUHRIE ¹ , B. BEARDMORE ² , L. BURRELL ² , K. RASMUSSEN ² , K. DUFF ¹ , J. M. HOFFMAN ² ; 1Neurol., 2Huntsman Cancer Inst., Univ. of Utah, Salt Lake City, UT
November 16, 2016, 8:00 - 12:00 PM	Halls B-H	Session 721 - Motor Systems: Oral Motor and Speech	721.10 / TT12 - Paralyzed recurrent laryngeal nerves demonstrate significant differences in morphometric parameters compared with non-paralyzed nerve	*M. B. CHRISTENSEN ¹ , A. HELLER ² , M. R. CHAO ¹ , K. A. HOWE ³ , J. L. PIERCE ² , M. E. SMITH ⁴ ; 1Bioengineering, 2Communication Sci. and Disorders, 3Biol./4Otolaryngology/Head and Neck Surgery, Univ. of Utah, Salt Lake City, UT
November 16, 2016, 1:00 - 5:00 PM	Halls B-H	Session 843 - Language in Normal and Damaged Brains	843.20 / LLL6 - Phase analysis of network dynamics in human simple language production: formation and temporal evolution of reciprocal networks between primary language areas	*K. J. O'NEILL, III, P. A. HOUSE ² , B. GREGER ¹ ; 1Sch. of Biol. Hlth. Sci. and Engin., Arizona State Univ., Tempe, AZ; 2Dept. of Neurosurg., Univ. of Utah, Salt Lake City, UT
November 16, 2016, 1:00 - 5:00 PM	Halls B-H	Session 807 - Motor Systems and Plasticity in Voluntary Movement	807.27 / II1 - Cortical network targets of cerebellar transcranial magnetic stimulation	*M. A. HALKO ¹ , M. DANNHAUER ² , R. MACLEOD ² , D. BROOKS ³ , A. PASCUAL-LEONE ¹ ; 1Neurol., Beth Israel Deaconess Med. Ctr., Boston, MA; 2Univ. of Utah, Salt Lake City, UT; 3Northeastern Univ., Boston, MA

November 16, 2016, 1:00 - 5:00 PM	Halls B-H	Session 821 - Stress and Trauma: Therapeutics	821.05 / XX2 - 5alpha-reductase mediates sensorimotor gating deficits induced by stress	*L. J. MOSHER ^{1,2} , S. C. GODAR ² , M. BORTOLATO ² ; ¹ Pharmacol. and Toxicology, Kansas Univ., Lawrence, KS; ² Pharmacol. and Toxicology, Univ. of Utah, Salt Lake City, UT
November 16, 2016, 2:10 - 2:45 PM	SDCC 6A	Session 759 - The Ultrastructural Basis of Synaptic Transmission and	759.03 - Ultrafast endocytosis at synapses	E. M. Jorgensen ; Biology, University of Utah, SALT LAKE CTY, UT.
November 16, 2016, 3:15 - 3:30 PM	SDCC 1B	Session 774 - New Electrode Technologies	774.10 - Impedance stability, long-term stimulation stability, and efficacy of IrOx tip metallization for Utah electrode arrays	*L. RIETH ^{1,3} , B. BAKER ¹ , R. CALDWELL ² , H. MANDAL ³ , R. SHARMA ¹ ; ¹ Electrical and Computer Engin., ² Dept. of Bioengineering, Univ. of Utah, Salt Lake City, UT; ³ Blackrock Microsystems, Salt Lake City, UT