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Subject: NB Labs Multichannel Electrodes and Headstages.

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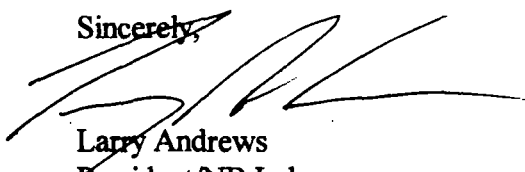
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Larry Andrews
President/NB Labs
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PUBLISHED PAPERS USING NB LABS PRODUCTS

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ABSTRACTS USING NB LABS PRODUCTS

SOCIETY FOR NEUROSCIENCE ABSTRACTS, VOLUME 16, 1990

- 105.9 MULTI-CHANNEL SINGLE-UNIT RECORDINGS FROM AWAKE, FREELY MOVING RATS WITH 6-OHDA-INDUCED DAMAGE TO THE DOPAMINERGIC NIGROSTRIATAL PROJECTION.
S.F. Sawyer, C. Myre, B.N. Lee, B.N. Maddux and D.J. Woodward
- 110.10 ACTIVITY OF NEURONS IN NUCLEUS ACCUMBENS DURING COCAINE SELF-ADMINISTRATION IN FREELY MOVING RATS.
I.Y. Chang, S.F. Sawyer, R.-S. Lee, B.N. Maddux and D.J. Woodward
- 176.17 EFFECTS OF SYSTEMIC OF ETHANOL AND BEHAVIOR ON MANY-NEURON ACTIVITY IN RAT NEOSTRIATUM AND NUCLEUS ACCUMBENS DURING LONG-TERM ON-OFF TREADMILL LOCOMOTOR BEHAVIOR.
R.-S. Lee, B.N. Maddux and D.J. Woodward

SOCIETY FOR NEUROSCIENCE ABSTRACTS, VOLUME 17, 1991

- 248.17 MULTI NEURAL RESPONSES IN THE SI AND MI CORTEX DURING LEARNING OF A STIMULUS CUED MOTOR TASK.
J.K. Chapin and R.T. Marjano
- 248.19 MODELING THE CIRCUIT CHARACTERISTICS WHICH MAY UNDERLIE OSCILLATORY NNPROPERTIES OF THALAMOCORTICAL NETWORKS.
T. Fisher, A. Gupta, M.A.L. Nicolelis and J.K. Chapin
- 248.20 APPLYING MULTI-SINGLE UNIT RECORDING TECHNIQUES TO THE STUDY OF PLASTICITY AT MULTIPLE LEVELS OF THE RAT TRIGEMINAL PATHWAY.
M.A.L. Nicolelis, R.C.S. Lin and J.K. Chapin
- 482.8 CHRONIC MULTI-CHANNEL SINGLE-UNIT RECORDINGS FROM 6-OHDA- TREATED RATS DURING L-DOPA-INDUCED CIRCLING.
S.F. Sawyer, C.D. Myre and D.J. Woodward
- CORRELATION BETWEEN NUCLEUS ACCUMBENS NEURONAL ACTIVITY AND COCAINE SELF-ADMINISTRATION BEHAVIOR IN RATS.
I.Y. Chang, S.F. Sawyer, R.-S. Lee and D.J. Woodward

SOCIETY FOR NEUROSCIENCE ABSTRACTS, VOLUME 18, 1992

- 65.17 OSCILLATORY PROPERTIES OF NEURONS IN A NEWLY DEFINED REGION OF THE PRETECTAL AREA.
Rowshanak Hashemivoon and John J. Chapin
- 294.12 CHRONIC ENSEMBLE NEURON RECORDINGS IN RAT NEOSTRIATUM AFTER 6-OHDA: NETWORK PROPERTIES.
S.F. Sawyer, A.B. Kirillov, C.D. Myre and D.J. Woodward
- 355.18 ENSEMBLE NEURON ACTIVITY IN MEDIAL FRONTAL CORTEX OF AN AWAKE BEHAVING ANIMAL: ADVANCES IN METHODOLOGY.
J.M. Paris, S.F. Sawyer, A. Kirillov, and D.J. Woodward
- 375.5 ACTIONS OF DRUGS OF ABUSE ON REWARD-RELATED ACTIVITY IN NEURONS OF THE VENTRAL TEGMENTAL AREA AND PREFRONTAL CORTEX IN THE RAT.
A.E. Kosobud, G.C. Harris and J.K. Chapin
- 438.6 ALTERATIONS IN THE PHYSIOLOGY OF THE ROSTRAL DORSAL ACCESSORY OLIVE (rDAO) ACROSS HORMONE STATES.
Sheryl S. Smith
- 445.9 FUNCTIONAL SIGNIFICANCE OF ANATOMIC CONNECTIONS BETWEEN CA1 AND CA3 HIPPOCAMPAL CELLS DURING DELAYED MATCH TO SAMPLE BEHAVIOR IN THE RAT.
R.E. Hampson, M.T. Kirby, K.E. Alexander, V.C. King, and S.A. Deadwyler

- 584.9 SENSORY AND OSCILLATORY PROPERTIES OF SIMULTANEOUSLY RECORDED MULTI- SINGLE UNITS IN THE THALAMIC RETICULAR NUCLEUS OF THE RAT.
T.M. Fisher, M.A.L. Nicolelis, and J.K. Chapin
- 584.10 MULTIVARIATE STATISTICAL TECHNIQUES ALLOW CHARACTERIZATION OF DISTRIBUTED POPULATION CODES IN SIMULTANEOUSLY RECORDED NEURONAL ENSEMBLES.
L. Bacala, M.A.L. Nicolelis, and J.K. Chapin
- 584.11 DISTRIBUTED PROCESSING OF SOMATIC INFORMATION BY NETWORKS OF THALAMIC CELLS INDUCES TIME-DEPENDENT SHIFTS OF THEIR RECEPTIVE FIELDS.
M.A.L. Nicolelis, Rick C.S. Lin, and J.K. Chapin
- 584.12 SOMATOSENSORY STIMULATION SUPPRESS 8-12 Hz OSCILLATIONS IN THE VENTRAL POSTERIOR COMPLEX OF AWAKE RATS AS PREDICTED BY A COMPUTER MODEL.
Amitabha Gupta, Miguel A.L. Nicolelis, and John K. Chapin
- 656.9 ELECTROPHYSIOLOGICAL RECORDINGS OF NUCLEUS ACCUMBENS NEURONAL ACTIVITY DURING A MODIFIED FR-3 SCHEDULE FOR COCAINE SELF-ADMINISTRATION.
D.J. Woodward, J.Y. Chang, and S.F. Sawyer

SOCIETY FOR NEUROSCIENCE ABSTRACTS, VOLUME 19, 1993

- 49.2 CHRONIC, SIMULTANEOUS RECORDINGS OF ENSEMBLES OF SINGLE NEURONS ACROSS ALL LEVELS OF THE TRIGEMINAL PATHWAY IN AWAKE RATS. OBSERVING THE FUNCTIONAL DYNAMICS OF A SENSORY PATHWAY AT WORK.
M.A.L. Nicolelis, C.S. Lin, and J.K. Chapin
- 49.3 DEVELOPMENTAL PLASTICITY IN THE RODENT VPM THALAMUS RESEMBLES LONG-TERM THALAMIC REORGANIZATION OBSERVED IN ADULT PRIMATES.
D.S. Lin, M.A.L. Nicolelis, M.E. Diamond, and J.K. Chapin
- 49.4 PHASE RELATIONSHIPS BETWEEN OSCILLATORY DISCHARGES RECORDED SIMULTANEOUSLY AT CORTICAL, THALAMIC AND BRAINSTEM LEVELS.
John K. Chapin, and Miguel A.L. Nicolelis
- 49.5 QUANTIFYING THE CONNECTIVITY PROPERTIES UNDERLYING THE DYNAMICS OF THE RODENT TRIGEMINAL NETWORK.
L.A. Baccala, M.A.L. Nicolelis, and J.K. Chapin
- 215.13 DIFFERENTIAL PHASIC MODULATION OF SHORT AND LONG LATENCY AFFERENT SENSORY TRANSMISSION TO SINGLE NEURONS IN THE VPL THALAMUS IN BEHAVING RATS.
H.C. Shin, H.J. Park, and J.K. Chapin
- 418.4 RESPONSES OF NUCLEUS ACCUMBENS NEURONS TO NOVELTY STIMULI AND HEROIN SELF-ADMINISTRATION IN THE FREELY-MOVING RAT.
R.-S. Lee, S.C. Steffensen, G.F. Koob, R.L. Howard, R. Lintz, G. Berg and S.J. Henriksen
- 650.8 NEURONAL ENSEMBLES IN RAT NEOSTRIATUM COACTIVATED ACROSS DIFFERENT BEHAVIORS.
A.B. Kirillov, S.F. Sawyer and D.J. Woodward
- 660.6 MODELING OF SPATIAL VS BEHAVIORAL FIRING OF HIPPOCAMPAL COMPLEX SPIKE CELLS.
R.E. Hampson, T. Bunn, D.R. Byrd and S.A. Deadwyler
- 759.6 FIRING PATTERNS OF NUCLEUS ACCUMBENS NEURONS DURING COCAINE SELF- ADMINISTRATION AND APPETITIVE REINFORCEMENT IN RATS.
R.M. Carelli, V.C. King, and S.A. Deadwyler
- 759.9 ENSEMBLE RECORDING IN FRONTAL CORTEX AND NUCLEUS ACCUMBENS IN FREELYMOVING RATS DURING COCAINE SELF-ADMINISTRATION.
J.Y. Chang, J.M. Paris, S.F. Sawyer and D.J. Woodward

SOCIETY FOR NEUROSCIENCE ABSTRACTS, VOLUME 20, 1994

- 57.2 NEURONAL RESPONSES IN RAT VIBRISSA CORTEX DURING BEHAVIOR.
M.S. Fee and D. Kleinfeld
- 57.19 DECODING SENSORIMOTOR POPULATION CODES USING DISCRIMINANT AND CANONICAL CORRELATION ANALYSIS.
John K. Chapin and Miguel A.L. Nicolelis
- 57.20 NEONATAL IMPAIRMENT OF ACTIVE WHISKER MOVEMENTS DISRUPTS THE SPATIOTEMPORAL ORGANIZATION OF RECEPTIVE FIELDS IN THE RAT SOMATOSENSORY THALAMUS.
M.A.L. Nicolelis, R.C.S. LIN and J.K. Chapin
- 187.7 POPULATION ANALYSES REVEAL THAT RAT HIPPOCAMPUS ENCODES BOTH SPATIAL AND TASK-SPECIFIC INFORMATION DURING DELAYED-NONMATCH-TO-SAMPLE TASKS.
R.E. Hampson, D.R. Byrd and S.A. Deadwyler
- 327.6 NEURONAL ACTIVITIES IN THE STRIATUM DURING PERFORMANCE OF A REACTION-TIME TASK.
S.F. Sawyer, M.G. Laubach, A.B. Kirillov and D.J. Woodward
- 327.7 NEURONAL ACTIVITIES IN BASAL GANGLION AND FRONTAL CORTEX DURING DELAYED MATCH TO SAMPLE TASK IN FREELY MOVING RATS.
J.-Y. Chang, M.G. Laubach, A. Kirillov and D.J. Woodward
- 327.8 ENCODING OF A SEQUENCE OF BEHAVIORAL EVENTS BY NEURONAL ENSEMBLES IN THE STRIATUM.
M.G. Laubach, S.F. Sawyer, A.B. Kirillov and D.J. Woodward
- 332.4 COMPARISON OF HIPPOCAMPAL SINGLE CELL ACTIVITY DURING HIPPOCAMPAL-DEPENDENT AND HIPPOCAMPAL-INDEPENDENT EYEBLINK CONDITIONING.
C. Weirs, M.A. Kronforst and J.F. Disterhoft
- 338.15 ENSEMBLE NEURAL ACTIVITY IN THE PARAVENTRICULAR NUCLEUS (PVN) OF THE AWAKE RAT: RELATION TO FEEDING CYCLES.
J.M. Paris, R.V. Subrahmanyam, A. Kirillov, S.F. Leibowitz and D.J. Woodward
- 339.7 EFFECTS OF STRESS ON VENTRAL TEGMENTAL UNIT ACTIVITY IN FREELY-BEHAVING RAT.
J.W. Smythe and A. Gratton
- 485.13 SIMULTANEOUS RECORDINGS OF MULTI-SINGLE NEURONAL ENSEMBLES IN THE SUBCORTICAL VISUAL SYSTEM REVEAL PROPAGATION OF OSCILLATORY WAVES.
Rowshanak hashemiyoon and John K. Chapin
- 658.8 NALOXONE FAILS TO BLOCK INHIBITORY EFFECTS OF ETHANOL ON SPONTANEOUS AND AMYGDALA-EVOKED SINGLE UNIT ACTIVITY OF NUCLEUS ACCUMBENS NEURONS.
R.-S. Lee, J.R. Criado, G.I. Berg and S.J. Henriksen
- 714.5 17 β -ESTRADIOL ALTERS SENSORY PROCESSING IN WHISKER RESPONSIVE CELLS OF PRINCIPAL TRIGEMINAL (PrV) AND DORSAL ACCESSORY OLIVARY (rDAO) NUCLEI OF THE RAT.
M.C. Kennedy, S.S. Smith, M.A.L. Nicolelis and J.K. Chapin
- 714.6 LOCAL APPLICATION OF ESTRADIOL FACILITATES SYNCHRONIZED RHYTHMIC OLIVARY ACTIVITY.
Sheryl S. Smith

SOCIETY FOR NEUROSCIENCE ABSTRACTS, VOLUME 21, 1995

- 51.4 THE VARIABILITY OF EXTRACELLULAR SPIKE WAVEFORMS IS NOT RANDOM: NEW ALGORITHMS FOR SPIKE SORTING.
P.P. Mitra, M.S. Fee and D. Kleinfeld
- 51.5 TEMPORAL CORRELATIONS BETWEEN SINGLE UNITS IN SI VIBRISSEAL CORTEX AND MYSTACIAL ELECTROMYOGRAPHIC ACTIVITY IN RAT.
M.S. Fee, P.P. Mitra and D. Kleinfeld

- 51.8 REVERBERATORY INTERACTIONS BETWEEN VPM THALAMUS AND SI CORTEX DURING PROCESSING OF SOMATOSENSORY STIMULI IN AWAKE RATS.
J.K. Chapin and M.A.L. Nicolelis
- 54.1 NEONATAL WHISKER REMOVAL ALTERS ENCODING OF TACTILE INFORMATION IN THE RAT VPM THALAMUS.
L.A. Baccala, J.K. Chapin and M.A.L. Nicolelis
- 54.2 BEYOND THE BARRELS: THE ANATOMICAL AND FUNCTIONAL ORGANIZATION OF CORTICOFUGAL PROJECTIONS IN THE RAT SOMATOSENSORY SYSTEM.
S. Casal, B. Carswell, L.M. Olivera and M.A.L. Nicolelis
- 54.3 DISTRIBUTED PROCESSING OF TACTILE INFORMATION BY MULTIPLE CORTICAL AREAS IN THE RAT.
A.A. Ghazanfar, B. Faggin and M.A.L. Nicolelis
- 170.6 HOW ARE BEHAVIORAL EVENTS ENCODED BY SINGLE NEURONS AND NEURAL ENSEMBLES IN THE STRIATUM?
M.G. Laubach, A.B. Kirillov and D.J. Woodward
- 176.10 CHOLINERGIC AND DOPAMINERGIC MODULATION OF CENTRAL AUDITORY PROCESSING IN A COMPUTER MODEL OF THE CA3 REGION OF THE HIPPO CAMPUS.
K.A. Flach, G.A. Gerhardt and L.E. Adler
- 266.3 SPATIOTEMPORAL RESPONSES PROPERTIES OF SUBCORTICAL VISUAL SYSTEM OSCILLATIONS.
Rowshanak Hashemivoon and John K. Chapin
- 285.6 INCREASED CROSS-CORRELATION OF ACCUMBENS NEURAL ACTIVITY UNIQUE TO COCAINE SELF-ADMINISTRATION IN RATS.
R.M. Carelli and S.A. Deadwyler
- 292.14 RESPONSES OF NUCLEUS ACCUMBENS NEURONS TO HEROIN: SELF-ADMINISTRATION BEHAVIOR, ANTAGONISM BY NALOXONE AND RE-ACQUISITION IN THE FREELY MOVING RATS.
R.-S. Lee, M. Piercy, G.F. Koob and S.J. Henriksen
- 292.15 ACUTE EFFECTS OF HEROIN AND ETHANOL ON AMYGDALA-DRIVEN NUCLEUS ACCUMBENS (NAcc) NEURONS.
J.R. Criado, G.I. Berg, R.-S. Lee and S.J. Henriksen
- 292.16 INHIBITION OF VTA INTERNEURONS AND NUCLEUS ACCUMBENS NEURONS BY OPIOIDS.
S.J. Henriksen, R.-S. Lee, J.H. Mayer and S.C. Steffensen
- 348.10 EFFECTS OF A SALT LOAD ON ENSEMBLE UNIT ACTIVITY IN THE PARAVENTRICULAR NUCLEUS (PVN) OF THE AWAKE, BEHAVING RAT.
J.M. Paris, R.V. Subrahmanyam, M.F. Callahan and D.J. Woodward
- 465.8 REAFFERENCE AND RHINENCEPHALIC MARKERS DURING OLFACTORY PERCEPTION IN RATS.
L.M. Kay and W.J. Freeman
- 486.2 ETHANOL ALTERS THE RESPONSE PROPERTIES OF NEURONS IN THE STRIATUM OF THE AWAKE, BEHAVING RAT.
P.H. Janak, M.G. Laubach and D.J. Woodward
- 751.8 ESTRADIOL FACILITATES SYNCHRONIZED OLIVARY OSCILLATIONS DURING WHISKER MOVEMENT IN THE RAT INDEPENDENT OF INPUT FROM THE PRINCIPAL TRIGEMINAL NUCLEUS (PrV) OR THE SPINAL NUCLEUS OF V (SpV).
R.L. Markowitz, J.K. Chapin, T.M. Fisher and S.S. Smith
- 758.14 THE EFFECT OF -THC ON NEURONAL ACTIVITY IN THE FRONTAL CORTICAL-BASAL GANGLIA SYSTEM DURING A DELAYED MATCH TO SAMPLE TASK IN RATS.
J.-Y. Chang, M.G. Laubach, A.B. Kirillov and D.J. Woodward
- 759.7 HIPPOCAMPAL CA1 SINGLE NEURON ACTIVITY DURING TRACE EYEBLINK CONDITIONING.
C. Wehrs, M.A. Kronforst and J.F. Disterhoft
- 815.10 RETRODICTING SENSORY STIMULI AND PREDICTING MOTOR BEHAVIOR FROM NEURAL ACTIVITY.
G. Gaal, L.M. Kay and W.J. Freeman

SOCIETY FOR NEUROSCIENCE ABSTRACTS, VOLUME 22, 1996

- 16.6 SIMULTANEOUS NEURONAL ENSEMBLE RECORDINGS AT MULTIPLE TRIGEMINAL SYSTEM LEVELS: SELECTIVE CORTICAL RESPONSIVENESS TO ACTIVE DISCRIMINATIVE WHISKING.
John K. Chapin, Ronald S. Markowitz, Miguel A.L. Nicolelis
- 47.8 SPATIOTEMPORAL REPRESENTATION OF MULTI-WHISKER STIMULI IN THE THALAMOCORTICAL LOOP.
A.A. Ghazanfar, L.M.O. Oliveira, V.S. Votaw, and M.A.L. Nicolelis
- 48.8 IMMEDIATE AND SIMULTANEOUS REORGANIZATION IN THE BRAINSTEM, THALAMUS, AND CORTEX INDUCED BY PERIPHERAL DEPRIVATION.
B.M. Faggin, K.T. Nguyen and M.A.L. Nicolelis
- 74.6 RESPONSES OF NUCLEUS ACCUMBENS AND VTA NONDOPAMINE NEURONS TO HEROIN IN FREELY-MOVING RATS.
R.S. Lee, P. Griffin, S.C. Steffensen, S. Casaman, and S.J. Henriksen
- 74.7 ENSEMBLE NEURAL ACTIVITY IN THE NUCLEUS ACCUMBENS (NAc) AND PREFRONTAL CORTEX (PFC) OF THE AWAKE RAT DURING FOOD AND WATER REINFORCEMENT, AND HEROIN SELF-ADMINISTRATION.
RV. Subrahmanyam, JM Paris, J-Y Chang, DJ Woodward
- 74.16 PHARMACOLOGICAL CHARACTERIZATION OF OPIATE INTERACTIONS WITH NAcc NEURONS IN VIVO.
J.R. Criado, G.J. Berg, R.S. Lee, S.C. Dulawa and S.J. Henriksen
- 171.19 CORTICOSTERONE MODULATES HIPPOCAMPAL CHOLINERGIC THETA ACTIVITY VIA MINERALOCORTICOID RECEPTORS.
D. Murphy, B. Costall and J.W. Smythe
- 185.4 SINGLE UNIT RESPONSES RECORDED IN THE NUCLEUS ACCUMBENS OF RATS DURING ETHANOL SELF-ADMINISTRATION ARE RELATED TO BOTH OPERANT RESPONDING AND REINFORCER DELIVERY.
P.H. Janak and D.J. Woodward
- 355.1 CORRELATION BETWEEN SINGLE-UNIT ACTIVITY AND THE AUDITORY EVOKED RESPONSE TO PAIRED CLICK STIMULI IN THE RAT.
K.A. Flach, R. Johnson, G.M. Rose, G.A. Gerhardt, L.E. Adler and P. Bickford
- 363.4 ASSOCIATIVE FACTORS CONTROL ACCUMBENS CELL FIRING DURING COCAINE SELF-ADMINISTRATION IN RATS.
R.M. Carelli and S.A. Deadwyler
- 363.6 EFFECTS OF CONTINGENT VS. NONCONTINGENT INTRAVENOUS COCAINE INFUSIONS ON THE FIRING PATTERNS OF INDIVIDUAL NEURONS IN THE NUCLEUS ACCUMBENS OF RATS.
L.L. Peoples, A.J. Uzwiak and M.O. West
- 363.9 SINGLE NEURONAL ACTIVITY IN MESOLIMBIC SYSTEM DURING COCAINE AND HEROIN SELF-ADMINISTRATIONS IN FREELY MOVING RATS.
J.-Y. Chang and D.J. Woodward
- 363.10 PHASIC FIRING PATTERNS RECORDED FROM INDIVIDUAL NUCLEUS ACCUMBENS NEURONS DURING COCAINE APPETITIVE BEHAVIOR.
A.J. Uzwiak, M.O. West and L.L. Peoples
- 420.8 HIGH RESOLUTION IMAGING OF RAT NEOCORTICAL NEURONS IN VIVO USING TWO-PHOTON EXCITATION LASER SCANNING MICROSCOPY.
D.W. Tank, K. Svoboda, R.A. Stepanoski, D. Kleinfeld, W. Denk
- 420.9 IN VIVO OPTICAL IMAGING OF DENDRITIC CALCIUM DYNAMICS IN NEOCORTICAL NEURONS UNDER SENSORY STIMULATION.
K. Svoboda, W. Denk, D. Kleinfeld, D.W. Tank
- 422.3 SPATIOTEMPORAL STRUCTURE OF STIMULUS INDUCED ELECTRICAL ACTIVITY IN TURTLE VISUAL CORTEX.
J.C. Precht, L.B. Cohen, P.P. Mitra, and D. Kleinfeld
- 431.7 TIME-FREQUENCY ENCODING TO VARIATIONS IN REACTION-TIME PERFORMANCE BY NEURONAL ENSEMBLES IN THE RODENT STRIATUM AND PREMOTOR CORTEX.
Mark G. Laubach and Donald J. Woodward

- 438.4 CHARACTERISATION AND REMOVAL OF RESPIRATORY, CARDIC AND VASOMOTOR OSCILLATIONS IN DYNAMIC BRAIN IMAGES.
P.P. Mitra, B. Pesaran, S. Ogawa, D. Kleinfeld, K. Ugurbil
- 447.14 DELTA-9-Tetrahydrocannabinol influences sequential memory in rats performing a delayed-nonmatch-to-sample task.
Robert F. Hampson, Douglas R. Byrd, Joanne K. Konstantopoulos, Terence Bunn, and Sam A. Deadwyler
- 447.15 ENHANCEMENT OF RAT HIPPOCAMPAL ENSEMBLE ACTIVITY BY CX516 PROTECTS AGAINST ERRORS IN SPATIAL DNMS.
Sam A. Deadwyler, Douglas R. Byrd, Joanne K. Konstantopoulos, Gareth J.O. Evans, Gary Rogers and Robert E. Hampson
- 449.14 VENTRAL TEGMENTAL AREA NON-DOPAMINE NEURONAL ACTIVITY AND RESPONSIVENESS TO ANESTHESIA
S.C. Steffensen, S.A. Raymond, R.-S. Lee, and S.J. Henriksen
- 453.14 HIPPOCAMPAL CHOLINERGIC BLOCKADE INCREASES ANXIETY IN THE BLACK-WHITE BOX AND SOCIAL INTERACTION TESTS.
J.W. Smythe, D. Murphy, S. Bhatnagar, C. Timothy, and B. Costall
- 512.2 PROGESTERONE WITHDRAWAL PRODUCES BENZODIAZEPINE INSSENSITIVITY: A BEHAVIORAL STUDY.
M.H. Moran, M. Goldberg, S.J. Wieland, D. Bitran and S.S. Smith
- 512.3 TOWARD AN ANIMAL MODEL OF OVARIAN HORMONE-RELATED MOOD DISORDERS.
Daniel Bitran, Phyllis Renda, Steven M. Solano, and Sheryl S. Smith
- 631.2 WHAT VISUAL STIMULUS PARAMETERS CONTROL THE AMPLITUDE AND SPATIOTEMPORAL PHASE PATTERNING OF OSCILLATIONS IN THE SUBCORTICAL VISUAL SYSTEM?
Rowshanak Hashemivooon and John K. Chapin
- 638.11 MAPPING ESTRADIOL-SENSITIVE OSCILLATING NEURONAL CLUSTERS WITHIN THE INFERIOR OLIVE.
R.S. Markowitz, R.C.-S. Lin, J.K. Chapin, and S.S. Smith
- 717.11 SUPPORT FOR THE KINDLING HYPOTHESIS IN MULTIPLE CHEMICAL SENSITIVITY SYNDROME (MCSS) INDUCTION.
L.M. Kay
- 719.4 POPULATION VECTOR ANALYSIS OF THE RELATIVE TIMING BETWEEN MOVEMENT KINEMATICS AND CORTICAL ACTIVITY IN BOTH PRIMARY AND PREMOTOR CORTICES.
D.W. Moran, A. Kakavand and A.B. Schwartz
- 719.5 DYNAMIC CORRELATIONS OF MOTOR CORTICAL ACTIVITY WITH KINETIC AND KINEMATIC PARAMETERS OF HAND MOVEMENT.
A. Kakavand, D.W. Moran and A.B. Schwartz
- 795.3 SIMULTANEOUS POPULATIONS OF SINGLE-CELL ACTIVITY RECORDED BILATERALLY IN PRIMATE MOTOR CORTEX.
P.D. Perepelkin and A.B. Schwartz
- 795.10 LONG-TERM SIMULTANEOUS RECORDINGS OF NEURONAL ENSEMBLES ACROSS MULTIPLE CORTICAL AREAS IN BEHAVING PRIMATES.
M.A.L. Nicolelis, B. Carswell, L.M.O. Oliveira, A.A. Ghazanfar, J.K. Chapin, R.C.S. Lin, R.J. Nelson, and J.H. Kaas
- 809.23 EFFECTS OF HIPPOCAMPAL MINERALOCORTICOID AND GLUCOCORTICOIDRECEPTOR BLOCKADE ON ANXIETY.
C. Timothy, D. Murphy, B. Costall and J.W. Smythe

Association for Research in Otolaryngology, Midwinter Meeting, 1996

- EXAMINING THE STABILITY OF RECORDINGS FROM MULTICHANNEL ELECTRODE ARRAYS IN THE AUDITORY CORTEX.
D.R. Kipke and R.O. Dettloff

SOCIETY FOR NEUROSCIENCE ABSTRACTS, VOLUME 23, 1997

- 73.12 UNIQUE DYNAMICAL PATTERNS REPRESENT SPECIFIC FEATURES OF VISUAL STIMULI.
Rowshanak Hashemiyoon and John K. Chapin
- 81.6 MULTIPLE SINGLE-UNIT RECORDING IN THE STRIATUM OF FREELY-MOVING RATS: EFFECTS OF 6-OHDA DOPAMINE DEPLETION AND DOPAMINE AGONISTS.
L.J.Kish, L.E. Adler, P.C. Bickford, K.A. Flach and G.A. Gerhardt
- 173.15 NOCICEPTIVE RESPONSES OF ANTERIOR CINGULATE TO THERMAL STIMULI IN FREELY MOVING RATS.
M-MBackonja
- 181.3 SPATIOTEMPORAL ENCODING OF REACTION-TIME PERFORMANCE IN THE CORTICO-BASAL GANGLIA SYSTEM.
Mark Laubach and Donald J. Woodward
- 195.9 EXPECTATION AND RESPONSE OUTCOME SIGNALING IN HIPPOCAMPAL CA3 PYRAMIDAL CELLS DURING OLFACTORY-CUED DNMS PERFORMANCE.
S.P. Wiebe and U.V. Staubli
- 197.11 DISRUPTION OF ENCODING BUT NOT RECOGNITION BY CANNABINOIDS VIA DIFFERENTIAL ACTION ON HIPPOCAMPAL MEMORY CIRCUITS.
Robert E. Hampson, Justin Rawley, John D. Simeral, Douglas R. Byrd, Janet K. Brooks and Sam A. Deadwyler
- 197.12 FACILITATED ENCODING OF TASK RELEVANT EVENTS IN ENSEMBLES OF HIPPOCAMPAL NEURONS BY THE AMPAKINE CX516 (CORTEX PHARMACEUTICALS)
S.A. Deadwyler, G.S. Rogers, G.Lynch and R.E. Hampson
- 205.4 AN APPROACH TO THE ANALYSIS OF SPIKE TRAIN ACTIVITY IN THE MESOLIMBIC SYSTEM DURING A PROGRESSIVE RATIO TASK FOR COCAINE SELF-ADMINISTRATION.
A.V. Azarov, J.Y. Chang, P.H. Janak and D.J. Woodward
- 205.7 TONIC FIRING OF INDIVIDUAL NUCLEUS ACCUMBENS NEURONS RECORDED DURING COCAINE SELF-ADMINISTRATION BEHAVIOR.
F.X. Guyette, A.J. Uzwiak, M.O. West and L.L. Peoples
- 205.8 PHASIC FIRING PATTERNS ON TWO TIME BASES RECORDED FROM INDIVIDUAL NUCLEUS ACCUMBENS NEURONS DURING COCAINE SELF-ADMINISTRATION BEHAVIOR.
A.J. Uzwiak, F. Gee, M.O. West and L.L. Peoples
- 205.9 COMPARISON OF SHORT AND LONG DURATION FIRING OF NUCLEUS ACCUMBENS NEURONS DURING COCAINE SELF-ADMINISTRATION SESSIONS IN RATS.
R.M. Carelli and S.A. Deadwyler
- 310.5 VENTRAL TEGMENTAL AREA NON-DOPAMINE NEURONAL ACTIVITY DURING CORTICAL AROUSAL.
R.-S. Lee, S.C. Steffensen and S.J. Henriksen
- 399.6 NEURAL ENSEMBLE ENCODING OF TACTILE INFORMATION BY MULTIPLE CORTICAL AREAS IN PRIMATES.
M.A.L. Nicolelis, L.M.O. Ojiveira, A.A. Ghazanfar, M.G. Shuler, J.K. Chapin, R.J. Nelson, and J.H. Kaas
- 408.1 ADAPTATION PRODUCES SIMILAR CHANGES IN TASTE RESPONSE PROFILES IN THE NUCLEUS OF THE SOLITARY TRACT AND THE PARABRACHIAL NUCLEUS OF THE PONS IN THE RAT.
C.H. Lemon, P.M. DiLorenzo and M.D. Kawamoto
- 507.6 CORRELATION OF FIRING BETWEEN RAT CEREBELLAR GOLGI CELLS.
B.P. Vos, R. Maex, E. De Schutter
- 533.4 INCREASED BURST FIRING OF VTA NEURONS IN RATS DURING ENTRY INTO A NOVEL ENVIROMENT.
A.E.K. Kosobud, S.S. White and G.V. Rebec
- 552.7 NEURAL POPULATION ACTIVITY IN SENSORIMOTOR CORTEX CAN CONTROL AND EXTERNAL "ARM" MOVEMENT SYSTEM.
J.K. Chapin, R.S. Markowitz, K.A. Moxon and M.A.L. Nicolelis
- 700.2 TACTILE PROCESSING BY THALAMIC NEURAL ENSEMBLES: THE ROLE OF CORTICAL FEEDBACK.
A.A. Ghazanfar, D.J. Krupa and M.A.L. Nicolelis
- 700.3 BEHAVIORAL MODIFICATION OF TACTILE RESPONSES IN THE RAT THALAMOCORTICAL LOOP.
Erika E. Fanselow, Merri J. Rosen and Miguel A.L. Nicolelis

- 700.4 EFFECTS OF NEONATAL UNILATERAL FACIAL NERVE CUT ON TACTILE RESPONSES IN ADULT RAT SI CORTEX.
Laura M.O. de Oliveira, Marshall G. Shuler, Suzette G. Casal, Miguel A.L. Nicolelis
- 700.5 ROLE OF SI CORTEX IN RECEPTIVE FIELD REORGANIZATION IN VPM THALAMUS FOLLOWING PERIPHERAL DEAFFERENTATION.
D.J. Krupa, AA. Ghazanfar and M. A.L. Nicolelis
- 700.6 SUBCUTANEOUS PERIORAL INJECTIONS OF CAPSAICIN CAUSE IMMEDIATE REORGANIZATION OF MULTI-WHISKER RECEPTIVE FIELDS IN ANESTHETIZED RATS.
S.A. Simon, Donald B. Katz, Psyche Lee and Miguel A.L. Nicolelis
- 806.1 OLFACTORY BULB MITRAL CELL ACTIVITY DURING OLFACTORY DISCRIMINATION AND LEARNING IN THE RAT.
L.M. Kay and G. Laurent
- 913.6 CORTICO-THALAMIC INTERACTIONS IN RESPONSE TO WHISKER STIMULATION IN A COMPUTER MODEL OF THE RAT BARREL SYSTEM.
K.A. Moxon and J.K. Chapin
- 926.7 THE NEURONAL AND BEHAVIORAL CORRELATIONS IN MEDIAL FRONTAL CORTEX AND NUCLEUS ACCUMBENS DURING COCAINE SELF-ADMINISTRATION IN FREELY MOVING RATS.
J.Y. Chang and D.J. Woodward
- 933.18 NEURONS RECORDED FROM THE AMYGDALA AND NUCLEUS ACCUMBENS OF THE RAT DURING ETHANOL SELF-ADMINISTRATION.
P.H. Janak and D.J. Woodward

LARRY ANDREWS
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DENISON, TEXAS 75020



NB LABS
HEADSTAGES
AMPLIFIER

HD-16

FEATURES

- * JFET Source Follower
- * Low Noise
- * 8 Channel Single or
16 Channel Double
- * DB25 Connector Provided
(if required)

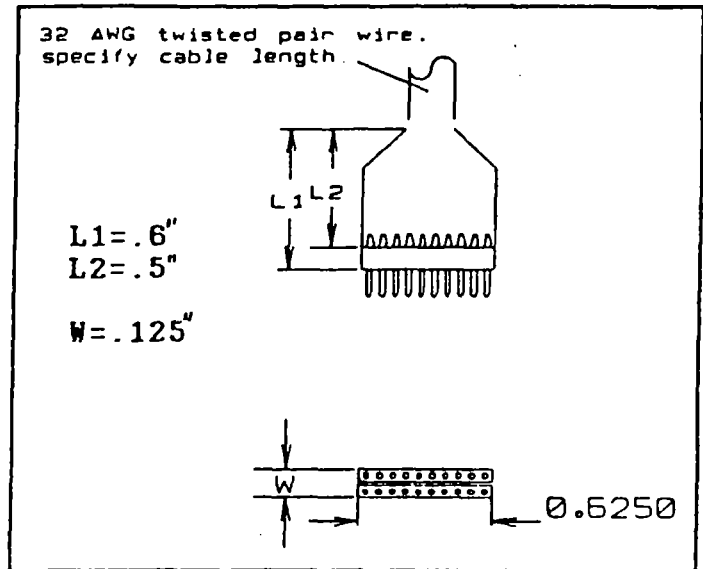
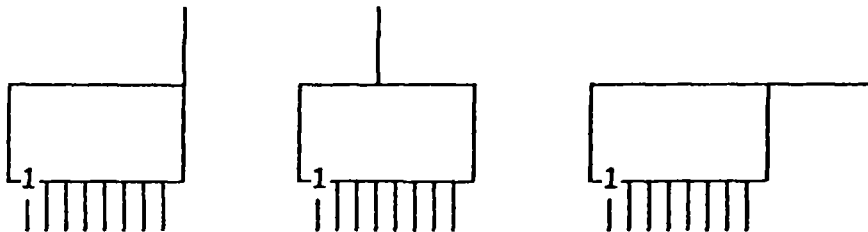


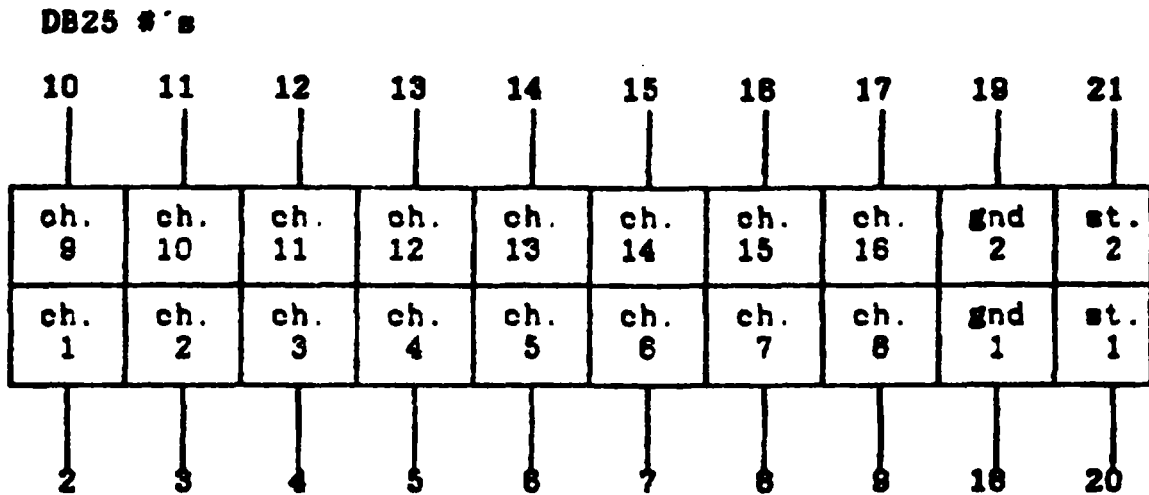
Figure 1. Headstage dimensions.

Headstage can be built 3 ways.



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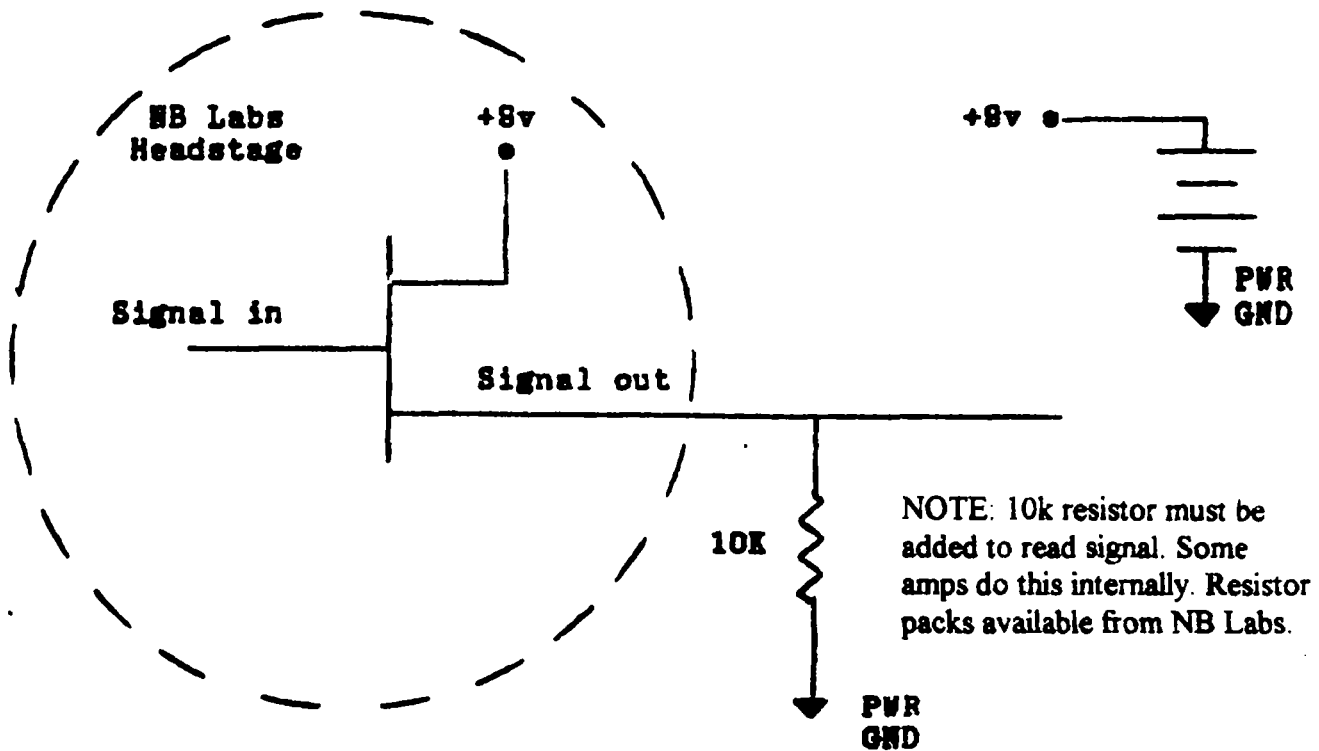
16 CHANNEL JFET HEADSTAGE



Ch. 1 - 16 have JFETS.

The ground and the stimulation channels don't have JFETS.

NOTE: VDD + 8v or 12v (DB25 #1)



**LARRY ANDREWS
NB LABS
ELECTRODE ARRAY PATTERNS**

Each dot represents a 50 micron wire channel and its position in the array. This is not the actual size of the array, just a representation.

... **For small areas.** Unlike bundles, you know which wire is which channel
... using this design.
...
2x3x3
8 Channel

.... **For small narrow areas.** The distance between rows and individual
.... wires can be varied to fit need of the user.
2x4
8 Channel

..... **For thin areas.** Also can be cut at an angle.
1x8
8 Channel

..... **For long narrow areas.** Each row can be the same length or cut at
..... different lengths or angels.
2x8
16 Channel

NB Labs Products

8 CHANNEL ELECTRODES

	<u>Bundles</u>	<u>P/N</u>	<u>COST</u>
o	Ground wire	SB103	\$40.00*
o	Both ground and stimulation wire	SB 104	\$42.00

Arrays

o	Ground wire	S103	\$50.00
o	Both ground and stimulation wire	S104	\$52.00

8 CHANNEL CONNECTOR

ch. 1	ch. 2	ch. 3	ch. 4	ch. 5	ch. 6	ch. 7	ch. 8	gnd 1	st. 1
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16 CHANNEL ELECTRODES

Bundles

o	No ground or stim. wire	DN101	\$55.00
o	Ground wire, no stim. wire	DN103	\$57.50
o	Both ground and stim. wires	DN104	\$59.00

Arrays

o	No ground or stim. wires	D101	\$70.00
o	Ground wires	D103	\$72.00
o	Both ground and stim. wires	D104	\$75.00

16 CHANNEL CONNECTOR

ch. 1	ch. 2	ch. 3	ch. 4	ch. 5	ch. 6	ch. 7	ch. 8	gnd 1	st. 1
ch. 9	ch. 10	ch. 11	ch. 12	ch. 13	ch. 14	ch. 15	ch. 16	gnd 2	st. 2

PROTECTION CAPS and CONNECTORS

	<u>P/N</u>	<u>COST</u>
o Mating male connector - Single	CS101	\$7.50
Double	CD101	\$15.00

JFET HEADSTAGE

o 4 Channel (6 pin)+	HS4	\$175.00
o 8 Channel (10 pin**)	HS8	\$295.00
o 16 Channel (Duel 10 pin)	HD16	\$495.00

HEADSTAGE OPTIONS

LED's \$110.00

Copper Shield \$75.00

RP1 - 8 channel resistor pack \$50.00

RP2 - 16 channel resistor pack \$70.00

Headstages have up to 60" of #32 twisted pair wire and optional DB25p connector.

* All prices are for Stainless Steel 50 micron diameter wire, Teflon coated.

+ 4 channel electrodes are also available. Call for prices.

** 10 pin connector, approx. .070" x .625".

LARRY ANDREWS

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