

Poster session II

Wednesday, August 13, 4-6 pm
West Atrium

- 1 **Long-term, chronic microsensors for multisite, real-time dopamine detection in behaving animals**
Sandberg SG, Clark JJ, Evans SB, Gan JO, Wanat MJ, Phillips PEM
- 2 **Transfer of dopamine-encoded "prediction errors" from unconditioned to conditioned stimuli and their attenuation after extended training**
Clark JJ, Evans SB, Akers CA, Phillips PEM
- 3 **Transfer of dopamine-encoded "prediction errors" from unconditioned to conditioned stimuli requires an attribution of incentive value**
Clark JJ, Flagel SB, Evans SB, Akers CA, Clinton SM, Robinson TE, Akil H, Phillips PEM
- 4 **Development of intraoperative diagnostics for epilepsy surgery**
Stephens ML, Quintero JE, Zhang Z, Huettl P, Pomerleau F, Spencer DD, Cavous I, Putz D, Berger T, Gerhardt GA
- 5 ***In vivo* real time measurements of dopamine neurotransmission using microelectrode arrays with constant potential amperometry**
Lundblad M, Huettl P, Pomerleau F, Gerhardt GA
- 6 **Alterations in glutamate neurotransmission after traumatic brain injury: Study using enzyme-based microelectrode arrays**
Hinzman JM, Liseabee A, Huettl P, Pomerleau F, Lifshitz J, Gerhardt GA
- 7 **Advances in the *in vivo* detection of GABA using enzyme coated microelectrode arrays**
Burmeister JJ, Pomerleau F, Huettl P, Gerhardt GA
- 8 **Advances in microelectrode arrays for improved performance of glutamate measurements in the CNS**
Huettl P, Pomerleau F, Burmeister JJ, Coates TD, Gerhardt GA
- 9 **Second-by-second measurements of glutamate and other neurotransmitters in awake animals using microelectrode arrays**
Pomerleau F, Huettl P, Hascup ER, Hascup KH, Burmeister JJ, Gerhardt GA
- 10 **Rapid glutamate neurotransmission in the rat somatosensory cortex in a model of pain**
Quintero JE, Hogan M, Huettl P, Pomerleau F, Gerhardt GA
- 11 **Acute intravenous ethanol administration produces a transient dopamine response in the medial prefrontal cortex of the Long-Evans rat**
Schier CJ, Howard EC, Gonzales RA
- 12 **Changes in dopamine/serotonin interactions following chronic methylphenidate: evidence for altered serotonin receptors**
Brookshire BR, Ferris M, Mateo Y, Jones SR
- 13 **Speedball (cocaine + heroin) has rapid and long-lasting effects on dopamine kinetics and nerve terminal function**
Ferris MJ, España RA, Roberts DCS, Jones SR
- 14 **Role of phasic nucleus accumbens dopamine in effort-related decision making**
Day JJ, Jones JL, Wightman RM, Carelli RM
- 15 **Basolateral amygdala regulation of phasic dopamine signaling within the nucleus accumbens**
Jones JL, Aragona BJ, Wheeler RA, Day JJ, Wightman RM, Carelli RM
- 16 **Adaptive fluctuations in cue-evoked dopamine release follow alterations in reward magnitude**
Beyene M, Carelli RM, Wightman RM
- 17 **Characterization of repeated cocaine effects on rapid dopamine release in the nucleus accumbens core and shell using fast scan cyclic voltammetry**
Addy NA, Wightman RM
- 18 **8 μ m Carbon Fiber (CF) based on micro-biosensor for "in vivo" measurement of extracellular glucose.**
Salazar P, Martín M, González-Mora JL
- 19 **Optimization of Prussian Blue micro-electrodes for H₂O₂ detection and biosensor applications**
Salazar P, Martín M, González-Mora JL

- 20 **Tolcapone enhancement of dopamine efflux in rat prefrontal cortex evoked by expectation and consumption of food**
Ahn S, Lapish CC, So K, Seamans JK, Phillips AG
- 21 **Amphetamine modulation of prefrontal cortex networks**
Lapish CC, Durstewitz D, Seamans JK, Phillips AG
- 22 **Analysis of dopamine release and behavior in transgenic and 3-nitropropionic acid-treated Huntington's Disease model rats**
Johnson MA, Steele LJ, Osterhaus GL, Kraft JC, Lauderdale K, Fowler SC, Pinkston J, von Hörsten S, Riess O
- 23 **Simultaneous microdialysis and force-plate actometer measurements obtained in transgenic Huntington's Disease model rats**
Osterhaus GL, Selley P, Silcio K, Lauderdale K, Fowler SC, von Hörsten S, Riess O, Johnson MA
- 24 ***In vivo* real time measurement of dopamine (DA) release with fast cyclic voltammetry and chronoamperometry: effect of a selective $\alpha 7$ neuronal nicotinic acetylcholine receptor (NACR) agonist**
Palamarchouk VS, Litwin D, Mrzljak L, Smagin GN
- 25 **Clinical monitoring of brain injury in freely-moving rats**
Carré E, Boret H, Lonjon M, Palmier B, Bourdon L, Riso JJ
- 26 **Cell-derived oligomers of the amyloid β -protein increase dorsal hippocampal glutamate levels.**
O'Connor WT, O'Shea SD, McCabe OM, Cronin MM, Smith IM, Walsh DM
- 27 **Abrupt clozapine withdrawal reduces lateral entorhinal and dorsal hippocampal GABA transmission. A dual-probe microdialysis study in the awake rat**
O'Shea SD, McCabe OM, Moran MP, Brady AT, DeSouza IEJ, O'Connor WT
- 28 **Effect of dopamine D2 receptors on the time course of evoked dopamine release in the striatum**
Moquin KF, Michael AC
- 29 **A correlation between basal dopamine levels and autoinhibition of evoked dopamine release**
Wang Y, Michael AC
- 30 **A vascular study of tissue response at the implantation site**
Jaquins-Gerstl A, Michael AC
- 31 **Qualification of the electrochemical signal following constant lowering of the working electrode in the rat cortex and striatum**
Toimela T, Ylinen A, Yavich L
- 32 **Neurokinin-2 receptor antagonism in medial septum influences ACh neurotransmission induced by neurokinin Agonists**
Schäble S, Huston JP, de Souza Silva MA
- 33 **Utilizing enzyme-based microelectrode arrays to measure glutamate in the PFC, effects of systemic MK-801 administration in freely moving rats**
Schlumberger C, Nagel J, Steiniger-Brach B
- 34 **Effects of the selective mGlu5 receptor antagonist MTEP on dopaminergic and glutamatergic neurotransmission in the medial prefrontal cortex of the rat**
Koros E, Buck K, Ferger B
- 35 **Prolonged dietary l-kynurenine increases extracellular glutamate and dopamine levels in the rat striatum**
Wu HQ, Capone G, Schwarcz R
- 36 **Dopamine response to palatable food in the nucleus accumbens shell and core and in the prefrontal cortex: effect of a chronic exposure.**
Bassareo V, Musio P, Kessler D, Di Chiara G
- 37 **An *in vivo* study of autoreceptor desensitization after chronic SSRI**
Valentini V, Frau R, Di Chiara G
- 38 **Validation of the manufacturing procedures in the development of miniature amperometric glucose biosensors**
de Vries MG, Cordeiro CA, Ngabi W, Cremers TI, Wientjes KJ, Westerink BH
- 39 **Analysis of 5HT, NE, DA, GABA, glycine and glutamate using LC-MSMS after derivatization with a new soft ionization label**
Hofland CM, Westerink BHC, Cremers TIFH
- 40 **LC-MSMS analysis compared to radio immune assay to quantify substance P in brain microdialysate**
van der Hart MGC, Cremers TIFH, Bosker FJ, Westerink BHC

- 41 **Monitoring extracellular amino acids in rat brain using ultra performance liquid chromatography combined with mass spectrometry (UPLC-MS)**
Leguit N, Bosch AI, de Groot L
- 42 **A Modified Ultraslow Microdialysis Technique for Evaluation of Brain Penetration of Compounds in CNS Research**
Smagin GN, Palamarchouk VS, Cremers TIFH, Ellis A, Schroeder P
- 43 **Comparison of methods for measuring absolute brain concentrations of drugs, following systemic administration**
Sood P, Fraier D, Cole S, Young A
- 44 **The importance of edge effects on the permselectivity of model implantable biosensors**
Rothwell SA, O'Neill RD
- 45 **Silicon wafer based platinum microelectrode array biosensors for near real-time measure of glutamate *in vivo***
Wassum KM, Tolosa V, Walker E, Wang J, Monbouquette H, Maidment NT
- 46 **Neural probes for simultaneous recordings of *in vivo* neurochemical and electrophysiological activity**
Gibson MD, Kipke DR
- 47 **Second-by-second measurement of stimulated glutamate release and its modulation by $\alpha 7$ and mGlu 2/3 receptors: relevance to schizophrenia**
Konradsson A, Gash CR, Gerhardt GA, Bruno JP