

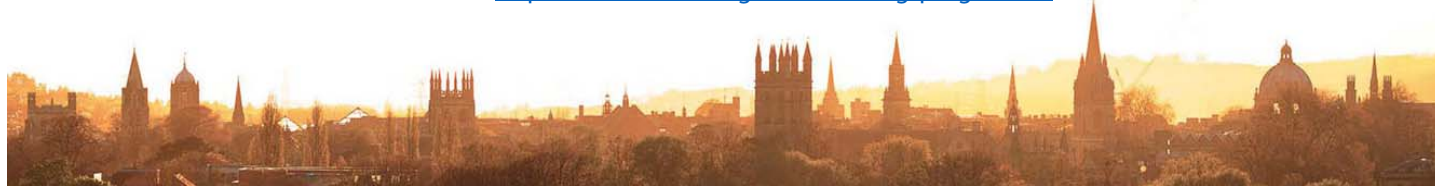
Posters

Odd-numbered posters: *presenting authors should attend posters during Session 1 (Monday)

Even-numbered posters: *presenting authors should attend posters during Session 2 (Tuesday)

Posters should be mounted Sunday afternoon and removed Wednesday afternoon by 4pm

Abstracts are available for download from <http://2018.monitoringmolecules.org/programme>



Biosensors

1	The development of an electroanalytical biosensor for brain extracellular pyruvate JP Branigan*, JP Lowry <i>Maynooth University, Ireland</i>
2	A detailed model of electroenzymatic biosensors establishes performance limitations M Clay*, HG Monbouquette <i>University of California, Los Angeles, USA</i>
3	The development of a D-amino acid oxidase based biosensor for the neurochemical monitoring of D-serine MM Doran*, KL Baker, KW Pierce, MD Tricklebank, JP Lowry <i>Maynooth University, Ireland; Institute of Psychiatry, Kings College London, UK</i>
4	Real-time electrochemical monitoring of choline during systemic inflammation in the freely-moving mouse S Doyle*, KL Baker, C Cunningham, JP Lowry <i>Maynooth University; Trinity College Dublin, Ireland</i>
5	The simultaneous electrochemical detection of serotonin and dopamine using a carboxymethyl-β-cyclodextrin modified carbon paste microelectrode GT Gnahore*, J Branigan, M O'Riordan, JP Lowry <i>Maynooth University, Ireland</i>
6	Enzyme-free glutamate sensing at ionophore-modified carbon fiber microelectrodes J Holmes*, A West, P Hashemi <i>University of South Carolina, USA</i>
7	Glutamate levels measured by glutamate voltammetry in the rat prefrontal cortex after treatment with N-methyl-D-aspartate receptor antagonists I Ionescu*, K Allers, R Arban, C Dorner-Ciossek, L Kussmaul <i>Boehringer Ingelheim Pharma GmbH&Co. Germany</i>
8	Beyond dopamine: physiological and drug-induced changes in brain oxygen and glucose in freely-moving rats EA Kiyatkin* <i>National Institute on Drug Abuse-Intramural Research Program, USA</i>
9	Poly-cytosine-mediated nanotags for SERS detection L Qi, MS Xiao, L Li* <i>East China Normal University, Shanghai, China</i>
10	Amygdala-cortical circuits in reward value encoding and retrieval M Malvaez*, C Shieh, MD Murphy, VY Greenfield, HG Monbouquette, KM Wassum <i>UCLA, USA</i>
11	Integration of optics and microfluidics into MEA biosensors for induction and detection of glutamate release from specific nucleus accumbens afferents in rats L MacIntyre*, Z Shu*, X Wen, B Wang, HA Lam, H Monbouquette, P-Y Chiou, NT Maidment <i>UCLA, USA</i>
12	Changes in brain oxygen levels induced by heroin and fentanyl: evaluation using high-speed amperometry in freely-moving rats E Solis, Jr.*, EA Kiyatkin <i>National Institute on Drug Abuse-Intramural Research Program, USA</i>
13	Modulation of glutamatergic neurotransmission by astrocytes E Vazquez-Juarez*, M Lindskog <i>Karolinska Institutet, Sweden</i>
14	A glutamate biosensor for ultra-fast detection of glutamate transients Yuanmo Wang*, Hoda Fathali, Jenny Bergman, Ann-Sofie Cans <i>Chalmers University of Technology, and University of Gothenburg, Sweden</i>
15	Polyelectrolyte-modified micropipette as a new platform for <i>in vivo</i> analysis P Yu* <i>Beijing National Laboratory for Molecular Sciences, China</i>

16	Using micro-immuno-electrodes to study minute-to-minute Aβ peptide clearance kinetics in brain ISF of Alzheimer's mice JR Cirrito*, HE Edwards, HL Ridenbark, CM Yuede <i>Washington University School of Medicine, St. Louis, USA</i>
17	Studying the temporal relationship between synaptic activity and Ab peptide generation <i>in vivo</i> using micro-immuno-electrodes CM Yuede*, HE Edwards, HL Ridenbark, JR Cirrito <i>Washington University School of Medicine, St. Louis, USA</i>

Electrochemistry, electrophysiology - *in vitro*

18	Dopamine D4 mediated attenuation of nucleus accumbens dopamine release measured by fast cyclic voltammetry in rat brain slices <i>in vitro</i>: abolition by phencyclidine pretreatment modelling schizophrenia AA Ali, A Asif-Malik, J Canales, A Young* <i>Universities of Leicester UK; Oxford UK; and Tasmania, Australia</i>
19	Regulation of L-type channel function in the control of striatal dopamine release: insights for Parkinson's disease KR Brimblecombe*, C Gracie, R Kaestli and SJ Cragg <i>University of Oxford, UK</i>
20	Cocaine potency at the dopamine transporter is determined by dopamine neuron activation ZD Brodnik*, RA Espana <i>Drexel University College of Medicine, Philadelphia, USA</i>
21	Real-time monitoring of DA release from dopaminergic cell culture using charge-balanced multiple waveform HU Cho*, YM Kang, HJ Shin, CH Park, YB Oh, DP Jang <i>Hanyang University, Korea</i>
22	Short-term plasticity of striatal DA release is governed by release-independent depression and the DA transporter MD Condon*, NJ Platt, SJ Cragg <i>University of Oxford, UK</i>
23	GABA-B mediated attenuation of accumbal dopamine release is reversed by phencyclidine pre-treatment modelling schizophrenia in rat brain slices <i>in vitro</i> J-M Ferdinand*, KZ Peters, AMJ Young <i>University of Leicester, UK</i>
24	Amperometric measurements of the effects of polyunsaturated fatty acids on exocytosis and total vesicle content in PC12 cells C Gu*, AG Ewing <i>University of Gothenburg, Sweden</i>
25	Alterations in nucleus accumbens dopamine dynamics and negative-affective like behaviors are driven by stress and ethanol exposure alone and in combination KM Holleran*, S McCarthy, SR Jones <i>Wake Forest University, USA</i>
26	A user-friendly toolbox for long-term neurochemical measurement using multi-waveform FSCV YM Kang*, HJ Shin, CH Park, HU Cho, YB Oh, DP Jang <i>Hanyang University, Korea</i>
27	Adolescent social isolation augments kappa opioid receptor function in the nucleus accumbens and basolateral amygdala of rats AN Karkhanis*, JL Weiner, SR Jones <i>Wake Forest School of Medicine, USA</i>
28	Determination of total octopamine content in a living neuron using amperometry and mathematical modelling A Larsson*, S Majdi, A Oleinick, C Amatore, A Ewing <i>University of Gothenburg, Sweden; CNRS, France; Chalmers University, Sweden</i>
29	The role of GABA receptors in regulating striatal dopamine release E Lopes*, SJ Cragg <i>University of Oxford, UK</i>
30	Large amplitude fast square wave cyclic voltammetry for enhancing selectivity of neurotransmitters CH Park*, JK Kim, YB Oh, YM Kang, HJ Shin, HW Cho, DP Jang <i>Hanyang University, Korea; Mayo Clinic, USA</i>
31	Investigating the implications of GABA co-storage in dopamine axons on dopamine transmission BM Roberts*, R Siddorn, NM Doig, SJ Cragg <i>University of Oxford, UK</i>
32	Cholinergic mechanisms modulating nucleus accumbens dopamine release: a link to schizophrenia? E Yavas, BM O'Connor*, AMJ Young <i>University of Leicester, UK</i>
33	Pauses in cholinergic interneurons are driven by excitatory input, delayed rectification, with dopamine modulation Y-F Zhang*, JNJ Reynolds, SJ Cragg <i>University of Oxford, UK; University of Otago, New Zealand</i>

Electrochemistry – *in vivo* dopamine

34	Exploring phasic changes in striatal dopamine release under the effect of negative stimuli EA Budygin* <i>Wake Forest School of Medicine, USA</i>
35	Diametric changes in striatal dopamine release underlie drug-taking and drug-seeking behaviors LM Burgeno*, NL Murray, RD Farero, JS Steger, ME Soden, I Willuhn, LS Zweifel, PEM Phillips <i>University of Washington, USA; University of Oxford, UK</i>
36	Genetic dissection of catecholaminergic innervation of the cognitive cerebellum ES Carlson*, SG Sandberg, TM Locke, PEM Phillips, and LS Zweifel <i>University of Washington, USA</i>
37	Nucleus accumbens acetylcholine modulates cue-evoked dopamine to regulate cue-motivated reward-seeking AL Collins*, TJ Aitken, V Greenfield, SB Ostlund, KM Wassum <i>UCLA, USA; UCI, USA</i>
38	Endocannabinoid synthesis by dopamine neurons controls cue-directed motivation DP Covey*, E Hernandez, CE Bass, S Patel, JF Cheer <i>University of Maryland, USA; University at Buffalo, USA; Vanderbilt University Medical Center, USA</i>
39	Genetically-encoded differences in cortical dopamine affect phasic dopamine release in nucleus accumbens and modulate the effect of cue salience on associative learning A Huber*, L Oikonomidis, EM Tunbridge, ME Walton <i>University of Oxford, UK</i>
40	Distinct roles for DAT and COMT in regulating dopamine transients and reward-guided decision making C Korn*, T Akam, A Huber, KHR Jensen, C Vagnoni, EM Tunbridge, ME Walton <i>University of Oxford, UK</i>
41	High-fructose diet increases reward seeking and dopamine signalling in rats AR Kosheleff*, L Tsan, F Gomez-Pinilla, SB Ostlund, NP Murphy, NT Maidment <i>UCLA, USA; UCI, USA</i>
42	Early functional blockade of the ventral subiculum enhances ketamine-induced dopaminergic responses in the core part of the nucleus accumbens in adult rats H Saoud, T Pouvreau, D De Beus, S Eybrard, A Louilot* <i>University of Strasbourg, France</i>
43	In vitro and in vivo characterization of 1-phenyl-2-(pyrrolidin-1-yl)pentan-1-one (α-PVP) enantiomers M Niello*, K Jäntschi, HH Sitte, D Walther, MH Baumann <i>Medical University of Vienna, Austria; NIDA, NIH, USA</i>
44	Glutamatergic dysfunction leads to a hyper-dopaminergic phenotype: Linking dopamine to aberrant salience MC Panayi*, T Jahans-Price*, T Boerner, A Huber, ME Walton, DM Bannerman <i>University of Oxford, UK</i>
45	Persistent behavioral dysfunction following blast exposure in mice and combat veterans: Potential role for dysfunctional phasic dopamine release AG Schindler*, JS Meabon, Marcella K, Pagulayan KF, Li G, Sikkema C, Wilkinson CW, E Peskind, JJ Clark, DG Cook <i>University of Washington, USA; Research Education and Clinical Center, Seattle, USA</i>
46	Multi-site monitoring of subsecond dopamine neurochemical activity in rodents HN Schwerdt*, MJ Kim, E Zhang, S Amemori, T Yoshida, R Langer, MJ Cima, AM Graybiel <i>Massachusetts Institute of Technology, USA</i>
47	Monitoring dopamine dynamics in a G2019S LRRK2 rat model of Parkinson's disease Z Shu*, HA Lam, AB West, NT Maidment <i>UCLA, USA; University of Alabama at Birmingham, USA</i>
48	Evolution of phasic dopamine release in the striatum during reward seeking W van Elzelingen*, WE Bastet, JM Matos, I Willuhn <i>Royal Netherlands Academy of Arts and Sciences, The Netherlands</i>

Electrochemistry – *in vivo* other molecules

49	How does pesticide exposure effect monoamine transmission? SN Berger*, P Hashemi <i>University of South Carolina, USA</i>
50	New technologies for the delivery and monitoring of chemicals in the brain MA Booth*, MM Stevens, MG Boutelle <i>Imperial College London, UK</i>
51	<i>In vivo</i> fast scan cyclic voltammetry analysis of serotonin in a neurodegenerative disease model AM Buchanan*, P Hashemi <i>University of South Carolina, USA</i>

52	Fast-scan cyclic voltammetry reveals evoked phasic fluctuations of norepinephrine in the Paraventricular Nucleus of the Hypothalamus (PVN) Al Gerth*, MF Roitman <i>University of Illinois at Chicago, USA</i>
53	Histaminergic modulation of serotonin during chronic and acute neuroinflammation M Hersey*, SA Samaranyake, A Abdalla, LP Reagan, P Hashemi <i>University of South Carolina, USA; WJB Dorn Veterans Affairs Medical Center, USA</i>
54	Long-term potentiation (LTP) expression and maintenance in the octopus vertical lobe is mediated by long-term elevation in nitric oxide concentration B Hochner*, N Stern-Mentch, N Neshet, T Shomrat, AL Turchetti-Maia <i>The Hebrew University, Jerusalem, Israel; School of Marine Sciences, Michmoret, Israel</i>
55	Mechanisms of chemotherapy-induced impairments in executive function MA Johnson*, KJ Garcia, T Schneider, MJ Sofis, SM Lemley, SV Kaplan and DP Jarmolowicz <i>University of Kansas, USA</i>
56	Monitoring real-time opioid peptide fluctuations with multiple scan rate voltammetry reveals a neuromodulatory role for met-enkephalin in the rat striatum CA Lee*, SK Smith, SE Calhoun, CJ Meunier, GS McCarty, LA Sombers <i>North Carolina State University, USA</i>
57	Innovating serotonin measurements in freely-moving animals: compulsive model R Robke*, I Willuhn, and P Hashemi <i>University of South Carolina, USA; University of Amsterdam, NL</i>
58	Characterization of spontaneous, transient adenosine release in various mouse brain regions Y Wang*, B.J Venton <i>University of Virginia, USA</i>
59	Evaluating the fundamental serotonin chemistry of the prefrontal cortex in the context of autism spectrum disorder A West*, P Hashemi <i>University of South Carolina, USA</i>

Fluorescence-based imaging

60	Intracellular calcium signalling pathway is disturbed in iPSC-derived neurons from patients with genetic autosomal dominant forms of Parkinson's disease DA Beccano-Kelly*, Y Mousba, J Vowles, S Cowley, R Wade-Martins <i>University of Oxford, UK</i>
61	Novel genetically encoded fluorescent probes enable real-time detection of potassium <i>in vitro</i> and <i>in vivo</i> H Bischof*, E Eroglu, B Gottschalk, F Hellal, M Rehberg, M Waldeck-Weiermair, N Plesnila, WF Graier, R Malli <i>Medical University of Graz, Austria; BioTechMed Graz, Austria; University of Munich Medical Center, Germany</i>
62	Phosphors in substituted rhodamine with bridge-caging strategy for <i>in vivo</i> enzyme imaging X Cui* <i>East China Normal University, China.</i>
63	Restriction of dietary protein alters preference for protein and associated neural activity in ventral tegmental area G Chiacchierini*, KZ Peters, F Naneix, EMS Snoeren, JE McCutcheon <i>University of Leicester, UK; The Arctic University of Norway, Norway</i>
64	Thirst and the hormone Angiotensin II recruit VTA dopamine signalling to water consumption TM Hsu*, VR Konanur, MF Roitman <i>University of Illinois at Chicago, USA</i>
65	Investigating state-dependent nutrient learning and memory in <i>Drosophila</i> KD Jovanoski*, G Das, S Waddell <i>University of Oxford, UK</i>
66	Using <i>in vivo</i> fiber photometry to further understand mechanisms of amphetamine action VR Konanur*, MF Roitman <i>University of Illinois at Chicago, USA</i>
67	M-current inhibition rapidly induces a unique CK2-dependent plasticity of the axon initial segment J Lezmy*, M Lipinsky, Y Khrapunsky, E Patrich, L Shalom, A Peretz, I Fleidervish and B Attali <i>Sackler Faculty of Medicine and Sagol School of Neurosciences, Israel; Ben-Gurion University of the Negev, Israel</i>
68	Distracting stimuli evoke responses in ventral tegmental area neurons during ongoing saccharin consumption KZ Peters*, AMJ Young, JE McCutcheon <i>University of Leicester, UK</i>
69	Investigation of serotonin transporter dynamics in response to SSRI administration RA Saylor*, S Lumbreras, AM Buchanan, J Raymond, T Lau, and P Hashemi <i>University of South Carolina, USA; Heidelberg University, Germany</i>
70	Environmental valence modulates dorsal raphe serotonin and GABA neural dynamics C Seo*, M Jin, AK Recknagel, E Wang, C Boada, N Krupa, Y-Y Ho, D Bulkin, MR Warden <i>Cornell University, USA</i>

Tools for circuit manipulation

71	Cognitive and neural coding actions of corticotropin releasing factor neurotransmission in the prefrontal cortex CW Berridge*, S Hupalo <i>University of Wisconsin-Madison, USA</i>
72	Chemogenetic inhibition of midbrain dopamine neurons suppresses amphetamine-induced dopamine transients SM Conway*, MF Roitman <i>University of Illinois at Chicago, USA</i>
73	Synaptic DA release induces low frequency variations in extracellular DA concentrations detectable by PET AL Cremer*, R Lippert, C Korn, T Jahans-Price, ME Walton, H Backes <i>Max Planck Institute for Metabolism Research, Germany; University of Oxford, UK</i>
74	Dopamine and CRF: broadening the view JL Fudge*, EA Kelly <i>University of Rochester, USA</i>
75	Projection-specific roles of dopamine neurons in decision-making A Lak*, H Gurnani, M Wells, K Harris, M Carandini <i>University College London, UK</i>
76	Failure to reconsolidate a conditioned place preference in Planaria treated with atropine RA Mohammed Jawad*, J Prados, CV Hutchinson <i>University of Leicester, UK</i>
77	Two-photon uncaging of neuropeptides X Li, E Lacin, D Kleinfeld, PA Slesinger, Z Qin* <i>University of Texas at Dallas, USA; Icahn School of Medicine at Mount Sinai, USA; University of California, San Diego, USA</i>
78	Cognition impairing vs. cognition improving doses of psychostimulants target different aspects of frontostriatal neural coding RC Spencer*, CW Berridge <i>University of Wisconsin-Madison, USA</i>
79	Chemogenetic modulation of astrocytes in temporal lobe epilepsy Y Van Den Herrewegen*, A Van Eeckhaut, D De Bundel, IJ Smolders <i>Center for Neurosciences, Belgium</i>

Monitoring molecules in humans and translational approaches

80	Novel raclopride PET method for spatiotemporal measurement of stimulus-evoked dopamine release in humans H Backes*, S Edwin, Thanarajah AL Cremer, R Lippert, C Korn ME Walton <i>Max Planck Institute for Metabolism Research, Germany; University Hospital of Cologne, Germany; University of Oxford, UK</i>
81	Astrocytes and Alzheimer's disease: the pharmacological manipulation as promising tool against pathology progression. Evidence from a triple transgenic model of the disease MR Bronzuoli*, R Facchinetti, T Cassano L Steardo, C Scuderi <i>SAPIENZA University of Rome, Italy; University of Foggia, Italy</i>
82	Imaging dynamic neurochemical signals to visual contrast in the human brain using 7 Tesla MR Spectroscopy B Ip*, AJ Parker, UE Emir, H Bridge <i>University of Oxford, UK; Purdue University, USA</i>
83	Angiopoietin 2 as an early marker of blood-retinal barrier breakdown in diabetic retinopathy induces astrocyte apoptosis via $\alpha v\beta 5$-integrin signaling pathway JH (Jin Hyoung) Kim*, SW Park, JH Yun, JW Kim, CH Cho, JH (Jeong Hun) Kim <i>Seoul National University, Korea</i>
84	Single cell sequencing reveals HDAC4 as a regulator of phenotypes in Parkinson's iPSC-derived dopamine neurons C Lang*, K Campbell, B Ryan, C Webber, R Wade-Martins <i>University of Oxford, UK</i>
85	The psychological and physiological effects of a novel virtual reality stressor MAG Martens*, A Antley, M Slater, D Freeman, EM Tunbridge, PJ Harrison <i>University of Oxford, UK; University College London, UK; Oxford Health NHS Foundation Trust, UK</i>
86	Robust high-resolution 3D printed microfluidic device for online monitoring of dynamic events in the injured human brain IC Samper*, SAN Gowers, ML Rogers, MG Boutelle <i>Imperial College London, UK</i>
87	Activated leukocyte cell adhesion molecule (ALCAM) as a potential imaging biomarker for detection of brain micrometastases N Zarghami*, M Sarmiento Soto, NR Sibson <i>University of Oxford, UK</i>

88	<p>Alzheimer's disease plasma proteomic biomarker validation using SOMAscan technology: a systematic review and replication study</p> <p>L Shi*, S Westwood, A Baird, S Anand, A Hye, I Bos, S Vos, R Vandenberghe, P Scheltens, S Engelborghs, G Frisoni, J Molinuevo, A Wallin, A Lleó, J Popp, P Martinez-Lage, S Snowden, C Legido-Quigley, L Bertram, F Barkhof, H Zetterberg, J Streffer, P Visser, S Lovestone</p> <p><i>Universities of Oxford, Kings College London, Institute of Neurology, UK Dementia Research Institute at UCL, UK; Maastricht University, VU University Medical Center, the Netherlands; University Hospital Leuven, Hospital Network Antwerp (ZNA), Janssen Pharmaceutical Companies, University of Antwerp, Belgium; University of Geneva, University Hospital of Lausanne, Switzerland; IDIBAPs, Universitat Pompeu Fabra, Hospital de la Santa Creu i Sant Pau, CITA-Alzheimer Foundation, Spain; University of Lübeck, Germany; University of Gothenburg, Sahlgrenska University Hospital, Sweden</i></p>
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Microdialysis, extracellular analysis, related methods

89	<p>Cerebral open flow microperfusion – a sampling tool for long-term monitoring of transport across the BBB</p> <p>T Birngruber*, T Altendorfer-Kroath, S Jayaraman, F Sinner</p> <p><i>Joanneum Research Forschungsgesellschaft mbH; Medical University of Graz, Austria; Bioanalytical Systems Inc.(BASi)</i></p>
90	<p>Dynamic volume changes of the brain's extracellular space underlying seizures</p> <p>R Colbourn*, J Goodman, S Hrabetova</p> <p><i>Institute for Basic Research in Developmental Disabilities; State University of New York Downstate Medical Center, USA</i></p>
91	<p>Method development in neurotransmitter analysis to improve selectivity, sensitivity and robustness</p> <p>M Eysberg*</p> <p><i>Antec Scientific, Netherlands</i></p>
92	<p>ALEXYS Neurotransmitter Analyzer</p> <p>M Eysberg*, LM van Heerwaarden, H-J Brouwer, N Reinhoud</p> <p><i>Antec Scientific, Netherlands</i></p>
93	<p>Monte Carlo models of dynamically changing extracellular space</p> <p>J Hrabec*, R Colbourn, S Hrabetova</p> <p><i>Nathan Kline Institute, USA; State University of New York Downstate Medical Center, USA</i></p>
94	<p>Toward monitoring dopamine transients using fast microdialysis liquid chromatography with electrochemical detection</p> <p>A Jaquins-Gerstl*, KT Ngo, AC Michael, SG Weber</p> <p><i>University of Pittsburgh, USA</i></p>
95	<p>Brain bioavailability of large molecules in rodents</p> <p>F Le Priault*, K Buck, M Mezler, L Laplanche</p> <p><i>AbbVie Deutschland GmbH & Co. KG, Germany</i></p>
96	<p>Sampling extracellular Tau in human Tau transgenic mice: optimization of push/pull in vivo microdialysis</p> <p>E Barini*, M Meinhardt, T Altendorfer-Kroath, J Hoppe, G Plotzky, I Mairhofer, M Mezler, HJ Mayer, L Gasparini, T Birngruber, K Buck</p> <p><i>Joanneum Research GmbH, Austria; AbbVie Deutschland GmbH & Co. KG, Germany</i></p>
97	<p>Glutamate measurement online and at high temporal resolution, using a new microdialysis procedure and an optic device</p> <p>A Morales-Villagrán*, K Pardo-Peña</p> <p><i>University of Guadalajara, México</i></p>
98	<p>Understanding the limitations to better time resolution in microdialysis</p> <p>KT Ngo*, A Jaquins-Gerstl, SG Weber</p> <p><i>University of Pittsburgh, USA</i></p>
99	<p>GABA quantification by an electrochemiluminescence method using enzymatic reactors</p> <p>JC Salazar-Sánchez*, A Morales-Villagrán</p> <p><i>University of Guadalajara, México</i></p>
100	<p>Miniaturized push-pull perfusion sampling of hippocampal slices</p> <p>SA Shippy*, P Fisher</p> <p><i>University of Illinois at Chicago, USA</i></p>
101	<p>On-column dimethyl labeling of neuropeptides with online microdialysis and liquid chromatography-tandem mass spectrometry (LC-MS2)</p> <p>RE Wilson*, A Jaquins-Gerstl, SG Weber</p> <p><i>University of Pittsburgh, USA</i></p>
102	<p>Advances and pitfalls in the capillary electrophoresis analysis of aggregates of beta amyloid peptides</p> <p>L Denoroy, S Parrot*</p> <p><i>University of Lyon, France</i></p>

Microdialysis: functional studies

103	LAT-like amino acid transporters regulate dopaminergic transmission and sleep in <i>Drosophila</i> S Parrot*, S Aboudiaf, L Seugnet <i>University of Lyon, France</i>
104	Alteration of brain glutamate transport in a mouse model of myotonic dystrophy type 1 (DM1) S Parrot*, D Dinca, S Braz, B Potier, A Hugué-Lachon, P Dutar, G Gourdon, M Gomes-Pereira <i>University of Lyon; Laboratory CTGDM; University Paris Descartes, France</i>
105	Action of TAAR5 agonist alpha-NETA on brain monoamine systems EV Efimova*, KA Antonova, M Ptuha, AB Volnova, RR Gainetdinov <i>St. Petersburg State University, Russia</i>
106	<i>In vivo</i> microdialysis study of a procognitive phosphodiesterase-2 inhibitor in rat prefrontal cortex, striatum and hippocampus B Ferger*, G Flik, R Arban, S Hobson, C Dorner-Ciossek <i>Boehringer Ingelheim Pharma GmbH & Co. KG, Germany; Brains On-Line BV, the Netherlands</i>
107	Rapastinel antidepressant-like activity is independent of increased efflux of dopamine, 5-HT and glutamate as observed for S(+)-ketamine in the rat mPFC J Kehr*, T Yoshitake, FH Wang, S Schmidt, P Banerjee, J Donello <i>Pronexus Analytical AB, Sweden; Karolinska Institutet, Sweden; Allergan, Inc., USA</i>
108	Acetylcholine levels in the brains of alpha-synuclein transgenic mice M König*, B Berlin, H Lau, J Klein <i>Goethe University Frankfurt, Germany</i>
109	Assessment of kynurenine pathway metabolites as an index of neurodegeneration NN Malik*, M Ligocki, E Mead, G Carter, J Wolak, SN Mitchell <i>Eli Lilly and Company Limited, UK</i>
110	Maternal immune activation induces cortical dopaminergic hypofunction and cognitive impairments in offspring B Perez-Palomar*, JE Ortega, JJ Meana <i>University of the Basque Country (UPV/EHU); Centro de Investigación Biomédica en Red de Salud Mental CIBERSAM; Biocruces Health Research Institute, Spain</i>
111	Systemic oxytocin affects the reinforcing and neurochemical effects of methylphenidate G Tanda*, MCH Rohn, AH Newman, MA Coggiano, C Zanettini, JD Keighron, JL Katz, L Leggio, MR Lee <i>NIAAA, NIH/DHHS, USA</i>
112	Food-induced changes of acetylcholine in mouse hypothalamus A Thinnies*, J Klein <i>Goethe University Frankfurt, Germany</i>

Notes