

POSTER SESSIONS

Location: Exhibition Hall

Posters are available for viewing from 10:00 on Wednesday, 28 January until 17:00 on Thursday, 29 January.

Presenters for odd numbered posters in attendance

Wednesday 13:00 – 14:00

Presenters for even numbered posters in attendance

Thursday 13:30 – 14:30

DEVELOPMENT

001-041

POS-WED-001 13:00 - 14:00

Cell division in developing mouse sympathetic ganglia: the origins of neurons and gli

Gonsalvez, D.G., Kane, K.N. and Anderson, C.R.
(Australia)

POS-THU-002 13:30 - 14:30

Worming our way toward axonal degeneration and regeneration

Neumann, B. and **Hilliard, M.A.** (Australia)

POS-WED-003 13:00 - 14:00

Effects of environmental enrichment on mouse behaviour and striatal plasticity

Simonetti, T., Leamey, C.A., and Sawatari, A. (Australia)

POS-THU-004 13:30 - 14:30

Maternal cigarette smoke exposure downregulates hypothalamic NPY and Y1 receptor in offspring

Chen, H. and Morris, M.J. (Australia)

POS-WED-005 13:00 - 14:00

Potential roles for multiple teneurin molecules in the regulation of circuitry in the mouse visual pathway

Young, T.R., Fassler, R. and Leamey, C.A. (Australia and Germany)

POS-THU-006 13:30 - 14:30

Erythropoietin protects the developing retina and optic nerve from injury induced by exposure to endotoxin?

Loeliger, M.M., Mackintosh, A., DeMatteo, R., Hale, N., Tolcos, M., Probyn, M., Harding, R. and Rees, S. (Australia)

POS-WED-007 13:00 - 14:00

Molecular mechanisms underlying action of an eye specific axon guidance molecule, Ten-m3

Glendining, K.A., Sawatari, A. and Leamey, C.A. (Australia)

POS-THU-008 13:30 - 14:30

Altered dendritic morphology in retina of mice lacking ephrin-A

Walsh, L., Robertson, D., Harvey, A.R. and Rodger, J. (Australia)

POS-WED-009 13:00 - 14:00

The role of Eph/ephrins in the development of visual areas in the primate brain

Goldshmit, Y. and Bourne, J.A. (Australia)

POS-THU-010 13:30 - 14:30

The effect of pubertal testosterone on brain development in adolescent rhesus macaques

Morris, R.W., Richards, A.B., Fung, S.J., Rothmond, D. and Weickert, C.S. (Australia and USA)

POS-WED-011 13:00 - 14:00

The p75 neurotrophin receptor mediates hippocampal cell death through G-protein activated inwardly rectifying potassium channels

May, L.M. and Coulson, E.J. (Australia)

POS-THU-012 13:30 - 14:30

Development and patterning of the commissural plate in mice

Moldrich, R.X., Gobius, I., Pollak, T., Ren, T., Zhang, J., Brown, S.A., Mori, S. and Richards, R.J. (Australia and USA)

POSTERS – WEDNESDAY & THURSDAY

POS-WED-013 13:00 - 14:00

Fgf8 expressed by the commissural plate guides hippocampal axons

Gobius, I., Moldrich, R.X., Fothergill, T. and Richards, L.J. (Australia)

POS-THU-014 13:30 - 14:30

Possible guidance mechanisms in the caudal corpus callosum

Thurley, J.L. and Richards, L.J. (Australia)

POS-WED-015 13:00 - 14:00

Netrin1 and DCC in corpus callosum formation

Donahoo, A.S., Fothergill, T., Shu, T. and Richards, L.J. (Australia)

POS-THU-016 13:30 - 14:30

Localisation and expression of complement C5a receptors in a mouse model of motor neuron disease

Lee, J., Woodruff, T.M., Crane, J.W., Taylor, S.M. and Noakes, P.G. (Australia)

POS-WED-017 13:00 - 14:00

Olfactory ensheathing cells and Schwann cells interact with glial cells and neurons via highly motile lamellipodial waves

Ekberg, J., Windus, L., Scott, S., Lineburg, K., Hansen, E., Mackay-Sim, A. and St John, J.A. (Australia)

POS-THU-018 13:30 - 14:30

Live cell imaging reveals that olfactory ensheathing cells are a heterogeneous population of cells with fundamental differences in their behaviour following cell-cell contact

Windus, L., Lineburg, K., Scott, S., Ekberg, J., Hansen, E., Claxton, C., Key, B., Mackay-Sim, A. and **St John, J.** (Australia)

POS-WED-019 13:00 - 14:00

Neonatal lipopolysaccharide exposure attenuates the adult febrile response in male but not female Wistar rats

Nakamura, T., Walker, A.K., Mitchison, D. and Hodgson, D.M. (Australia)

POS-THU-020 13:30 - 14:30

Neonatal lipopolysaccharide exposure impairs reproductive success in the rodent

Walker, A.K., Hiles, S.A. and Hodgson, D.M. (Australia)

POS-WED-021 13:00 - 14:00

Localization of the male-specific gene SRY in the rat central nervous system

Lee, J., Sim, H., Wind, R., Czech, D., Vilain, E. and Harley, V. (Australia and USA)

POS-THU-022 13:30 - 14:30

Elucidating signalling pathways regulated by unprocessed BDNF

Willingham, M.M., Wong, A., Junhua, X., Perreau, V., Kilpatrick, T. and Murray, S. (Australia)

POS-WED-023 13:00 - 14:00

Brain-derived neurotrophic factor (BDNF) and TrkB in the piglet brainstem after postnatal nicotine and intermittent hypercapnic hypoxia

Tang, S., Machaalani, R. and Waters, K.A. (Australia)

POS-THU-024 13:30 - 14:30

GABA_A receptor subunit protein expression in premature IUGR piglet brain

Kalanjati, V.K., Colditz, P.B. and Bjorkman, S.T. (Australia)

POS-WED-025 13:00 - 14:00

Attenuated response of EphA4 knockout mice to experimental autoimmune encephalomyelitis (EAE)

Dixon, K., Munro, K., Dennis, K., Gresle, M., Butzkueven, H. and Turnley, A. (Australia)

POS-THU-026 13:30 - 14:30

Hippocampal mossy fibres express receptors for the complement factor C5a

Crane, J.W., Baiquni, G., Woodruff, T.M., Taylor, S.M., Sah, P. and **Noakes, P.G.** (Australia)

POS-WED-027 13:00 - 14:00

Ageing accelerates glutathione export from cultured astrocytes

Liddell, J.R., Robinson, S.R., Dringen, R. and Bishop, G.M. (Australia and Germany)

POS-THU-028 13:30 - 14:30

Regulation of astrocyte activation and focal adhesion formation by Rho-kinase and EphA4 in cultured astrocytes

Puschmann, T. and Turnley, A. (Australia)

POS-WED-029 13:00 - 14:00

Investigation on the role of oligodendrocyte-expressed TrkB in central nervous system myelination

Wong, A.W., Xiao, J., Kilpatrick, T.J. and Murray, S.A. (Australia)

POS-THU-030 13:30 - 14:30

P2X₄ receptors are associated with activated microglia in the immature rat brain after hypoxia-ischemia

Wixey, J.A., Reinebrant, H.E., Carty, M.L. and Buller, K.M. (Australia)

POS-WED-031 13:00 - 14:00

Is the function of P75 regulated by its cellular localisation mediated by sortilin interactions?

Sykes, A.M., McClelland, K., Nykjaer, A. and Coulson, E.J. (Australia and Denmark)

POS-THU-032 13:30 - 14:30

Corticotectal projections in ephrin-A^{-/-} mice

Wilks, T., Rodger, J. and Harvey, A.R. (Australia)

POS-WED-033 13:00 - 14:00

Wnt signaling in dopaminergic axon guidance

Blakely, B.D., Alexander, A., Horne, M.K. and Parish, C.L. (Australia)

POS-THU-034 13:30 - 14:30

Anti-MuSK-positive myasthenia gravis patient antibody causes aberrant activation of musk and disassembly of acetylcholine receptor clusters

Ghazanfari, N., Gervasio, O.L., Ngo, S.T., Reddell, S.R. and Phillips, W.D. (Australia)

POS-WED-035 13:00 - 14:00

LTP activates latent precursor cells in the adult mouse dentate gyrus

Kameda, M., Walker, T.L. and Bartlett, P.F. (Australia)

POS-THU-036 13:30 - 14:30

Endogenous IFN γ directly regulates neural precursors in the non-inflammatory brain

Li, L., Walker, T., Zhang, Y. and Bartlett, P. (Australia)

POS-WED-037 13:00 - 14:00

The effects of metallothionein-IIA on wound healing and nociceptive function following burn injury

Morellini, N.M., Giles, N., Rea, S., Dunlop, S.A., Beazley, L.D., West, A., Fear, M.W. and Wood, F.M. (Australia)

POS-THU-038 13:30 - 14:30

SOCS2 regulates neurite outgrowth and neuronal signalling through Trk receptor interactions

Uren, R.T., Klein, R., Wong, A., Murray, S.S. and Turnley, A.M. (Australia)

POS-WED-039 13:00 - 14:00

Ontogeny of vitamin-D receptor expression in rat mesencephalon

Pelekanos, M., Eyles, D., Burne, T., McGrath, J. and Cui, X. (Australia)

POS-THU-040 13:30 - 14:30

Developmental vitamin D (DVD) deficiency alters MK-801 induced locomotion and glutamatergic receptor binding

Kesby, J.P., O'Loan, J.C., Deng, C., Huang, X., McGrath, J.J., Eyles, D.W. and Burne, T.H.J. (Australia)

POS-WED-041 13:00 - 14:00

Developmental vitamin D (DVD) deficiency alters brain anatomy in the adult mouse

Harms, L., Eyles, D., McGrath, J. and Burne, T. (Australia)

SYNAPTIC TRANSMISSION AND EXCITABILITY

Posters 042 – 077

POS-THU-042 13:30 - 14:30

Altered inhibitory synaptic transmission in spastic and spastic-rescue mice

Lim, R., Schofield, P.R. and **Callister, R.** (Australia)

POS-WED-043 13:00 - 14:00

Glycine receptor mediated synaptic transmission in the superficial dorsal horn of *spasmodic* mice

Graham, B.A., Schofield, P.F. and Callister, R.J. (Australia)

POS-THU-044 13:30 - 14:30

Responses to current injection differ between mouse cervical, thoracic and lumbar superficial dorsal horn neurons
Walsh, M.A., Anderson, W.B., Graham, B.A., Brichta, A.M. and Callister, R.J. (Australia)

POS-WED-045 13:00 - 14:00

Properties of the medial Amygdala neurons in mice
Keshavarzi, S., Faber, E.S.L. and Sah, P. (Australia)

POS-THU-046 13:30 - 14:30

Properties of the intercalated neurons in the rodent amygdala
Strobel, C.E.L., Faber, E.S.L. and Sah, P. (Australia)

POS-WED-047 13:00 - 14:00

Trafficking of SK2 channels
Zuvela, N., Sedlak, P. and Sah, P. (Australia)

POS-THU-048 13:30 - 14:30

Subunit composition of NMDA receptors in the central and basolateral amygdala
Delaney, A.J., Sedlak, P.L. and Sah, P. (Australia)

POS-WED-049 13:00 - 14:00

Principal neurons of the basolateral amygdala respond to prefrontal cortex stimulations, but not footshocks, delivered during an up-state
Crane, J.W., Windels, F. and Sah, P. (Australia)

POS-THU-050 13:30 - 14:30

Plateau potentials evoked in basal and apical dendrites in layer 5 pyramidal neurons of the medial prefrontal cortex
Ireland, M.F. and Faber, E.S.L. (Australia)

POS-WED-051 13:00 - 14:00

Properties of voltage-gated sodium and potassium currents in nucleated patches from layer II principal cells of the mouse piriform cortex
Ikeda, K. and Bekkers, J.M. (Australia)

POS-THU-052 13:30 - 14:30

Distinctive classes of GABA-ergic interneurons provide phase- and layer-specific synaptic inhibition in the mouse piriform cortex
Suzuki, N. and Bekkers, J.M. (Australia)

POS-WED-053 13:00 - 14:00

Potential propagation in cortical interneuron dendrites

Gooch, H.M., Kole, M.H., Palmer, L.M. and Stuart, G.J.
(Australia)

POS-THU-054 13:30 - 14:30

Sensory deprivation increases dendritic excitability of layer 5 pyramidal neurons in rat barrel cortex

Breton, J.D. and Stuart, G.J. (Australia)

POS-WED-055 13:00 - 14:00

Activation of NR2B-containing NMDA receptors is required for long-lasting LTP in hippocampal area CA1

Lohmann, P., Johnstone, V.P.A. and Raymond, C.R.
(Australia)

POS-THU-056 13:30 - 14:30

Regulation of synapse function by synapse-associated protein 97 (SAP97) isoforms

Li, D., Waites, C.L., Specht, C.G., Genoux, D., Jeyifous, S.L.O., Drisdell, R.C., Cheyne, J.E., Green, W.N., Garner, C.C. and Montgomery, J.M. (New Zealand and USA)

POS-WED-057 13:00 - 14:00

$\alpha 1$ -adrenergic modulation of transmitter release in layer II/III pyramidal neurones in somatosensory cortex of rat

Choy, J. and Stricker, C. (Australia)

POS-THU-058 13:30 - 14:30

The hyperpolarisation activated current (I_H) significantly contributes to the afterhyperpolarisation in striatal cholinergic interneurons

Oswald, M.J., Oorschot, D.E., Lipski, J. and Reynolds, J.N.J. (New Zealand)

POS-WED-059 13:00 - 14:00

Glycinergic inhibitory input onto bushy cells in the cochlear nucleus

Mastilo, A., Sullivan, J.M., Ryugo, D.K. and **Oleskevich, S.**
(Australia and USA)

POS-THU-060 13:30 - 14:30

Discovering new drugs targeting glycine receptor chloride channels

Islam, R., Balansa, W., Fontaine, F., Webb, T., Gilbert, D., Capon, R. and Lynch, J. (Australia)

POS-WED-061 13:00 - 14:00

A novel peptide isolated from cone snail venom is active at the neurotensin receptor

Temelcos, D., Trout, G.R. and Adams, D.J. (Australia)

POS-THU-062 13:30 - 14:30

Tryptophan defines a key interaction between μ O-conotoxin MrVIB and the voltage-gated sodium channel

Nevin, S.T., Hopping, G., Armishaw, C.J., Alewood, P.F. and Adams, D.J. (Australia)

POS-WED-063 13:00 - 14:00

Activation mechanism of the $\alpha 1\beta 2$ GABA-A receptor probed using voltage-clamp fluorometry

Wang, Q., Pless, S.A. and Lynch, J.W. (Australia)

POS-THU-064 13:30 - 14:30

Characterisation of excitatory amino acid transporter 2 splice variants in a fluorescence-based membrane potential assay

Gebhardt, F.M., Gilbert, D., Lynch, J.W. and Dodd, P.R. (Australia)

POS-WED-065 13:00 - 14:00

Dynamic clamp analysis of action potential firing properties in a mouse model of familial epilepsy

Scaf, B.B., Reid, C.A., Thomas, E.A., Mitchell, S., Hill, E., Wimmer, V. and Petrou, S. (Australia)

POS-THU-066 13:30 - 14:30

Transient temperature elevation increases GABA-mediated inhibition in layer 2/3 cortical neurons in a mouse model of familial epilepsy

Hill, E.L., Mitchell, S., Mulligan, R., Richards, K.L., Davies, P., Reid, C.A. and Petrou, S. (Australia)

POS-WED-067 13:00 - 14:00

Evidence for presynaptic NMDA receptors in mediating excitatory neurotransmission in the spinal trigeminal nucleus

Williams, M.C., Cho, J.-J., Sessle, B.J. and Jennings, E.J. (Australia and Canada)

POS-THU-068 13:30 - 14:30

Effects of neurokinin and cannabinoid receptor activation on the excitability of neurons in pelvic ganglia of female mice

Murali, S. and Jobling, P. (Australia)

POS-WED-069 13:00 - 14:00

The effect of lavender and trans-2-hexenal on smooth muscle

Poyton, C.N., Noakes, P.G. and Lavidis, N.A. (Australia)

POS-THU-070 13:30 - 14:30

Expression and function of N-methyl-D-aspartate (NMDA) receptors in sensory neurons innervating the temporomandibular joint (TMJ)

Beaini, D., Hatch, R., Staikopoulos, V., Ivanusic, J. and **Jennings, E.A.** (Australia)

POS-WED-071 13:00 - 14:00

Mechanisms modulating of slow-wave activity in isolated mouse small intestine

Neal, K.B., Tan, L.L., **Ellis, M.** and Bornstein, J.C. (Australia)

POS-THU-072 13:30 - 14:30

Cholera toxin induces sustained hyperexcitability in myenteric AH neurons in guinea-pig jejunum

Gwynne, R.M. and Bornstein, J.C. (Australia)

POS-WED-073 13:00 - 14:00

The effect of chronic morphine treatment on vesicular associated proteins

Case, T.J., Knight, D., Noakes, P.G. and Lavidis, N.A. (Australia and Canada)

POS-THU-074 13:30 - 14:30

Functional consequences of CaMKII phosphorylation at Thr253 in neurons

Skelding, K.A., Liao, X., Verrills, N.M., Fluechter, L., Sim, A.T.R., Dickson, P.W. and Rostas, J.A.P. (Australia, PR China)

POS-WED-075 13:00 - 14:00

Spontaneous synaptic activity in retinal ganglion cells in modulated by endocannabinoids

Middleton, T.P. and Protti, D.P. (Australia)

POS-THU-076 13:30 - 14:30

Endocannabinoid signalling in the periaqueductal gray via the muscarinic cholinergic system

Lau, B.K. and Vaugh, C.W. (Australia)

POS-WED-077 13:00 - 14:00

Substance P drives local network-mediated endocannabinoid signaling in the periaqueductal grey

Drew, G.M., Lau, B.K. and Vaughan, C.W. (Australia)

SENSORY SYSTEMS

Posters 078 - 142

POS-THU-078 13:30 - 14:30

Morphological characterisation of extrinsic innervation of mouse distal colon and rectum

Chen, B.-N., Costa, M. and Brookes, S.J.H. (Australia)

POS-WED-079 13:00 - 14:00

High-fat diet increases serotonin signalling in rat intestine

Senadheera, S., Markus, I., Bertrand, R.L., Liu, L., Morris, M.J. and Bertrand, P.P. (Australia)

POS-THU-080 13:30 - 14:30

Release of serotonin from human colonic mucosa

Bertrand, R.L., Liu, L. and **Bertrand, P.P.** (Australia)

POS-WED-081 13:00 - 14:00

Selective changes in cerebellar-cortical processing following motor training

Haavik-Taylor, H. and Murphy, B. (New Zealand and Canada)

POS-THU-082 13:30 - 14:30

Using parallel afferent channels to improve tactile spatial resolution

Leung, B.H.H., **Vickery, R.M.**, Mahns, D.A. and Morley, J.W. (Australia)

POS-WED-083 13:00 - 14:00

Changes in the properties of cutaneous receptors due to age

Bowden, J.L. and McNulty, P.A. (Australia)

POS-THU-084 13:30 - 14:30

Differential contribution of tactile afferents to allodynia and analgesia

Nagi, S., Rubin, T., Macefield, V.G. and Mahns, D.A. (Australia)

POS-WED-085 13:00 - 14:00

The AsTex®: a new device for assessment of texture discrimination in the hand

Miller, K.J., **Galea, M.P.**, Wheat, H.E., Phillips, B.A., Martin, C.L. and Goodwin, A.W. (Australia)

POS-THU-086 13:30 - 14:30

Spatial tactile acuity and anisotropy on human lips

Jarred, H.J., Varacalli, P.D.F., Heigele, S., Noll, B.D., Miles, T.S. and **Todd, G.** (Australia)

POS-WED-087 13:00 - 14:00

A preconditioning nerve lesion attenuates mechanical allodynia, but does not alter neuroinflammation, in a rat model of neuropathic pain

Moalem-Taylor, G., Lim, M., Allbutt, H.N. and Tracey, D.J. (Australia)

POS-THU-088 13:30 - 14:30

Sensory innervation of the external genitalia of female guinea-pigs

Gibbins, I.L., Vilimas, P.I., Yuan, S.Y., Bens, J. and Morris, J.L. (Australia)

POS-WED-089 13:00 - 14:00

Vagal and spinal afferent neurons innervating the adult mouse jejunum have different structural and neurochemical phenotypes

Tan, L.L., Bornstein, J.C. and Anderson, C.R. (Australia)

POS-THU-090 13:30 - 14:30

Serotonin release from the mucosa is not required for the generation and propagation of colonic migrating motor complexes in rodents

Keating, D.J. and **Spencer, N.J.** (Australia)

POS-WED-091 13:00 - 14:00

Transduction by gut mechanonociceptors

Brookes, S.J.H., Chen, B.-N., Song, X.-Y. and Zagorodnyuk, V.P. (Australia)

POS-THU-092 13:30 - 14:30

The sphingosine 1-phosphate receptor 2 in murine sensory DRG neurons

Haberberger, R.V., DeGraaf, Y., Schweigreiter, R., Vilimas, P., Gibbins, I.L. and Kress, M. (Australia and Austria)

POS-WED-093 13:00 - 14:00

Antibody-mediated targeting of nociceptive neurons

Haberberger, R.V., **DeGraaf, Y.C.**, Gai, W.P., Matusica, D., Muyderman, H.Y., Rush, R. and Rogers, M.L. (Australia)

POS-THU-094 13:30 - 14:30

Terminals of glutamatergic nociceptors form microdomains in lamina I of the mouse dorsal horn

Anderson, R.L., Clarke, J.N., Malapira, L.D.G., Buckley, N.C., Vilimas, P.I. and Gibbins, I.L. (Australia)

POS-WED-095 13:00 - 14:00

Properties of post-synaptic dorsal column (PSDC) neurons in the cervical and thoracic spinal cord

Rana, I., Ye, P., Shafton, A., Badoer, E. and Stebbing, M.J. (Australia)

POS-THU-096 13:30 - 14:30

Single unit response properties in auditory cortex of rats with unilateral hearing damage

Hiles, B.A., Calford, M.B. and Parsons, C.H. (Australia)

POS-WED-097 13:00 - 14:00

Single and dual site stimulation in the ventral cochlear nucleus using a penetrating auditory brainstem implant

Shivdasani, M.N., Mauger, S.J., Argent, R.E., Rathbone, G.D. and Paolini, A.G. (Australia)

POS-THU-098 13:30 - 14:30

Adenosine receptors alter cochlear response to noise

Guo, C.X., Wong, A., Gupta, R., Thorne, P.R., Housley, G.D. and Vlajkovic, S.M. (New Zealand and Australia)

POS-WED-099 13:00 - 14:00

Stem cell therapy for noise-induced hearing loss in mice

Pandit, S., Cohen, M., Sullivan, J.M., Bogaerts, S. and Oleskevich, S. (Australia)

POS-THU-100 13:30 - 14:30

Efferent innervation is present to all regions of the auditory basilar papilla of lizards

Wibowo, E. and **Koepl, C.** (Australia)

POS-WED-101 13:00 - 14:00

Flash VEP is reduced in children when preceded by an audio-visual stimulus

Innes-Brown, H., Batutchu, A., Shivdasani, M.N. and Paolini, A.G. (Australia)

POS-THU-102 13:30 - 14:30

New strategies for electrical stimulation of the central auditory pathway: conveying behaviourally relevant information

Paolini, A.G., Morgan, S.J. and Shivdasani, M.N. (Australia)

POS-WED-103 13:00 - 14:00

The effects of deafness and chronic electrical stimulation on the spatial and temporal characteristics of auditory neurons

Wise, A.K., Fallon, J.B., O'Leary, S.J., Sly, D.J. and Shepherd, R.K. (Australia)

POS-THU-104 13:30 - 14:30

Histopathologic effects of chronic cochlear implant use

Fallon, J.B., Donley, L., Evans, A., Giummarra, M., Coco, A. and Shepherd, R.K. (Australia)

POS-WED-105 13:00 - 14:00

Retinal dysfunction in an animal model of retinopathy of prematurity

Hatzopoulos, K.M., Vessey, K.A., Ward, M.M., Wilkinson-Berka, J., Miller, A., Heine, R. and Fletcher, E.L. (Australia)

POS-THU-106 13:30 - 14:30

Oxygen toxicity: gene expression changes in the hyperoxia-challenged mouse retina

Natoli, R., Provis, J., Vater, K. and Stone, J. (Australia)

POS-WED-107 13:00 - 14:00

The P2X₇ receptor modulates neuronal function in the mouse retina

Vessey, K.A. and Fletcher, E.L. (Australia)

POS-THU-108 13:30 - 14:30

Class 3 semaphorin expression following optic nerve transection in adult rat

Sharma, A. and Harvey, A.R. (Australia)

POS-WED-109 13:00 - 14:00

Sortilin localisation in the rat retina during early postnatal development

Shim, W.J. and **Firth, S.I.** (Australia)

POS-THU-110 13:30 - 14:30

Analysis of non-ganglion retinal cells in a mouse model of glaucoma

Gunn, D.J., Gole, G.A., Colditz, P.B. and Barnett, N.L. (Australia)

POS-WED-111 13:00 - 14:00

Diolistic labeling of inner retinal neurons in marine fish using a hand-held genegun

Pignatelli, V. (Australia)

POS-THU-112 13:30 - 14:30

Does the retina subscribe to a "broadband provider?"

O'Brien, B.J. and Isom, L.L. (Australia, New Zealand and USA)

POS-WED-113 13:00 - 14:00

Measurement of adult visual acuity and the morphological development of the seahorse (*hippocampus abdominalis*) fovea

Lee, H.R. and Bumsted O'Brien, K.M. (Australia)

POS-THU-114 13:30 - 14:30

S-Adenosylmethoinine is neuroprotective in the retina following acute ischemic injury

Moxon-Lester, L.N., Takamoto, K., Christie, D.L., Colditz, P.B. and Barnett, N.L. (Australia and New Zealand)

POS-WED-115 13:00 - 14:00

Photobiomodulation protects the retina from light-induced damage

Albarracin, R.S. and Valter, K. (Australia)

POS-THU-116 13:30 - 14:30

Photoreceptor and ganglion cell topography in the pigeon retina

Querubin, A., Provis, J.M. and Bumsted O'Brien, K.M. (Australia)

POS-WED-117 13:00 - 14:00

Time course of neuronal and glial cell changes in the retina during light-induced retinal degeneration

Ward, M.M. and Fletcher, E.L. (Australia)

POS-THU-118 13:30 - 14:30

Self-repair of cones in the rhodopsin-mutant rat retina by management of ambient light

Chrysostomou, V., Valter, K. and Stone, J. (Australia)

POS-WED-119 13:00 - 14:00

Investigation of pupil responses to multifocal stimuli subtending 10° and 15° visual fields

Sabeti, F., Maddess, T. and James, A.C. (Australia)

POS-THU-120 13:30 - 14:30

Slowing vision: pattern pulse multifocal visual evoked potential (PPMFVEP) timing dilation under isoluminant and luminance contrast conditions

Inverso, S.A., Goh, X.L. and James, A.C. (Australia)

POS-WED-121 13:00 - 14:00

Widespread, stimulus-independent correlations between neurons in the lateral geniculate nucleus of anaesthetised marmosets

Cheong, S.K., Tailby, C., Martin, P.R., Levitt, J.B. and Solomon, S.G. (Australia and USA)

POS-THU-122 13:30 - 14:30

Brief exposure to high contrast reduces the contrast sensitivity of magnocellular cells in the primate lateral geniculate nucleus

Camp, A.J., Cheong, S.-K. and Solomon, S.G. (Australia)

POS-WED-123 13:00 - 14:00

Comparative analysis of the primary visual cortex (V1) neuronal populations in CRX-knockout and wildtype mice

Goldshmit, Y., Galley, S., Sernagor, E. and Bourne, J.A. (Australia and United Kingdom)

POS-THU-124 13:30 - 14:30

Bypassing V1: development of direct retinothalamic inputs to the middle temporal (MT) visual cortical area

Warner, C.E. and Bourne, J.A. (Australia)

POS-WED-125 13:00 - 14:00

Silent suppressive surrounds of neurones in cat area V2

Wang, C., Romo, P.A., Chauvin, G. and Dreher, B. (Australia)

POS-THU-126 13:30 - 14:30

Visual pathways to the primate dorsolateral prefrontal cortex: a retrograde tracing study in the marmoset monkey

Burman, K.J. and Rosa, M.G.P. (Australia)

POS-WED-127 13:00 - 14:00

Direction and contrast tuning of macaque MST neurons during saccades

Ibbotson, M.R., Crowder, N.A., Price, N.S.C. and Mustari, M.J. (Australia and USA)

POS-THU-128 13:30 - 14:30

Saccadic suppression and post-saccadic enhancement of visual responses: time course and mechanisms

Cloherly, S.L., Crowder, N.A., Price, N.S.C., Mustari, M.J. and Ibbotson, M.R. (Australia, and USA)

POS-WED-129 13:00 - 14:00

Attentional blink in the macaque: psychophysics and electrophysiology

Maloney, R.T., Jayakumar, J.U., Pigarev, I.N., Goodwin, A.W. and Vidyasagar, T.R. (Australia and Russia)

POS-THU-130 13:30 - 14:30

A multifocal pupillographic investigation of direct and consensual pupil responses

Carle, C.F., James, A.C., Kolic, M. and Maddess, T. (Australia)

POS-WED-131 13:00 - 14:00

Demarcation of the ferret visual cortex using specific neuronal immunolabelling

Homman-Ludiye, J., Manger, P.R. and Bourne, J.A. (Australia and South Africa)

POSTERS – WEDNESDAY & THURSDAY

POS-THU-132 13:30 - 14:30

Evoked activity during multisensory integration in children and adults

Barutchu, A., Innes-Brown, H., Shivdasani, M.N., Crewther, S.G. and Paolini, A.G. (Australia)

POS-WED-133 13:00 - 14:00

Focal activation of the feline retina via a suprachoroidal electrode array

Chen, S.C., Wong, Y.T., Morley, J.W., Suaning, G.J. and Lovell, H.N. (Australia)

POS-THU-134 13:30 - 14:30

Effects of spatial frequency on perceived contrast following contrast adaptation in humans

Hietanen, M.A., Cloherty, S.L., Clifford, S.W.G. and Ibbotson, M.R. (Australia)

POS-WED-135 13:00 - 14:00

Primary visual cortex contains information about colour-form conjunctions

Seymour, K.J., **Clifford, C.W.G.**, Logothetis, N.K. and Bartels, A. (Australia and Germany)

POS-THU-136 13:30 - 14:30

Decoding higher order colour signals in human visual cortex

Goddard, E., Mannion, D.J., McDonald, J.S., Solomon, S.G. and Clifford, C.W.G. (Australia)

POS-WED-137 13:00 - 14:00

Picking signal from noise: interactions between motion directions

Iyer, P.B., **Freeman, A.W.**, Clifford, C.W.G. and McDonald, J.S. (Australia)

POS-THU-138 13:30 - 14:30

UV-sensitive optomotor neurons in honeybees

Hung, Y.S., Van Kleef, J., Stange, G. and Ibbotson, M.R. (Australia)

POS-WED-139 13:00 - 14:00

Cancelled

POS-THU-140 13:30 - 14:30

Visual physiology of carcharhinid sharks: motion perception and irradiance sensitivity

Litherland, L.E., Brill, R.W., Collin, S.P. and Fritsches, K.A. (Australia and USA)

POS-WED-141 13:00 - 14:00

Response of sea turtles hatchlings to lights of different wavelength

Fritsches, K.A. (Australia)

POS-THU-142 13:30 - 14:30

Visual ecology of cephalopods

Talbot, C.M., Marshall, J., Collin, S.P. and Norman, M. (Australia)

MOTOR SYSTEMS

Posters 143 – 171

POS-WED-143 13:00 - 14:00

Alignment of self and non-self balanced bodies

Butler, A.A., Luu, B.L. and Fitzpatrick, R.C. (Australia)

POS-THU-144 13:30 - 14:30

Thresholds for detecting the height of the ground underfoot

Offord, J., Mille, M.L. and Fitzpatrick, R.C. (Australia and France)

POS-WED-145 13:00 - 14:00

Proprioception with muscle contraction at the human ankle

Chew, Y., Sturnieks, D.L. and Fitzpatrick, R.C. (Australia)

POS-THU-146 13:30 - 14:30

Parallel measures of the tonic stretch reflex and its mechanical impact

Burne, J.A. and Stanislaus, V. (Australia)

POS-WED-147 13:00 - 14:00

Pathways subserving the tonic vibration reflex in humans

Khatun, S. and Burne, J.A. (Australia)

POS-THU-148 13:30 - 14:30

Inhibition of the stretch reflex components M1 and M2 by tendon electrical stimulation in an upper limb muscle

Khan, S.I. and Burne, J.A. (Australia)

POS-WED-149 13:00 - 14:00

History-dependent changes to passive muscle properties in rheumatoid arthritis

Rajagopalan, A. and Burne, J.A. (Australia)

POS-THU-150 13:30 - 14:30

Firing of human intercostal motoneurons during quiet and voluntary breathing

Hudson, A.L., Gandevia, S.C. and Butler, J.E. (Australia)

POS-WED-151 13:00 - 14:00

Subthreshold cortical stimulation inhibits human inspiratory muscles during voluntary but not involuntary breathing

Taylor, J.L., Petersen, N.C., Murray, N., Gandevia, S.C. and Butler, J.E. (Australia and Denmark)

POS-THU-152 13:30 - 14:30

Plasticity in the human spinal cord alters voluntary motor output

Martin, P.G. and Taylor, J.L. (Australia)

POS-WED-153 13:00 - 14:00

Voluntary activation of the different compartments of the flexor digitorum profundus

van Duinen, H., Gandevia, S.C. and Taylor, J.L. (Australia)

POS-THU-154 13:30 - 14:30

The effect of muscle fatigue on long-interval inhibition

McNeil, C.J., Martin, P.G., Gandevia, S.C. and Taylor, J.L. (Australia)

POS-WED-155 13:00 - 14:00

Facilitation of the human motoneuron pools in the tibialis anterior muscle after maximal contraction

Giesbrecht, S., Martin, P.G., Gandevia, S.C. and Taylor, J.L. (Australia)

POS-THU-156 13:30 - 14:30

Microarray analysis of the injured spinal cord of EphA4 knockout mice

Munro, K.M., Perreau, V.M. and Turnley, A.M. (Australia)

POS-WED-157 13:00 - 14:00

In vivo testing of a novel mimetic peptide against
Connexin43 in rat spinal cord contusion injuries

Gorrie, C.A., Yang, P., Waite, P.M.E., O'Carroll, S.J.,
Nicholson, L.F.B. and Green, C.R. (Australia and New
Zealand)

POS-THU-158 13:30 - 14:30

Natural killer cells are increased following stem cell
transplants in the athymic rat spinal cord

Lauschke, J.L., Gorrie, C.A., Hayward, I., Ma, D., Mackay-
Sim, A., Sidhu, K., Tao, H., Tuch, B., Wang, J. and Waite,
P.M.E. (Australia)

POS-WED-159 13:00 - 14:00

Identifying genes related to movement disorders in mice

Panwar, A., Mangelsdorf, M.E., Butler, T. and Wallace,
R.H. (Australia)

POS-THU-160 13:30 - 14:30

SK2 mutations cause a movement disorder in ENU-
mutagenised mice

Mangelsdorf, M., Panwar, A., Butler, T., Armstrong, J.,
Whittle, B., Fowler, S., Goodnow, C. and Wallace, R.H.
(Australia)

POS-WED-161 13:00 - 14:00

Voltage-gated sodium channel gene expression in a
transgenic mouse model of motor neurone disease

Zhong, W., Kerr, M.L., Noakes, P.G. and Bellingham, M.C.
(Australia)

POS-THU-162 13:30 - 14:30

Motor neuron specific, non-viral gene delivery targeted
through the p75NTR

Matusica, D., Muyderman, H., Rogers, M.-L. and Rush,
R.A. (Australia)

POS-WED-163 13:00 - 14:00

Investigating the functional consequences of gene mutations
in ALS

Warrach, S.T., Durnall, J.C., Williams, K.L., Thoeng,
A.D., Nicholson, G.A. and Blair, I.P. (Australia)

POS-THU-164 13:30 - 14:30

GABA-deficient mice produce regional changes in motoneuron survival and activity during development
Smallcombe, K.L., Obata, K., Yanagawa, Y., Bellingham, M.C. and Noakes, P.G. (Australia and Japan)

POS-WED-165 13:00 - 14:00

Length tension curve of human single motor units
Whyte, M.S.D. and McNulty, P.A. (Australia)

POS-THU-166 13:30 - 14:30

Different time courses of GABA_B receptor mediated post- vs. presynaptic inhibition in human motor cortex
Cash, R., Ziemann, U. and Thickbroom, G. (Australia and Germany)

POS-WED-167 13:00 - 14:00

Motor cortex plasticity induced by paired associative stimulation is enhanced in physically active individuals
Cirillo, J., Lavender, A.P., Ridding, M.C. and Semmler, J.G. (Australia)

POS-THU-168 13:30 - 14:30

Language tasks increase hand motor cortex excitability without altering intracortical inhibition
Amarasena, J., Sale, M.V., Gan, C., Honey, D., Lai, J., Meredith, I.-R. and Nordstrom, M.A. (Australia and Sri Lanka)

POS-WED-169 13:00 - 14:00

Group III metabotropic glutamate receptor agonists decrease glutamate release in the rat substantia nigra and provide functional neuroprotection against 6-OHDA-lesions
Austin, P.J. and Duty, S. (United Kingdom)

POS-THU-170 13:30 - 14:30

Is Wnt1 expression a characteristic of all mouse hindbrain precerebellar nuclei?
Fu, Y., Tvrdik, P., Khoo, T.K.L., Paxinos, G. and Watson, C. (Australia and USA)

POS-WED-171 13:00 - 14:00

Projections from the cuneiform complex to the spinal cord in the mouse
Liang, H., Paxinos, G. and Watson, C. (Australia)

AUTONOMIC, LIMBIC AND OTHER

Posters 172 - 211

POS-THU-172 13:30 - 14:30

Knockdown of angiotensin precursor protein *in vitro*
O'Callaghan, E.L., Thomas, W.G. and Allen, A.M.
(Australia)

POS-WED-173 13:00 - 14:00

Does augmented respiratory-sympathetic coupling in the rat contribute to hypertension?
Simms, A.E., Paton, J.F.R., Pickering, A.E. and **Allen, A.M.**
(Australia and UK)

POS-THU-174 13:30 - 14:30

Spontaneously hypertensive rats show increased expiratory abdominal motor nerve activity which correlates with increased sympathetic nerve activity
Simms, A.E., Allen, A.M., Pickering, A.E. and Paton, J.F.R. (Australia and United Kingdom)

POS-WED-175 13:00 - 14:00

Immunohistochemical and functional study of galanin in the rat rostral ventrolateral medulla (RVLM)
Etelvino, G.M., Verberne, A.J.M. and Llewellyn-Smith, I.J.
(Australia)

POS-THU-176 13:30 - 14:30

Close arterial leptin infusion selectively inhibits a sub-population of RVLM neurons and splanchnic sympathetic nerve activity
Sartor, D.M. and Verberne, A.J.M. (Australia)

POS-WED-177 13:00 - 14:00

Properties of neurons in the rostroventrolateral medulla that are activated by neuroglucoprivation
Verberne, A.J.M. and Sartor, D.M. (Australia)

POS-THU-178 13:30 - 14:30

Cardiovascular and locomotor effects of orexin A administered intracerebroventricularly and intrathecally in the conscious rat
Luong, L.N.L., Vianna, D.M.L. and Carrive, P. (Australia)

POS-WED-179 13:00 - 14:00

The orexin receptor antagonist almorexant reduces rat diurnal cardiovascular responses to psychological, but not physical stress

Vianna, D.M.L. and Carrive, P. (Australia)

POS-THU-180 13:30 - 14:30

Effects of voluntary exercise on cardiac responses and stress and on cardiac excitability

Beig, M.I., Baumert, M. and Nalivaiko, E. (Australia)

POS-WED-181 13:00 - 14:00

Activation of a pathway from the hypothalamic PVN to the NTS during airpuff stress

Furlong, T.M., McDowall, L.M., Horiuchi, J. and Dampney, R.A.L. (Australia)

POS-THU-182 13:30 - 14:30

Cardiorespiratory response evoked by the dorsal PAG in the midbrain is mediated via the dorsomedial hypothalamus

Horiuchi, J., McDowall, L.M. and Dampney, R.A.L. (Australia)

POS-WED-183 13:00 - 14:00

Differential control of sympathetic vasomotor and respiratory functions by the dorsal periaqueductal grey in the midbrain

Iigaya, K., Horiuchi, J., McDowall, L.M. and Dampney, R.A.L. (Australia)

POS-THU-184 13:30 - 14:30

Amygdala mediates sympathetic cutaneous vasoconstrictor alerting responses (SCVARs) in rats: relevance of 5HT_{2A} receptors

Kulasekara, K.M.K.K., Menezes, R., Ootsuka, Y. and Blessing, W.W. (Australia)

POS-WED-185 13:00 - 14:00

The projection from the central nucleus of the amygdala to the ventrolateral periaqueductal gray is GABAergic

Olsen, N.D., Kumar, N.N., Goodchild, A.K. and Carrive, P. (Australia)

POS-THU-186 13:30 - 14:30

Ventrolateral periaqueductal gray projections to the hypothalamic paraventricular nucleus do not possess α_2a and α_2c -adrenoceptors

Borecki, A.A., Austin, P. and Keay, K.A. (Australia)

POS-WED-187 13:00 - 14:00

Periaqueductal grey to paraventricular nucleus of thalamus projections as a possible pathway for injury evoked changes in hypothalamic-pituitary-adrenal axis function

Brown, R. and Keay, K.A. (Australia)

POS-THU-188 13:30 - 14:30

Rats with pain and disability following sciatic nerve injury have increased numbers of neurons expressing cholecystokinin mRNA in the ventrolateral periaqueductal gray

Argueta, M.A., Michael, G.J. and Keay, K.A. (Australia and United Kingdom)

POS-WED-189 13:00 - 14:00

A 90 minute ultradian rhythm in brown adipose tissue is highly correlated with similar rhythms in brain temperature and hippocampal theta EEG

Ootsuka, Y., Menezes, R. and Blessing, W.W. (Australia)

POS-THU-190 13:30 - 14:30

What functions do vasomotor ganglion cells perform in vivo?

Bratton, B.O., Davies, P., Janig, W. and McAllen, R.M. (Australia and Germany)

POS-WED-191 13:00 - 14:00

Roles of two preoptic cell groups in tonic and febrile control of rat tail sympathetic fibres

Tanaka, M., McKinley, M.J. and McAllen, R.M. (Australia)

POS-THU-192 13:30 - 14:30

Modulation of skin sympathetic nerve activity and promotion of cardiac rhythmicity by sinusoidal galvanic vestibular stimulation in human subjects

James, C., Statis, A. and Macefield, V. (Australia)

POS-WED-193 13:00 - 14:00

Frequency-dependent modulation of muscle sympathetic nerve activity by sinusoidal galvanic vestibular stimulation in human subjects

Grewal, T., James, C. and Macefield, V. (Australia)

POS-THU-194 13:30 - 14:30

Mapping pudendal-lumbar spinal-pelvic pathways controlling female reproductive tract in guinea-pigs

Yuan, S.Y., Vilimas, P.I., Zagorodnyuk, V.P., Gibbins, I.L. and Morris, J.L. (Australia)

POS-WED-195 13:00 - 14:00

Interleukin-6 mediated activation of ERK1/2 and STAT3 in adrenal medullary chromaffin cells

Bunn, S.J., Carmen, F. and Douglas, S.A. (New Zealand)

POS-THU-196 13:30 - 14:30

Sortilin is expressed by human natural killer cells and mediates proNGF-induced cell death

Rogers, M.-L., Matusica, D., Muyderman, H., Nicholson, I., Bailey, S., Pagadala, P., Neet, K., Zola, H., Macardle, P. and Rush, R.A. (Australia and USA)

POS-WED-197 13:00 - 14:00

Hypothalamic study of a new model of obese mice

Heydet, D., Larter, C.Z. and Farrell, G.C. (Australia)

POS-THU-198 13:30 - 14:30

Effects of schwann cell-delivered neurotrophic factors on peripheral nerve regeneration

Grade Godinho, M.J., Teh, L., Walters, M., Verhaagen, J., Plant, G. and Harvey, A.R. (Australia and The Netherlands)

POS-WED-199 13:00 - 14:00

Identification of neurons that express ghrelin receptors in the medulla oblongata and spinal cord

Yin, L., Hunne, B., Qu, Z., Furness, J.B. and Bron, R. (Australia)

POS-THU-200 13:30 - 14:30

Respiratory effects of somatostatin in subnuclei of the ventral respiratory column of the rat: mechanisms of respiratory suppression

Burke, P.G.R., Goodchild, A.K. and Pilowsky, P.M. (Australia)

POS-WED-201 13:00 - 14:00

Multiple protective activities of neuroglobin in cultured neuronal cells exposed to hypoxia reoxygenation injury
Duong, T.T.H., Witting, P.K., Antao, S.T., Parry, S.N., Kennerson, M., Lai, B., Vogt, S., Lay, P.A. and Harris, H.H. (Australia and USA)

POS-THU-202 13:30 - 14:30

Prenatal nicotine exposure in the fetal baboon increases parasympathetic activity and results in serotonergic and nicotinic brainstem abnormalities: implications for the sudden infant death syndrome
Duncan, J.R., Garland, M., Myers, M.M., Fifer, W.P., Yang, M., Kinney, H.C. and Stark, R.I. (USA)

POS-WED-203 13:00 - 14:00

Does the extracellular calcium sensing receptor detect luminal amino acids in the intestinal mucosa?
Ly, D.K.N., Gwynne, R.M., Parry, L.J. and Bornstein, J.C. (Australia)

POS-THU-204 13:30 - 14:30

Shapes of enteric neurons revealed by neurofilament localisation differ from those revealed by cytoplasmic markers
Rivera, L.R., Thacker, M. and Furness, J.B. (Australia)

POS-WED-205 13:00 - 14:00

Inflammation of the ileum has effects at a remote site, the celiac ganglion
Hunne, B., Jovic, T., Thacker, M., Pontell, L., Bagyanski, M., Nurgali, K., Furness, J.B. and Bron, R. (Australia and Hungary)

POS-THU-206 13:30 - 14:30

Histological changes and inflammatory cell invasion in the ileum after a brief inflammatory episode
Pontell, L., Jovic, T., Thacker, M., Bagyanski, M., Bron, R. and Furness, J.B. (Australia and Hungary)

POS-WED-207 13:00 - 14:00

Neuronal injury and death following intestinal inflammation
Qu, Z., Thacker, M., Pontell, L., Furness, J.B. and Nurgali, K. (Australia)

POS-THU-208 13:30 - 14:30

Morphological changes in specific subtypes of myenteric neurons following ischemia

Thacker, M., Rivera, L.R., Pontell, L. and Furness, J.B. (Australia)

POS-WED-209 13:00 - 14:00

Calcium channels in myenteric neurons: modulation by pregabalin and gabapentin

Needham, K., Bron, R., McHugh, D. and Furness, J.B. (Australia and United Kingdom)

POS-THU-210 13:30 - 14:30

Alleviation of the effects of chronic stress on long-term potentiation in the rat hippocampus

Butt, E.A., Bellingham, M.C. and Lavidis, N.A. (Australia)

POS-WED-211 13:00 - 14:00

Prevention of stressed-induced degeneration in CA3 hippocampal neurons by Praescent™

Leong, E.L., Tran, L., Lavidis, N.A. and Bradley, A.J. (Australia)

COGNITION AND BEHAVIOUR

Posters 212 - 238

POS-THU-212 13:30 - 14:30

Gaze strategy in the free flying zebra finch (*taeniopygia guttata*)

Eckmeier, D., **Kress, D.**, Mertes, M., Kern, R., Egelhaaf, M. and Bischof, H.J. (Germany)

POS-WED-213 13:00 - 14:00

Colour discrimination thresholds in a trigger fish, *rinicanthus aculeatus*

Champ, C.M., Pignatelli, V., Marshall, N.J. and Vorobyev, M. (Australia)

POS-THU-214 13:30 - 14:30

Pattern discrimination in reef fish

Parker, A., Siebeck, U. and Wallis, G. (Australia)

POS-WED-215 13:00 - 14:00

Neural network model for sequence learning

Byrnes, S., Burkitt, A.N., Meffin, H. and Grayden, D.B.
(Australia)

POS-THU-216 13:30 - 14:30

Identification of neurons involved in the learning of fear memory

Wilson, Y., Vasiliadis, D., Kwek, P., Liknaitzky, P. and Murphy, M. (Australia)

POS-WED-217 13:00 - 14:00

Nerve injury alters reward-aversion behaviour in a subpopulation of rats

Pal, A., Austin, P. and Keay, K.A. (Australia)

POS-THU-218 13:30 - 14:30

Removal of striatal perineuronal nets affects Morris water maze behaviour in mice

Lee, H., Leamey, C.A. and Sawatari, A. (Australia)

POS-WED-219 13:00 - 14:00

Long-term effects on cognition of chronic ritalin administration to non-ADHD adolescent rats

Pardey, M.C., Homewood, J. and Cornish, J.L. (Australia)

POS-THU-220 13:30 - 14:30

The impact of chronic restraint stress on regulating behavioural and glial changes in the adult rat

Tynan, R., Naicker, S., Day, T. and Walker, F.R. (Australia)

POS-WED-221 13:00 - 14:00

Thiamine deficiency in rats produces memory deficits on spatial tasks that correlate with thalamic serotonergic parameters

Oliveira-Silva, I., Antonion Borges Vigil F., **Freire Ferreira, L.**, Guilherme Graeff, F., Rejane Castanheira Pereira, S. and Maria Ribeiro, A., (Brazil)

POS-THU-222 13:30 - 14:30

Stimulus pattern dependence of the Alzheimer's disease A β 42 peptide's inhibition of long term potentiation in mouse hippocampal slices

Ciccotosto, G.D., Lal, V., Bowser, D., Masters, C.L., Barnham, K.J., Cappai, R. and Smith, J.P. (Australia and USA)

POS-WED-223 13:00 - 14:00

Neural activity in the amygdala during sexual behaviour
Suhr, C., Shivdasani, M.N., Argent, R.E. and Paolini, A.G.
(Australia)

POS-THU-224 13:30 - 14:30

Asymmetry in hippocampal dentate gyrus morphology
predicts disability following peripheral nerve injury
Kalman, E., Ritchie, G. and Keay, K.A. (Australia)

POS-WED-225 13:00 - 14:00

A single exposure to an enriched environment stimulates the
activation of discrete neuronal populations in the brain of the
fos-tau-lacZ mouse
Ali, A., Wilson, Y. and Murphy, M. (Australia)

POS-THU-226 13:30 - 14:30

Experiences during paralysis: vision and humour
Whitham, E.M., Fitzgibbon, S.P., Lewis, T.W., Pope, K.J.,
DeLosAngeles, D., Clark, C.R., Lillie, P., Hardy, A.,
Gandevia, S.C. and Willoughby, J.O. (Australia)

POS-WED-227 13:00 - 14:00

Methamphetamine, ethanol and their combination: short-
term effects on measures of anxiety and memory in the rat
after binge treatment
Kraushaar, N.J., Lee, K.L., Pfeiffer, M.J., Filby, R.A. and
Cornish, J.L. (Australia)

POS-THU-228 13:30 - 14:30

The affects of calorie restriction on the acute immune
response
MacDonald, L., Radler, M., Paolini, A.G. and Kent, S.
(Australia)

POS-WED-229 13:00 - 14:00

Serotonin 5-HT₄ receptors in the rat nucleus accumbens are
involved in MDMA-induced appetite suppression
Francis, H.M., Kraushaar, N.J., Hunt, L.R. and **Cornish,
J.L.** (Australia)

POS-THU-230 13:30 - 14:30

Early dietary intervention and high fat diet induced maternal
obesity influences offspring central appetite regulators
Rajia, S., Chen, H. and Morris, M.J. (Australia)

POS-WED-231 13:00 - 14:00

Specific gene expression in the rat periaqueductal grey predicts the animal's preference for proactive, reactive or shifting coping styles

Brett, Z., Ritchie, G. and Keay, K.A. (Australia)

POS-THU-232 13:30 - 14:30

Molecular function of *Gtf2Ird1*, a transcription factory implicated in Williams-Beuren syndrome

Widagdo, J., Tay, E., Popovic, K. and Hardeman, E. (Australia)

POS-WED-233 13:00 - 14:00

Insulin-like peptide-3 receptor LGR8 in mouse brain: enrichment in sensorimotor/limbic circuits and behavioural effects of icv INSL3

Jennings, N.L., Sang, Q., Sedaghat, K., Zhang, S., Shen, P.J., Wade, J.D. and **Gundlach, A.L.** (Australia)

POS-THU-234 13:30 - 14:30

Anxiolytic and antipsychotic effects of the non-psychoactive plant cannabinoid cannabidiol - behavioural and c-fos immunohistochemical evidence

Long, L.E., Spencer, J.R., Boucher, A.A., Hunt, G.E., Arnold, J.C. and Karl, T. (Australia)

POS-WED-235 13:00 - 14:00

Heart rate variability and QT interval variability are not correlated with cardiac noradrenaline spillover in patients with depression and panic disorder

Baumert, M.I., Lambert, G., Dawood, T., Lambert, E., Esler, M., McGrane, M., Barton, D. and Nalivaiko, E. (Australia)

POS-THU-236 13:30 - 14:30

Retinotopic organization of anti-face aftereffect

Talehy-Moineddin, S., Ezzati, A. and Sanayei, M. (Iran and UK)

POS-WED-237 13:00 - 14:00

Why tertiary education is bad for your eyes!

Murphy, M.J., Adams, C., Annan, S., Bowden, J., Caputo, C., Lamp, G., Miler, L., Park, L., Rockliffe, R., Wallace, A., Vassallo, S., Malesic, L. and Crewther, S.G. (Australia)

POS-THU-238 13:30 - 14:30

Changes in function and gene expression in central nuclei
after cochlear lesions

Dong, S.Y., Mulders, W.H.A.M., Rodger, J. and **Robertson, D.** (Australia)

NEUROLOGICAL AND PSYCHIATRIC CONDITIONS

Posters 239 – 303

POS-WED-239 13:00 - 14:00

Determining important mediators of inflammation and
neurotoxicity in Alzheimer's disease using human in vitro
models

Warden, L.A., Guillemin, G., Halliday, G.M. and **Shepherd, C.E.** (Australia)

POS-THU-240 13:30 - 14:30

Involvement of the kynurenine pathway in Alzheimer's
disease

Guillemin, G.J., Cullen, K.M., Rahman, A., Ting, K.,
Chung, R. and Brew, B.J. (Australia)

POS-WED-241 13:00 - 14:00

Glycosaminoglycans influence aggregation of an
amyloidogenic transthyretin mutant (L55P TTR)

Klaver, D.W., Hou, X., Gasperini, R. and Small, D.H.
(Australia)

POS-THU-242 13:30 - 14:30

Mechanisms of amyloid-induced calcium dysregulation and
the role of synaptic scaling in the progression of Alzheimer's
disease

Vincent, A.J., Gasperini, R., Klaver, D., Hung, A. and
Small, D. (Australia)

POS-WED-243 13:00 - 14:00

Basal forebrain cholinergic neuroal denervation in a mouse
model of Alzheimer's disease

Hamlin, A.S. and Coulson, E.J. (Australia)

POS-THU-244 13:30 - 14:30

TPD-43 staining in Alzheimer disease and dementia with
Lewy bodies - evidence for dual pathology?

Piljic, M., Kersaitis, C., Halliday, G. and **Kril, J.** (Australia)

POS-WED-245 13:00 - 14:00

Immune responses in tau-positive and tau-negative frontotemporal lobar degeneration
Stevens, C., **Kersaitis, C.**, Halliday, G. and Kril, J.
(Australia)

POS-THU-246 13:30 - 14:30

Male hypogonadal mice have altered expression of Alzheimer's disease-related proteins
Drummond, E.S., Martins, R.N. and Harvey, A.R.
(Australia)

POS-WED-247 13:00 - 14:00

Microglial-induced neurotoxicity and anti-inflammatory neuroprotection
Stuchbury, G. and **Muench, G.** (Australia)

POS-THU-248 13:30 - 14:30

Lipoic acid as an anti-inflammatory and neuroprotective drug for Alzheimer's disease
Maczurek, A.E., Hager, K., Kenklies, M. and Muench, G.
(Australia and Germany)

POS-WED-249 13:00 - 14:00

The involvement of the kynurenine pathway and inflammation in amyotrophic lateral sclerosis
Chen, Y., Stankovic, R., Cullen, K., Meininger, V., Coogen, S., Grant, R., Gamer, B., Brew, B.J. and Guillemin, G.J.
(Australia and France)

POS-THU-250 13:30 - 14:30

Gas6 deficiency increases damage but promotes recovery in response to cuprizone-induced demyelination
Binder, M.D., Kemper, D. and Kilpatrick, T.J. (Australia)

POS-WED-251 13:00 - 14:00

Disabled-2 (Dab2) is implicated in the pathogenesis of EAE
Jokubaitis, V.G., Kemper, D., Butzkueven, H. and **Kilpatrick, T.J.** (Australia)

POS-THU-252 13:30 - 14:30

The MBP-DTR mouse: a model of inducible oligodendrocyte apoptosis in the adult brain
Oluich, L., Merson, T.D., Cate, H.S. and Kilpatrick, T.J.
(Australia)

POS-WED-253 13:00 - 14:00

Modulation of bone morphogenic signalling during demyelination

Sabo, J., Merlo, D., Aumann, T., Kilpatrick, T. and Cate, H. (Australia)

POS-THU-254 13:30 - 14:30

The complement factor C5a contributes to pathology in a rat model of motor neuron disease

Woodruff, T.M., Costantini, K.J., Crane, J.W., Atkin, J.D., Taylor, S.M. and Noakes, P.G. (Australia)

POS-WED-255 13:00 - 14:00

Thrombin activation of astrocytes induces morphological changes and cell injury in mixed rat hippocampal cultures

Niego, B., Samson, A.L. and Medcalf, R.L. (Australia)

POS-THU-256 13:30 - 14:30

Increased endogenous tissue type-plasminogen activator (t-PA) correlates with increased matrix metalloproteinase-9 activation following traumatic brain injury

Sashindranath, M., Karadimos, D. and Medcalf, R.L. (Australia)

POS-WED-257 13:00 - 14:00

Characterising endogenous neurogenesis following experimental focal traumatic brain injury (TBI)

Bye, N., Tran, T., Malakooti, N. and Morganti-Kossmann, M.C. (Australia)

POS-THU-258 13:30 - 14:30

Post-traumatic hypoxia exacerbates brain damage in an animal model of diffuse axonal injury

Hellewell, S.C., **Yan, E.B.**, Agyapomaa, D. and Morganti-Kossmann, M.C. (Australia)

POS-WED-259 13:00 - 14:00

Fas mediates tissue damage and neurological deficit following focal traumatic brain injury

Ziebell, J.M., Bye, N., Semple, B., Kossmann, T. and Morganti-Kossmann, C. (Australia)

POS-THU-260 13:30 - 14:30

Deficiency of monocyte chemoattractant protein-1 (MCP-1/CCL2) improves long-term outcome in mice following traumatic brain injury (TBI)

Semple, B., Bye, N., Malakooti, N., Ziebell, J., Kossmann, T. and Morganti-Kossmann, M.C. (Australia)

POS-WED-261 13:00 - 14:00

Ultrastructural changes in choroidal epithelial cells in traumatic brain injury

Ghabriel, M.N., Zdziarski, I.M., Leigh, C. and Vink, R. (Australia)

POS-THU-262 13:30 - 14:30

Effects of hypoxia on ICP and brain oxygenation following experimental traumatic brain injury in rats

Helps, S.C., Willshire, L., Ghabrielian, L. and Vink, R. (Australia)

POS-WED-263 13:00 - 14:00

The effect of a beta-lactam antibiotic ceftriaxone on glutamate transporters in CA1 hippocampal region: implications for neuroprotection

Lipski, J., Wan, C.K., Bai, J.Z., Pi, R., Li, D. and Donnelly, D. (New Zealand)

POS-THU-264 13:30 - 14:30

Differential expression of TRPV4 and TRPM2 channels in the hippocampus: significance for ischemia-induced cell damage

Bai, J.-Z. and Lipski, J. (New Zealand)

POS-WED-265 13:00 - 14:00

NADPH oxidase, angiogenesis and functional recovery following endothelin-1 induced stroke in conscious rats

Roulston, C.L., Taylor, C.J. and Dusting, G.J. (Australia)

POS-THU-266 13:30 - 14:30

Increased cortical infarct after transient ischaemic stroke in mice lacking the IP receptor for prostacyclin

McCann, S.K., Roulston, C.L. and Dusting, G.J. (Australia)

POS-WED-267 13:00 - 14:00

MRI evaluation of hypoxic-ischemic brain injury in the neonatal piglet

Bjorkman, S.T., Miller, S.M., Rose, S.E. and Colditz, P.B. (Australia)

POS-THU-268 13:30 - 14:30

A comparison of visual identification seizures and EEG detection methods in the human neonate

Miller, S.M., Bjorkman, S.T., Burke, C. and Colditz, P.B. (Australia)

POS-WED-269 13:00 - 14:00

Exogenous addition of in-house purified cylophilin a protein is neuroprotective in in-vitro neuronal culture models of stroke

Thomas, K., Boulos, S., Meloni, B. and Knuckey, N. (Australia)

POS-THU-270 13:30 - 14:30

Post-ischaemic neuroprotection with mild hypothermia (35°C) and magnesium following global and focal cerebral ischaemia in rats

Campbell, K., Meloni, B., Zhu, H., Robinson, L., Knuckey, M. and Knuckey, N. (Australia)

POS-WED-271 13:00 - 14:00

Infarction occurs more rapidly in hypertensive rats

Tomkins, A.J., Rostas, J.A.P., Pepperall, D., Calford, M.B. and Spratt, N.J. (Australia)

POS-THU-272 13:30 - 14:30

Secreted alpha-synuclein in exosomes

Tinsley, R.B., McAlpine, H.E. and Horne, M.K. (Australia)

POS-WED-273 13:00 - 14:00

Motor impairments in a mouse model of Huntington's disease with selective ablation of D1 receptor-expressing neurons in the striatum

Kim, H.A., O'Tuathaigh, C., Waddington, J.L., Lawrence, A.J. and Drago, J. (Australia and Ireland)

POS-THU-274 13:30 - 14:30

Astrocytic pathology in parkinsonian syndromes

Halliday, G.M., Song, Y.J.C., Lashley, T., McCann, H., Lockhart, P.J., Holton, J. and Revesz, T. (Australia and UK)

POS-WED-275 13:00 - 14:00

Lack of widespread degeneration and α -synuclein deposition in monkeys with over 10 years of severe MPTP parkinsonism

Murphy, K.E., Halliday, G.M., Herrero, M.T., McCann, H., Blesa, F.J. and Obeso, J.A. (Australia and Spain)

POS-THU-276 13:30 - 14:30

Pax6 in Parkinson's disease

Evill, L., Gell, J. and **Thomas, M.** (Australia)

POS-WED-277 13:00 - 14:00

Characterisation of the substantia nigra pars compacta in the absence of neurturin

Davenport, T.C., Meedeniya, A.C.B., Cavanagh, B. and Mackay-Sim, A. (Australia)

POS-THU-278 13:30 - 14:30

Parkin mediated ubiquitylation of parkin co-regulated gene (PACRG) promotes its recruitment to aggresomes

Taylor, J.M., Brody, K.M. and Lockhart, P.J. (Australia)

POS-WED-279 13:00 - 14:00

TorsinA, a protein associated with early onset dystonia, interacts with collapsin response mediator protein

Martin, K.L., O'Farrell, C.A., Delatycki, M.B. and Lockhart, P.A. (Australia and USA)

POS-THU-280 13:30 - 14:30

Unlocking the secrets of familial epilepsy: a whole genome analysis

Richards, K.I.-A., Gazina, E., Perreau, V.M. and Petrou, S. (Australia)

POS-WED-281 13:00 - 14:00

Cellular mechanism of hyperexcitability in the $\beta 1$ (C121W) mouse model of human epilepsy

Wimmer, V.C., Reid, C.A., Hill, E.L., Richards, K.L., Thomas, E.A., Davies, P.J., Lerche, H., O'Brien, T.J., Berkovic, S.F. and Petrou, S. (Australia and Germany)

POS-THU-282 13:30 - 14:30

Epilepsy causing ion channel mutations in the dentate gyrus

Thomas, E.A., Reid, C.A. and Petrou, S. (Australia)

POS-WED-283 13:00 - 14:00

Environmental enrichment delays in the onset of limbic epilepsy and improves anxiety-like and neurocognitive behaviours

Yang, M., **Rees, S.M.**, Salzberg, M.R., O'Brien, T.J. and Jones, N.C. (Australia)

POS-THU-284 13:30 - 14:30

AP-1 inhibitory peptides reduce neuronal death in *an in vitro* epilepsy model

Meade, A.J., Meloni, B.P., Mastaglia, F.L., Watt, P. and Knuckey, N.W. (Australia)

POS-WED-285 13:00 - 14:00

Increased expression of FAS receptor and ligand in prefrontal grey matter from patients with schizophrenia

Catts, V.S. and Shannon Weickert, C. (Australia)

POS-THU-286 13:30 - 14:30

Presynaptic marker mRNAs are altered in the dorsolateral prefrontal cortex in schizophrenia

Fung, S.J., Sivagnanasundaram, S., Tsai, S.Y. and Shannon Weickert, C. (Australia)

POS-WED-287 13:00 - 14:00

Markers of interneurons in schizophrenia

Sivagnanasundaram, S., Fung, S.J., and Shannon Weickert, C. (Australia)

POS-THU-288 13:30 - 14:30

Learning and memory in rats with serotonin depletion of the dorsal and ventral hippocampus

Adams, W.K. and van den Buuse M. (Australia)

POS-WED-289 13:00 - 14:00

Increased BDNF expression in the hippocampus of 5-HT_{2C} receptor knockout mice

Hill, R.A., Martin, S. and van den Buuse, M. (Australia)

POS-THU-290 13:30 - 14:30

Prepulse inhibition of startle in brain-derived neurotrophic factor (BDNF) heterozygous mice

Choy, K.H.C., Hill, R.A., Martin, S. and van den Buuse, M. (Australia)

POS-WED-291 13:00 - 14:00

Combined targeting of mGlu5, A2A and CB1 receptors to regulate alcohol self-administration and cue-conditional alcohol seeking in rats

Adams, C.L., Cowen, M.S., Short, J.L. and Lawrence, A.J. (Australia)

POS-THU-292 13:30 - 14:30

Characterization of mice with a targeted deletion of CREB in striatal medium spiny neurons

Madsen, H.B. and Lawrence, A.J. (Australia)

POS-WED-293 13:00 - 14:00

Secondary death of retinal ganglion cells, and the effects of a calcium channel blocker, lomerizine

Payne, S.C., Bartlett, C., Evill, L., Harvey, A.R., Dunlop, S. and Fitzgerald, M. (Australia)

POS-THU-294 13:30 - 14:30

Localisation of the low affinity catecholamine binding site in tyrosine hydroxylase

Briggs, G.D., Gordon, S.L., Dunkley, P.R. and Dickson, P.W. (Australia)

POS-WED-295 13:00 - 14:00

The low affinity dopamine binding site regulates tyrosine hydroxylase activity *in situ*: implications for the regulation of cytosolic catecholamine levels

Gordon, S.L., Dunkley, P.R. and Dickson, P.W. (Australia)

POS-THU-296 13:30 - 14:30

Advanced paternal age is associated with enlargement of the rostral cortex and increased anxiety-related behaviour in C57Bl/6J mice

Foldi, C.J., McGrath, J.J., Eyles, D.W. and Burne, T.H.J. (Australia)

POS-WED-297 13:00 - 14:00

Investigation into the interaction between tissue-type plasminogen activator and dead neuronal cells

Borg, R.J., Samson, A.L., Niego, B., Yongqing, T., Wong, C.H.Y., Crack, P.J. and Medcalf, R.L. (Australia)

POS-THU-298 13:30 - 14:30

Phenotyping neuronal injury: insult-dependent crosstalk between caspase-dependent/-independent cell death pathways

Mercer, L.D., Diwakarla, S., Chen, B., Kardashyan, L., Chu, P., Shin, Y.S., Lau, C.L., Lim, M., Nagley, P. and Beart, P.M. (Australia)

POS-WED-299 13:00 - 14:00

Programmed cell death in cerebellar granule cells induced by inhibition of mitochondrial respiratory chain complexes

Shin, Y.S., Chu, P.W.Y., Nagley, P. and Beart, P.M. (Australia)

POS-THU-300 13:30 - 14:30

Simvastatin decreases glutathione content in astrocytes: implications for treatment of neurodegenerative diseases

Cane, J.B., Lawen, A., Bishop, G.M. and Robinson, S.R. (Australia)

POS-WED-301 13:00 - 14:00

The hSOD-1^{G93A} mutation increases apoptotic cell death in NSC34 cells after depletion of mitochondrial glutathione

Hutson, P., Rogers, M.-L., Matusica, D., Rush, R.A. and **Muyderman, H.** (Australia)

POS-THU-302 13:30 - 14:30

A novel mitochondrial DNA (mtDNA) mutation attenuates transcription termination in a patient with a mitochondrial myopathy

Raghupathi, R., Chataway, T., Michael, M., Slee, M., Krupa, M. and Thyagarajan, D. (Australia)

POS-WED-303 13:00 - 14:00

Physical exercise in aged mice restores endogenous neural stem cells to youthful levels, augmenting the regenerative response of the brain

Blackmore, D.G., Large, B., Waters, M.J., Kerr, L. and Rietze, R.L. (Australia)

TECHNIQUES IN NEUROSCIENCE

Posters 304 – 319

POS-THU-304 13:30 - 14:30

Diffusion weighted imaging as a marker for axonal pathology in the inducible autoimmune model of EAE
Kemper, D., Liu, Y.O., Egan, G., Kilpatrick, T. and Butzkueven, H. (Australia)

POS-WED-305 13:00 - 14:00

MRI-based digital atlases of the mouse cerebellum and hippocampus
Buckley, R.F., Beare, R., Kurniawan, N., Keller, M., Richards, K., Watson, C., Bartlett, P., Egan, G., Galloway, G., Paxinos, G., Petrou, S. and Reutens, D. (Australia)

POS-THU-306 13:30 - 14:30

EdU, a new thymidine analogue for labelling proliferating cells in the nervous system
Chehrehasa, F., Meedeniya, A., Dwyer, P., Abrahamsen, G. and Mackay-Sim, A. (Australia)

POS-WED-307 13:00 - 14:00

An experimental model to investigate CT brain perfusion after stroke
McLeod, D., Parsons, M., Levi, C., Beutement, S., Roworth, B., Buxton, D., Abel, C., Calford, M. and Spratt, N. (Australia)

POS-THU-308 13:30 - 14:30

Tropism and transduction properties of seven adeno-associated viral vectors in adult rat retina after intravitreal injection
Hellstrom, M., Pollett, M.A., Ruitenber, M.J., Ehlert, E.M.E., Twisk, J., Verhaagen, J. and Harvey, A.R. (Australia and The Netherlands)

POS-WED-309 13:00 - 14:00

Assessment of residual function and morphology after spinal cord contusion injury in rats: behavioural and histological evidence
Callaway, J.K., Habgood, M., Ek, C.J., Johansson, P.A., Dziegielewska, K. and Saunders, N.R. (Australia)

POS-THU-310 13:30 - 14:30

Modelling hypothermia and compressive spinal cord injury

Kerr, N.F., Gatt, A.M., Ghasem-Zadeh, A., Wills, T.E.,
Cox, S.F., Howells, D.W. and Batchelor, P.E. (Australia)

POS-WED-311 13:00 - 14:00

Differential transgene expression following viral
transduction in the rostral ventrolateral medulla

Bassi, J.K., Wimmer, V.C., Petrou, S., Thomas, W.G. and
Allen, A.M. (Australia)

POS-THU-312 13:30 - 14:30

Development of a novel ivermectin-gated chloride channel
receptor for neuronal silencing

Lynagh, T.P. and Lynch, J.W. (Australia)

POS-WED-313 13:00 - 14:00

Automated subcellular co-localization in HCA-Vision

Wang, D., Bischof, L., Vallotton, P., Zhao, P. and James, D.
(Australia)

POS-THU-314 13:30 - 14:30

A protocol for cryoembedding the adult guinea pig cochlea
for immunohistology

Coleman, B., Rickard, N.A., de Silva, M.G. and Shepherd,
R.K. (Australia)

POS-WED-315 13:00 - 14:00

Post-mortem interval effects on rat brain using SELDI-TOF-
MS proteomics

Machaalani, R., Gozal, E., Berger, F., Waters, K.A. and
Dematteis, M. (Australia, France and USA)

POS-THU-316 13:30 - 14:30

Immunoperoxidase detection of nerves in full-thickness
whole mount preparations of hollow organs

Llewellyn-Smith, I.J. and David, G.J.E. (Australia)

POS-WED-317 13:00 - 14:00

Quantitative assessment of misfolded huntingtin
conformations in live cell models of disease

Mohamed Ramdzan, Y., Low, H.M., Nisbet, R., Toulmin,
E., Hill, A.F. and **Hatters, D.M.** (Australia)

POS-THU-318 13:30 - 14:30

Defining oligodendrocyte survival factors in primary murine cells

Butzkueven, H., Doherty, W., Binder, M. and Kilpatrick, T.J. (Australia)

POS-WED-319 13:00 - 14:00

Mannose receptor-mediated gene delivery to astrocytes

Homkajorn, B., Malmevik, J., Rogers, M.L., Rush, R.A., Sims, N.R. and Muyderman, H. (Australia)

NEUROETHOLOGY

Posters 320 – 329

POS-THU-320 13:30 - 14:30

Impulsive choices in domestic chicks: effects of competitive foraging and SSRI (fluvoxamine)

Amita, H. and Matsushima, T. (Japan)

POS-WED-321 13:00 - 14:00

Analysis of the neural processings of the thermo- and hygrosensory signal in the insect brain

Watanabe, H., Nishino, H., Nishikawa, M. and Yokohari, F. (Japan)

POS-THU-322 13:30 - 14:30

Hypobaric hypoxia induced CA1 damage and memory impairment: possible therapeutic strategies

Barhwal, K., Hota, S., Baitharu, I., Jain, V., Prasad, D., Ilavazhagan, G. and Singh, S. (India)

POS-WED-323 13:00 - 14:00

The different cognitive responses to Guqin music and piano music of young Chinese: an event-related potential (ERP) study

Zhu, W.N., Zhang, J.J., Ding, X.J., Ma, Y.Y. and Zhou, C.L. (China)

POS-THU-324 13:30 - 14:30

The effects of total light deprivation on posterior parietal cortex in rat neonates

Abdolrahmani, M. and Jameie, S.B. (Iran)

POS-WED-325 13:00 - 14:00

Disc autotomy of the ophiuroids

Charlina, N.A., Dolmatov, I.Y.U. and Wilkie, I.C. (Russia and United Kingdom)

POS-THU-326 13:30 - 14:30

Response of termite antennae to entomopathogenic fungal odour

Yanagawa, A., Yokohari, F., Iiyama, K., Yasunaga-Aoki, C. and Shimizu, S. (Japan)

POS-WED-327 13:00 - 14:00

A novel p 75NTR mediated mechanism pertaining to glutamate induced neurodegeneration in hypobaric hypoxia

Hota, S.K., Barhwal, K., Baitharu, I., Jain, V., Prasad, D., Singh, S.B. and Ilavazhagan, G. (India)

POS-THU-328 13:30 - 14:30

The centering response in flying budgerigars (*Melopsittacus undulatus*)

Bhagavatula, P., Claudianos, C. and Srinivasan, M. (Australia)

POS-WED-329 13:00 - 14:00

Moving in the dark: vision and navigation in the bull dog ant *Myrmecia pyriformis*

Reid, S.F., Narendra, A., Greiner, B. and Zeil, J. (Australia and Germany)

LATE POSTERS (Not Themed)

Posters 330 – 343

POS-THU-330 13:30 - 14:30

The effect of social stress on tyrosine hydroxylase phosphorylation

Bobrovskaya, L., Ong, L., Walker, R., Day, T., Dickson, P. and Dunkley, P. (Australia)

POS-WED-331 13:00 - 14:00

Competitive inhibition of GABAA receptor gamma2 IL2 binding reduces single channel conductance

Everitt, A.B., Curmi, J. and Tierney, M.L. (Australia)

POS-THU-332 13:30 - 14:30

The neurotrophin BDNF differentially affects survival and outgrowth of mouse type I vs type II spiral ganglion neurons
Barclay, M., Ryan, A.F. and **Housley, G.D.** (Australia, New Zealand and USA)

POS-WED-333 13:00 - 14:00

Increased GluA1 and GluN1 levels in the dentate gyrus middle molecular layer 48 hours after long-term potentiation at perforant path synapses in vivo
Kennard, J.T.T., Mason-Parker, S.E., Abraham, W.C. and Williams, J.M. (New Zealand)

POS-THU-334 13:30 - 14:30

Receptor-associated protein (RAP) binds to β -amyloid ($A\beta$) modulates its aggregation, cell binding, and neurotoxicity
Kerr, M.L., Gasperini, R., Gibbs, M.E., Hou, X., Strickland, D.K., Lawen, A. and Small, D.H. (Australia and USA)

POS-WED-335 13:00 - 14:00

O6-methylguanine-DNA methyltransferase(MGMT) in human gliomas
Kim, H.J., Choi, H.J. and Ahn, J.Y. (Republic of Korea)

POS-THU-336 13:30 - 14:30

NPAS4 has a role in GABAergic neurogenesis
Lewis, M.D., Klaric, T.S., Bindloss, C.P., Lardelli, M.T. and Koblar, S.A. (Australia)

POS-WED-337 13:00 - 14:00

The effect of abdominal muscle training on cough after spinal cord injury
McBain, R.A., Boswell-Ruys, C.L., Lee, B.B., Gandevia, S.C. and Butler, J.E. (Australia)

POS-THU-338 13:30 - 14:30

Shape discrimination in reef fish
Siebeck, U.E., Wallis, G. and Litherland, L. (Australia)

POS-WED-339 13:00 - 14:00

Effect of antioxidants in pacemaking of mice locus coeruleus neurons
de Oliveira, R.B., Howlett, M., Gravina, F.S., Imtiaz, M.S., Callister, R.J., Brichta, A.M. and **Van Helden, D.F.** (Australia)

POSTERS – WEDNESDAY & THURSDAY

POS-WED-340 13:30 – 14:30

Ganglion cell topography and retinal resolution of the sleepy lizard (Scincidae: *Tiliqua rugosa*)

New, S.T.D. and Bull, C.M. (Australia)

POS-WED-341 13:00 – 14:00

Chromatic and luminance contrast in visually guided reaching

Kane, A.J. and Ma-Wyatt, A. (Australia)

POS-THU-342 13:30 – 14:30

Multimodal signaling in fowl, *Gallus gallus*

Smith, C.L. and Evans, C.S. (Australia)

POS-WED-343 13:00 – 14:00

Neonatal lipopolysaccharide exposure produces long-term alterations to neuroimmune and neuroendocrine functioning in the rodent

Walker, A.K., James, M.H., Nakamura, T., Hunter, M. and **Hodgson, D.M.** (Australia)

