

PUBLICATIONS

- P.G. Morris, M. Mishina, S. Jones (2018). Altered synaptic and extrasynaptic NMDA receptor properties in substantia nigra dopaminergic neurons from mice lacking the GluN2D subunit, *Frontiers in Cellular Neuroscience*, Vol 12: Article 354
- J. Zhao, M. Baudry, S. Jones (2018). Calpain inhibition reduces NMDA receptor rundown in rat substantia nigra dopamine neurons, *Neuropharmacology*, 137:221-229
- A.R. Wild, M. Bolland, P.G. Morris, S. Jones, (2015). Mechanisms regulating spill-over of synaptic glutamate to extrasynaptic NMDA receptors in mouse substantia nigra dopaminergic neurons, *European Journal of Neuroscience*, 42:2633-2643
- A.R. Wild, S. Jones and A.J. Gibb (2014). Activity dependent regulation of NMDA receptors in substantia nigra dopaminergic neurones. *J Physiology* 592.4:653–668
- A.R. Wild, E. Akyol, S.L.C. Brothwell, P. Kimkool, J.N. Skepper, A.J. Gibb and S. Jones (2013). Memantine block depends on agonist presentation at the NMDA receptor in substantia nigra pars compacta dopamine neurones. *Neuropharmacology* 73:138-146
- W. Xu, S. Jones and S.A. Edgley (2013). Event time representation in cerebellar mossy fibres arising from the lateral reticular nucleus. *J Physiology* 591:1045-1062
- F. Suarez, Q. Zhao, D.T. Monaghan, D.E. Jane, S. Jones, A.J. Gibb (2010). Functional heterogeneity of NMDA receptors in rat substantia nigra pars compacta and reticulata neurones. *Eur J Neuroscience* 32:359-367.
- D. Glynn, H.E. Gibson, M.K. Harte, K. Reim, S. Jones, G.P. Reynolds and A.J. Morton (2010). Clorgyline-mediated reversal of neurological deficits in a Complexin 2 knockout mouse. *Human Molecular Genetics* 19:3402-3412.
- OV Poisik, J Shen, S Jones & JL Yakel (2008). Functional $\alpha 7$ -containing Nicotinic Acetylcholine Receptors Localize to Cell Bodies and Proximal Dendrites in the Rat Substantia Nigra pars Reticulata. *J. Physiology* 586:1365-1378.
- SLC Brothwell, JL Barber, DT Monaghan, DE Jane, AJ Gibb & S Jones (2008). NR2B- and NR2D-containing synaptic NMDA receptors in developing rat substantia nigra *pars compacta* dopaminergic neurones. *J. Physiology* 586:739-750.
- V.W.S. Kung, R. Hassam, A.J. Morton and S. Jones (2007). Dopamine-dependent long term potentiation in the dorsal striatum is reduced in the R6/2 mouse model of Huntington's disease. *Neuroscience* 146, 1571-1580.
- Gibson, H.E., Reim, K., Brose N., Morton, A.J. and Jones, S (2005). A similar impairment in CA3 mossy fibre LTP in the R6/2 mouse model of Huntington's disease and in the complexin II knockout mouse. *Eur. J. Neuroscience* 22, 1701-1712.
- S Jones & AJ Gibb (2005). Functional NR2B- and NR2D-containing NMDA receptor channels in rat substantia nigra dopaminergic neurons. *J. Physiology* 569:209-221
- L Faleiro, S Jones & JA Kauer (2004). Rapid synaptic plasticity of glutamatergic synapses on dopamine neurons in the ventral tegmental area in response to acute amphetamine injection. *Neuropsychopharmacology* 29:2115-2125.
- Jones, S. and Yakel, J.L. (2003). Casein kinase II (protein kinase CK2) regulates serotonin 5-HT₃ receptor channel function in NG108-15 cells. *Neuroscience* 119, 629-634.

Jones, S., Kornblum, J. L. and Kauer, J. A. (2000). Amphetamine blocks long term synaptic depression in the ventral tegmental area. *J. Neuroscience*, 20 5575-5580.

Jones, S. and Kauer, J. A. (1999). Amphetamine depresses excitatory synaptic transmission via serotonin receptors in the ventral tegmental area. *J. Neuroscience* 19, 9780-9787.

Jones, S. and Yakel, J. L. (1998). Ca^{2+} influx through voltage-gated Ca^{2+} channels regulates 5-HT₃ receptor channel desensitization in rat glioma x mouse neuroblastoma hybrid NG108-15 cells. *J. Physiol.* 510, 361-370.

Jones, S. and Yakel, J.L. (1997). Functional nicotinic ACh receptors on interneurons in the rat hippocampus. *J. Physiol.* 504, 603-610.

Jones, S., Brown, D. A., Milligan, G., Willer, E., Buckley, N. J. and Caulfield, M. P. (1995). Bradykinin excites rat sympathetic neurons by inhibition of M current through a mechanism involving B2 receptors and $G\alpha_q/11$. *Neuron* 14, 399-405.

Caulfield, M. P., Jones, S., Vallis, Y., Buckley, N. J., Kim, G. D., Milligan, G. and Brown, D. A. (1994). Muscarinic M-current inhibition via $G\alpha_q/11$ and α -adrenoceptor inhibition of Ca^{2+} current via $G\alpha_o$ in rat sympathetic neurones. *J. Physiol.* 477 415-422.

Cloues, R., Jones, S. and Brown, D. A. (1992). Zn^{2+} potentiates ATP-activated currents in rat sympathetic neurons. *Pfluegers Arch.* 424 152-158.

S Jones, J Robbins and DA Brown (1992). Neurotransmitter modulation of calcium channels is dependent on the charge carrier used in the recording of currents. *Neurosci. Letts.* 145, 153-156.

REVIEWS

S Jones & A Bonci (2005). Synaptic plasticity and drug addiction. *Curr Op Pharmacol* 5:20-25.

Jones, S. and Gutlerner, J.L. (2002). Addictive drugs modify excitatory synaptic control of midbrain dopamine cells. *Neuroreport*, 13, A29-A33.

Jones, S. and Yakel, J. L. (2000). Inhibitory interneurons: sites for regulation of information flow in the hippocampus by neurotransmitters. *Cell Biochem. Biophys.* 31 (2), 207-218.

Jones, S., Sudweeks, S. and Yakel, J. L. (1999). Nicotinic receptors in the brain: correlating physiology with function. *Trends in Neurosciences* 22, 555-561.

BOOKS AND BOOK CHAPTERS

A. J. Gibb and S. Jones. Triheteromeric GluN1/GluN2B/GluN2D NMDA receptors of rat substantia nigra dopaminergic neurons. International Conference the 1st "Beritashvili Talks", Neurophysiological Functions and their Disorders – Interdisciplinary Studies, Compilation of reports, Volume 1, 2018.

Dopamine-glutamate interactions in the basal ganglia. Ed: S Jones 2011. *Frontiers in Neuroscience series*, Taylor & Francis / CRC Press.

S Jones, SLC Brothwell, I Huang-Doran and J Hallett. Ionotropic glutamate receptors in the basal ganglia. In: Dopamine-glutamate interactions in the basal ganglia. Ed: S Jones 2011. *Frontiers in Neuroscience series*, Taylor & Francis / CRC Press.

HE Gibson and S Jones. Memory and long-term depression. In: *Encyclopedia of Psychopharmacology* Ed: I.P. Stolerman 2010, Springer.

A Bonci and S Jones The mesocortical dopamine system. In: The Human Frontal Lobes. Eds: B. Miller & J.L. Cummings 2007, Guilford Publications.

SA Simon and S Jones Nicotinic receptors in the periphery. In: Nicotine Receptors in the Nervous System. Ed: E. D. Levin. 2002, Methods in Neuroscience series, CRC Press.

S Jones and JL Yakel Functional study of glutamate receptor channels in brain slices. In: Methods in Molecular Medicine: Neurodegeneration Methods and Protocols. Eds: J. Harry and H. A. Tilson. 1999, Humana Press, Totowa, NJ.

DA Brown, NJ Buckley, MP Caulfield, SM Duffy, S Jones, JA Lamas, SJ Marsh, J Robbins and AA Selyanko. Coupling of muscarinic acetylcholine receptors to neural ion channels: closure of K⁺ channels. In: Molecular mechanisms of muscarinic acetylcholine receptor function. Ed: J. Wess. 1995, Springer-Verlag, Heidelberg, Germany.