Endocannabinoids in nervous system health and disease

Papers of a Theme Issue compiled and edited by Stephen D. Skaper and Vincenzo Di Marzo

Contents

Introduction
Endocannabinoids in nervous system health and disease: the big picture in a nutshell
S. D. Skaper and V. Di Marzo

Articles
The evolution and comparative neurobiology of endocannabinoid signalling
M. R. Elphick

Why do cannabinoid receptors have more than one endogenous ligand?
V. Di Marzo and L. De Petrocellis

Endocannabinoids via CB1 receptors act as neurogenic niche cues during cortical development
J. Díaz-Alonso, M. Guzmán and I. Galve-Roperh

Functional diversity on synaptic plasticity mediated by endocannabinoids
R. Cachope

Cellular and intracellular mechanisms involved in the cognitive impairment of cannabinoids
E. Puighermanal, A. Busquets-Garcia, R. Maldonado and A. Ozaita

The diacylglycerol lipases: structure, regulation and roles in and beyond endocannabinoid signalling
M. Reisenberg, P. K. Singh, G. Williams and P. Doherty

Hub and switches: endocannabinoid signalling in midbrain dopamine neurons
M. Melis and M. Pistis

Modulation of neuropathic-pain-related behaviour by the spinal endocannabinoid/endovanilloid system
K. Starowicz and B. Przewlocka

Dynamic changes to the endocannabinoid system in models of chronic pain
D. R. Sagar, J. J. Burston, S. G. Woodhams and V. Chapman

Mast cell–glia axis in neuroinflammation and therapeutic potential of the anandamide congener palmitoylethanolamide
S. D. Skaper and L. Facci

The endocannabinoid system in normal and pathological brain ageing
A. Bilkei-Gorzo

Endocannabinoids in neuroendopsychology: multiphasic control of mitochondrial function
A. Nunn, G. Guy and J. D. Bell
Targeting the endocannabinoid system with cannabinoid receptor agonists: pharmacological strategies and therapeutic possibilities
R. G. Pertwee

Multiple mechanisms involved in the large-spectrum therapeutic potential of cannabidiol in psychiatric disorders
A. C. Campos, F. A. Moreira, F. V. Gomes, E. A. Del Bel and F. S. Guimarães