Glial modulation by N-acylethanolamides in brain injury and neurodegeneration	
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Neuroinflammation involves the activation of glial cells and represents a key element in normal	
aging and pathophysiology of brain damage. N-acylethanolamides (NAEs), naturally occurring	
amides, are known for their pro-homeostatic effects. An increase in NAEs has been reported in vivo	
and in vitro in the aging brain and in brain injury. Treatment with NAEs may promote neuroprotection	
and exert anti-inflammatory actions via PPAR? activation and/or by counteracting gliosis. This	
review aims to provide an overview of endogenous and exogenous properties of NAEs in	
neuroinflammation and to discuss their interaction with glial cells. © 2016 Herrera, Kölliker-Frers,	
Barreto, Blanco and Capani.	
Gliosis	
N-acylethanolamides	
Neuroinflammation	
Neuroprotection	
PPAR?	
amide	
anandamide	
n acylethanolamide derivative	
n oleoylethanolamine	
palmidrol	
peroxisome proliferator activated receptor	
unclassified drug	

aging
Alzheimer disease
antiinflammatory activity
astrocyte
astrocytosis
brain injury
brain ischemia
cell activation
cell interaction
cerebrovascular accident
degenerative disease
drug efficacy
drug structure
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glia cell
gliosis
gliosis
gliosis
gliosis human learning disorder
gliosis human learning disorder memory disorder
gliosis human learning disorder memory disorder microglia
gliosis human learning disorder memory disorder microglia nerve degeneration
gliosis human learning disorder memory disorder microglia nerve degeneration nervous system inflammation
gliosis human learning disorder memory disorder microglia nerve degeneration nervous system inflammation neuromodulation
gliosis human learning disorder memory disorder microglia nerve degeneration nervous system inflammation neuromodulation neuroprotection
gliosis human learning disorder memory disorder microglia nerve degeneration nervous system inflammation neuromodulation neuroprotection nonhuman

perinatal asphyxia

peripheral neuropathy

pleiotropy

receptor upregulation

Short Survey

signal transduction

spinal cord injury

traumatic brain injury