



Magnetic resonance imaging of the neuroprotective effect of xaliproden in rats

Submitted by Laurent Lemaire on Mon, 12/01/2014 - 16:06

Titre	Magnetic resonance imaging of the neuroprotective effect of xaliproden in rats
Type de publication	Article de revue
Auteur	Lemaire, Laurent [1], Fournier, Jacqueline [2], Ponthus, Christian [3], Le Fur, Yann [4], Confort-Gouny, Sylvaine [5], Vion-Dury, Jean [6], Keane, Peter [7], Cozzone, Patrick J [8]
Editeur	Lippincott, Williams & Wilkins
Type	Article scientifique dans une revue à comité de lecture
Année	2002
Langue	Anglais
Date	2002
Pagination	321-7
Volume	37
Section	6
Titre de la revue	Investigative Radiology
ISSN	0020-9996
Mots-clés	Alzheimer Disease [9], Animals [10], Brain [11], Choline O-Acetyltransferase [12], Disease Models, Animal [13], Enzyme Inhibitors [14], Magnetic Resonance Imaging [15], Male [16], Naphthalenes [17], Neuroprotective Agents [18], Pyridines [19], Rats [20], Rats, Sprague-Dawley [21], Time Factors [22], vincristine [23]
Résumé en anglais	<p>RATIONALE AND OBJECTIVES: The neurotrophic effect of Xaliproden has been followed using sequential cerebral magnetic resonance imaging (MRI) in rats with vincristine-induced brain lesion as a model of Alzheimer disease.</p> <p>METHODS: Nineteen rats received an intraseptal injection of vincristine on day 0, followed by a daily gavage with either the vehicle (Tween-20 1%) (n = 10) or Xaliproden (10 mg/kg) (n = 9). Eight sham-operated controls received a daily gavage with either the vehicle (n = 4) or Xaliproden (n = 4). Brain MR imaging was performed at 4.7 T on a Biospec 47/30 MR system before surgery then 3, 7, 10, and 14 days after surgery.</p> <p>RESULTS: At day 3 following vincristine injection, an increase in MR signal intensity in the septum was observed on T2-weighted images. This increase was maximal at day 10, and remained stable until day 14. Daily treatment with Xaliproden delayed the appearance of hypersignals until day 7 and reduced by Ca. 50% the magnitude of the increase in signal intensity from day 10. No changes were observed in the hippocampus.</p> <p>CONCLUSION: Quantitative MRI objectifies noninvasively the neuroprotective effect of Xaliproden on rat brain anatomy.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua5695 [24]
Autre titre	Invest Radiol
Identifiant (ID) PubMed	12021588 [25]

Liens

- [1] <http://okina.univ-angers.fr/l.lemaire/publications>
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=9562](http://okina.univ-angers.fr/publications?f[author]=9562)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=9563](http://okina.univ-angers.fr/publications?f[author]=9563)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=9564](http://okina.univ-angers.fr/publications?f[author]=9564)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=9565](http://okina.univ-angers.fr/publications?f[author]=9565)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=9566](http://okina.univ-angers.fr/publications?f[author]=9566)
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=9567](http://okina.univ-angers.fr/publications?f[author]=9567)
- [8] [http://okina.univ-angers.fr/publications?f\[author\]=7172](http://okina.univ-angers.fr/publications?f[author]=7172)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=10285](http://okina.univ-angers.fr/publications?f[keyword]=10285)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=964](http://okina.univ-angers.fr/publications?f[keyword]=964)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=1866](http://okina.univ-angers.fr/publications?f[keyword]=1866)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=10286](http://okina.univ-angers.fr/publications?f[keyword]=10286)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=1100](http://okina.univ-angers.fr/publications?f[keyword]=1100)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=10287](http://okina.univ-angers.fr/publications?f[keyword]=10287)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=6040](http://okina.univ-angers.fr/publications?f[keyword]=6040)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=968](http://okina.univ-angers.fr/publications?f[keyword]=968)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=10288](http://okina.univ-angers.fr/publications?f[keyword]=10288)
- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=10289](http://okina.univ-angers.fr/publications?f[keyword]=10289)
- [19] [http://okina.univ-angers.fr/publications?f\[keyword\]=6403](http://okina.univ-angers.fr/publications?f[keyword]=6403)
- [20] [http://okina.univ-angers.fr/publications?f\[keyword\]=975](http://okina.univ-angers.fr/publications?f[keyword]=975)
- [21] [http://okina.univ-angers.fr/publications?f\[keyword\]=1300](http://okina.univ-angers.fr/publications?f[keyword]=1300)
- [22] [http://okina.univ-angers.fr/publications?f\[keyword\]=6070](http://okina.univ-angers.fr/publications?f[keyword]=6070)
- [23] [http://okina.univ-angers.fr/publications?f\[keyword\]=7888](http://okina.univ-angers.fr/publications?f[keyword]=7888)
- [24] <http://okina.univ-angers.fr/publications/ua5695>
- [25] <http://www.ncbi.nlm.nih.gov/pubmed/12021588?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)