كلية الطب Faculty of Medicine

جامعة الملك عبدالعزيز King Abdulaziz University





> MainPage	Research Details :
> About Us	Research Title : <u>Neurofascin as a novel target for autoantibody-mediated axonal</u>
> News	injury
> PhotoAlbum	<u>Neurofascin as a novel target for autoantibody-mediated axonal</u> injury
> E-Learning	Description : Axonal injury is considered the major cause of disability in
> Services	patients with multiple sclerosis (MS), but the underlying effector mechanisms are poorly understood. Starting with a proteomics
Staff web sites	based approach we identified neurofascin (NF)-specific
Conferences	autoantibodies in patients with MS. These autoantibodies recognize the native form of the extracellular domains of both
Student	NF186, a neuronal protein concentrated in myelinated fibers at
Researches	nodes of Ranvier, and NF155, the oligodendrocyte-specific isoform of neurofascin. Our in vitro studies with hippocampal slice cultures
> Courses	indicate that neurofascin antibodies inhibit axonal conduction in a complement dependent way. To evaluate whether circulating anti-
> Files	neurofascin antibodies mediate a pathogenic effect in vivo we co-
> Favorite Links	transferred these antibodies with myelin oligodendrocyte glycoprotein-specific encephalitogenic T cells to mimic the
> Awards	inflammatory pathology of MS and breach the blood-brain barrier.
Visits Of this Page:18 🖸 SHARE 📲 😭 🎕)	In this animal model antibodies to neurofascin selectively targeted nodes of Ranvier, resulting in deposition of complement, axonal injury and disease exacerbation. Together, these results identify a novel mechanism of immune mediated axonal injury that can contribute to axonal pathology in MS
	Research Type : Article
	Added Date : Sunday, March 30, 2008
	<u>Researchers :</u>
	Researcher Name (Arabic) Researcher Name (English) Researcher Type Degree Email أستاذ مشارك Researcher د/ عبدالمنعم بن عبدالسلام الحياني
	<u>Attatchments :</u>
	File NameTypeDescriptionNeurofascin.pdfpdfمشاهدة المقالة العلمية كاملة

Deanship of Information Technology - King Abdulaziz University. All rights reserved