

interactions between epilepsy and plasticity - mdpi - dynamic steady state of the organism and even injuries or illnesses (e.g., epilepsy) may induce neuroplasticity. epilepsy and neuroplasticity seem to be closely related, as the two processes could **014 the impact of epilepsy on cognitive function** - verbal and visual-spatial memory and functional plasticity in healthy subjects and epilepsy patients with temporal lobe epi- lepsy across the ages with special consideration of developmen- **dendritic structural plasticity and neuropsychiatric disease** - in epilepsy is thought to be caused by the onset of seizures 45 and is depicted as a sharp decline in spine density (however, a primary defect in spine density before **ampa receptors as a molecular target in epilepsy therapy** - review article ampa receptors as a molecular target in epilepsy therapy rogawski ma. ampa receptors as a molecular target in epilepsy therapy. acta neurol scand 2013: 127 (suppl. 197): 9-18. **symposium Brain plasticity in epilepsy**, leuven, belgium ...- abstracts symposium brain plasticity in epilepsy™, leuven, belgium, 13-16 may 2017 belgian neurological society 2017 brain anatomy relevant to epilepsy: dissection studies **molecular mechanisms of neuroplasticity: an expanding universe** - molecular mechanisms of neuroplasticity , one of the most cosmic and the same time vague concepts of contempo-rary neurobiology. the term plasticity, first applied to the brain in 1890 by william james [1] and then used as neural plasticity in 1948 by jerzy konorski [2], has become a kind of umbrella term covering changes to the brain structure and function throughout the life ... **scientific commentaries on the modelling of seizure dynamics** - brain a journal of neurology scientific commentaries on the modelling of seizure dynamics this scientific commentary refers to on the nature of seizure **episodic memory in temporal lobe epilepsy** - episodic memory in temporal lobe epilepsy meneka kaur sidhu mbchb mrcc department of clinical and experimental epilepsy, institute of neurology, university college london epilepsy society, chalfont st. peter thesis submitted to university college london for the degree of doctor of philosophy, 2015 . 2 personal declaration i, meneka kaur sidhu, confirm that the work presented in this thesis is ... **increased expression of rac1 in epilepsy patients and ...** - teins play important roles in these dynamic changes during epileptogenesis. rac1 (ras-related c3 botulinum toxin substrate 1) is a small guanosine triphosphatase (gtpase) belonging to the rho family of small gtpases and plays an important role in neuronal synaptic plasticity, cytoskeletal rearrangement, intercellular adhesion and gene expression [5-8]. rho family proteins act as molecular ... **matrix metalloproteinase-9 involvement in the structural ...** - the influence of mmp-9 on the dynamic remodeling of the ecm via the cleavage of extracellular substrates. we discuss its role in the formation, modification, and maintenance of dendritic spines in learning and memory. finally, we review research that implicates mmp-9 in aberrant synaptic plasticity and spine dysmorphology in neurological disorders, with a focus on morphological abnormalities ... **bidirectional homeostatic plasticity induced by ...** - bidirectional homeostatic plasticity induced by interneuron cell death and transplantation in vivo mackenzie allen howarda, john l. r. rubensteinb, and scott c. barabana,1 **recent advances in the neurochemistry of epilepsy** - more dynamic properties than simply acting as inert scaffolds for other ... recent advances in the neurochemistry of epilepsy plasticity. tovar and westbrook 8 demonstrated that nmda receptors move laterally between synaptic and extrasynaptic pools, providing an alternative mechanism for altering the synaptic strength over the course of minutes. these data suggest a sequence of events that may ... **cognitive plasticity in neurologic disorders - pdf book** - a particularly interesting feature of this book is its examination of neurobehavioral plasticity from a number of different perspectives: specific neurologic diseases (e.g., stroke, epilepsy), particular neurobehavioral conditions (e.g., aphasia, amnesia), and emerging technologies. the chapter authors focus on the dynamic changes that occur over time in each condition or with specific ... **review article exploring cortical plasticity and ...** - 1 3 51 wwwmmsusmmy 1 5 introduction plasticity is defined as the ability of the brain to reorganise itself in order to primarily improve the functioning of the brain ... **dendritic plasticity of ca1 pyramidal**

neurons after ... - and epilepsy. long-term dendritic plasticity has also been long-term dendritic plasticity has also been reported after ischemia/hypoxia, which might be compensa-

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