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LGI proteins in the nervous system - PMC - National Center for .

LGI proteins in the nervous system

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Cite this article as: Kegel L, Aunin E, Mejer D and Bermingham, Jr JR (2013) LGI proteins in the nervous system. ASN NEURO 1(23) art00115 doi:10.1042/ASN20120095

ABSTRACT

The development and function of the vertebrate nervous system depend on specific interactions between different cell types. Two examples of such interactions are synaptic transmission and myelination. LGI1–4 (leucine-rich glioma inactivated proteins) play important roles in these processes. They are secreted proteins consisting of an IRR (leucine-rich repeat) domain and a so-called epilepsy-associated or EPTP (epitempin) domain. Both domains are thought to function in protein–protein interactions. The first LGI gene to be identified, *LGI1*, was found at a chromosomal translocation breakpoint in a glioma cell line. It was subsequently found mutated in ADLIE (autosomal dominant lateral temporal [lobe] epilepsy) also referred to as ADPEAF (autosomal dominant partial epilepsy with auditory features). LGI1 protein appears to act at synapses and antibodies against LGI1 may cause the autoimmune disorder limbic encephalitis. A similar function in synaptic remodelling has been suggested for LGI2, which is mutated in canine Benign Familial Juvenile Epilepsy. LGI4 is required for proliferation of glia in the peripheral nervous system and binds to a neuronal receptor, ADAM22, to foster ensheathment and myelination of axons by Schwann cells. Thus, LGI proteins play crucial roles in nervous system development and function and their study is highly important, both to understand their biological functions and for their therapeutic potential. Here, we review our current knowledge about this important family of proteins, and the progress made towards understanding their functions.

Key words: autosomal dominant lateral temporal [lobe] epilepsy (ADLIE), autosomal dominant partial epilepsy with auditory features (ADPEAF), epitempin, leucine-rich glioma-inactivated protein, leucine-rich repeat (IRR), PNS development, synapse.

CELL–CELL INTERACTIONS IN NERVOUS SYSTEM DEVELOPMENT

Synapse formation and maturation require multiple interactions between presynaptic and postsynaptic neurons that are mediated by a diverse set of synaptic proteins [Han and Kim, 2008; McMahon and Diaz, 2011; Siddiqui and Craig, 2011]. Initial synapse formation needs both the binding of secreted proteins to presynaptic and postsynaptic receptors, and the direct binding between presynaptic and postsynaptic transmembrane proteins. Many synaptogenic proteins have been described, some of which, like the secreted LGI proteins discussed here, are specific to vertebrates.

Myelination also requires cell–cell interactions; myelin is required for rapid axonal transmission of electrical signals in the vertebrate nervous system. It consists of multiple wraps of membrane that permit saltatory conduction between specialized structures, the nodes of Ranvier. Myelination requires reciprocal interactions between the axon and oligodendrocytes in the CNS (central nervous system) or Schwann cells in the PNS (peripheral nervous system); reviewed in [Nave, 2010; Platon et al., 2010; Quintes et al., 2010]. As described below, LGI4 participates in axon–Schwann cell communication; it is crucial for PNS (but not CNS) myelination. In addition to synaptogenesis and myelination, LGI proteins are likely to participate in other cell–cell interactions as well. The study of this interesting family of proteins is critical for understanding proper development and function of the vertebrate nervous system, and for gaining insights into therapies for diseases that affect them.

IDENTIFICATION OF THE LGI FAMILY

As suggested by its name, leucine-rich glioma inactivated, the LGI protein family was discovered in gliomas. Loss of one copy

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Abbreviations: ADLIE, autosomal dominant lateral temporal [lobe] epilepsy; ADPEAF, autosomal dominant partial epilepsy with auditory features; Aβ, protein kinase B; AMPA, α-amino-3-hydroxy-5-methylisovaleryl-L-glutamic acid; CNS, central nervous system; EPTP, epitempin; GFAP, glial fibrillary acidic protein; mEPSC, miniature excitatory postsynaptic currents; IE, limbic encephalitis; IRR, leucine-rich glioma inactivated; IRR, leucine-rich repeat; IRR-CT, carboxyl-terminal portion of the IRR; NMDA, N-methyl-D-aspartate; Nrg1, neuregulin; PNS, peripheral nervous system; PSL, poly(sialic acid); VGIC, voltage-gated potassium channel.
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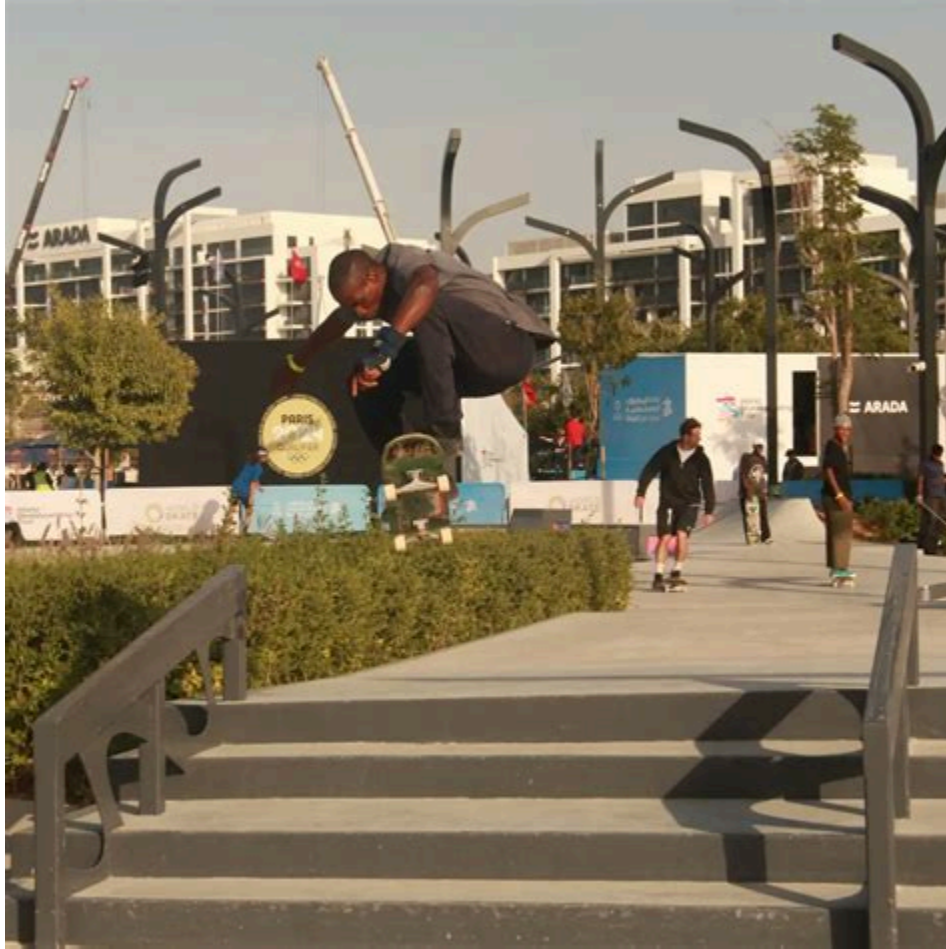
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Athlete Advisory: Higenamine and DMBA - Worldskate



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LGI Fully Loaded Amplified Energy Review (SupplementReviews)



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Russian folk music on Scottish bagpipes - Russia Beyond



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LGI: an industry powerhouse - Waste Management Review



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LGI Fully Loaded | Preworkout | Supplement Review - YouTube



Cancer-causing supplement ingredient? You've probably never heard of betel nut, or its synthetic derivative arecoline. But if you're a supplement user, you should be hearing about it, given that it's well-established as a carcinogen[1] and is making its way into the sports nutrition industry.

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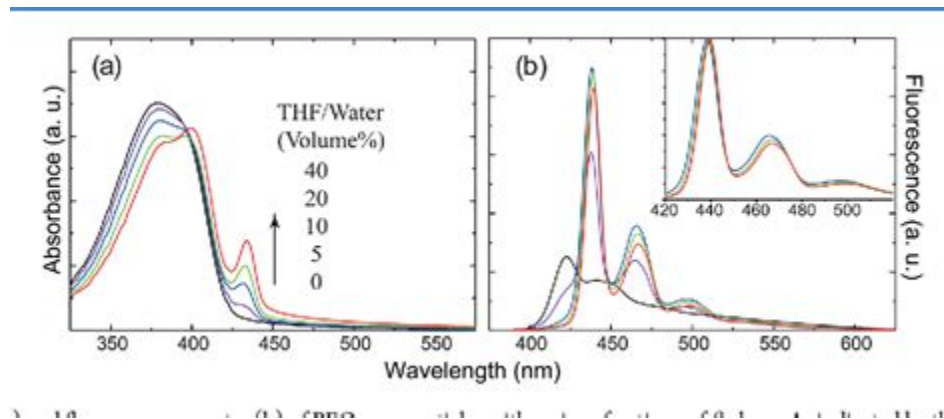
LGI genes appeared in chordates [Branchiostoma floridae (amphioxus) has one LGI gene] . First, the onset of pathology in LE patients suggests that LGI1 is required for functioning of fully developed synapses, in addition to its role in synaptic maturation (Owuor et al. , 2009). The differences between the symptoms of ADPEAF and LE patients may .

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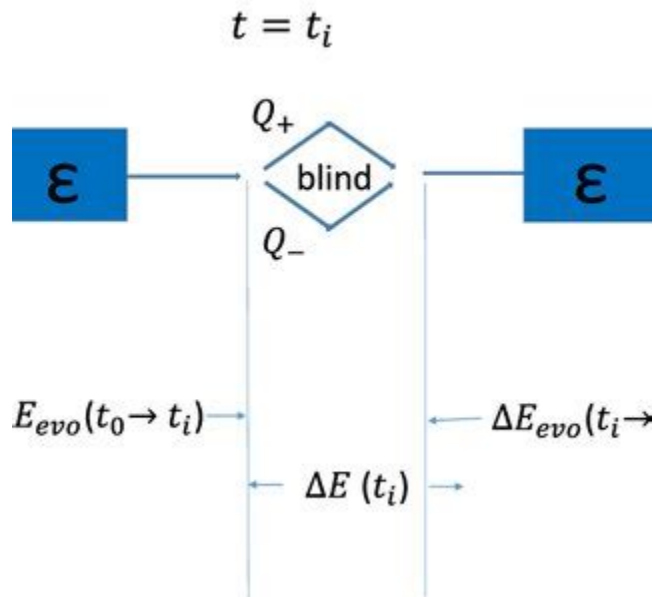
In the case of the energy constraint, we find that under the coarsening measurement in reference and final resolution, the quantum violation of the LGI for the pure qubit is the most robust; on .

PDF Russia's EnERgy stRatEgy-2035 - IFRI



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Quantum violation of LGI under an energy constraint for different .



The analyses will be built on the official goals of the "Russian Energy Strategy Up to 2035". 2. The key goals of ES-2035 include: Sustaining Russia's position in global energy markets. Diversifying energy exports towards Asian markets. Ensuring energy availability and affordability for domestic consumers.

Moscow is being forced to change its energy strategy - Financial Times



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LGI Fully Loaded Booster - Review / Erfahrungsbericht - YouTube



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