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Approaches to treatment of pain without the toxicities of current treatments

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Pain is the most ubiquitous and expensive medical problem in the world. Furthermore, the primary methods for treating pain, NSAIDs and opiates, are highly toxic and often ineffective. Investments in pain research and development are trivial compared to our other major diseases. There is much talk about the opiate epidemic but very little is actually being done. There are alternatives and there is much animal evidence that they work on prolonged and neuropathic pain, as well as acute pain. Author will discuss the design of novel peptide and peptidomimetic ligands that are very potent in treating acute, neuropathic and prolonged pain states, that are bioavailable and cross the blood brain barrier, that have none or greatly reduced toxicities of our current toxic drugs and do not lead to dependence or addiction. Most of these ligands are multivalent and have novel biological activity profiles.

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