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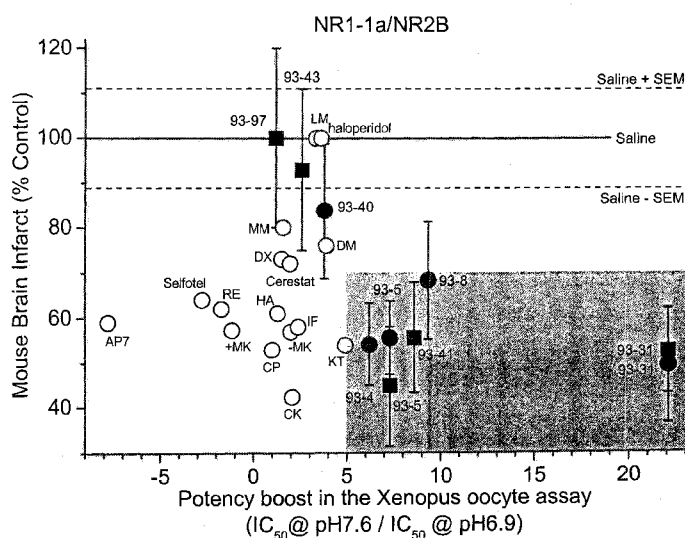
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(54) Title: METHODS OF IDENTIFYING SAFE NMDA RECEPTOR ANTAGONISTS

Figure 1



(57) Abstract: Processes are provided for the identification of a compound that is useful to treat or prevent a disorder that lowers the pH in a region of affected tissue comprising assessing the difference in potency, or potency boost, of the compound at physiological pH versus disorder-induced pH in a cell that expresses a human NMDA receptor. The assessment of potency boost can include measuring an IC_{50} of a compound at physiological pH and at disorder-induced pH (the 'potency boost') until a 95% confidence interval for the potency boost does not change more than 15% with the addition of a new experiment, wherein the measurements are repeated at least 5 times. The processes can be used for the selection of safe NMDA receptor antagonists for the treatment or prevention of a human disorder that lowers the pH in a region of affected tissue. Such disorders include, but are not limited to, neuropathic pain, ischemia, Parkinson's disease, epilepsy and traumatic brain injuries.



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