

In vitro human muscarinic receptor binding assay

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Technology description

Many medications including certain antidepressants, antihistamines, antispasmodics, neuroleptics and antiarrhythmics may cause anticholinergic side effects. These effects range from peripheral autonomic effects (dry mouth, constipation) to more serious central effects including cognitive impairment and delirium. Anticholinergic effects are cumulative and the elderly who take on average of three prescription medications are especially at risk for developing serious anticholinergic side effects. Our laboratory has developed an in vitro assay that measures the total serum anticholinergic toxicity. This assay would be useful for drug discovery. It could determine if new therapeutic agents have anticholinergic properties. Available for non-exclusive license.

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