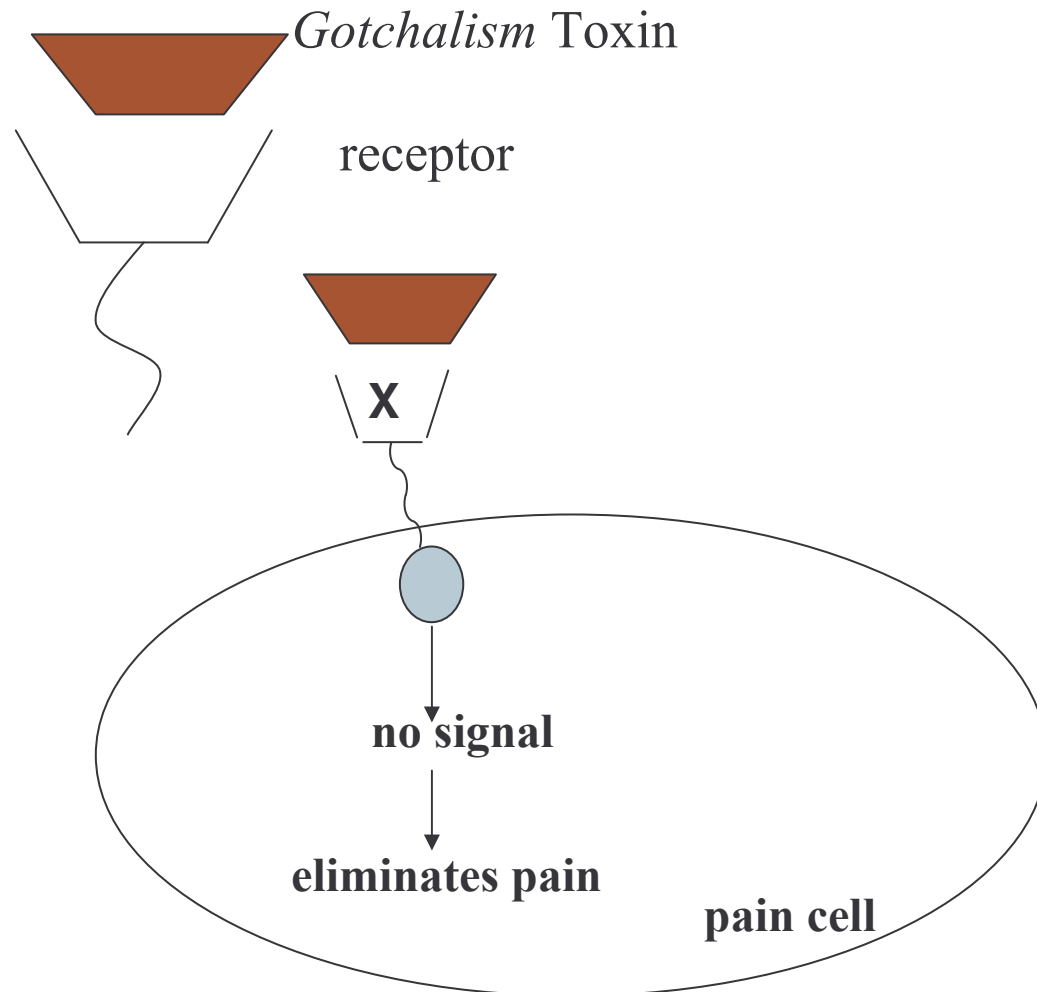


# DISCOVERIES OF NEW THERAPEUTIC USES FOR GOTCHALISM TOXINS BY RESEARCH AT GOTOX, INC.



## 1. PRIOR ART

- *Gotchalism* toxin is known toxin from *gotchalinum* bacteria
- *Gotchalism* toxins A, B and C are of different molecular weights

## 2. NEW THERAPEUTIC DISCOVERY

- Treat migraine headaches (types A, B, C)
- Treat pain associated with diabetic peripheral neuropathy (type A, B, C)
- Treat muscle spasms (type A only)
- Treat cerebral palsy (type A only)
- Ester of *Gotchalism* with propionic acid provides a prodrug with better shelf life and ease of delivery to patient.

## 3. DIAGNOSTIC USE

- Method to determine if patient can be treated successfully with Gotox™ by *in vitro* cell screen with labeled marker.