

Omega Fatty Acids as a Treatment

- Epilepsy is a neurological disease characterized by periods of abnormal brain activity presenting as seizures or reduced awareness
- Increased excitatory transmission, reduced inhibitory transmission, and event that has been characterized as being involved in all forms of epilepsy or seizure, rendering it still not completely understood
- Omega-3 and omega-6 fatty acid supplementation in diet shown to eliminate in hyperexcitability)



Discovered in *Drosophila* **Neurons and Glia**

- CG12344 gene-encoded Alka channel (alkaliphile) discovered in Drosophila gustatory receptor neurons (GRNs)
 - food (Mi et al., 2023)
 - in the brain (both neurons and glia)



• How could this channel relate to epileptogenesis?