

## Accepted Manuscript

Title: Thyroid hormones: possible roles in epilepsy pathology

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## Highlights:

- Thyroid hormones play essential roles in the brain physiological processes.
- Epilepsy is accompanied with mitochondrial dysfunction and oxidative stress.
- Mitochondrial dysfunction and oxidative stress are linked with thyroid dysfunction
- Inhibitory/excitatory imbalance is common between epilepsy and thyroid dysfunction
- Several genes are influenced by Thyroid hormones and are involved in the epilepsy.

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