

**Olive (*Olea europaea*) leaf
methanolic extract prevents
HCl/ethanol-induced gastritis
in rats by attenuating
inflammation and augmenting
antioxidant enzyme activities**

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The Author's Short Biographical Summary

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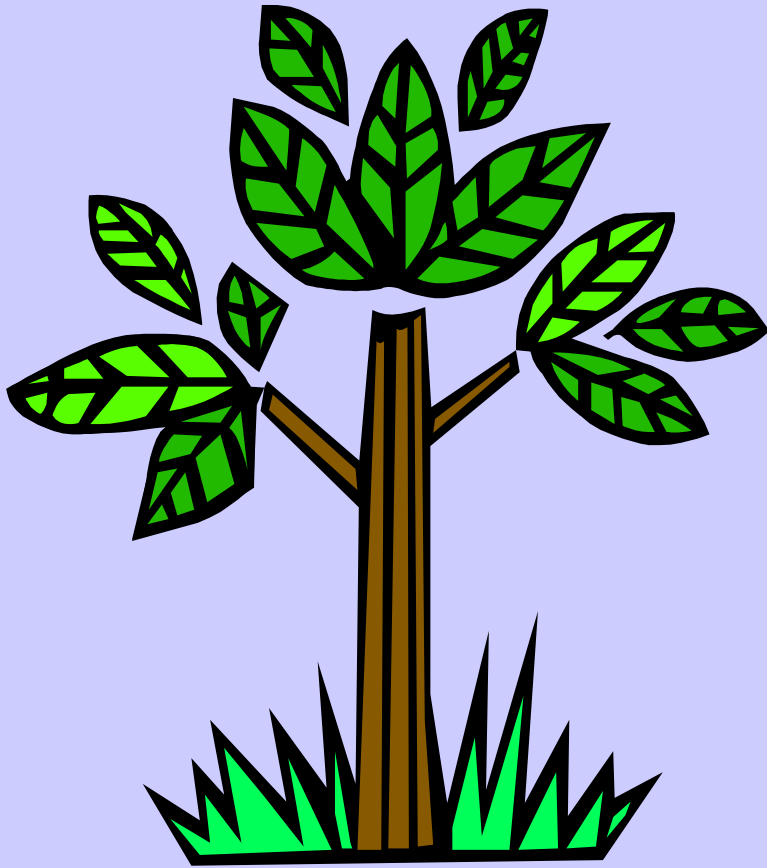
PhD.

- Associate Professor of Physiology, Helwan University, Cairo, Egypt.
- TWAS-ARO and TYAN member.
- My current research topic is include the role of medical plants and natural products in preventing and treating different diseases such as heavy metals toxicity, cancer, diabetes, neurodegenerative diseases, etc.

Gastric ulcer

- **Gastritis** is characterized by inflammation of the lining epithelial layer and the chronic gastritis is considered as a pre-cancer lesion.
- **Gastritis** is leading to abdominal pain, heart burn, possible bleeding, and different symptoms.
- The complex **etiology** of gastritis comprise microorganism infection, alcohol consumption, emotional distress, free radicals, and certain medicines such as steroidal and non-steroidal anti-inflammatory drugs.

Why medicinal plants



- Powerful ingredients.
- Only 15% of estimated plant species on earth have been investigated for possible Medicinal uses.
- The **world Health organization** estimates that 80% of the earth population today depends on plants to treat common diseases.
- Traditional Healers are good resources for scientific based research.

Phytochemicals



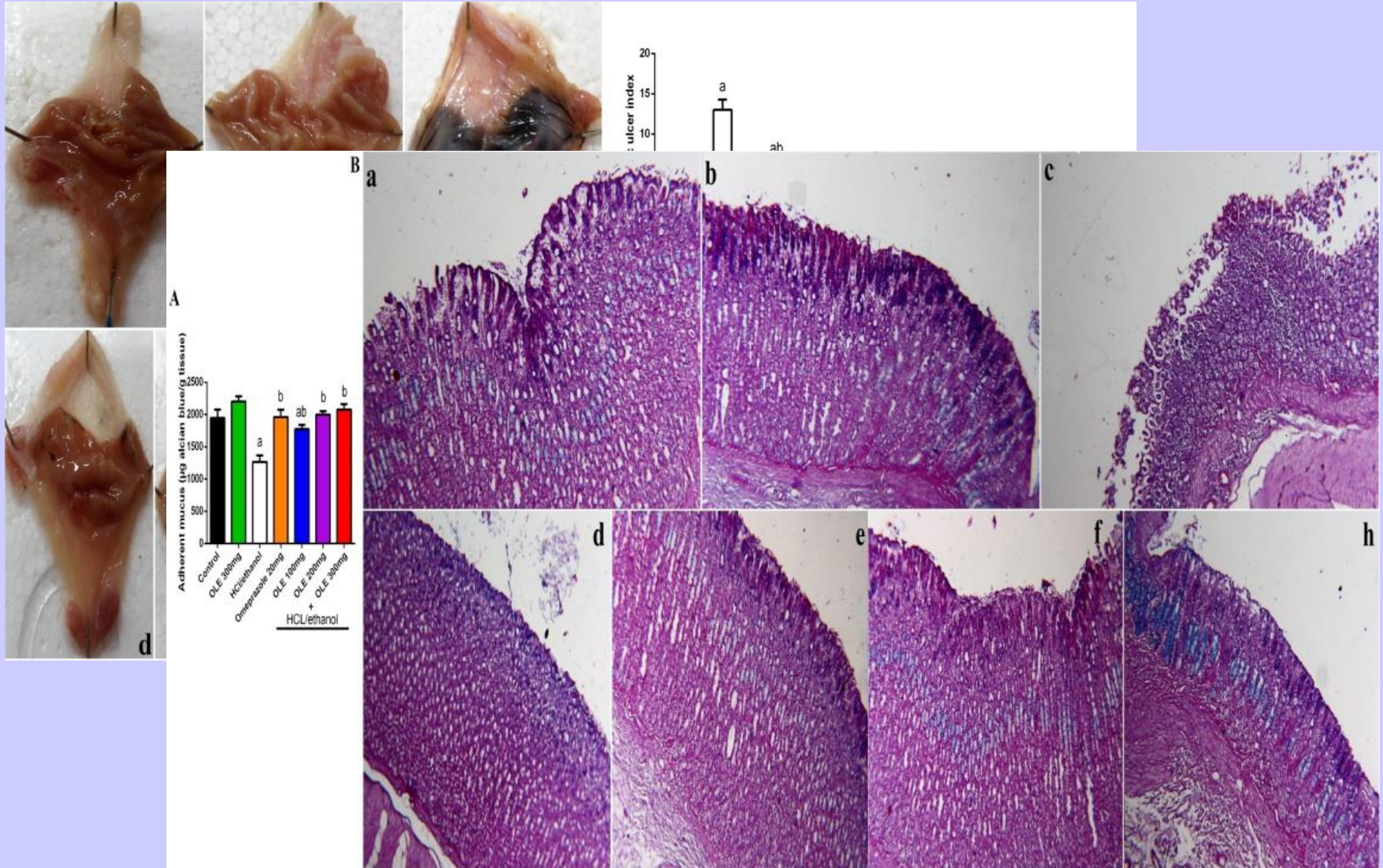
- No magic, diets high in fruits, and grains, reduce the risk of a number of diseases, including cancer, diabetes, high blood pressure.
- Phytochemicals are the biologically active substances in plants that are responsible for giving them color, flavor and natural disease resistance.

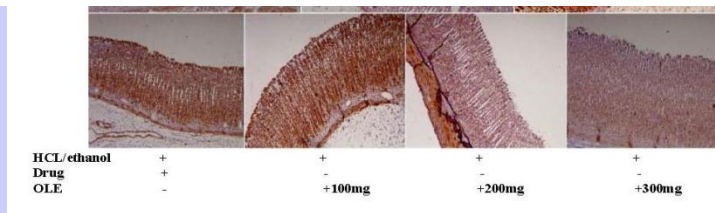
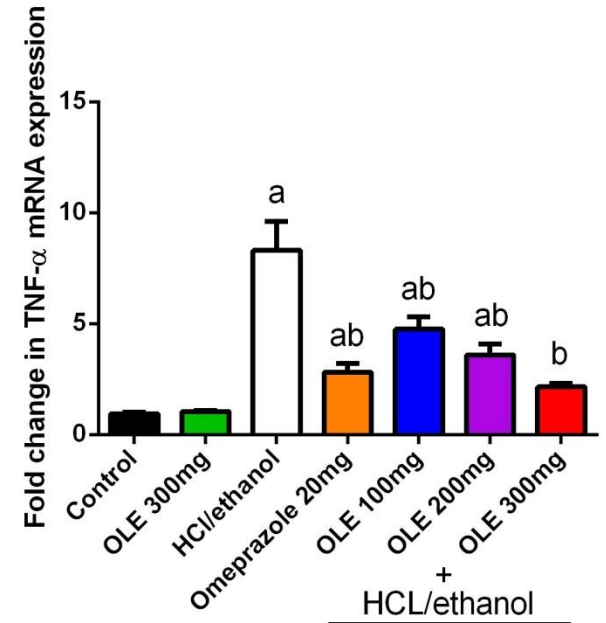
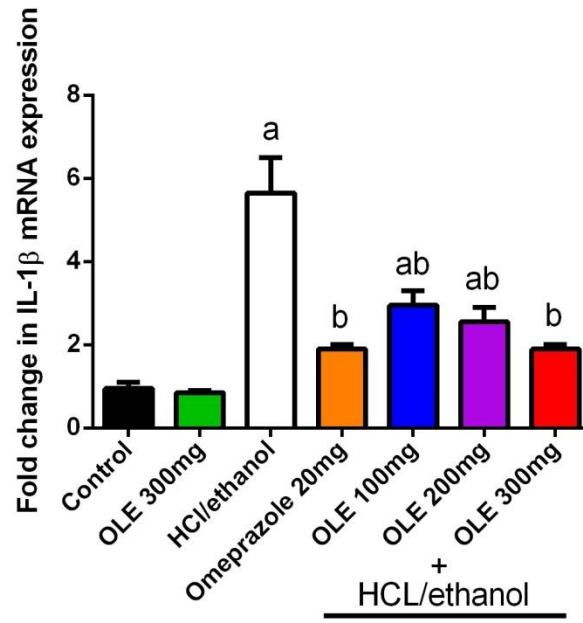
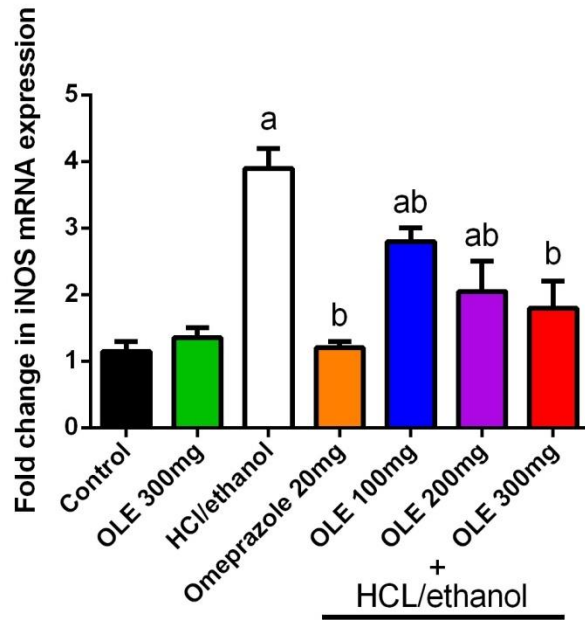
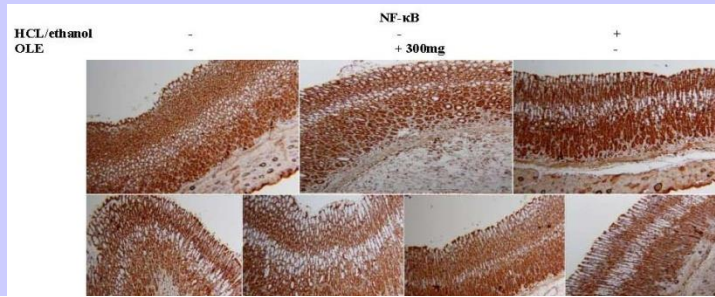
Olea europaea

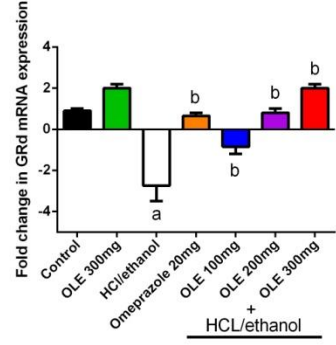
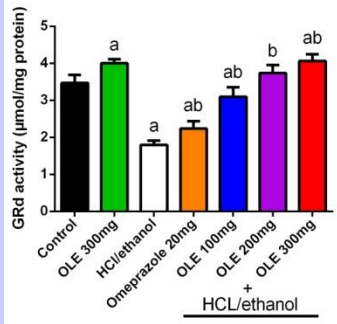
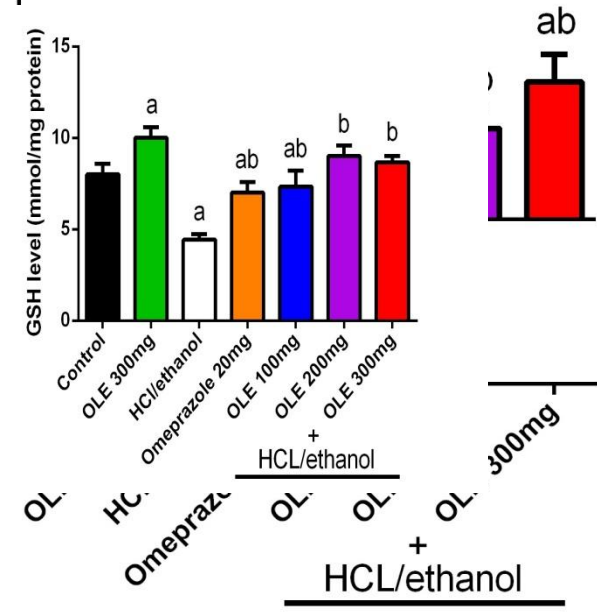
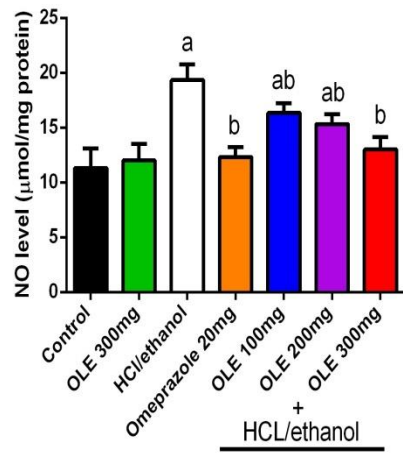
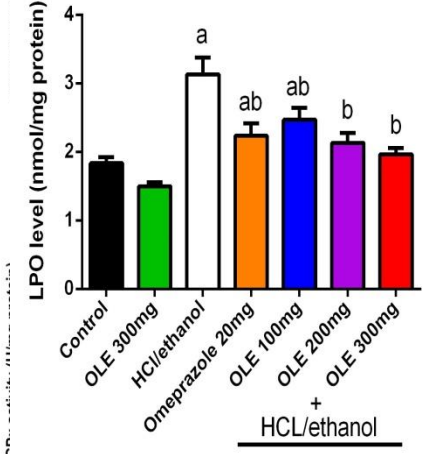
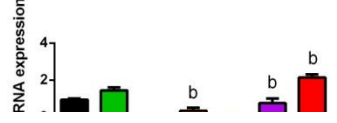
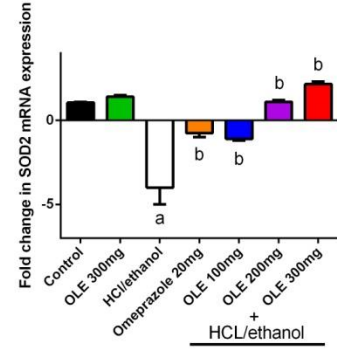
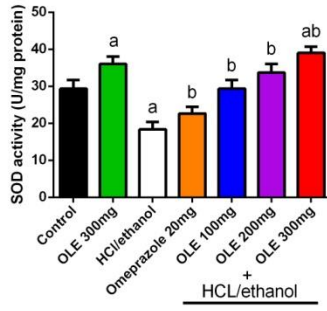
- **Olive** tree is a longevous tree with economical, social, and cultural values to the inhabitants of Mediterranean basin.
- The **leaves** of olive tree have been used for many centuries in the traditional medicine to cure diabetes and malaria symptoms.
- The medicinal properties of olive leaves comes from its polyphenols namely, **oleuropein** and **hydroxytyrosol**, those polyphenols have antioxidant, hypoglycaemic, antitumor, hypotensive, antimicrobial, and antiinflammatory activities.



Results







ession

Conclusion

In conclusion, my study highlights evidences for the gastroprotective activity of **OLE** in a rat model of **HCl/ethanol-induced gastric ulcer**. These favorable activities were mediated via restraining of gastric inflammation and maintaining the antioxidant activity, chiefly through NF- κ B inhibition and preventing the activated leukocytes mobilization into the stomach tissue. Interestingly, the gastroprotective benefit of OLE was comparable to this exerted by the reference antiulcer omeprazole.

THANK YOU