Ancient drinks fight cancer

Penn Museum researchers saw anti-cancer activity in ancient fermented beverages

BY **GRACE ORTELERE**SP Contributing Writer

Greeks, drink up — Romans, you too.

Findings from a recent Penn laboratory study have confirmed that additives in ancient alcoholic beverages carry anticancer properties.

The study showed that certain compounds in alcohol exhibit activity against colon and lung cancer, according to a Penn press release.

The tests were conducted by researchers at Penn Medicine's

Abramson Cancer Center in collaboration with the University of Pennsylvania Museum's Biomolecular Archaeology Laboratory, run by adjunct anthropology professor Patrick McGovern.

Ancient societies — particularly the Greeks and Romans — used alcohol to stop infection and cure diseases before synthetic medicines, McGovern

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Wormwood might allay cancer

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explained.

Researchers focused on alcohol's ability to dissolve herbal compounds, McGovern explained. The team analyzed residues found inside versity of Pennsylvania ancient pottery vessels which School of Medicine Clinical had accumulated compounds Professor Kenneth Algazy. in their bases.

tested in vitro against the placebo or standard care in certain superstitions." cell lines of colon and lung humans, I remain skeptical cancers — and some induced as to any of ancient biologic tumor cell death.

with mice and, if positive re- have lived 900 years," ref- Christofidou-Solomidou, human testing.

are in Phase I human testing of the effects of similar compounds against cancer.

McGovern is particularly optimistic about the compound artemisinin, commonly known as wormwood, which the Penn study shows "is highly effective against lung and colon cancers, as good as most of the standard treatments that are available."

Not everyone shares his optimism — including Uni-

"Until we see randomized These compounds were trials using these agents vs. agents," Algazy wrote in an The next steps will be to email. "If they really were test the compounds in vivo effective Methuselah would sults are found, move onto erencing a Biblical figure Psychiatry Professor Caryn who is said to have lived 969 Lerman and Wafik El-Deiry,

However, McGovern hopes to get more funding to test more ancient samples from other parts of the world, and points to the potential importance of the Neolithic period for human medicine.

"Humans obviously figured out a lot in that period about how to domesticate plants and animals," he said. It was a time when humans only lived twenty to thirty years, and "were very interested in searching their environments for solutions."

But he added, "over thousands of years sometimes the real value of some of the plants can be obscured by

Other contributors to the study — titled "Archaeological Oncology: Digging for Drug Discovery" — include medicine professor Melpo Researchers in Germany years. former medicine professor.

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